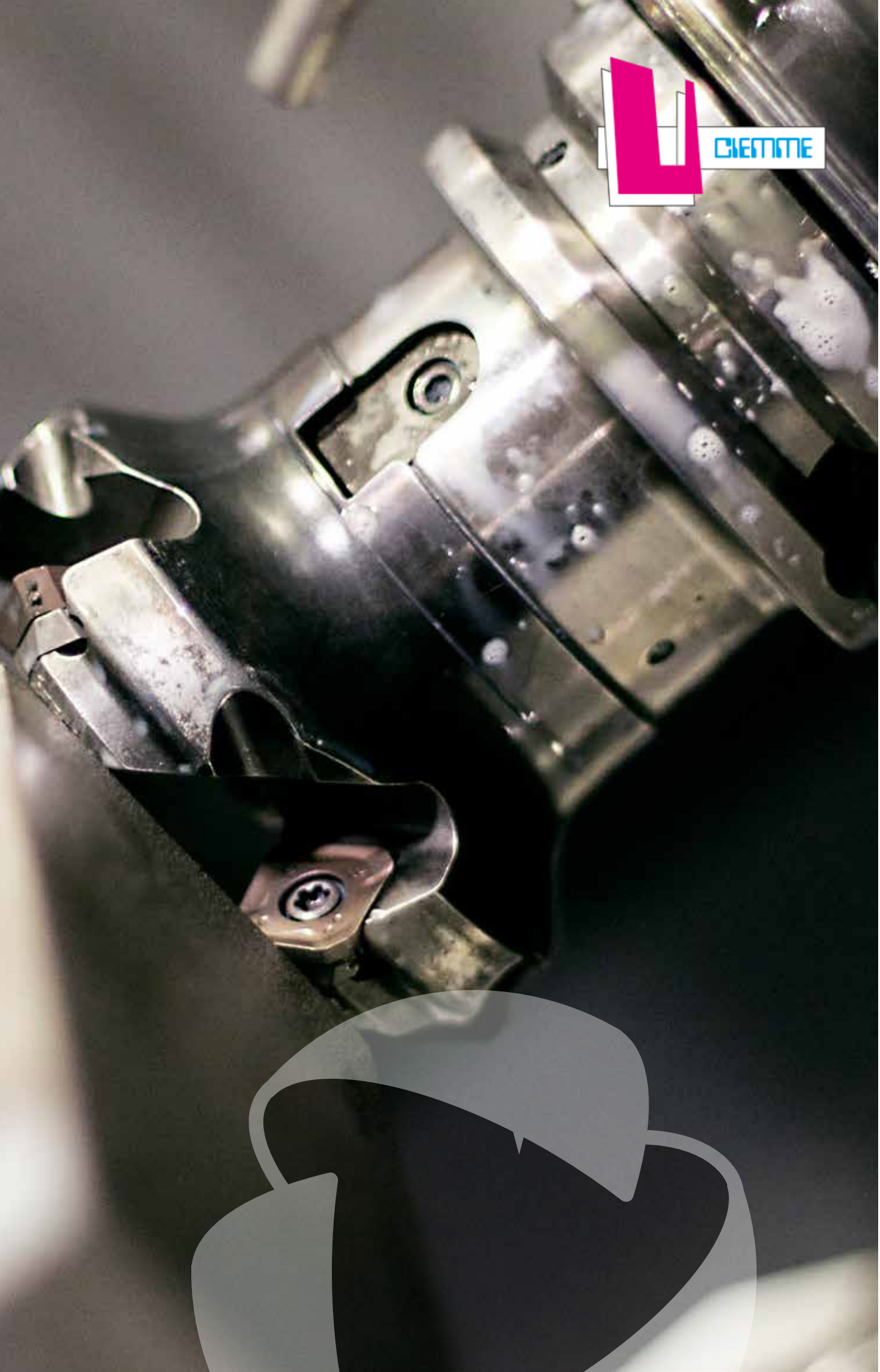
TechnoTradeGroup®

# Gtake®

catalogo GENERALE 2018 01

## PRODOTTI TECNICI PER L'INDUSTRIA





# CHI SIAMO

La nostra impresa nasce nel settembre 2001, con l'obiettivo ben preciso di creare all'interno della nostra Provincia **un punto di riferimento tecnico-commerciale** per tutte quelle Aziende in costante ricerca di "qualità" dei prodotti, competenza nella proposta e conseguente capacità nell'applicazione degli stessi.

Un progetto che con il passare del tempo ha trovato il consenso di molte aziende del settore, clienti e fornitori. Grazie a questo consenso, ad oggi, **possiamo annoverare tra le nostre partnership aziende che operano e sono leader a livello europeo e mondiale.**

Nel 2009 Uciemme Snc, per effetto della partecipazione a Techno Trade Group, si è definitivamente votata ad **uno spettro molto più ampio delle forniture alla clientela industriale**, introducendo tra gli altri, la gamma ed i cataloghi Ttake.

UCIEMME



# I NOSTRI FORNITORI PARTNER

Sono centinaia i marchi e le Aziende che, nell'arco dell'anno, forniscono a UCIEMME grandi quantità o minimi dettagli per consentire all'Azienda di dare un servizio a 360° alla propria Clientela.

È davvero importante **dare risposte concrete ai più piccoli bisogni dei clienti: è questa la filosofia di fondo di UCIEMME.** Per fare questo, è necessario disporre di un **panorama pressoché infinito di fornitori**, i più importanti dei quali divengono **veri e propri partner nella catena di servizio al cliente.**

Non esiste settore, mestiere e/o applicazione tecnica che non possa vedere UCIEMME, con i colleghi di Techno Trade Group, protagonisti al fianco dei propri clienti.

TechnoTradeGroup®

# I NOSTRI SERVIZI

UCIEMME è in grado di garantire, alla propria Clientela un **servizio commerciale d'eccellenza**, con l'ausilio di **personale qualificato** e costantemente formato ed aggiornato.

# TRADIZIONE INNOVAZIONE

Clienti sempre più esigenti e mercati sempre più competitivi, obbligano la Distribuzione Italiana a modificare il proprio modello di business, ricercando **nuove soluzioni logistiche sempre più performanti ed esasperate.** Da anni, la tradizione legata all'innovazione dei processi informatici e di servizio accompagna UCIEMME sul mercato.
La selezione da parte dei distributori più evoluti di fornitori partner si caratterizza proprio in questo senso. Solo chi sa interpretare i bisogni della propria clientela, anticipandoli quando possibile, vincerà le sfide future, UCIEMME, come fornitore globale dell'Industria, si sente attore principale di questo cambiamento di approccio e **garantisce alla propria clientela innovazione e dinamicità.**

# Consegne rapide

Grazie ad una **struttura di vendita capillare** su tutto il territorio provinciale, la nostra azienda è in grado di garantire velocità e precisione nell'ordine, dalla sua preparazione alla sua consegna, che viene garantita entro le 48 ore.

# LE PERSONE Lavora con noi

Un Team di giovani di grande cultura tecnica, di spiccata volontà e di **uomini esperti ed orientati al mercato** da decenni, generano un gruppo di persone di altissimo potenziale. Un ambiente informale ed orientato alla crescita professionale interna, offre alle donne ed agli uomini di UCIEMME, e più in generale all'interno del Gruppo di riferimento, un ambito lavorativo sereno e dinamico.

# PRODUCT MANAGER & KEY ACCOUNT

Uno degli elementi distintivi di UCIEMME nel panorama della distribuzione industriale di qualità, è quello di disporre di **Product Manager** di Gruppo dedicati e specializzati che, grazie alla loro qualificata esperienza, offrono consulenza, supporto tecnico e soluzioni mirate, per soddisfare i clienti più esigenti.

Un'altra figura fondamentale all'interno dell'organizzazione è quella del **Key Account, diretto responsabile dei Grandi Clienti** e, soprattutto, responsabile dell'analisi dei clienti con strutture diversificate e dislocate in varie aree della penisola. La profonda conoscenza delle diverse aree di intervento su vari siti consente a UCIEMME di garantire una presenza puntuale ed informata nelle evoluzioni produttive dei nostri più importanti clienti. I nostri Key Account ed i Product Manager di Gruppo sono uno dei fiori all'occhiello e tra i più apprezzati servizi della nostra Azienda.



# IL NOSTRO PUNTO VENDITA





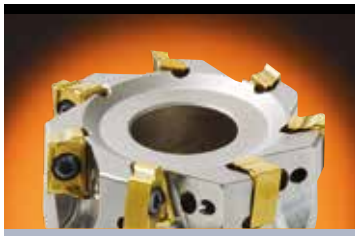







TechnoTradeGroup®

# LA NOSTRA GAMMA PRODOTTI



## UTENSILI DA TAGLIO

Alesatori HSS
Alesatori in metallo duro
Barrette
Frese in HSS
Frese in metallo duro
Inserti a filettare e frese a filettare
Inserti di foratura
Inserti di fresatura
Inserti di tornitura
Lame a nastro
Maschi in HSS, ASP e MD
Punte HSS
Punte in metallo duro
Svasatori
Utensili di foratura
Utensili per fresatura ad inserti
Utensili per tornitura
Utensili saldobrasati
Utensili speciali a disegno



## ATTREZZATURE MACCHINE UTENSILI

Apparecchi per presettaggio
Contropunte
Macchine per calettamento a caldo
Mandrini modulari, allargatori e testine di finitura
Mandrini per CNC
Mandrini per tornio
Mandrini per trapano
Mandrini portamaschi
Mandrini speciali
Morse
Pinze ER
Prolunghe, bussole di riduzione ed estrattori
Torrette e portautensili di ricambio
Trascinatori



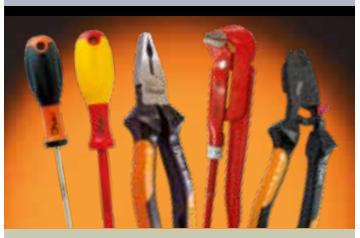
## STRUMENTI DI MISURA

Alesametri
Anelli
Blocchetti
Calibri Digitali
Calibri Meccanici
Comparatori
Durometri
Goniometri
Micrometri
Microscopi
Presetting
Strumenti di Controllo
Spessimetri
Squadre, Righe, Livelle
Tastatori
Truschini
Tamponi
Tracciatori



## SALDATURA

Accessori e protezioni saldatura
Aspirazione
Materiali consumabili
Motosaldatrici
Ossigas
Saldatura ad arco
Saldatura Mig Tig



## UTENSILERIA MANUALE

Autoriparazione
Chiavi a bussola e chiavi di manovra
Estrattori
Giraviti, pinze e tronchesi
Martelli e scalpelli
Misura e tracciatura
Morse e strettoi
Serraggio controllato
Taglio e manutenzione



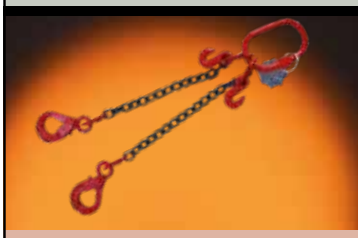
## ATTREZZATURE PER OFFICINA

Attrezzature di sollevamento
Carrelli
Morse
Ruote e supporti per uso industriale
Transpallet



## ANTINFORTUNISTICA

Guanti, scarpe e abbigliamento
Protezione corpo
Respirazione e udito



## ATTREZZATURE PER SOLLEVAMENTO

Funi
Sollevatori magnetici
Paranchi
Pendenti e accessori
Sistemi di ancoraggio
Tiranti



## UTENSILI ELETTRICI E PNEUMATICI

Aspiratori
Aspiratori industriali
Gruppi elettrogeni
Idropulitrici
Utensili pneumatici



## ARREDAMENTO INDUSTRIALE

Armadi a cassetti
Armadi a cassetti
Armadi spogliatoio
Banchi da lavoro
Carrelli
Contenitori in plastica e acciaio
Sistemi di scaffalatura
Sistemi portautensili



## ELETTROUTENSILI

Avvitatori speciali
Carotatori a secco e umido
Chiodatrici
Lampade
Lavorazione del legno
Lavorazione metallo
Macchine stazionarie per legno
Martelli e tassellatori a filo
Pistole termiche, Seghe
Utensili a batteria
Trapani a filo



## LUBRIFICANTI E CHIMICI

Adesivi epossidici
Anaerobici, cianoacrilati, frenafiletti, sigillanti, colle epossidiche
Chimici
Chimici per l'elettronica
Grassi lubrificanti
Oli minerali e sintetici per impianti oleodinamici
Oli per metalli interi ed emulsionabili da taglio
Pulitori
Rivestimenti protettivi
Sbloccanti
Siliconi vari



## IMBALLAGGI E PULIZIA

Bobine asciugatutto
Detergenti e pasta lavamani
Film estensibile
Pezzame



## ABRASIVI

Abrasivi da taglio
Dischi abrasivi fibra e carta
Dischi lamellari
Lime
Lime diamantate
Lime rotative
Mole abrasive
Mole con gambo
Rulli abrasivi
Spazzole metalliche
Tela fogli nastri abrasivi



## MACCHINE UTENSILI

Curvatrici
Fresatrici
Piegatrici
Torni
Trapani a colonna
Troncatrici



Tramite il sito www.uciemme.it ogni nostro cliente può inoltrare richieste di informazioni e inviare richieste d'ordine.

Un sito agevole e trasparente all'interno del quale potrete trovare utili elementi per il vostro business e che vi fornirà, 24 ore al giorno, il miglior servizio tecnicamente proponibile oggi nel nostro comparto.

Non perdete, quindi, l'occasione di visitare il sito
**www.uciemme.it**



**Uciemme Snc**
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**Sede operativa**
Via Mozzanica, 7 | 24043 Caravaggio (BG)
Tel. 0363.351936 | Fax 0363.353288
info@uciemme.it |www.uciemme.it

DA QUI INIZIA IL VIAGGIO
NEL MONDO TTAKE.

**BENVENUTI!**

**www.ttake.it | info@ttake.it**

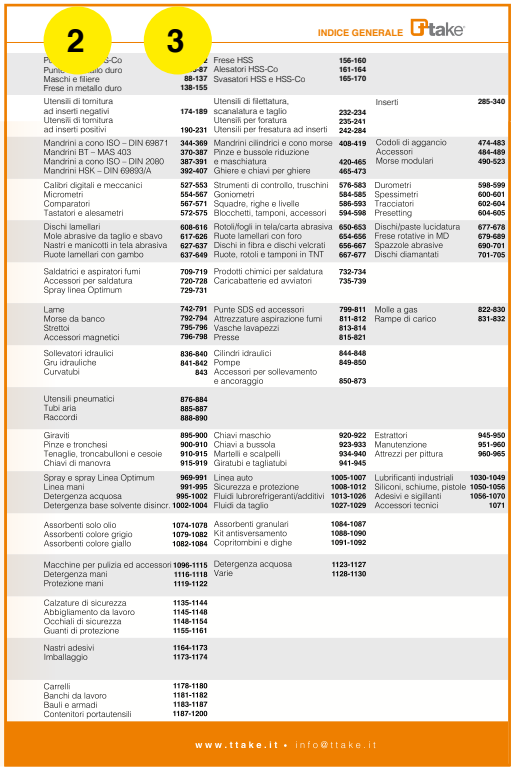




**seguici sui social**

# GUIDA ALLA LETTURA DEL CATALOGO Ttake®



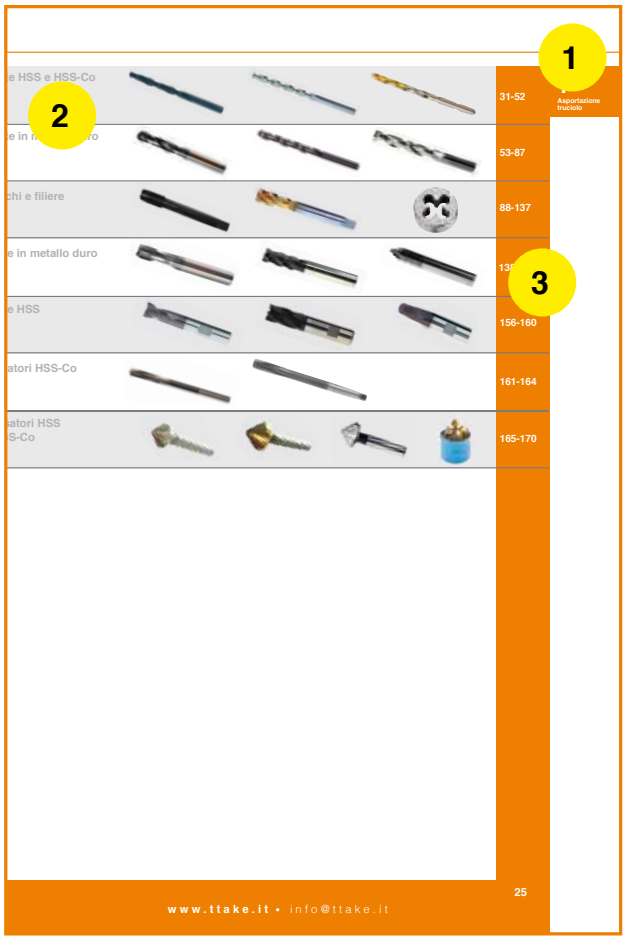

## INDICEGENERALE

**1** Capitolo

**2** Famiglia prodotto

**3** Numero pagine

# INDICECAPITOLO




# PAGINEINTERNE




1 Identificazione capitolo

2 Identificazione famiglia prodotto

3 Numero pagina

4 Capitolo

5 Famiglia prodotto

6 Descrizione breve prodotto

7 Immagine e disegno prodotto*

8 Pittogrammi

9 Codice di ordinazione

10 Prezzo listino*

11 Quantità per confezione



*Prezzi e caratteristiche possono subire variazioni senza preavviso.

1 Asportazione truciolo — **ASPORTAZIONE**TRUCIOLO

2 Utensili taglio fiss. meccanico — **UTENSILI**TAGLIO**FISSAGGIO**MECCANICO

3 Attrezzature macchine utensili — **ATTREZZATURE**MACCHINE**UTENSILI**

4 Strumenti di misura — **STRUMENTI**MISURA

5 Abrasivi — **ABRASIVI**

6 Saldatura — **SALDATURA**

7 Attrezzature officina — **ATTREZZATURE**OFFICINA

8 Attrezzature sollevamento — **ATTREZZATURE**SOLLEVAMENTO

9 Pneumatica — **PNEUMATICA**

10 Utensili manuali — **UTENSILI**MANUALI

11 Chimici — **CHIMICI**

12 Assorbenti industriali — **ASSORBENTI**INDUSTRIALI

13 Cleaning — **CLEANING**

14 Antinfortunistica — **ANTINFORTUNISTICA**

15 Nastri adesivi Imballaggio — **NASTRI**ADESIVI**IMBALLAGGIO**

16 Arredamento industriale contenitori — **ARREDAMENTO**INDUSTRIALE**CONTENITORI**

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| Punte HSS e HSS-Co | **31-52** | Frese HSS | **156-160** | | |
| Punte in metallo duro | **53-87** | Alesatori HSS-Co | **161-164** | | |
| Maschi e filiere | **88-137** | Svasatori HSS e HSS-Co | **165-170** | | |
| Frese in metallo duro | **138-155** | | | | |
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| Utensili di tornitura ad inserti positivi | **190-231** | Utensili per foratura | **235-241** | | |
| | | Utensili per fresatura ad inserti | **242-284** | | |
| Mandrini a cono ISO – DIN 69871 | **344-369** | Mandrini cilindrici e cono morse | **408-419** | Codoli di aggancio | **474-483** |
| Mandrini BT – MAS 403 | **370-387** | Pinze e bussole riduzione | | Accessori | **484-489** |
| Mandrini a cono ISO – DIN 2080 | **387-391** | e maschiatura | **420-465** | Morse modulari | **490-523** |
| Mandrini HSK – DIN 69893/A | **392-407** | Ghiere e chiavi per ghiere | **465-473** | | |
| Calibri digitali e meccanici | **527-553** | Strumenti di controllo, truschini | **576-583** | Durometri | **598-599** |
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| Mole abrasive da taglio e sbavo | **617-626** | Ruote lamellari con foro | **654-656** | Frese rotative in MD | **679-689** |
| Nastri e manicotti in tela abrasiva | **627-637** | Dischi in fibra e dischi velcrati | **656-667** | Spazzole abrasive | **690-701** |
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| Saldatrici e aspiratori fumi | **709-719** | Prodotti chimici per saldatura | **732-734** | | |
| Accessori per saldatura | **720-728** | Caricabatterie ed avviatori | **735-739** | | |
| Spray linea Optimum | **729-731** | | | | |
| Lame | **742-791** | Punte SDS ed accessori | **799-811** | Molle a gas | **822-830** |
| Morse da banco | **792-794** | Attrezzature aspirazione fumi | **811-812** | Rampe di carico | **831-832** |
| Strettoi | **795-796** | Vasche lavapezzi | **813-814** | | |
| Accessori magnetici | **796-798** | Presse | **815-821** | | |
| Sollevatori idraulici | **836-840** | Cilindri idraulici | **844-848** | | |
| Gru idrauliche | **841-842** | Pompe | **849-850** | | |
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| Utensili pneumatici | **876-884** | | | | |
| Tubi aria | **885-887** | | | | |
| Raccordi | **888-890** | | | | |
| Giraviti | **895-900** | Chiavi maschio | **920-922** | Estrattori | **945-950** |
| Pinze e tronchesi | **900-910** | Chiavi a bussola | **923-933** | Manutenzione | **951-960** |
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| Chiavi di manovra | **915-919** | Giratubi e tagliatubi | **941-945** | | |
| Spray e spray Linea Optimum | **969-991** | Linea auto | **1005-1007** | Lubrificanti industriali | **1030-1049** |
| Linea mani | **991-995** | Sicurezza e protezione | **1008-1012** | Siliconi, schiume, pistole | **1050-1056** |
| Detergenza acquosa | **995-1002** | Fluidi lubrorefrigeranti/additivi | **1013-1026** | Adesivi e sigillanti | **1056-1070** |
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| Assorbenti colore giallo | **1082-1084** | Copritombini e dighe | **1091-1092** | | |
| Macchine per puliziaed accessori | **1096-1115** | Detergenza acquosa | **1123-1127** | | |
| Detergenza mani | **1116-1118** | Varie | **1128-1130** | | |
| Protezione mani | **1119-1122** | | | | |
| Calzature di sicurezza | **1135-1144** | | | | |
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| Occhiali di sicurezza | **1148-1154** | | | | |
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| Imballaggio | **1173-1174** | | | | |
| Carrelli | **1178-1180** | | | | |
| Banchi da lavoro | **1181-1182** | | | | |
| Bauli e armadi | **1183-1187** | | | | |
| Contenitori portautensili | **1187-1200** | | | | |




*Prezzi e caratteristiche possono subire variazioni senza preavviso.

# 1 ASPORTAZIONETRUCIOLO



| | | |
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| Punte HSS e HSS-Co |  | 31-52 |
| Punte in metallo duro |  | 53-87 |
| Maschi e filiere |  | 88-137 |
| Frese in metallo duro |  | 156-160 |
| Frese HSS |  | 138-155 |
| Alesatori HSS-Co |  | 161-164 |
| Svasatori HSS e HSS-Co |  | 165-170 |

# Legenda simboli

| | |
|---|---|
|  | Punta EXTRA CORTA |
|  | Punta CORTA |
|  | Punta LUNGA |
|  | Punta EXTRA LUNGA |
| 3xD | Pronfondità di foratura, ad esempio “fino a 3xD” |
| UN | Universale |
| VA | Specifico per acciai inox e superleghe |
| HQ | Alta qualità |
| HP | Alte prestazioni |
| ALU | Specifico per alluminio |
| ST | Standard |
| M.D. | Materiale da taglio |
| HSS Co | Materiale da taglio |
| HSS | Materiale da taglio |

| | |
|---|---|
| DIN ... | Normativa |
| Toll. h8 | Tolleranza diametro nominale $d_1$ |
| Toll. m7 | Tolleranza diametro nominale $d_1$ |
|  | Angolo affilatura |
|  | Angolo affilatura |
|  | Attacco cono morse |
|  | Gambo rinforzato cilindrico |
|  | Gambo cilindrico pari al diametro della punta |
|  | Eseguire un preforo pilota prima della foratura profonda |
|  | Direzione di taglio - destra |
|  | Con refrigerazione interna |
|  | Senza refrigerazione interna |
| U | Maschio universale |

| | |
|---|---|
| M MF GAS UNC UNF NPT | Filettatura |
| ISO 2 6H ISO 3 6G ISO 228 2B ANSI B1.20.1 | Tolleranza filettatura |
| HSS-E ASP HSS | Materiale di costruzione maschio |
|   | Angolo di filettatura |
|   | Imbocco forma B, 4-5 spire |
|   | Imbocco forma C, 2-3 spire |
|   | Imbocco forma E, 1,5-2 spire |
|  | Fori passanti, il truciolo viene spinto verso il basso |
|  | Fori ciechi, il truciolo entra nelle eliche del maschio e viene portato verso l'alto |
| 40° 15° | Angolo dell'elica |
| DIN 371 DIN 376 DIN 374 | Normativa diametro gambo e quadro maschio |

# Legenda simboli

| | |
|---|---|
|  | Lunghezza del tagliente: extra corta, corta, lunga, extra lunga |
|   | Numero dei taglienti |
|   | Tagliente con smusso |
|   | Tagliente a spigolo vivo |
|   | Tagliente con raggio tollerato |
|   | Tagliente con raggio tollerato |
|   | Angolo di taglio dei taglienti |
|   | Angolo dell'elica |
|   | Grandezza dell'angolo dell'elica |
|   | Angolo di inclinazione della fresa |
| Toll. e8 | Tolleranza del diametro di lavoro |
| L | Serie lunga |
| XL | Serie extra-lunga |
| EC | Serie extra-corta |
| HP ALU | Alte prestazioni, specifica per alluminio |
| HP VA | Alte prestazioni, specifica per acciai inossidabili |
| HPC | Alte prestazioni ad elevati parametri |
| SGR | Per sgrossature |
| SF | Per superfinitura |
| HP SF | Alte prestazioni, per superfinitura |
| HP SGR | Alte prestazioni, per sgrossatura |
| HP | Maschio ad alte prestazioni |
| AL | Affilatura specifica per alluminio e sue leghe |
|  | Per fori ciechi e fori passanti |
|   | Per lamature a 180° |
|   | Attacco weldon |
| HSS Co HSS E-PM | Acciai super rapidi |
|  | Lavorazione in cava |


Lavorazione in rampa


Fresa forante


Lavorazione in interpolazione elicoidale


Lavorazione di sgrossatura in contornatura


Lavorazione di finitura e superfinitura


Lavorazione in copiatura


Avanzamento solo laterale

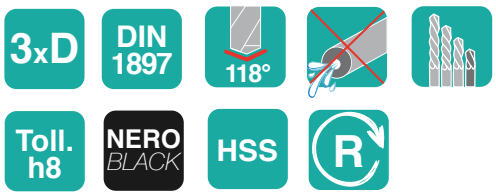

Avanzamento laterale, fresatura a tuffo inclinata

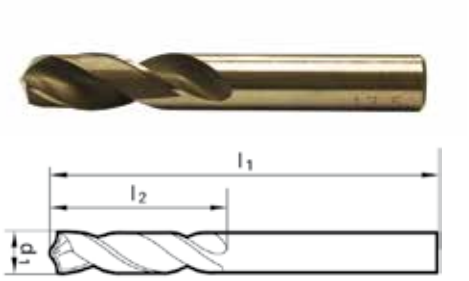

Avanzamento laterale, fresatura a tuffo inclinata, foratura

# Legenda simboli RIVESTIMENTI

| | |
|---|---|
| VAP | VAPORIZZATO |
| CR | CROMO |
| Si | SILICIO |
| TOP BLU | TOP BLU |
| LAPPATO *LAPPED* | LAPPATO |
| Nano TiAIN | Nano TiAIN |
| TOP TiAIN | TOP TiAIN |
| NERO *BLACK* | NERO |
| LUCIDO *BRIGHT FINISH* | LUCIDO |
| TiN | TiN |
| TiAIN | TiAIN |
| NON RIVESTITO *Uncoated* | NON RIVESTITO |
| LAPPATURA fine *fine LAPPED* | LAPPATURA FINE<br>Super-lucidatura per alluminio |
| T-TiAIN | T-TiAIN<br>Rivestimento per alte prestazioni a parametri elevati |

## Punta HSS elicoidale TA1050



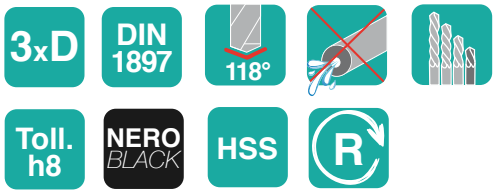



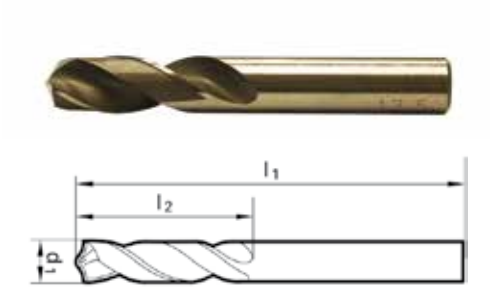

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1050090100100 | 1 | 26 | 6 | 1 | 2,47 |
| TA1050090100110 | 1,1 | 28 | 7 | 1 | 2,47 |
| TA1050090100120 | 1,2 | 30 | 8 | 1 | 2,47 |
| TA1050090100130 | 1,3 | 30 | 8 | 1 | 2,47 |
| TA1050090100140 | 1,4 | 32 | 9 | 1 | 2,47 |
| TA1050090100150 | 1,5 | 32 | 9 | 1 | 2,01 |
| TA1050090100160 | 1,6 | 34 | 10 | 1 | 2,14 |
| TA1050090100170 | 1,7 | 34 | 10 | 1 | 2,14 |
| TA1050090100180 | 1,8 | 36 | 11 | 1 | 2,14 |
| TA1050090100190 | 1,9 | 36 | 11 | 1 | 2,14 |
| TA1050090100200 | 2 | 38 | 12 | 1 | 1,31 |
| TA1050090100210 | 2,1 | 38 | 12 | 1 | 1,91 |
| TA1050090100220 | 2,2 | 40 | 13 | 1 | 1,91 |
| TA1050090100230 | 2,3 | 40 | 13 | 1 | 2,14 |
| TA1050090100240 | 2,4 | 43 | 14 | 1 | 2,27 |
| TA1050090100250 | 2,5 | 43 | 14 | 1 | 2,09 |
| TA1050090100260 | 2,6 | 43 | 14 | 1 | 2,27 |
| TA1050090100270 | 2,7 | 46 | 16 | 1 | 2,27 |
| TA1050090100280 | 2,8 | 46 | 16 | 1 | 2,27 |
| TA1050090100290 | 2,9 | 46 | 16 | 1 | 2,27 |
| TA1050090100300 | 3 | 46 | 16 | 1 | 2,09 |
| TA1050090100310 | 3,1 | 49 | 18 | 1 | 2,14 |
| TA1050090100320 | 3,2 | 49 | 18 | 1 | 2,09 |
| TA1050090100330 | 3,3 | 49 | 18 | 1 | 2,14 |
| TA1050090100340 | 3,4 | 52 | 20 | 1 | 2,47 |
| TA1050090100350 | 3,5 | 52 | 20 | 1 | 2,27 |
| TA1050090100360 | 3,6 | 52 | 20 | 1 | 2,47 |
| TA1050090100370 | 3,7 | 52 | 20 | 1 | 2,47 |
| TA1050090100380 | 3,8 | 55 | 22 | 1 | 2,47 |
| TA1050090100390 | 3,9 | 55 | 22 | 1 | 2,47 |
| TA1050090100400 | 4 | 55 | 22 | 1 | 2,47 |
| TA1050090100410 | 4,1 | 55 | 22 | 1 | 2,47 |
| TA1050090100420 | 4,2 | 55 | 22 | 1 | 2,47 |
| TA1050090100430 | 4,3 | 58 | 24 | 1 | 4,22 |
| TA1050090100440 | 4,4 | 58 | 24 | 1 | 4,22 |
| TA1050090100450 | 4,5 | 58 | 24 | 1 | 2,86 |
| TA1050090100460 | 4,6 | 58 | 24 | 1 | 4,22 |
| TA1050090100470 | 4,7 | 58 | 24 | 1 | 4,22 |
| TA1050090100480 | 4,8 | 62 | 26 | 1 | 4,53 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1050090100490 | 4,9 | 62 | 26 | 1 | 4,53 |
| TA1050090100500 | 5 | 62 | 26 | 1 | 3,35 |
| TA1050090100510 | 5,1 | 62 | 26 | 1 | 4,53 |
| TA1050090100520 | 5,2 | 62 | 26 | 1 | 4,53 |
| TA1050090100530 | 5,3 | 62 | 26 | 1 | 4,53 |
| TA1050090100540 | 5,4 | 66 | 28 | 1 | 6,21 |
| TA1050090100550 | 5,5 | 66 | 28 | 1 | 4,02 |
| TA1050090100560 | 5,6 | 66 | 28 | 1 | 6,57 |
| TA1050090100570 | 5,7 | 66 | 28 | 1 | 6,21 |
| TA1050090100580 | 5,8 | 66 | 28 | 1 | 6,21 |
| TA1050090100590 | 5,9 | 66 | 28 | 1 | 6,21 |
| TA1050090100600 | 6 | 66 | 28 | 1 | 6,39 |
| TA1050090100610 | 6,1 | 70 | 31 | 1 | 6,39 |
| TA1050090100620 | 6,2 | 70 | 31 | 1 | 6,39 |
| TA1050090100630 | 6,3 | 70 | 31 | 1 | 6,57 |
| TA1050090100640 | 6,4 | 70 | 31 | 1 | 6,57 |
| TA1050090100650 | 6,5 | 70 | 31 | 1 | 6,57 |
| TA1050090100660 | 6,6 | 70 | 31 | 1 | 6,57 |
| TA1050090100670 | 6,7 | 70 | 31 | 1 | 5,90 |
| TA1050090100680 | 6,8 | 74 | 34 | 1 | 7,67 |
| TA1050090100690 | 6,9 | 74 | 34 | 1 | 7,67 |
| TA1050090100700 | 7 | 74 | 34 | 1 | 5,90 |
| TA1050090100710 | 7,1 | 74 | 34 | 1 | 9,30 |
| TA1050090100720 | 7,2 | 74 | 34 | 1 | 9,30 |
| TA1050090100730 | 7,3 | 74 | 34 | 1 | 9,30 |
| TA1050090100740 | 7,4 | 74 | 34 | 1 | 9,30 |
| TA1050090100750 | 7,5 | 74 | 34 | 1 | 6,36 |
| TA1050090100760 | 7,6 | 79 | 37 | 1 | 11,30 |
| TA1050090100770 | 7,7 | 79 | 37 | 1 | 11,28 |
| TA1050090100780 | 7,8 | 79 | 37 | 1 | 11,28 |
| TA1050090100790 | 7,9 | 79 | 37 | 1 | 11,28 |
| TA1050090100800 | 8 | 79 | 37 | 1 | 6,88 |
| TA1050090100810 | 8,1 | 79 | 37 | 1 | 11,64 |
| TA1050090100820 | 8,2 | 79 | 37 | 1 | 11,64 |
| TA1050090100830 | 8,3 | 79 | 37 | 1 | 11,64 |
| TA1050090100840 | 8,4 | 79 | 37 | 1 | 11,64 |
| TA1050090100850 | 8,5 | 84 | 37 | 1 | 9,60 |
| TA1050090100860 | 8,6 | 84 | 40 | 1 | 12,05 |
| TA1050090100870 | 8,7 | 84 | 40 | 1 | 12,05 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Punta HSS elicoidale TA1050

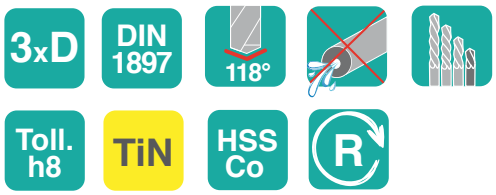



| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1050090100880 | **8,8** | 84 | 40 | 1 | **12,05** |
| TA1050090100890 | **8,9** | 84 | 40 | 1 | **12,05** |
| TA1050090100900 | **9** | 84 | 40 | 1 | **9,60** |
| TA1050090100910 | **9,1** | 84 | 40 | 1 | **15,84** |
| TA1050090100920 | **9,2** | 84 | 40 | 1 | **15,84** |
| TA1050090100930 | **9,3** | 84 | 40 | 1 | **15,84** |
| TA1050090100940 | **9,4** | 84 | 40 | 1 | **15,84** |
| TA1050090100950 | **9,5** | 89 | 40 | 1 | **14,16** |
| TA1050090100960 | **9,6** | 89 | 43 | 1 | **18,95** |
| TA1050090100970 | **9,7** | 89 | 43 | 1 | **18,95** |
| TA1050090100980 | **9,8** | 89 | 43 | 1 | **18,95** |
| TA1050090100990 | **9,9** | 89 | 43 | 1 | **18,95** |
| TA1050090101000 | **10** | 89 | 43 | 1 | **11,56** |
| TA1050090101020 | **10,2** | 89 | 43 | 1 | **18,41** |
| TA1050090101050 | **10,5** | 95 | 43 | 1 | **18,41** |
| TA1050090101100 | **11** | 95 | 47 | 1 | **18,41** |
| TA1050090101150 | **11,5** | 95 | 47 | 1 | **19,16** |
| TA1050090101200 | **12** | 102 | 51 | 1 | **23,30** |
| TA1050090101250 | **12,5** | 102 | 51 | 1 | **23,79** |
| TA1050090101300 | **13** | 102 | 51 | 1 | **23,79** |
| TA1050090101350 | **13,5** | 107 | 54 | 1 | **26,99** |
| TA1050090101400 | **14** | 107 | 54 | 1 | **26,99** |
| TA1050090101425 | **14,25** | 111 | 56 | 1 | **35,28** |
| TA1050090101450 | **14,5** | 111 | 56 | 1 | **35,28** |
| TA1050090101475 | **14,75** | 111 | 56 | 1 | **35,28** |
| TA1050090101500 | **15** | 111 | 56 | 1 | **35,28** |
| TA1050090101525 | **15,25** | 115 | 58 | 1 | **42,51** |
| TA1050090101550 | **15,5** | 115 | 58 | 1 | **42,51** |
| TA1050090101575 | **15,75** | 115 | 58 | 1 | **42,51** |
| TA1050090101600 | **16** | 115 | 58 | 1 | **42,51** |
| TA1050090101625 | **16,25** | 119 | 60 | 1 | **49,21** |
| TA1050090101650 | **16,5** | 119 | 60 | 1 | **49,21** |
| TA1050090101675 | **16,75** | 119 | 60 | 1 | **49,21** |
| TA1050090101700 | **17** | 119 | 60 | 1 | **48,41** |
| TA1050090101725 | **17,25** | 123 | 62 | 1 | **55,08** |
| TA1050090101750 | **17,5** | 123 | 62 | 1 | **55,08** |
| TA1050090101775 | **17,75** | 123 | 62 | 1 | **55,08** |
| TA1050090101800 | **18** | 123 | 62 | 1 | **52,79** |
| TA1050090101825 | **18,25** | 127 | 64 | 1 | **60,02** |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1050090101850 | **18,5** | 127 | 64 | 1 | **60,02** |
| TA1050090101875 | **18,75** | 127 | 64 | 1 | **60,02** |
| TA1050090101900 | **19** | 127 | 64 | 1 | **58,56** |
| TA1050090101925 | **19,25** | 131 | 66 | 1 | **66,72** |
| TA1050090101950 | **19,5** | 131 | 66 | 1 | **66,72** |
| TA1050090101975 | **19,75** | 131 | 66 | 1 | **66,72** |
| TA1050090102000 | **20** | 131 | 66 | 1 | **61,49** |
| TA1050090102050 | **20,5** | 136 | 68 | 1 | **76,40** |
| TA1050090102100 | **21** | 136 | 68 | 1 | **72,54** |
| TA1050090102150 | **21,5** | 141 | 70 | 1 | **76,40** |
| TA1050090102200 | **22** | 141 | 70 | 1 | **77,64** |
| TA1050090102250 | **22,5** | 146 | 76 | 1 | **93,81** |
| TA1050090102300 | **23** | 146 | 76 | 1 | **93,29** |
| TA1050090102350 | **23,5** | 146 | 76 | 1 | **105,55** |
| TA1050090102400 | **24** | 151 | 75 | 1 | **85,54** |
| TA1050090102450 | **24,5** | 151 | 75 | 1 | **112,37** |
| TA1050090102500 | **25** | 151 | 75 | 1 | **101,20** |
| TA1050090102600 | **26** | 156 | 78 | 1 | **118,97** |
| TA1050090102700 | **27** | 162 | 81 | 1 | **140,29** |
| TA1050090102800 | **28** | 162 | 81 | 1 | **140,29** |
| TA1050090102900 | **29** | 168 | 84 | 1 | **153,08** |
| TA1050090103000 | **30** | 168 | 84 | 1 | **153,06** |
| TA1050090103100 | **31** | 174 | 87 | 1 | **204,09** |

## Punta HSS-Co elicoidale TA1052 autocentrante, rivestita TiN







| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1052090100100 | 1 | 26 | 6 | 1 | 6,41 |
| TA1052090100110 | 1,1 | 28 | 7 | 1 | 6,41 |
| TA1052090100120 | 1,2 | 30 | 8 | 1 | 6,64 |
| TA1052090100130 | 1,3 | 30 | 8 | 1 | 6,95 |
| TA1052090100140 | 1,4 | 32 | 9 | 1 | 6,31 |
| TA1052090100150 | 1,5 | 32 | 9 | 1 | 6,05 |
| TA1052090100160 | 1,6 | 34 | 10 | 1 | 6,23 |
| TA1052090100170 | 1,7 | 34 | 10 | 1 | 6,31 |
| TA1052090100180 | 1,8 | 36 | 11 | 1 | 6,23 |
| TA1052090100190 | 1,9 | 36 | 11 | 1 | 6,23 |
| TA1052090100200 | 2 | 38 | 12 | 1 | 5,28 |
| TA1052090100210 | 2,1 | 38 | 12 | 1 | 6,41 |
| TA1052090100220 | 2,2 | 40 | 13 | 1 | 6,41 |
| TA1052090100230 | 2,3 | 40 | 13 | 1 | 5,41 |
| TA1052090100238 | 2,38 | 43 | 14 | 1 | 6,00 |
| TA1052090100240 | 2,4 | 43 | 14 | 1 | 6,49 |
| TA1052090100250 | 2,5 | 43 | 14 | 1 | 5,74 |
| TA1052090100260 | 2,6 | 43 | 14 | 1 | 6,72 |
| TA1052090100270 | 2,7 | 46 | 16 | 1 | 7,13 |
| TA1052090100278 | 2,78 | 46 | 16 | 1 | 6,90 |
| TA1052090100280 | 2,8 | 46 | 16 | 1 | 6,64 |
| TA1052090100290 | 2,9 | 46 | 16 | 1 | 7,06 |
| TA1052090100300 | 3 | 46 | 16 | 1 | 6,00 |
| TA1052090100310 | 3,1 | 49 | 18 | 1 | 6,31 |
| TA1052090100317 | 3,17 | 49 | 18 | 1 | 6,23 |
| TA1052090100320 | 3,2 | 49 | 18 | 1 | 6,05 |
| TA1052090100330 | 3,3 | 49 | 18 | 1 | 6,05 |
| TA1052090100340 | 3,4 | 52 | 20 | 1 | 6,95 |
| TA1052090100350 | 3,5 | 52 | 20 | 1 | 6,05 |
| TA1052090100357 | 3,57 | 52 | 20 | 1 | 6,82 |
| TA1052090100360 | 3,6 | 52 | 20 | 1 | 7,49 |
| TA1052090100370 | 3,7 | 52 | 20 | 1 | 6,90 |
| TA1052090100380 | 3,8 | 55 | 22 | 1 | 7,31 |
| TA1052090100390 | 3,9 | 55 | 22 | 1 | 8,39 |
| TA1052090100397 | 3,97 | 55 | 22 | 1 | 7,49 |
| TA1052090100400 | 4 | 55 | 22 | 1 | 6,82 |
| TA1052090100410 | 4,1 | 55 | 22 | 1 | 7,85 |
| TA1052090100420 | 4,2 | 55 | 22 | 1 | 6,82 |
| TA1052090100430 | 4,3 | 58 | 24 | 1 | 7,80 |

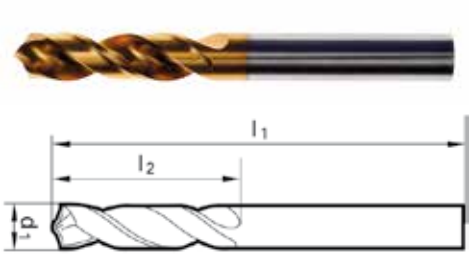
| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1052090100437 | 4,37 | 58 | 24 | 1 | 8,11 |
| TA1052090100440 | 4,4 | 58 | 24 | 1 | 8,39 |
| TA1052090100450 | 4,5 | 58 | 24 | 1 | 7,80 |
| TA1052090100460 | 4,6 | 58 | 24 | 1 | 7,85 |
| TA1052090100470 | 4,7 | 58 | 24 | 1 | 8,39 |
| TA1052090100476 | 4,76 | 62 | 26 | 1 | 8,70 |
| TA1052090100480 | 4,8 | 62 | 26 | 1 | 8,86 |
| TA1052090100490 | 4,9 | 62 | 26 | 1 | 8,94 |
| TA1052090100500 | 5 | 62 | 26 | 1 | 7,49 |
| TA1052090100510 | 5,1 | 62 | 26 | 1 | 8,29 |
| TA1052090100516 | 5,16 | 62 | 26 | 1 | 8,63 |
| TA1052090100520 | 5,2 | 62 | 26 | 1 | 8,94 |
| TA1052090100530 | 5,3 | 62 | 26 | 1 | 9,30 |
| TA1052090100540 | 5,4 | 66 | 28 | 1 | 9,94 |
| TA1052090100550 | 5.50 | 66 | 28 | 1 | 8,45 |
| TA1052090100556 | 5,56 | 66 | 28 | 1 | 9,30 |
| TA1052090100560 | 5,6 | 66 | 28 | 1 | 10,20 |
| TA1052090100570 | 5,7 | 66 | 28 | 1 | 10,84 |
| TA1052090100580 | 5,8 | 66 | 28 | 1 | 10,33 |
| TA1052090100590 | 5,9 | 66 | 28 | 1 | 10,92 |
| TA1052090100595 | 5,95 | 66 | 28 | 1 | 10,02 |
| TA1052090100600 | 6 | 66 | 28 | 1 | 9,12 |
| TA1052090100610 | 6,1 | 70 | 31 | 1 | 10,74 |
| TA1052090100620 | 6,2 | 70 | 31 | 1 | 10,74 |
| TA1052090100630 | 6,3 | 70 | 31 | 1 | 11,23 |
| TA1052090100635 | 6,35 | 70 | 31 | 1 | 11,23 |
| TA1052090100640 | 6,4 | 70 | 31 | 1 | 11,23 |
| TA1052090100650 | 6,5 | 70 | 31 | 1 | 10,74 |
| TA1052090100660 | 6,6 | 70 | 31 | 1 | 11,82 |
| TA1052090100670 | 6,7 | 70 | 31 | 1 | 12,15 |
| TA1052090100680 | 6,8 | 74 | 34 | 1 | 13,06 |
| TA1052090100690 | 6,9 | 74 | 34 | 1 | 12,90 |
| TA1052090100700 | 7 | 74 | 34 | 1 | 12,00 |
| TA1052090100710 | 7,1 | 74 | 34 | 1 | 14,45 |
| TA1052090100714 | 7,14 | 74 | 34 | 1 | 14,70 |
| TA1052090100720 | 7,2 | 74 | 34 | 1 | 14,86 |
| TA1052090100730 | 7,3 | 74 | 34 | 1 | 14,86 |
| TA1052090100740 | 7,4 | 74 | 34 | 1 | 15,01 |
| TA1052090100750 | 7,5 | 74 | 34 | 1 | 12,46 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS-Co elicoidale TA1052 autocentrante, rivestita TiN

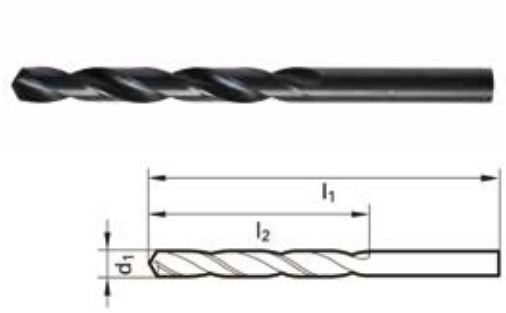



| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1052090100760 | **7,6** | 79 | 37 | 1 | **15,91** |
| TA1052090100770 | **7,7** | 79 | 37 | 1 | **16,07** |
| TA1052090100780 | **7,8** | 79 | 37 | 1 | **16,07** |
| TA1052090100790 | **7,9** | 79 | 37 | 1 | **15,91** |
| TA1052090100794 | **7,94** | 79 | 37 | 1 | **15,35** |
| TA1052090100800 | **8** | 79 | 37 | 1 | **14,86** |
| TA1052090100810 | **8,1** | 79 | 37 | 1 | **18,95** |
| TA1052090100820 | **8,2** | 79 | 37 | 1 | **19,85** |
| TA1052090100830 | **8,3** | 79 | 37 | 1 | **20,03** |
| TA1052090100840 | **8,4** | 79 | 37 | 1 | **20,03** |
| TA1052090100850 | **8,5** | 79 | 37 | 1 | **17,33** |
| TA1052090100873 | **8,73** | 84 | 40 | 1 | **19,54** |
| TA1052090100880 | **8,8** | 84 | 40 | 1 | **21,84** |
| TA1052090100900 | **9** | 84 | 40 | 1 | **17,74** |
| TA1052090100930 | **9,3** | 84 | 40 | 1 | **20,03** |
| TA1052090100950 | **9,5** | 84 | 40 | 1 | **19,44** |
| TA1052090100980 | **9,8** | 89 | 43 | 1 | **23,23** |
| TA1052090101000 | **10** | 89 | 43 | 1 | **19,13** |
| TA1052090101020 | **10,2** | 89 | 43 | 1 | **24,28** |
| TA1052090101050 | **10,5** | 89 | 43 | 1 | **23,07** |
| TA1052090101100 | **11** | 95 | 47 | 1 | **25,54** |
| TA1052090101111 | **11,11** | 95 | 47 | 1 | **27,48** |
| TA1052090101150 | **11,5** | 95 | 47 | 1 | **29,46** |
| TA1052090101200 | **12** | 102 | 51 | 1 | **28,79** |
| TA1052090101250 | **12,5** | 102 | 51 | 1 | **31,67** |
| TA1052090101300 | **13** | 102 | 51 | 1 | **31,67** |
| TA1052090101350 | **13,5** | 107 | 54 | 1 | **33,58** |
| TA1052090101400 | **14** | 107 | 54 | 1 | **42,02** |

## Punta HSS elicoidale TA1055, nera, serie corta



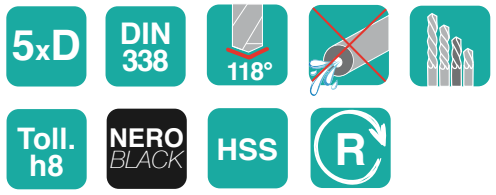

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1055090100300 | 0,3 | 19 | 3 | 1 | 3,94 |
| TA1055090100400 | 0,4 | 20 | 5 | 1 | 3,19 |
| TA1055090100500 | 0,5 | 22 | 6 | 1 | 2,60 |
| TA1055090100600 | 0,6 | 24 | 7 | 1 | 2,50 |
| TA1055090100700 | 0,7 | 28 | 9 | 1 | 2,34 |
| TA1055090100800 | 0,8 | 30 | 10 | 1 | 2,24 |
| TA1055090100900 | 0,9 | 32 | 11 | 1 | 2,11 |
| TA1055090101000 | 1 | 34 | 12 | 1 | 2,09 |
| TA1055090101100 | 1,1 | 36 | 14 | 1 | 2,06 |
| TA1055090101200 | 1,2 | 38 | 16 | 1 | 2,09 |
| TA1055090101250 | 1,25 | 38 | 16 | 1 | 2,32 |
| TA1055090101300 | 1,3 | 38 | 16 | 1 | 1,98 |
| TA1055090101400 | 1,4 | 40 | 18 | 1 | 1,93 |
| TA1055090101500 | 1,5 | 40 | 18 | 1 | 1,75 |
| TA1055090101600 | 1,6 | 43 | 20 | 1 | 1,67 |
| TA1055090101700 | 1,7 | 43 | 20 | 1 | 1,70 |
| TA1055090101750 | 1,75 | 46 | 22 | 1 | 1,93 |
| TA1055090101800 | 1,8 | 46 | 22 | 1 | 1,47 |
| TA1055090101900 | 1,9 | 46 | 22 | 1 | 1,49 |
| TA1055090102000 | 2 | 49 | 24 | 1 | 1,29 |
| TA1055090102100 | 2,1 | 49 | 24 | 1 | 1,47 |
| TA1055090102200 | 2,2 | 53 | 27 | 1 | 1,55 |
| TA1055090102250 | 2,25 | 53 | 27 | 1 | 1,83 |
| TA1055090102300 | 2,3 | 53 | 27 | 1 | 1,55 |
| TA1055090102400 | 2,4 | 57 | 30 | 1 | 1,57 |
| TA1055090102500 | 2,5 | 57 | 30 | 1 | 1,57 |
| TA1055090102600 | 2,6 | 57 | 30 | 1 | 1,67 |
| TA1055090102700 | 2,7 | 61 | 33 | 1 | 1,67 |
| TA1055090102750 | 2,75 | 61 | 33 | 1 | 2,11 |
| TA1055090102800 | 2,8 | 61 | 33 | 1 | 1,70 |
| TA1055090102900 | 2,9 | 61 | 33 | 1 | 1,70 |
| TA1055090103000 | 3 | 61 | 33 | 1 | 1,42 |
| TA1055090103100 | 3,1 | 65 | 36 | 1 | 1,83 |
| TA1055090103200 | 3,2 | 65 | 36 | 1 | 1,83 |
| TA1055090103250 | 3,25 | 65 | 36 | 1 | 1,98 |
| TA1055090103300 | 3,3 | 65 | 36 | 1 | 1,83 |
| TA1055090103400 | 3,4 | 70 | 39 | 1 | 1,83 |
| TA1055090103500 | 3,5 | 70 | 39 | 1 | 1,57 |
| TA1055090103600 | 3,6 | 70 | 39 | 1 | 1,93 |

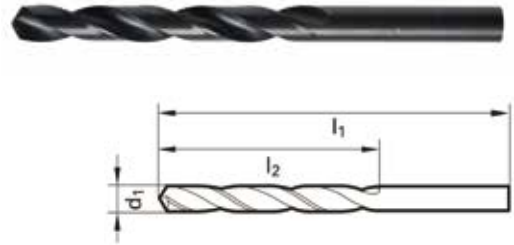
| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1055090103700 | 3,7 | 70 | 39 | 1 | 2,06 |
| TA1055090103750 | 3,75 | 70 | 39 | 1 | 2,34 |
| TA1055090103800 | 3,8 | 75 | 43 | 1 | 2,09 |
| TA1055090103900 | 3,9 | 75 | 43 | 1 | 2,14 |
| TA1055090104000 | 4 | 75 | 43 | 1 | 1,67 |
| TA1055090104100 | 4,1 | 75 | 43 | 1 | 2,32 |
| TA1055090104200 | 4,2 | 75 | 43 | 1 | 2,06 |
| TA1055090104250 | 4,25 | 75 | 43 | 1 | 2,73 |
| TA1055090104300 | 4,3 | 80 | 47 | 1 | 2,34 |
| TA1055090104400 | 4,4 | 80 | 47 | 1 | 2,34 |
| TA1055090104500 | 4,5 | 80 | 47 | 1 | 2,11 |
| TA1055090104600 | 4,6 | 80 | 47 | 1 | 2,34 |
| TA1055090104700 | 4.70 | 80 | 47 | 1 | 2,45 |
| TA1055090104750 | 4,75 | 86 | 52 | 1 | 3,40 |
| TA1055090104800 | 4,8 | 86 | 52 | 1 | 2,45 |
| TA1055090104900 | 4,9 | 86 | 52 | 1 | 2,50 |
| TA1055090105000 | 5 | 86 | 52 | 1 | 2,09 |
| TA1055090105100 | 5,1 | 86 | 52 | 1 | 2,60 |
| TA1055090105200 | 5,2 | 86 | 52 | 1 | 2,60 |
| TA1055090105250 | 5,25 | 86 | 52 | 1 | 4,09 |
| TA1055090105300 | 5,3 | 86 | 52 | 1 | 2,60 |
| TA1055090105400 | 5,4 | 93 | 57 | 1 | 2,99 |
| TA1055090105500 | 5,5 | 93 | 57 | 1 | 2,88 |
| TA1055090105600 | 5,6 | 93 | 57 | 1 | 3,06 |
| TA1055090105700 | 5,7 | 93 | 57 | 1 | 3,14 |
| TA1055090105750 | 5,75 | 93 | 57 | 1 | 5,28 |
| TA1055090105800 | 5,8 | 93 | 57 | 1 | 3,19 |
| TA1055090105900 | 5,9 | 93 | 57 | 1 | 3,24 |
| TA1055090106000 | 6 | 93 | 57 | 1 | 2,88 |
| TA1055090106100 | 6,1 | 101 | 63 | 1 | 3,53 |
| TA1055090106200 | 6,2 | 101 | 63 | 1 | 3,53 |
| TA1055090106250 | 6,25 | 101 | 63 | 1 | 5,74 |
| TA1055090106300 | 6,3 | 101 | 63 | 1 | 3,53 |
| TA1055090106400 | 6,4 | 101 | 63 | 1 | 3,71 |
| TA1055090106500 | 6,5 | 101 | 63 | 1 | 3,53 |
| TA1055090106600 | 6,6 | 101 | 63 | 1 | 3,94 |
| TA1055090106700 | 6,7 | 101 | 63 | 1 | 4,07 |
| TA1055090106750 | 6,75 | 109 | 69 | 1 | 4,76 |
| TA1055090106800 | 6,8 | 109 | 69 | 1 | 4,71 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS elicoidale TA1055, nera, serie corta

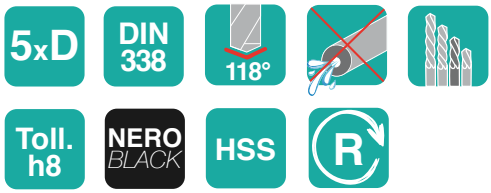


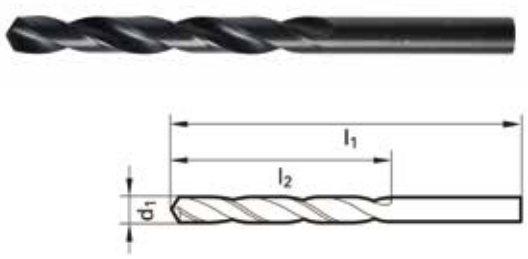




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1055090106900 | 6,9 | 109 | 69 | 1 | 4,71 |
| TA1055090107000 | 7 | 109 | 69 | 1 | 4,25 |
| TA1055090107100 | 7,1 | 109 | 69 | 1 | 4,76 |
| TA1055090107200 | 7,2 | 109 | 69 | 1 | 4,97 |
| TA1055090107250 | 7,25 | 109 | 69 | 1 | 7,73 |
| TA1055090107300 | 7,3 | 109 | 69 | 1 | 4,97 |
| TA1055090107400 | 7,4 | 109 | 69 | 1 | 5,15 |
| TA1055090107500 | 7,5 | 109 | 69 | 1 | 4,71 |
| TA1055090107600 | 7,6 | 117 | 75 | 1 | 5,46 |
| TA1055090107700 | 7,7 | 117 | 75 | 1 | 5,46 |
| TA1055090107750 | 7,75 | 117 | 75 | 1 | 8,81 |
| TA1055090107800 | 7,8 | 117 | 75 | 1 | 5,51 |
| TA1055090107900 | 7,9 | 117 | 75 | 1 | 5,61 |
| TA1055090108000 | 8 | 117 | 75 | 1 | 4,71 |
| TA1055090108100 | 8,1 | 117 | 75 | 1 | 5,74 |
| TA1055090108200 | 8,2 | 117 | 75 | 1 | 5,92 |
| TA1055090108250 | 8,25 | 117 | 75 | 1 | 7,21 |
| TA1055090108300 | 8,3 | 117 | 75 | 1 | 6,39 |
| TA1055090108400 | 8,4 | 117 | 75 | 1 | 6,39 |
| TA1055090108500 | 8,5 | 117 | 75 | 1 | 6,15 |
| TA1055090108600 | 8,6 | 125 | 81 | 1 | 7,00 |
| TA1055090108700 | 8,7 | 125 | 81 | 1 | 7,00 |
| TA1055090108750 | 8,75 | 125 | 81 | 1 | 11,97 |
| TA1055090108800 | 8,8 | 125 | 81 | 1 | 7,24 |
| TA1055090108900 | 8,9 | 125 | 81 | 1 | 7,57 |
| TA1055090109000 | 9 | 125 | 81 | 1 | 6,67 |
| TA1055090109100 | 9.10 | 125 | 81 | 1 | 7,52 |
| TA1055090109200 | 9,2 | 125 | 81 | 1 | 7,57 |
| TA1055090109250 | 9,25 | 125 | 81 | 1 | 9,99 |
| TA1055090109300 | 9,3 | 125 | 81 | 1 | 7,62 |
| TA1055090109400 | 9,4 | 125 | 81 | 1 | 7,62 |
| TA1055090109500 | 9,5 | 125 | 81 | 1 | 7,60 |
| TA1055090109600 | 9,6 | 133 | 87 | 1 | 8,42 |
| TA1055090109700 | 9,7 | 133 | 87 | 1 | 8,42 |
| TA1055090109750 | 9,75 | 133 | 87 | 1 | 11,00 |
| TA1055090109800 | 9,8 | 133 | 87 | 1 | 9,42 |
| TA1055090109900 | 9,9 | 133 | 87 | 1 | 9,42 |
| TA1055090110000 | 10 | 133 | 87 | 1 | 8,01 |
| TA1055090110100 | 10,1 | 133 | 87 | 1 | 9,99 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1055090110200 | 10,2 | 133 | 87 | 1 | 10,20 |
| TA1055090110250 | 10,25 | 133 | 87 | 1 | 13,80 |
| TA1055090110300 | 10,3 | 133 | 87 | 1 | 12,36 |
| TA1055090110400 | 10,4 | 133 | 87 | 1 | 12,36 |
| TA1055090110500 | 10,5 | 133 | 87 | 1 | 10,38 |
| TA1055090110600 | 10,6 | 133 | 87 | 1 | 13,00 |
| TA1055090110700 | 10,7 | 142 | 94 | 1 | 14,99 |
| TA1055090110750 | 10,75 | 142 | 94 | 1 | 16,56 |
| TA1055090110800 | 10,8 | 142 | 94 | 1 | 14,57 |
| TA1055090110900 | 10,9 | 142 | 94 | 1 | 15,60 |
| TA1055090111000 | 11 | 142 | 94 | 1 | 11,97 |
| TA1055090111100 | 11,1 | 142 | 94 | 1 | 15,60 |
| TA1055090111200 | 11,2 | 142 | 94 | 1 | 14,99 |
| TA1055090111250 | 11,25 | 142 | 94 | 1 | 17,79 |
| TA1055090111300 | 11,3 | 142 | 94 | 1 | 16,02 |
| TA1055090111400 | 11,4 | 142 | 94 | 1 | 16,02 |
| TA1055090111500 | 11,5 | 142 | 94 | 1 | 13,00 |
| TA1055090111600 | 11,6 | 142 | 94 | 1 | 16,02 |
| TA1055090111700 | 11,7 | 142 | 94 | 1 | 16,56 |
| TA1055090111800 | 11,8 | 142 | 94 | 1 | 16,76 |
| TA1055090111900 | 11,9 | 151 | 101 | 1 | 18,39 |
| TA1055090112000 | 12 | 151 | 101 | 1 | 14,57 |
| TA1055090112100 | 12,1 | 151 | 101 | 1 | 19,57 |
| TA1055090112200 | 12,2 | 151 | 101 | 1 | 19,57 |
| TA1055090112300 | 12,3 | 151 | 101 | 1 | 17,97 |
| TA1055090112400 | 12,4 | 151 | 101 | 1 | 20,78 |
| TA1055090112500 | 12,5 | 151 | 101 | 1 | 16,40 |
| TA1055090112600 | 12,6 | 151 | 101 | 1 | 21,60 |
| TA1055090112700 | 12,7 | 151 | 101 | 1 | 18,21 |
| TA1055090112800 | 12,8 | 151 | 101 | 1 | 21,99 |
| TA1055090112900 | 12,9 | 151 | 101 | 1 | 24,39 |
| TA1055090113000 | 13 | 151 | 101 | 1 | 17,97 |
| TA1055090113250 | 13,25 | 160 | 108 | 1 | 29,95 |
| TA1055090113500 | 13,5 | 160 | 108 | 1 | 20,78 |
| TA1055090113750 | 13,75 | 160 | 108 | 1 | 33,96 |
| TA1055090114000 | 14 | 160 | 108 | 1 | 23,18 |
| TA1055090114250 | 14,25 | 169 | 114 | 1 | 37,54 |
| TA1055090114500 | 14,5 | 169 | 114 | 1 | 24,80 |
| TA1055090114750 | 14,75 | 169 | 114 | 1 | 38,34 |

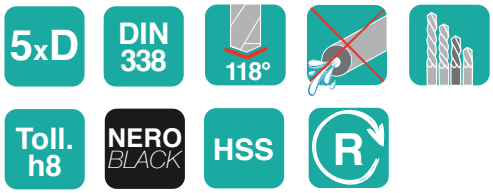
## Punta HSS elicoidale TA1055, nera, serie corta




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1055090115000 | **15** | 169 | 114 | 1 | **26,78** |
| TA1055090115250 | **15.25** | 178 | 120 | 1 | **49,96** |
| TA1055090115500 | **15,5** | 178 | 120 | 1 | **29,17** |
| TA1055090115750 | **15,75** | 178 | 120 | 1 | **52,76** |
| TA1055090116000 | **16** | 178 | 120 | 1 | **31,60** |
| TA1055090116250 | **16,25** | 184 | 125 | 1 | **65,95** |
| TA1055090116500 | **16,5** | 184 | 125 | 1 | **35,97** |
| TA1055090116750 | **16,75** | 184 | 125 | 1 | **72,33** |
| TA1055090117000 | **17** | 184 | 125 | 1 | **38,01** |
| TA1055090117250 | **17,25** | 191 | 130 | 1 | **75,96** |
| TA1055090117500 | **17,5** | 191 | 130 | 1 | **41,56** |
| TA1055090117750 | **17,75** | 191 | 130 | 1 | **83,15** |
| TA1055090118000 | **18** | 191 | 130 | 1 | **44,34** |
| TA1055090118250 | **18,25** | 191 | 130 | 1 | **90,31** |
| TA1055090118500 | **18,5** | 198 | 135 | 1 | **48,38** |
| TA1055090118750 | **18,75** | 198 | 135 | 1 | **95,89** |
| TA1055090119000 | **19** | 198 | 135 | 1 | **51,94** |
| TA1055090119250 | **19,25** | 198 | 135 | 1 | **110,31** |
| TA1055090119500 | **19,5** | 205 | 140 | 1 | **55,13** |
| TA1055090119750 | **19,75** | 205 | 140 | 1 | **111,94** |
| TA1055090120000 | **20** | 205 | 140 | 1 | **60,36** |

## Kit Punta HSS elicoidale TA1055



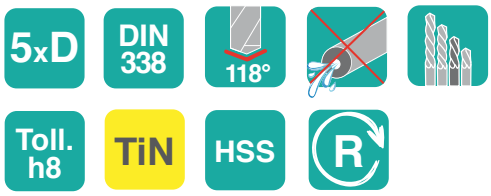


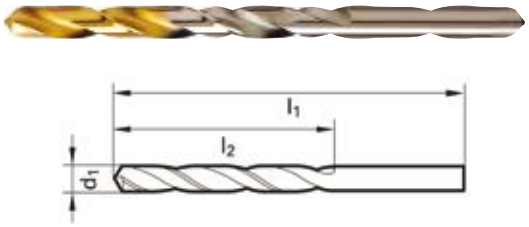

| Codice | Q.tà punte | Dimensioni | Cassetta | | € / cad. |
|---|---|---|---|---|---|
| TA10550909KIT01 | **19** | Ø1-10 x 0,5mm | metallica | 1 | **77,01** |
| TA10550909KIT02 | **25** | Ø1-13 x 0,5mm | metallica | 1 | **154,00** |
| TA10550909KIT04 | **41** | Ø6-10 x 0,1mm | metallica | 1 | **327,24** |
| TA10550909KIT03 | **50** | Ø1-5,9 x 0,1mm | metallica | 1 | **231,01** |
| TA10550909KIT05 | **91** | Ø1-10 x 0,1mm | plastica | 1 | **461,99** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS elicoidale di alta qualità TA1070, lucida, rivestita TiN in testa

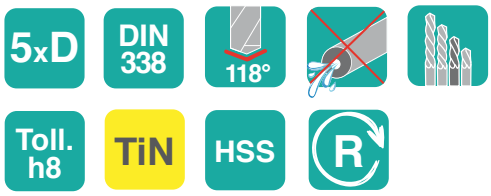


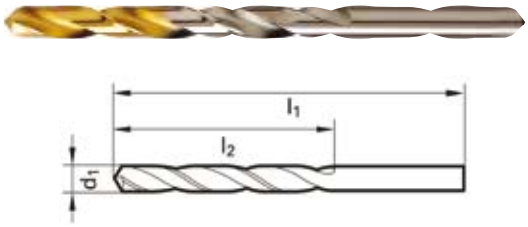




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1070070900100 | 1 | 34 | 12 | 1 | 1,98 |
| TA1070070900110 | 1,1 | 36 | 14 | 1 | 2,05 |
| TA1070070900120 | 1,2 | 38 | 16 | 1 | 2,05 |
| TA1070070900130 | 1,3 | 38 | 16 | 1 | 2,08 |
| TA1070070900140 | 1,4 | 40 | 18 | 1 | 2,08 |
| TA1070070900150 | 1,5 | 40 | 18 | 1 | 1,64 |
| TA1070070900160 | 1,6 | 43 | 20 | 1 | 1,79 |
| TA1070070900170 | 1,7 | 43 | 20 | 1 | 1,79 |
| TA1070070900180 | 1,8 | 46 | 22 | 1 | 1,69 |
| TA1070070900190 | 1,9 | 46 | 22 | 1 | 1,69 |
| TA1070070900200 | 2 | 49 | 24 | 1 | 1,53 |
| TA1070070900210 | 2,1 | 49 | 24 | 1 | 1,72 |
| TA1070070900220 | 2,2 | 53 | 27 | 1 | 1,72 |
| TA1070070900230 | 2,3 | 53 | 27 | 1 | 1,85 |
| TA1070070900240 | 2,4 | 57 | 30 | 1 | 1,85 |
| TA1070070900250 | 2,5 | 57 | 30 | 1 | 1,72 |
| TA1070070900260 | 2,6 | 57 | 30 | 1 | 1,95 |
| TA1070070900270 | 2,7 | 61 | 33 | 1 | 1,95 |
| TA1070070900280 | 2,8 | 61 | 33 | 1 | 1,95 |
| TA1070070900290 | 2,9 | 61 | 33 | 1 | 1,95 |
| TA1070070900300 | 3 | 61 | 33 | 1 | 1,72 |
| TA1070070900310 | 3,1 | 65 | 36 | 1 | 2,34 |
| TA1070070900320 | 3,2 | 65 | 36 | 1 | 2,34 |
| TA1070070900330 | 3,3 | 65 | 36 | 1 | 2,34 |
| TA1070070900340 | 3,4 | 70 | 39 | 1 | 2,34 |
| TA1070070900350 | 3,5 | 70 | 39 | 1 | 2,08 |
| TA1070070900360 | 3,6 | 70 | 39 | 1 | 2,57 |
| TA1070070900370 | 3,7 | 70 | 39 | 1 | 2,57 |
| TA1070070900380 | 3,8 | 75 | 43 | 1 | 2,70 |
| TA1070070900390 | 3,9 | 75 | 43 | 1 | 2,70 |
| TA1070070900400 | 4 | 75 | 43 | 1 | 2,34 |
| TA1070070900410 | 4,1 | 75 | 43 | 1 | 2,83 |
| TA1070070900420 | 4,2 | 75 | 43 | 1 | 2,83 |
| TA1070070900430 | 4,3 | 80 | 47 | 1 | 3,02 |
| TA1070070900440 | 4,4 | 80 | 47 | 1 | 3,07 |
| TA1070070900450 | 4,5 | 80 | 47 | 1 | 2,68 |
| TA1070070900460 | 4,6 | 80 | 47 | 1 | 3,15 |
| TA1070070900470 | 4,7 | 80 | 47 | 1 | 3,15 |
| TA1070070900480 | 4,8 | 86 | 52 | 1 | 3,15 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1070070900490 | 4,9 | 86 | 52 | 1 | 3,15 |
| TA1070070900500 | 5 | 86 | 52 | 1 | 2,94 |
| TA1070070900510 | 5,1 | 86 | 52 | 1 | 4,11 |
| TA1070070900520 | 5,2 | 86 | 52 | 1 | 4,11 |
| TA1070070900530 | 5,3 | 86 | 52 | 1 | 4,11 |
| TA1070070900540 | 5,4 | 93 | 57 | 1 | 4,11 |
| TA1070070900550 | 5,5 | 93 | 57 | 1 | 3,82 |
| TA1070070900560 | 5,6 | 93 | 57 | 1 | 4,26 |
| TA1070070900570 | 5,7 | 93 | 57 | 1 | 4,26 |
| TA1070070900580 | 5,8 | 93 | 57 | 1 | 4,26 |
| TA1070070900590 | 5,9 | 93 | 57 | 1 | 4,26 |
| TA1070070900600 | 6 | 93 | 57 | 1 | 3,82 |
| TA1070070900610 | 6,1 | 101 | 63 | 1 | 5,02 |
| TA1070070900630 | 6.30 | 101 | 63 | 1 | 5,02 |
| TA1070070900640 | 6,4 | 101 | 63 | 1 | 5,02 |
| TA1070070900650 | 6,5 | 101 | 63 | 1 | 4,65 |
| TA1070070900660 | 6,6 | 101 | 63 | 1 | 5,75 |
| TA1070070900670 | 6,7 | 101 | 63 | 1 | 5,75 |
| TA1070070900680 | 6,8 | 109 | 69 | 1 | 5,75 |
| TA1070070900690 | 6,9 | 109 | 69 | 1 | 5,75 |
| TA1070070900700 | 7 | 109 | 69 | 1 | 5,54 |
| TA1070070900710 | 7,1 | 109 | 69 | 1 | 6,55 |
| TA1070070900720 | 7,2 | 109 | 69 | 1 | 6,55 |
| TA1070070900730 | 7,3 | 109 | 69 | 1 | 6,63 |
| TA1070070900740 | 7,4 | 109 | 69 | 1 | 6,63 |
| TA1070070900750 | 7,5 | 109 | 69 | 1 | 5,82 |
| TA1070070900760 | 7,6 | 117 | 75 | 1 | 7,36 |
| TA1070070900770 | 7,7 | 117 | 75 | 1 | 7,36 |
| TA1070070900780 | 7,8 | 117 | 75 | 1 | 7,36 |
| TA1070070900790 | 7,9 | 117 | 75 | 1 | 7,36 |
| TA1070070900800 | 8 | 117 | 75 | 1 | 6,53 |
| TA1070070900810 | 8,1 | 117 | 75 | 1 | 7,88 |
| TA1070070900820 | 8,2 | 117 | 75 | 1 | 7,88 |
| TA1070070900830 | 8,3 | 117 | 75 | 1 | 7,88 |
| TA1070070900840 | 8,4 | 117 | 75 | 1 | 7,88 |
| TA1070070900850 | 8,5 | 117 | 75 | 1 | 7,07 |
| TA1070070900860 | 8,6 | 125 | 81 | 1 | 9,57 |
| TA1070070900870 | 8,7 | 125 | 81 | 1 | 9,57 |
| TA1070070900880 | 8,8 | 125 | 81 | 1 | 9,57 |

## Punta HSS elicoidale di alta qualità TA1070, lucida, rivestita TiN in testa

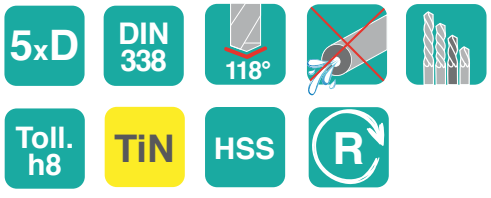



| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1070070900890 | **8,9** | 125 | 81 | 1 | **9,57** |
| TA1070070900900 | **9** | 125 | 81 | 1 | **8,79** |
| TA1070070900910 | **9,1** | 125 | 81 | 1 | **10,61** |
| TA1070070900920 | **9,2** | 125 | 81 | 1 | **10,61** |
| TA1070070900930 | **9,3** | 125 | 81 | 1 | **10,61** |
| TA1070070900940 | **9,4** | 125 | 81 | 1 | **10,61** |
| TA1070070900950 | **9,5** | 125 | 81 | 1 | **9,65** |
| TA1070070900960 | **9,6** | 133 | 87 | 1 | **11,54** |
| TA1070070900970 | **9,7** | 133 | 87 | 1 | **11,54** |
| TA1070070900980 | **9,8** | 133 | 87 | 1 | **11,54** |
| TA1070070900990 | **9,9** | 133 | 87 | 1 | **11,54** |
| TA1070070901000 | **10** | 133 | 87 | 1 | **10,35** |
| TA1070070901010 | **10,1** | 133 | 87 | 1 | **14,14** |
| TA1070070901020 | **10,2** | 133 | 87 | 1 | **14,14** |
| TA1070070901030 | **10,3** | 133 | 87 | 1 | **15,31** |
| TA1070070901040 | **10,4** | 133 | 87 | 1 | **15,31** |
| TA1070070901050 | **10,5** | 133 | 87 | 1 | **12,97** |
| TA1070070901060 | **10,6** | 133 | 87 | 1 | **16,35** |
| TA1070070901070 | **10,7** | 142 | 94 | 1 | **16,35** |
| TA1070070901080 | **10,8** | 142 | 94 | 1 | **17,68** |
| TA1070070901090 | **10,9** | 142 | 94 | 1 | **17,68** |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1070070901100 | **11** | 142 | 94 | 1 | **15,03** |
| TA1070070901110 | **11,1** | 142 | 94 | 1 | **18,17** |
| TA1070070901120 | **11,2** | 142 | 94 | 1 | **18,17** |
| TA1070070901130 | **11,3** | 142 | 94 | 1 | **18,17** |
| TA1070070901140 | **11,4** | 142 | 94 | 1 | **18,17** |
| TA1070070901160 | **11,6** | 142 | 94 | 1 | **19,86** |
| TA1070070901170 | **11,7** | 142 | 94 | 1 | **19,86** |
| TA1070070901180 | **11,8** | 142 | 94 | 1 | **19,86** |
| TA1070070901190 | **11,9** | 151 | 101 | 1 | **19,86** |
| TA1070070901200 | **12** | 151 | 101 | 1 | **17,45** |
| TA1070070901210 | **12,1** | 151 | 101 | 1 | **21,79** |
| TA1070070901220 | **12,2** | 151 | 101 | 1 | **21,79** |
| TA1070070901230 | **12,3** | 151 | 101 | 1 | **21,79** |
| TA1070070901240 | **12,4** | 151 | 101 | 1 | **21,79** |
| TA1070070901250 | **12,5** | 151 | 101 | 1 | **18,77** |
| TA1070070901260 | **12,6** | 151 | 101 | 1 | **22,85** |
| TA1070070901270 | **12,7** | 151 | 101 | 1 | **22,85** |
| TA1070070901280 | **12,8** | 151 | 101 | 1 | **22,85** |
| TA1070070901290 | **12,9** | 151 | 101 | 1 | **22,85** |
| TA1070070901300 | **13** | 151 | 101 | 1 | **19,81** |

## Kit Punta HSS elicoidale di alta qualità TA1070, lucida, rivestita TiN in testa





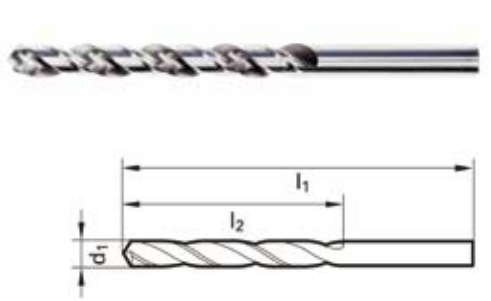

| Codice | Q.tà punte | Dimensioni | Cassetta | | € / cad. |
|---|---|---|---|---|---|
| TA10700709KIT01 | **19** | Ø1-10 x 0,5mm | metallica | 1 | **110,47** |
| TA10700709KIT02 | **25** | Ø1-13 x 0,5mm | metallica | 1 | **212,70** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS-Co elicoidale TA1057, lucida, affilatura autocentrante, specifica per acciaio inox



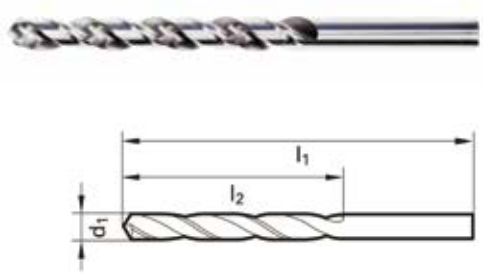




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1057090100100 | 1 | 34 | 12 | 1 | 2,21 |
| TA1057090100110 | 1,1 | 36 | 14 | 1 | 2,21 |
| TA1057090100120 | 1,2 | 38 | 16 | 1 | 2,21 |
| TA1057090100130 | 1,3 | 38 | 16 | 1 | 2,21 |
| TA1057090100140 | 1,4 | 40 | 18 | 1 | 2,21 |
| TA1057090100150 | 1,5 | 40 | 18 | 1 | 2,21 |
| TA1057090100160 | 1,6 | 43 | 20 | 1 | 2,21 |
| TA1057090100170 | 1,7 | 43 | 20 | 1 | 2,21 |
| TA1057090100180 | 1,8 | 46 | 22 | 1 | 2,21 |
| TA1057090100190 | 1,9 | 46 | 22 | 1 | 2,21 |
| TA1057090100200 | 2 | 49 | 24 | 1 | 2,29 |
| TA1057090100210 | 2,1 | 49 | 24 | 1 | 2,29 |
| TA1057090100220 | 2,2 | 53 | 27 | 1 | 2,29 |
| TA1057090100230 | 2,3 | 53 | 27 | 1 | 2,29 |
| TA1057090100238 | 2,38 | 57 | 30 | 1 | a richiesta |
| TA1057090100240 | 2,4 | 57 | 30 | 1 | 2,29 |
| TA1057090100250 | 2,5 | 57 | 30 | 1 | 2,39 |
| TA1057090100260 | 2,6 | 57 | 30 | 1 | 2,39 |
| TA1057090100270 | 2,7 | 61 | 33 | 1 | 2,47 |
| TA1057090100278 | 2,78 | 61 | 33 | 1 | a richiesta |
| TA1057090100280 | 2,8 | 61 | 33 | 1 | 2,47 |
| TA1057090100290 | 2,9 | 61 | 33 | 1 | 2,47 |
| TA1057090100300 | 3 | 61 | 33 | 1 | 2,39 |
| TA1057090100310 | 3,1 | 65 | 36 | 1 | 2,47 |
| TA1057090100317 | 3,17 | 65 | 36 | 1 | a richiesta |
| TA1057090100320 | 3,2 | 65 | 36 | 1 | 2,47 |
| TA1057090100330 | 3,3 | 65 | 36 | 1 | 2,63 |
| TA1057090100340 | 3,4 | 70 | 39 | 1 | 2,81 |
| TA1057090100350 | 3,5 | 70 | 39 | 1 | 2,81 |
| TA1057090100357 | 3,57 | 70 | 39 | 1 | a richiesta |
| TA1057090100360 | 3,6 | 70 | 39 | 1 | 2,81 |
| TA1057090100370 | 3,7 | 70 | 39 | 1 | 2,81 |
| TA1057090100380 | 3,8 | 75 | 43 | 1 | 3,04 |
| TA1057090100390 | 3,9 | 75 | 43 | 1 | 3,04 |
| TA1057090100397 | 3,97 | 75 | 43 | 1 | a richiesta |
| TA1057090100400 | 4 | 75 | 43 | 1 | 2,94 |
| TA1057090100410 | 4,1 | 75 | 43 | 1 | 3,04 |
| TA1057090100420 | 4,2 | 75 | 43 | 1 | 3,04 |
| TA1057090100430 | 4,3 | 80 | 47 | 1 | 3,12 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1057090100437 | 4,37 | 80 | 47 | 1 | a richiesta |
| TA1057090100440 | 4,4 | 80 | 47 | 1 | 3,12 |
| TA1057090100450 | 4,5 | 80 | 47 | 1 | 3,94 |
| TA1057090100460 | 4,6 | 80 | 47 | 1 | 3,12 |
| TA1057090100470 | 4,7 | 80 | 47 | 1 | 3,12 |
| TA1057090100476 | 4,76 | 86 | 52 | 1 | a richiesta |
| TA1057090100480 | 4,8 | 86 | 52 | 1 | 3,12 |
| TA1057090100490 | 4,9 | 86 | 52 | 1 | 3,19 |
| TA1057090100500 | 5 | 86 | 52 | 1 | 3,19 |
| TA1057090100510 | 5,1 | 86 | 52 | 1 | 3,19 |
| TA1057090100516 | 5,16 | 86 | 52 | 1 | a richiesta |
| TA1057090100520 | 5,2 | 86 | 52 | 1 | 3,30 |
| TA1057090100530 | 5,3 | 86 | 52 | 1 | 3,30 |
| TA1057090100540 | 5,4 | 93 | 57 | 1 | 3,71 |
| TA1057090100550 | 5.50 | 93 | 57 | 1 | 3,42 |
| TA1057090100556 | 5,56 | 93 | 57 | 1 | a richiesta |
| TA1057090100560 | 5,6 | 93 | 57 | 1 | 3,94 |
| TA1057090100570 | 5,7 | 93 | 57 | 1 | 3,94 |
| TA1057090100580 | 5,8 | 93 | 57 | 1 | 3,94 |
| TA1057090100590 | 5,9 | 93 | 57 | 1 | 3,94 |
| TA1057090100595 | 5,95 | 93 | 57 | 1 | a richiesta |
| TA1057090100600 | 6 | 93 | 57 | 1 | 3,84 |
| TA1057090100610 | 6,1 | 101 | 63 | 1 | 4,38 |
| TA1057090100620 | 6,2 | 101 | 63 | 1 | 4,38 |
| TA1057090100630 | 6,3 | 101 | 63 | 1 | 4,38 |
| TA1057090100635 | 6,35 | 101 | 63 | 1 | a richiesta |
| TA1057090100640 | 6,4 | 101 | 63 | 1 | 4,38 |
| TA1057090100650 | 6,5 | 101 | 63 | 1 | 4,38 |
| TA1057090100660 | 6,6 | 101 | 63 | 1 | 4,74 |
| TA1057090100670 | 6,7 | 101 | 63 | 1 | 4,74 |
| TA1057090100680 | 6,8 | 109 | 69 | 1 | 5,59 |
| TA1057090100690 | 6,9 | 109 | 69 | 1 | 5,59 |
| TA1057090100700 | 7 | 109 | 69 | 1 | 5,41 |
| TA1057090100710 | 7,1 | 109 | 69 | 1 | 6,64 |
| TA1057090100714 | 7,14 | 109 | 69 | 1 | a richiesta |
| TA1057090100720 | 7,2 | 109 | 69 | 1 | 6,64 |
| TA1057090100730 | 7,3 | 109 | 69 | 1 | 6,64 |
| TA1057090100740 | 7,4 | 109 | 69 | 1 | 6,64 |
| TA1057090100750 | 7,5 | 109 | 69 | 1 | 5,74 |

## Punta HSS-Co elicoidale TA1057, lucida, affilatura autocentrante, specifica per acciaio inox




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1057090100760 | **7,6** | 117 | 75 | 1 | **7,31** |
| TA1057090100770 | **7,7** | 117 | 75 | 1 | **7,31** |
| TA1057090100780 | **7,8** | 117 | 75 | 1 | **7,31** |
| TA1057090100790 | **7,9** | 117 | 75 | 1 | **7,31** |
| TA1057090100794 | **7,94** | 117 | 75 | 1 | **a richiesta** |
| TA1057090100800 | **8** | 117 | 75 | 1 | **6,05** |
| TA1057090100810 | **8,1** | 117 | 75 | 1 | **7,31** |
| TA1057090100820 | **8,2** | 117 | 75 | 1 | **7,31** |
| TA1057090100830 | **8,3** | 117 | 75 | 1 | **7,31** |
| TA1057090100840 | **8,4** | 117 | 75 | 1 | **7,31** |
| TA1057090100850 | **8,5** | 117 | 75 | 1 | **6,41** |
| TA1057090100873 | **8,73** | 125 | 81 | 1 | **a richiesta** |
| TA1057090100880 | **8,8** | 125 | 81 | 1 | **8,63** |
| TA1057090100900 | **9** | 125 | 81 | 1 | **7,31** |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1057090100930 | **9,3** | 125 | 81 | 1 | **9,30** |
| TA1057090100950 | **9,5** | 125 | 81 | 1 | **8,11** |
| TA1057090100980 | **9,8** | 133 | 87 | 1 | **10,33** |
| TA1057090101000 | **10** | 133 | 87 | 1 | **9,30** |
| TA1057090101020 | **10,2** | 133 | 87 | 1 | **12,15** |
| TA1057090101050 | **10,5** | 133 | 87 | 1 | **12,15** |
| TA1057090101100 | **11** | 142 | 94 | 1 | **14,11** |
| TA1057090101111 | **11,11** | 142 | 94 | 1 | **a richiesta** |
| TA1057090101150 | **11,5** | 142 | 94 | 1 | **15,91** |
| TA1057090101200 | **12** | 151 | 101 | 1 | **16,84** |
| TA1057090101250 | **12,5** | 151 | 101 | 1 | **20,34** |
| TA1057090101300 | **13** | 151 | 101 | 1 | **24,13** |
| TA1057090101350 | **13,5** | 160 | 108 | 1 | **27,48** |
| TA1057090101400 | **14** | 160 | 108 | 1 | **28,79** |

## Kit Punta HSS-Co elicoidale TA1057, lucida, affilatura autocentrante, specifica per acciaio inox





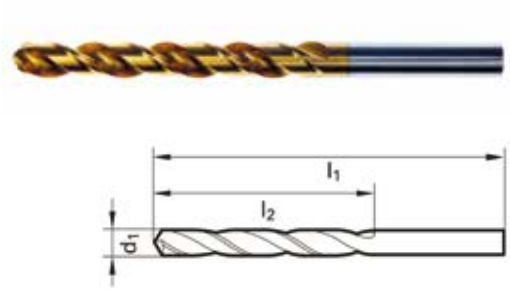

| Codice | Q.tà punte | Dimensioni | Cassetta | | € / cad. |
|---|---|---|---|---|---|
| TA10570901KIT01 | **19** | Ø1-10 x 0,5mm | plastica | 1 | **106,10** |
| TA10570901KIT02 | **25** | Ø1-13 x 0,5mm | plastica | 1 | **206,53** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS-Co elicoidale TA1058, autocentrante, rivestita TiN



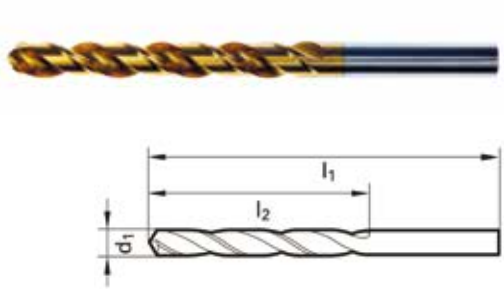




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1058090100100 | 1 | 34 | 12 | 1 | 5,10 |
| TA1058090100110 | 1,1 | 36 | 14 | 1 | 5,59 |
| TA1058090100120 | 1,2 | 38 | 16 | 1 | 5,41 |
| TA1058090100130 | 1,3 | 38 | 16 | 1 | 5,59 |
| TA1058090100140 | 1,4 | 40 | 18 | 1 | 5,64 |
| TA1058090100150 | 1,5 | 40 | 18 | 1 | 5,28 |
| TA1058090100160 | 1,6 | 43 | 20 | 1 | 5,28 |
| TA1058090100170 | 1,7 | 43 | 20 | 1 | 5,74 |
| TA1058090100180 | 1,8 | 46 | 22 | 1 | 5,64 |
| TA1058090100190 | 1,9 | 46 | 22 | 1 | 5,64 |
| TA1058090100200 | 2 | 49 | 24 | 1 | 5,41 |
| TA1058090100210 | 2,1 | 49 | 24 | 1 | 5,74 |
| TA1058090100220 | 2,2 | 53 | 27 | 1 | 6,00 |
| TA1058090100230 | 2,3 | 53 | 27 | 1 | 5,82 |
| TA1058090100238 | 2,38 | 57 | 30 | 1 | 5,82 |
| TA1058090100240 | 2,4 | 57 | 30 | 1 | 5,41 |
| TA1058090100250 | 2,5 | 57 | 30 | 1 | 5,59 |
| TA1058090100260 | 2,6 | 57 | 30 | 1 | 5,82 |
| TA1058090100270 | 2,7 | 61 | 33 | 1 | 6,18 |
| TA1058090100278 | 2,78 | 61 | 33 | 1 | 6,18 |
| TA1058090100280 | 2,8 | 61 | 33 | 1 | 6,05 |
| TA1058090100290 | 2,9 | 61 | 33 | 1 | 6,18 |
| TA1058090100300 | 3 | 61 | 33 | 1 | 5,92 |
| TA1058090100310 | 3,1 | 65 | 36 | 1 | 6,49 |
| TA1058090100317 | 3,17 | 65 | 36 | 1 | 6,41 |
| TA1058090100320 | 3,2 | 65 | 36 | 1 | 6,31 |
| TA1058090100330 | 3,3 | 65 | 36 | 1 | 6,49 |
| TA1058090100340 | 3,4 | 70 | 39 | 1 | 6,95 |
| TA1058090100350 | 3,5 | 70 | 39 | 1 | 7,06 |
| TA1058090100357 | 3,57 | 70 | 39 | 1 | 7,06 |
| TA1058090100360 | 3,6 | 70 | 39 | 1 | 7,13 |
| TA1058090100370 | 3,7 | 70 | 39 | 1 | 7,13 |
| TA1058090100380 | 3,8 | 75 | 43 | 1 | 7,49 |
| TA1058090100390 | 3,9 | 75 | 43 | 1 | 7,73 |
| TA1058090100397 | 3,97 | 75 | 43 | 1 | 7,49 |
| TA1058090100400 | 4 | 75 | 43 | 1 | 7,31 |
| TA1058090100410 | 4,1 | 75 | 43 | 1 | 7,49 |
| TA1058090100420 | 4,2 | 75 | 43 | 1 | 7,49 |
| TA1058090100430 | 4,3 | 80 | 47 | 1 | 8,03 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1058090100437 | 4,37 | 80 | 47 | 1 | 8,03 |
| TA1058090100440 | 4,4 | 80 | 47 | 1 | 8,03 |
| TA1058090100450 | 4,5 | 80 | 47 | 1 | 7,85 |
| TA1058090100460 | 4,6 | 80 | 47 | 1 | 8,29 |
| TA1058090100470 | 4,7 | 80 | 47 | 1 | 8,29 |
| TA1058090100476 | 4,76 | 86 | 52 | 1 | 8,39 |
| TA1058090100480 | 4,8 | 86 | 52 | 1 | 8,45 |
| TA1058090100490 | 4,9 | 86 | 52 | 1 | 8,63 |
| TA1058090100500 | 5 | 86 | 52 | 1 | 8,39 |
| TA1058090100510 | 5,1 | 86 | 52 | 1 | 8,63 |
| TA1058090100516 | 5,16 | 86 | 52 | 1 | 8,63 |
| TA1058090100520 | 5,2 | 86 | 52 | 1 | 8,63 |
| TA1058090100530 | 5,3 | 86 | 52 | 1 | 9,42 |
| TA1058090100540 | 5,4 | 93 | 57 | 1 | 10,33 |
| TA1058090100550 | 5.50 | 93 | 57 | 1 | 10,02 |
| TA1058090100556 | 5,56 | 93 | 57 | 1 | 10,20 |
| TA1058090100560 | 5,6 | 93 | 57 | 1 | 10,61 |
| TA1058090100570 | 5,7 | 93 | 57 | 1 | 10,61 |
| TA1058090100580 | 5,8 | 93 | 57 | 1 | 10,61 |
| TA1058090100590 | 5,9 | 93 | 57 | 1 | 10,74 |
| TA1058090100595 | 5,95 | 93 | 57 | 1 | 10,33 |
| TA1058090100600 | 6 | 93 | 57 | 1 | 10,20 |
| TA1058090100610 | 6,1 | 101 | 63 | 1 | 11,41 |
| TA1058090100620 | 6,2 | 101 | 63 | 1 | 11,23 |
| TA1058090100630 | 6,3 | 101 | 63 | 1 | 11,10 |
| TA1058090100635 | 6,35 | 101 | 63 | 1 | 11,23 |
| TA1058090100640 | 6,4 | 101 | 63 | 1 | 11,23 |
| TA1058090100650 | 6,5 | 101 | 63 | 1 | 12,15 |
| TA1058090100660 | 6,6 | 101 | 63 | 1 | 12,46 |
| TA1058090100670 | 6,7 | 101 | 63 | 1 | 12,72 |
| TA1058090100680 | 6,8 | 109 | 69 | 1 | 13,80 |
| TA1058090100690 | 6,9 | 109 | 69 | 1 | 13,96 |
| TA1058090100700 | 7 | 109 | 69 | 1 | 13,80 |
| TA1058090100710 | 7,1 | 109 | 69 | 1 | 15,17 |
| TA1058090100714 | 7,14 | 109 | 69 | 1 | 15,17 |
| TA1058090100720 | 7,2 | 109 | 69 | 1 | 15,17 |
| TA1058090100730 | 7,3 | 109 | 69 | 1 | 15,91 |
| TA1058090100740 | 7,4 | 109 | 69 | 1 | 15,91 |
| TA1058090100750 | 7,5 | 109 | 69 | 1 | 14,45 |

## Punta HSS-Co elicoidale TA1058, autocentrante, rivestita TiN



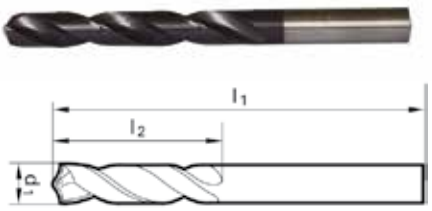

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1058090100760 | **7,6** | 117 | 75 | 1 | **17,33** |
| TA1058090100770 | **7,7** | 117 | 75 | 1 | **16,97** |
| TA1058090100780 | **7,8** | 117 | 75 | 1 | **17,15** |
| TA1058090100790 | **7,9** | 117 | 75 | 1 | **18,05** |
| TA1058090100794 | **7,94** | 117 | 75 | 1 | **17,15** |
| TA1058090100800 | **8** | 117 | 75 | 1 | **16,43** |
| TA1058090100810 | **8,1** | 117 | 75 | 1 | **17,87** |
| TA1058090100820 | **8,2** | 117 | 75 | 1 | **17,74** |
| TA1058090100830 | **8,3** | 117 | 75 | 1 | **17,74** |
| TA1058090100840 | **8,4** | 117 | 75 | 1 | **18,64** |
| TA1058090100850 | **8,5** | 117 | 75 | 1 | **16,84** |
| TA1058090100873 | **8,73** | 125 | 81 | 1 | **18,23** |
| TA1058090100880 | **8,8** | 125 | 81 | 1 | **19,67** |
| TA1058090100900 | **9** | 125 | 81 | 1 | **18,64** |
| TA1058090100930 | **9,3** | 125 | 81 | 1 | **20,03** |
| TA1058090100950 | **9,5** | 125 | 81 | 1 | **19,44** |
| TA1058090100980 | **9,8** | 133 | 87 | 1 | **22,74** |
| TA1058090101000 | **10** | 133 | 87 | 1 | **21,99** |
| TA1058090101020 | **10,2** | 133 | 87 | 1 | **25,36** |
| TA1058090101050 | **10,5** | 133 | 87 | 1 | **25,54** |
| TA1058090101100 | **11** | 142 | 94 | 1 | **26,45** |
| TA1058090101111 | **11,11** | 142 | 94 | 1 | **27,89** |
| TA1058090101150 | **11,5** | 142 | 94 | 1 | **29,30** |
| TA1058090101200 | **12** | 151 | 101 | 1 | **31,26** |
| TA1058090101250 | **12,5** | 151 | 101 | 1 | **32,50** |
| TA1058090101300 | **13** | 151 | 101 | 1 | **34,71** |
| TA1058090101350 | **13,5** | 160 | 108 | 1 | **40,20** |
| TA1058090101400 | **14** | 160 | 108 | 1 | **40,20** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

**Punta in M42 TA1060, affilatura a croce, rivestita Nano TiAlN, performante, resistente all'usura, specifica per acciai inox e super leghe**




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1060090100100 | 1 | 34 | 12 | 1 | 7,71 |
| TA1060090100110 | 1,1 | 36 | 14 | 1 | 7,93 |
| TA1060090100120 | 1,2 | 38 | 16 | 1 | 7,75 |
| TA1060090100130 | 1,3 | 38 | 16 | 1 | 7,86 |
| TA1060090100140 | 1,4 | 40 | 18 | 1 | 7,90 |
| TA1060090100150 | 1,5 | 40 | 18 | 1 | 7,61 |
| TA1060090100160 | 1,6 | 43 | 20 | 1 | 7,71 |
| TA1060090100170 | 1,7 | 43 | 20 | 1 | 8,04 |
| TA1060090100180 | 1,8 | 46 | 22 | 1 | 7,97 |
| TA1060090100190 | 1,9 | 46 | 22 | 1 | 8,40 |
| TA1060090100200 | 2 | 49 | 24 | 1 | 8,29 |
| TA1060090100210 | 2,1 | 49 | 24 | 1 | 8,69 |
| TA1060090100220 | 2,2 | 53 | 27 | 1 | 9,34 |
| TA1060090100230 | 2,3 | 53 | 27 | 1 | 8,94 |
| TA1060090100240 | 2,4 | 57 | 30 | 1 | 8,62 |
| TA1060090100250 | 2,5 | 57 | 30 | 1 | 8,29 |
| TA1060090100260 | 2,6 | 57 | 30 | 1 | 8,62 |
| TA1060090100270 | 2,7 | 61 | 33 | 1 | 9,30 |
| TA1060090100280 | 2,8 | 61 | 33 | 1 | 9,19 |
| TA1060090100290 | 2,9 | 61 | 33 | 1 | 9,55 |
| TA1060090100300 | 3 | 61 | 33 | 1 | 8,83 |
| TA1060090100310 | 3,1 | 65 | 36 | 1 | 10,31 |
| TA1060090100320 | 3,2 | 65 | 36 | 1 | 9,95 |
| TA1060090100330 | 3,3 | 65 | 36 | 1 | 10,02 |
| TA1060090100340 | 3,4 | 70 | 39 | 1 | 10,63 |
| TA1060090100350 | 3,5 | 70 | 39 | 1 | 10,24 |
| TA1060090100360 | 3,6 | 70 | 39 | 1 | 10,82 |
| TA1060090100370 | 3,7 | 70 | 39 | 1 | 10,63 |
| TA1060090100380 | 3,8 | 75 | 43 | 1 | 11,39 |
| TA1060090100390 | 3,9 | 75 | 43 | 1 | 11,68 |
| TA1060090100400 | 4 | 75 | 43 | 1 | 11,03 |
| TA1060090100410 | 4,1 | 75 | 43 | 1 | 11,28 |
| TA1060090100420 | 4,2 | 75 | 43 | 1 | 11,32 |
| TA1060090100430 | 4,3 | 80 | 47 | 1 | 12,40 |
| TA1060090100440 | 4,4 | 80 | 47 | 1 | 12,08 |
| TA1060090100450 | 4,5 | 80 | 47 | 1 | 12,00 |
| TA1060090100460 | 4,6 | 80 | 47 | 1 | 13,27 |
| TA1060090100470 | 4,7 | 80 | 47 | 1 | 13,01 |
| TA1060090100480 | 4,8 | 86 | 52 | 1 | 12,18 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1060090100490 | 4,9 | 86 | 52 | 1 | 12,76 |
| TA1060090100500 | 5 | 86 | 52 | 1 | 12,22 |
| TA1060090100510 | 5,1 | 86 | 52 | 1 | 12,47 |
| TA1060090100520 | 5,2 | 86 | 52 | 1 | 12,47 |
| TA1060090100530 | 5,3 | 86 | 52 | 1 | 14,56 |
| TA1060090100540 | 5,4 | 93 | 57 | 1 | 15,72 |
| TA1060090100550 | 5,5 | 93 | 57 | 1 | 12,76 |
| TA1060090100560 | 5,6 | 93 | 57 | 1 | 14,46 |
| TA1060090100570 | 5,7 | 93 | 57 | 1 | 14,35 |
| TA1060090100580 | 5,8 | 93 | 57 | 1 | 14,56 |
| TA1060090100590 | 5,9 | 93 | 57 | 1 | 15,47 |
| TA1060090100600 | 6 | 93 | 57 | 1 | 13,88 |
| TA1060090100610 | 6,1 | 101 | 63 | 1 | 14,46 |
| TA1060090100620 | 6,2 | 101 | 63 | 1 | 15,83 |
| TA1060090100630 | 6,3 | 101 | 63 | 1 | 17,27 |
| TA1060090100640 | 6,4 | 101 | 63 | 1 | 15,83 |
| TA1060090100650 | 6,5 | 101 | 63 | 1 | 18,17 |
| TA1060090100660 | 6,6 | 101 | 63 | 1 | 19,03 |
| TA1060090100670 | 6,7 | 101 | 63 | 1 | 19,39 |
| TA1060090100680 | 6,8 | 109 | 69 | 1 | 20,04 |
| TA1060090100690 | 6,9 | 109 | 69 | 1 | 20,30 |
| TA1060090100700 | 7 | 109 | 69 | 1 | 18,42 |
| TA1060090100710 | 7,1 | 109 | 69 | 1 | 21,85 |
| TA1060090100720 | 7,2 | 109 | 69 | 1 | 22,10 |
| TA1060090100730 | 7,3 | 109 | 69 | 1 | 23,83 |
| TA1060090100740 | 7,4 | 109 | 69 | 1 | 24,19 |
| TA1060090100750 | 7,5 | 109 | 69 | 1 | 21,41 |
| TA1060090100760 | 7,6 | 117 | 75 | 1 | 25,81 |
| TA1060090100770 | 7,7 | 117 | 75 | 1 | 24,87 |
| TA1060090100780 | 7,8 | 117 | 75 | 1 | 25,02 |
| TA1060090100790 | 7,9 | 117 | 75 | 1 | 27,54 |
| TA1060090100800 | 8 | 117 | 75 | 1 | 21,41 |
| TA1060090100810 | 8,1 | 117 | 75 | 1 | 26,89 |
| TA1060090100820 | 8,2 | 117 | 75 | 1 | 26,35 |
| TA1060090100830 | 8,3 | 117 | 75 | 1 | 25,52 |
| TA1060090100840 | 8,4 | 117 | 75 | 1 | 28,77 |
| TA1060090100850 | 8,5 | 117 | 75 | 1 | 23,94 |
| TA1060090100860 | 8,6 | 125 | 81 | 1 | 25,60 |
| TA1060090100870 | 8,7 | 125 | 81 | 1 | 30,61 |

## Punta in M42 TA1060, affilatura a croce, rivestita Nano TiAlN, performante, resistente all'usura, specifica per acciai inox e super leghe





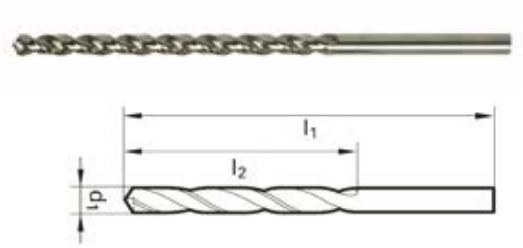


| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1060090100880 | 8,8 | 125 | 81 | 1 | 29,16 |
| TA1060090100890 | 8,9 | 125 | 81 | 1 | 26,53 |
| TA1060090100900 | 9 | 125 | 81 | 1 | 26,64 |
| TA1060090100910 | 9,1 | 125 | 81 | 1 | 30,21 |
| TA1060090100920 | 9,2 | 125 | 81 | 1 | 33,13 |
| TA1060090100930 | 9,3 | 125 | 81 | 1 | 28,66 |
| TA1060090100940 | 9,4 | 125 | 81 | 1 | 33,35 |
| TA1060090100950 | 9,5 | 125 | 81 | 1 | 28,26 |
| TA1060090100960 | 9,6 | 133 | 87 | 1 | 30,75 |
| TA1060090100970 | 9,7 | 133 | 87 | 1 | 30,75 |
| TA1060090100980 | 9,8 | 133 | 87 | 1 | 27,97 |
| TA1060090100990 | 9,9 | 133 | 87 | 1 | 34,00 |
| TA1060090101000 | 10 | 133 | 87 | 1 | 28,84 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1060090101010 | 10,1 | 133 | 87 | 1 | 40,02 |
| TA1060090101020 | 10,2 | 133 | 87 | 1 | 39,51 |
| TA1060090101050 | 10,5 | 133 | 87 | 1 | 39,76 |
| TA1060090101080 | 10,8 | 142 | 94 | 1 | 40,70 |
| TA1060090101100 | 11 | 142 | 94 | 1 | 39,08 |
| TA1060090101120 | 11,2 | 142 | 94 | 1 | 44,49 |
| TA1060090101150 | 11,5 | 142 | 94 | 1 | 46,14 |
| TA1060090101180 | 11,8 | 142 | 94 | 1 | 46,54 |
| TA1060090101200 | 12 | 151 | 101 | 1 | 48,88 |
| TA1060090101220 | 12,2 | 151 | 101 | 1 | 49,06 |
| TA1060090101250 | 12,5 | 151 | 101 | 1 | 47,33 |
| TA1060090101300 | 13 | 151 | 101 | 1 | 54,04 |

## Punta HSS-Co elicoidale TA1072, lucida, affilatura autocentrante, universale per tutti i materiali, serie lunga




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1072090100100 | 1 | 56 | 33 | 1 | 7,83 |
| TA1072090100110 | 1,1 | 60 | 37 | 1 | 10,71 |
| TA1072090100120 | 1,2 | 65 | 41 | 1 | 9,84 |
| TA1072090100130 | 1,3 | 65 | 41 | 1 | 10,09 |
| TA1072090100140 | 1,4 | 70 | 45 | 1 | 10,71 |
| TA1072090100150 | 1,5 | 70 | 45 | 1 | 8,32 |
| TA1072090100160 | 1,6 | 76 | 50 | 1 | 10,45 |
| TA1072090100170 | 1,7 | 76 | 50 | 1 | 10,20 |
| TA1072090100180 | 1,8 | 80 | 53 | 1 | 10,20 |
| TA1072090100190 | 1,9 | 80 | 53 | 1 | 9,48 |
| TA1072090100200 | 2 | 85 | 56 | 1 | 7,57 |

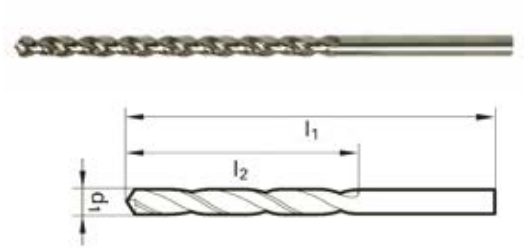
| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1072090100210 | 2,1 | 85 | 56 | 1 | 8,55 |
| TA1072090100220 | 2,2 | 90 | 59 | 1 | 8,55 |
| TA1072090100230 | 2,3 | 90 | 59 | 1 | 8,55 |
| TA1072090100240 | 2,4 | 95 | 62 | 1 | 8,86 |
| TA1072090100250 | 2,5 | 95 | 62 | 1 | 7,83 |
| TA1072090100260 | 2,6 | 95 | 62 | 1 | 9,04 |
| TA1072090100270 | 2,7 | 100 | 66 | 1 | 9,48 |
| TA1072090100280 | 2,8 | 100 | 66 | 1 | 10,20 |
| TA1072090100290 | 2,9 | 100 | 66 | 1 | 9,22 |
| TA1072090100300 | 3 | 100 | 66 | 1 | 8,19 |
| TA1072090100310 | 3,1 | 106 | 69 | 1 | 9,84 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS-Co elicoidale TA1072, lucida, affilatura autocentrante, universale per tutti i materiali, serie lunga



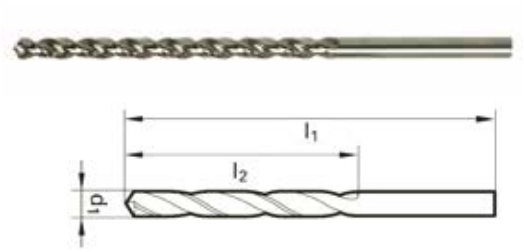




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1072090100320 | 3,2 | 106 | 69 | 1 | 9,37 |
| TA1072090100330 | 3,3 | 106 | 69 | 1 | 10,20 |
| TA1072090100340 | 3,4 | 112 | 73 | 1 | 9,73 |
| TA1072090100350 | 3,5 | 112 | 73 | 1 | 9,94 |
| TA1072090100360 | 3,6 | 112 | 73 | 1 | 10,45 |
| TA1072090100370 | 3,7 | 112 | 73 | 1 | 10,30 |
| TA1072090100380 | 3,8 | 119 | 78 | 1 | 10,09 |
| TA1072090100390 | 3,9 | 119 | 78 | 1 | 9,73 |
| TA1072090100400 | 4 | 119 | 78 | 1 | 10,30 |
| TA1072090100410 | 4,1 | 119 | 78 | 1 | 9,73 |
| TA1072090100420 | 4,2 | 119 | 78 | 1 | 9,37 |
| TA1072090100430 | 4,3 | 126 | 82 | 1 | 9,94 |
| TA1072090100440 | 4,4 | 126 | 82 | 1 | 10,82 |
| TA1072090100450 | 4,5 | 126 | 82 | 1 | 12,59 |
| TA1072090100460 | 4,6 | 126 | 82 | 1 | 9,48 |
| TA1072090100470 | 4,7 | 126 | 82 | 1 | 10,71 |
| TA1072090100480 | 4,8 | 132 | 87 | 1 | 9,58 |
| TA1072090100490 | 4,9 | 132 | 87 | 1 | 10,89 |
| TA1072090100500 | 5 | 132 | 87 | 1 | 10,45 |
| TA1072090100510 | 5,1 | 132 | 87 | 1 | 11,51 |
| TA1072090100520 | 5,2 | 132 | 87 | 1 | 11,61 |
| TA1072090100530 | 5,3 | 132 | 87 | 1 | 13,26 |
| TA1072090100540 | 5,4 | 139 | 91 | 1 | 14,50 |
| TA1072090100550 | 5,5 | 139 | 91 | 1 | 9,37 |
| TA1072090100560 | 5,6 | 139 | 91 | 1 | 15,66 |
| TA1072090100570 | 5,7 | 139 | 91 | 1 | 15,66 |
| TA1072090100580 | 5,8 | 139 | 91 | 1 | 14,50 |
| TA1072090100590 | 5,9 | 139 | 91 | 1 | 16,61 |
| TA1072090100600 | 6 | 139 | 91 | 1 | 12,82 |
| TA1072090100610 | 6,1 | 148 | 97 | 1 | 17,82 |
| TA1072090100620 | 6,2 | 148 | 97 | 1 | 17,82 |
| TA1072090100630 | 6,3 | 148 | 97 | 1 | 16,61 |
| TA1072090100640 | 6,4 | 148 | 97 | 1 | 17,56 |
| TA1072090100650 | 6,5 | 148 | 97 | 1 | 13,08 |
| TA1072090100660 | 6,6 | 148 | 97 | 1 | 19,44 |
| TA1072090100670 | 6,7 | 148 | 97 | 1 | 19,44 |
| TA1072090100680 | 6,8 | 156 | 102 | 1 | 19,21 |
| TA1072090100690 | 6,9 | 156 | 102 | 1 | 21,60 |
| TA1072090100700 | 7 | 156 | 102 | 1 | 17,82 |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1072090100710 | 7,1 | 156 | 102 | 1 | 22,07 |
| TA1072090100720 | 7,2 | 156 | 102 | 1 | 23,46 |
| TA1072090100730 | 7,3 | 156 | 102 | 1 | 24,18 |
| TA1072090100740 | 7,4 | 156 | 102 | 1 | 24,69 |
| TA1072090100750 | 7,5 | 156 | 102 | 1 | 25,62 |
| TA1072090100760 | 7,6 | 165 | 109 | 1 | 20,39 |
| TA1072090100770 | 7,7 | 165 | 109 | 1 | 22,56 |
| TA1072090100780 | 7,8 | 165 | 109 | 1 | 24,69 |
| TA1072090100790 | 7,9 | 165 | 109 | 1 | 25,13 |
| TA1072090100800 | 8 | 165 | 109 | 1 | 18,03 |
| TA1072090100810 | 8,1 | 165 | 109 | 1 | 26,11 |
| TA1072090100820 | 8,2 | 165 | 109 | 1 | 25,62 |
| TA1072090100830 | 8,3 | 165 | 109 | 1 | 25,62 |
| TA1072090100840 | 8,4 | 165 | 109 | 1 | 28,92 |
| TA1072090100850 | 8,5 | 165 | 109 | 1 | 22,07 |
| TA1072090100860 | 8,6 | 175 | 115 | 1 | 28,22 |
| TA1072090100870 | 8,7 | 175 | 115 | 1 | 34,43 |
| TA1072090100880 | 8,8 | 175 | 115 | 1 | 31,29 |
| TA1072090100890 | 8,9 | 175 | 115 | 1 | 37,96 |
| TA1072090100900 | 9 | 175 | 115 | 1 | 21,35 |
| TA1072090100910 | 9,1 | 175 | 115 | 1 | 33,91 |
| TA1072090100920 | 9,2 | 175 | 115 | 1 | 36,05 |
| TA1072090100930 | 9,3 | 175 | 115 | 1 | 29,90 |
| TA1072090100940 | 9,4 | 175 | 115 | 1 | 30,82 |
| TA1072090100950 | 9,5 | 175 | 115 | 1 | 27,50 |
| TA1072090100960 | 9,6 | 184 | 121 | 1 | 42,69 |
| TA1072090100970 | 9,7 | 184 | 121 | 1 | 54,54 |
| TA1072090100980 | 9,8 | 184 | 121 | 1 | 37,96 |
| TA1072090100990 | 9,9 | 184 | 121 | 1 | 49,83 |
| TA1072090101000 | 10 | 184 | 121 | 1 | 35,84 |
| TA1072090101010 | 10,1 | 184 | 121 | 1 | 37,96 |
| TA1072090101020 | 10,2 | 184 | 121 | 1 | 39,63 |
| TA1072090101030 | 10,3 | 184 | 121 | 1 | 40,76 |
| TA1072090101040 | 10,4 | 184 | 121 | 1 | 42,44 |
| TA1072090101050 | 10,5 | 184 | 121 | 1 | 44,62 |
| TA1072090101100 | 11 | 195 | 128 | 1 | 53,38 |
| TA1072090101150 | 11,5 | 195 | 128 | 1 | 54,54 |
| TA1072090101200 | 12 | 205 | 134 | 1 | 49,83 |
| TA1072090101250 | 12,5 | 205 | 134 | 1 | 59,30 |

## Punta HSS-Co elicoidale TA1072, lucida, affilatura autocentrante, universale per tutti i materiali, serie lunga

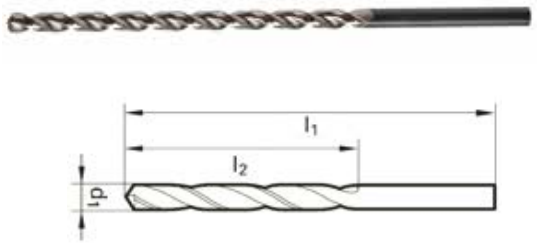



| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1072090101300 | **13** | 205 | 134 | 1 | **65,25** |
| TA1072090101350 | **13,5** | 214 | 140 | 1 | **70,01** |
| TA1072090101400 | **14** | 214 | 140 | 1 | **74,73** |

## Punta HSS elicoidale TA1063, a forte torsione, serie extra lunga



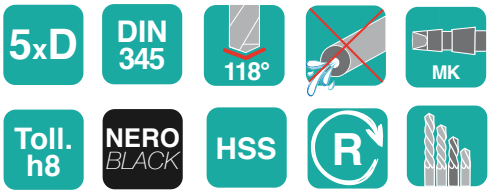



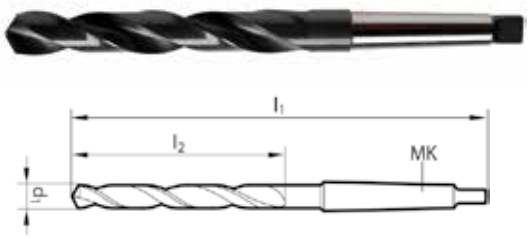

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1063090100200 | **2** | 125 | 85 | 1 | **15,71** |
| TA1063090100250 | **2,5** | 140 | 95 | 1 | **15,71** |
| TA1063090100300 | **3** | 150 | 100 | 1 | **17,48** |
| TA1063090100350 | **3,5** | 165 | 115 | 1 | **17,48** |
| TA1063090100400 | **4** | 175 | 120 | 1 | **17,90** |
| TA1063090100450 | **4,5** | 185 | 125 | 1 | **20,09** |
| TA1063090100500 | **5** | 195 | 135 | 1 | **19,85** |
| TA1063090100550 | **5,5** | 205 | 140 | 1 | **22,30** |
| TA1063090100600 | **6** | 205 | 140 | 1 | **22,30** |
| TA1063090100650 | **6,5** | 215 | 150 | 1 | **31,78** |
| TA1063090100700 | **7** | 225 | 155 | 1 | **31,78** |
| TA1063090100750 | **7,5** | 225 | 155 | 1 | **39,19** |
| TA1063090100800 | **8** | 240 | 165 | 1 | **37,67** |
| TA1063090100850 | **8,5** | 240 | 165 | 1 | **43,26** |
| TA1063090100900 | **9** | 250 | 175 | 1 | **55,16** |
| TA1063090100950 | **9,5** | 250 | 175 | 1 | **65,41** |
| TA1063090101000 | **10** | 265 | 185 | 1 | **58,04** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS elicoidale TA1064, con attacco cono morse




| Codice | d1 | MK | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1064090100500 | 5 | 1 | 133 | 52 | 1 | a richiesta |
| TA1064090100550 | 5,5 | 1 | 138 | 57 | 1 | a richiesta |
| TA1064090100600 | 6 | 1 | 138 | 57 | 1 | a richiesta |
| TA1064090100650 | 6,5 | 1 | 144 | 63 | 1 | a richiesta |
| TA1064090100675 | 6,75 | 1 | 150 | 69 | 1 | a richiesta |
| TA1064090100700 | 7 | 1 | 150 | 69 | 1 | a richiesta |
| TA1064090100750 | 7,5 | 1 | 150 | 69 | 1 | a richiesta |
| TA1064090100800 | 8 | 1 | 156 | 75 | 1 | a richiesta |
| TA1064090100850 | 8,5 | 1 | 156 | 75 | 1 | a richiesta |
| TA1064090100900 | 9 | 1 | 162 | 81 | 1 | a richiesta |
| TA1064090100925 | 9,25 | 1 | 162 | 81 | 1 | a richiesta |
| TA1064090100950 | 9,5 | 1 | 162 | 81 | 1 | a richiesta |
| TA1064090101000 | 10 | 1 | 168 | 87 | 1 | a richiesta |
| TA1064090101020 | 10,2 | 1 | 168 | 87 | 1 | a richiesta |
| TA1064090101025 | 10,25 | 1 | 168 | 87 | 1 | a richiesta |
| TA1064090101050 | 10,5 | 1 | 168 | 87 | 1 | a richiesta |
| TA1064090101075 | 10,75 | 1 | 175 | 94 | 1 | a richiesta |
| TA1064090101100 | 11 | 1 | 175 | 94 | 1 | a richiesta |
| TA1064090101150 | 11,5 | 1 | 175 | 94 | 1 | a richiesta |
| TA1064090101175 | 11,75 | 1 | 175 | 94 | 1 | a richiesta |
| TA1064090101200 | 12 | 1 | 182 | 101 | 1 | a richiesta |
| TA1064090101225 | 12,25 | 1 | 182 | 101 | 1 | a richiesta |
| TA1064090101250 | 12,5 | 1 | 182 | 101 | 1 | a richiesta |
| TA1064090101300 | 13 | 1 | 182 | 101 | 1 | 32,42 |
| TA1064090101350 | 13,5 | 1 | 189 | 108 | 1 | 35,48 |
| TA1064090101375 | 13,75 | 1 | 189 | 108 | 1 | 42,98 |
| TA1064090101400 | 14 | 1 | 189 | 108 | 1 | 34,63 |
| TA1064090101425 | 14,25 | 2 | 212 | 114 | 1 | 51,99 |
| TA1064090101450 | 14,5 | 2 | 212 | 114 | 1 | 34,97 |
| TA1064090101475 | 14,75 | 2 | 212 | 114 | 1 | 56,98 |
| TA1064090101500 | 15 | 2 | 212 | 114 | 1 | 36,98 |
| TA1064090101525 | 15,25 | 2 | 218 | 120 | 1 | 51,99 |
| TA1064090101550 | 15,5 | 2 | 218 | 120 | 1 | 41,20 |
| TA1064090101575 | 15,75 | 2 | 218 | 120 | 1 | 50,91 |
| TA1064090101600 | 16 | 2 | 218 | 120 | 1 | 39,99 |
| TA1064090101625 | 16,25 | 2 | 223 | 125 | 1 | 62,98 |
| TA1064090101650 | 16,5 | 2 | 223 | 125 | 1 | 43,65 |
| TA1064090101700 | 17 | 2 | 223 | 125 | 1 | 44,99 |
| TA1064090101725 | 17,25 | 2 | 228 | 130 | 1 | 58,97 |

| Codice | d1 | MK | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1064090101750 | 17,5 | 2 | 228 | 130 | 1 | 45,99 |
| TA1064090101775 | 17,75 | 2 | 228 | 130 | 1 | 56,98 |
| TA1064090101800 | 18 | 2 | 228 | 130 | 1 | 48,00 |
| TA1064090101825 | 18,25 | 2 | 233 | 135 | 1 | 64,97 |
| TA1064090101850 | 18,5 | 2 | 233 | 135 | 1 | 51,99 |
| TA1064090101875 | 18,75 | 2 | 233 | 135 | 1 | 62,98 |
| TA1064090101900 | 19 | 2 | 233 | 135 | 1 | 51,99 |
| TA1064090101925 | 19,25 | 2 | 238 | 140 | 1 | 72,31 |
| TA1064090101950 | 19,5 | 2 | 238 | 140 | 1 | 60,00 |
| TA1064090101975 | 19,75 | 2 | 238 | 140 | 1 | 69,99 |
| TA1064090102000 | 20 | 2 | 238 | 140 | 1 | 56,37 |
| TA1064090102025 | 20,25 | 2 | 243 | 145 | 1 | 81,96 |
| TA1064090102050 | 20,5 | 2 | 243 | 145 | 1 | 58,97 |
| TA1064090102075 | 20,75 | 2 | 243 | 145 | 1 | 78,98 |
| TA1064090102100 | 21 | 2 | 243 | 145 | 1 | 61,98 |
| TA1064090102150 | 21,5 | 2 | 248 | 150 | 1 | 70,97 |
| TA1064090102200 | 22 | 2 | 248 | 150 | 1 | 68,96 |
| TA1064090102225 | 22,25 | 2 | 248 | 150 | 1 | 85,95 |
| TA1064090102250 | 22,50 | 2 | 253 | 155 | 1 | 85,95 |
| TA1064090102275 | 22,75 | 2 | 253 | 155 | 1 | 85,95 |
| TA1064090102300 | 23 | 2 | 253 | 155 | 1 | 80,96 |
| TA1064090102325 | 23,25 | 2 | 276 | 155 | 1 | 112,60 |
| TA1064090102350 | 23,5 | 3 | 276 | 155 | 1 | 79,95 |
| TA1064090102400 | 24 | 3 | 281 | 160 | 1 | 84,98 |
| TA1064090102425 | 24,25 | 3 | 281 | 160 | 1 | 120,95 |
| TA1064090102450 | 24,5 | 3 | 281 | 160 | 1 | 86,96 |
| TA1064090102475 | 24,75 | 3 | 281 | 160 | 1 | 122,96 |
| TA1064090102500 | 25 | 3 | 281 | 160 | 1 | 93,96 |
| TA1064090102525 | 25,25 | 3 | 286 | 165 | 1 | 124,96 |
| TA1064090102550 | 25,5 | 3 | 286 | 165 | 1 | 95,94 |
| TA1064090102575 | 25,75 | 3 | 286 | 165 | 1 | 126,95 |
| TA1064090102600 | 26 | 3 | 286 | 165 | 1 | 106,97 |
| TA1064090102650 | 26,5 | 3 | 286 | 165 | 1 | 103,95 |
| TA1064090102700 | 27 | 3 | 291 | 170 | 1 | 106,97 |
| TA1064090102750 | 27,5 | 3 | 291 | 170 | 1 | 109,95 |
| TA1064090102800 | 28 | 3 | 291 | 170 | 1 | 116,96 |
| TA1064090102825 | 28,25 | 3 | 296 | 175 | 1 | 162,92 |
| TA1064090102850 | 28,5 | 3 | 296 | 175 | 1 | 144,92 |
| TA1064090102900 | 29 | 3 | 296 | 175 | 1 | 126,95 |

## Punta HSS elicoidale TA1064, con attacco cono morse







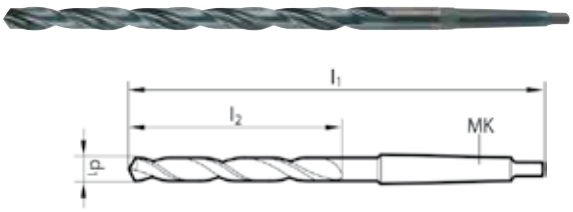
| Codice | d1 | MK | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1064090102950 | **29,5** | 3 | 296 | 175 | 1 | **131,94** |
| TA1064090103000 | **30** | 3 | 296 | 175 | 1 | **126,95** |
| TA1064090103050 | **30,5** | 3 | 301 | 180 | 1 | **155,94** |
| TA1064090103100 | **31** | 3 | 301 | 180 | 1 | **151,93** |
| TA1064090103150 | **31,5** | 3 | 301 | 180 | 1 | **172,91** |
| TA1064090103200 | **32** | 4 | 334 | 185 | 1 | **158,93** |
| TA1064090103250 | **32,5** | 4 | 334 | 185 | 1 | **183,93** |
| TA1064090103300 | **33** | 4 | 334 | 185 | 1 | **171,93** |
| TA1064090103350 | **33,5** | 4 | 334 | 185 | 1 | **191,94** |
| TA1064090103400 | **34** | 4 | 339 | 190 | 1 | **199,92** |
| TA1064090103450 | **34,5** | 4 | 339 | 190 | 1 | **221,89** |
| TA1064090103500 | **35** | 4 | 339 | 190 | 1 | **203,91** |
| TA1064090103550 | **35,5** | 4 | 339 | 190 | 1 | **239,89** |
| TA1064090103600 | **36** | 4 | 344 | 195 | 1 | **219,91** |
| TA1064090103650 | **36,5** | 4 | 344 | 195 | 1 | **247,90** |
| TA1064090103700 | **37** | 4 | 344 | 195 | 1 | **239,89** |
| TA1064090103750 | **37,5** | 4 | 344 | 195 | 1 | **269,89** |
| TA1064090103800 | **38** | 4 | 349 | 200 | 1 | **253,90** |
| TA1064090103850 | **38,5** | 4 | 349 | 200 | 1 | **305,88** |
| TA1064090103900 | **39** | 4 | 349 | 200 | 1 | **281,89** |
| TA1064090103950 | **39,5** | 4 | 349 | 200 | 1 | **349,87** |

| Codice | d1 | MK | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1064090104000 | **40** | 4 | 349 | 200 | 1 | **289,87** |
| TA1064090104100 | **41** | 4 | 354 | 205 | 1 | **309,88** |
| TA1064090104200 | **42** | 4 | 354 | 205 | 1 | **341,86** |
| TA1064090104300 | **43** | 4 | 359 | 210 | 1 | **357,87** |
| TA1064090104400 | **44** | 4 | 359 | 210 | 1 | **383,83** |
| TA1064090104500 | **45** | 4 | 359 | 210 | 1 | **391,84** |
| TA1064090104600 | **46** | 4 | 364 | 215 | 1 | **407,83** |
| TA1064090104700 | **47** | 4 | 364 | 215 | 1 | **437,83** |
| TA1064090104800 | **48** | 4 | 369 | 220 | 1 | **447,82** |
| TA1064090104900 | **49** | 4 | 369 | 220 | 1 | **467,80** |
| TA1064090105000 | **50** | 4 | 369 | 220 | 1 | **481,81** |
| TA1064090105100 | **51** | 5 | 412 | 225 | 1 | **754,01** |
| TA1064090105200 | **52** | 5 | 412 | 225 | 1 | **776,21** |
| TA1064090105300 | **53** | 5 | 412 | 225 | 1 | **875,99** |
| TA1064090105400 | **54** | 5 | 417 | 230 | 1 | **842,75** |
| TA1064090105500 | **55** | 5 | 417 | 230 | 1 | **864,94** |
| TA1064090105600 | **56** | 5 | 417 | 230 | 1 | **931,43** |
| TA1064090105700 | **57** | 5 | 422 | 235 | 1 | **920,38** |
| TA1064090105800 | **58** | 5 | 422 | 235 | 1 | **986,87** |
| TA1064090105900 | **59** | 5 | 422 | 235 | 1 | **1.086,70** |
| TA1064090106000 | **60** | 5 | 422 | 235 | 1 | **1.053,41** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta HSS elicoidale TA1066, con attacco cono morse, serie extra-lunga



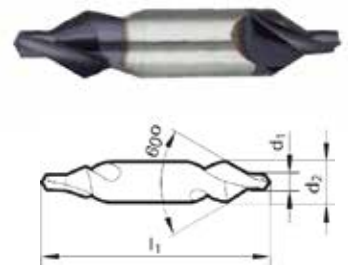

| Codice | d1 | MK | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1066090608000 | **8** | 1 | 265 | 165 | 1 | **47,79** |
| TA1066090608500 | **8,5** | 1 | 265 | 165 | 1 | **46,15** |
| TA1066090609000 | **9** | 1 | 275 | 175 | 1 | **48,78** |
| TA1066090609500 | **9,5** | 1 | 275 | 175 | 1 | **44,30** |
| TA1066090610000 | **10** | 1 | 285 | 185 | 1 | **56,16** |
| TA1066090610500 | **10,5** | 1 | 285 | 185 | 1 | **44,67** |
| TA1066090611000 | **11** | 1 | 300 | 195 | 1 | **96,75** |
| TA1066090611500 | **11,5** | 1 | 300 | 195 | 1 | **64,30** |
| TA1066090612000 | **12** | 1 | 310 | 205 | 1 | **67,18** |
| TA1066090612500 | **12,5** | 1 | 310 | 205 | 1 | **57,51** |
| TA1066090613000 | **13** | 1 | 310 | 205 | 1 | **113,62** |
| TA1066090613500 | **13,5** | 1 | 325 | 220 | 1 | **165,23** |
| TA1066090614000 | **14** | 1 | 325 | 220 | 1 | **165,52** |
| TA1066090614500 | **14,5** | 2 | 340 | 220 | 1 | **64,56** |
| TA1066090615000 | **15** | 2 | 340 | 220 | 1 | **153,61** |
| TA1066090615500 | **15,5** | 2 | 355 | 230 | 1 | **210,16** |
| TA1066090616000 | **16** | 2 | 355 | 230 | 1 | **187,49** |
| TA1066090616500 | **16,5** | 2 | 355 | 230 | 1 | **142,84** |
| TA1066090617000 | **17** | 2 | 355 | 230 | 1 | **155,97** |
| TA1066090617500 | **17,5** | 2 | 370 | 245 | 1 | **168,27** |
| TA1066090618000 | **18** | 2 | 370 | 245 | 1 | **149,53** |
| TA1066090618500 | **18,5** | 2 | 370 | 245 | 1 | **114,76** |
| TA1066090619000 | **19** | 2 | 370 | 245 | 1 | **117,88** |
| TA1066090619500 | **19,5** | 2 | 385 | 260 | 1 | **116,66** |
| TA1066090620000 | **20** | 2 | 385 | 260 | 1 | **256,00** |
| TA1066090621000 | **21** | 2 | 385 | 260 | 1 | **141,13** |
| TA1066090622000 | **22** | 2 | 405 | 270 | 1 | **164,79** |
| TA1066090623000 | **23** | 2 | 405 | 270 | 1 | **190,89** |
| TA1066090624000 | **24** | 3 | 440 | 290 | 1 | **315,12** |
| TA1066090625000 | **25** | 3 | 440 | 290 | 1 | **216,32** |
| TA1066090626000 | **26** | 3 | 440 | 290 | 1 | **522,52** |
| TA1066090627000 | **27** | 3 | 460 | 305 | 1 | **210,78** |
| TA1066090628000 | **28** | 3 | 460 | 305 | 1 | **245,83** |
| TA1066090629000 | **29** | 3 | 460 | 305 | 1 | **289,95** |
| TA1066090630000 | **30** | 3 | 460 | 305 | 1 | **563,45** |

## Punta HSS a centrare TA1065



| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1065090100100 | **1** | 3,15 | 31,5 | 1 | **7,96** |
| TA1065090100125 | **1,25** | 3,15 | 31,5 | 1 | **9,35** |
| TA1065090100160 | **1,6** | 4 | 35,5 | 1 | **7,96** |
| TA1065090100200 | **2** | 5 | 40 | 1 | **7,65** |
| TA1065090100250 | **2,5** | 6,3 | 45 | 1 | **9,06** |
| TA1065090100315 | **3,15** | 8 | 50 | 1 | **12,69** |
| TA1065090100400 | **4** | 10 | 56 | 1 | **18,26** |
| TA1065090100500 | **5** | 12,5 | 63 | 1 | **25,47** |
| TA1065090100630 | **6,3** | 16 | 71 | 1 | **38,34** |
| TA1065090100800 | **8** | 20 | 80 | 1 | **60,56** |
| TA1065090101000 | **10** | 25 | 100 | 1 | **120,07** |

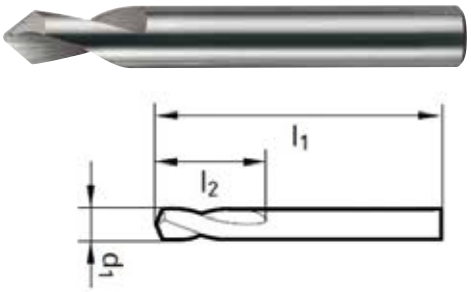
## Punta HSS a centrare TA1069, rivestita TiAIN



| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1069090100100 | **1** | 3,15 | 31,5 | 1 | **12,98** |
| TA1069090100125 | **1,25** | 3,15 | 31,5 | 1 | **14,39** |
| TA1069090100160 | **1,6** | 4 | 35,5 | 1 | **12,98** |
| TA1069090100200 | **2** | 5 | 40 | 1 | **12,69** |
| TA1069090100250 | **2,5** | 6,3 | 45 | 1 | **16,22** |
| TA1069090100315 | **3,15** | 8 | 50 | 1 | **19,85** |
| TA1069090100400 | **4** | 10 | 56 | 1 | **26,75** |
| TA1069090100500 | **5** | 12,5 | 63 | 1 | **35,02** |
| TA1069090100630 | **6,3** | 16 | 71 | 1 | **47,90** |
| TA1069090100800 | **8** | 20 | 80 | 1 | **77,25** |
| TA1069090101000 | **10** | 25 | 100 | 1 | **142,09** |

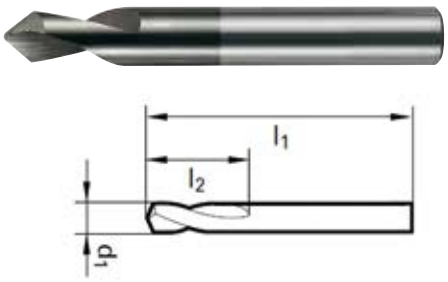
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Punta HSS-Co a centrare TA1067, per centri CN 90°



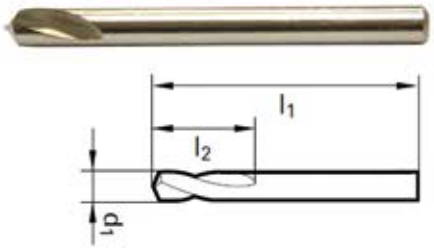

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1067090606000 | **6** | 66 | 19 | 1 | **12,90** |
| TA1067090608000 | **8** | 79 | 23 | 1 | **16,85** |
| TA1067090610000 | **10** | 89 | 26 | 1 | **21,84** |
| TA1067090612000 | **12** | 102 | 31 | 1 | **37,73** |
| TA1067090616000 | **16** | 115 | 34 | 1 | **43,03** |
| TA1067090620000 | **20** | 131 | 38 | 1 | **81,61** |

## Punta HSS-Co a centrare TA1068, per centri CN 90°, rivestita TiAlN




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1068090606000 | **6** | 66 | 19 | 1 | **21,16** |
| TA1068090608000 | **8** | 79 | 23 | 1 | **27,72** |
| TA1068090610000 | **10** | 89 | 26 | 1 | **35,41** |
| TA1068090612000 | **12** | 102 | 31 | 1 | **53,61** |
| TA1068090616000 | **16** | 115 | 34 | 1 | **76,52** |
| TA1068090620000 | **20** | 131 | 38 | 1 | **113,67** |

## Punta HSS-Co a centrare TA1077, per centri CN 120°




| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1077090100300 | **3** | 46 | 12 | 1 | **18,39** |
| TA1077090100400 | **4** | 55 | 12 | 1 | **18,10** |
| TA1077090100500 | **5** | 62 | 14 | 1 | **19,67** |
| TA1077090100600 | **6** | 66 | 16 | 1 | **19,29** |
| TA1077090100800 | **8** | 79 | 21 | 1 | **32,16** |

| Codice | d1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|
| TA1077090101000 | **10** | 89 | 25 | 1 | **36,08** |
| TA1077090101200 | **12** | 102 | 30 | 1 | **52,48** |
| TA1077090101400 | **14** | 107 | 33,5 | 1 | **55,77** |
| TA1077090101600 | **16** | 115 | 37,5 | 1 | **68,24** |
| TA1077090102000 | **20** | 131 | 45 | 1 | **110,24** |

## Punta universale in metallo duro TA1001, rivestita Nano TiAlN, 3xD, non forata







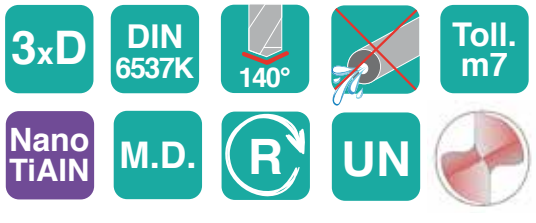
| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1001100100300 | 3 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100310 | 3,1 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100317 | 3,17 | 6 | 62 | 20 | 36 | 1 | a richiesta |
| TA1001100100320 | 3,2 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100325 | 3,25 | 6 | 62 | 20 | 36 | 1 | a richiesta |
| TA1001100100330 | 3,3 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100340 | 3,4 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100350 | 3,5 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100357 | 3,57 | 6 | 62 | 20 | 36 | 1 | a richiesta |
| TA1001100100360 | 3,6 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100370 | 3,7 | 6 | 62 | 20 | 36 | 1 | 36,10 |
| TA1001100100380 | 3,8 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100390 | 3,9 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100397 | 3,97 | 6 | 66 | 24 | 36 | 1 | a richiesta |
| TA1001100100400 | 4 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100410 | 4,1 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100420 | 4,2 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100430 | 4,3 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100437 | 4,37 | 6 | 66 | 24 | 36 | 1 | a richiesta |
| TA1001100100440 | 4,4 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100450 | 4,5 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100460 | 4,6 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100465 | 4,65 | 6 | 66 | 24 | 36 | 1 | a richiesta |
| TA1001100100470 | 4,7 | 6 | 66 | 24 | 36 | 1 | 36,10 |
| TA1001100100476 | 4,76 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1001100100480 | 4,8 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100490 | 4,9 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100500 | 5 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100510 | 5,1 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100516 | 5,16 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1001100100520 | 5,2 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100530 | 5,3 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100540 | 5,4 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100550 | 5,5 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100555 | 5,55 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1001100100556 | 5,56 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1001100100560 | 5,6 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100570 | 5,7 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100580 | 5,8 | 6 | 66 | 28 | 36 | 1 | 36,10 |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1001100100590 | 5,9 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100595 | 5,95 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1001100100600 | 6 | 6 | 66 | 28 | 36 | 1 | 36,10 |
| TA1001100100610 | 6,1 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100620 | 6,2 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100630 | 6,3 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100635 | 6,35 | 8 | 79 | 34 | 36 | 1 | a richiesta |
| TA1001100100640 | 6,4 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100650 | 6,5 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100660 | 6,6 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100670 | 6,7 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100675 | 6,75 | 8 | 79 | 34 | 36 | 1 | a richiesta |
| TA1001100100680 | 6,8 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100690 | 6,9 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100700 | 7 | 8 | 79 | 34 | 36 | 1 | 36,10 |
| TA1001100100710 | 7,1 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100714 | 7,14 | 8 | 79 | 41 | 36 | 1 | a richiesta |
| TA1001100100720 | 7,2 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100730 | 7,3 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100740 | 7,4 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100750 | 7,5 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100754 | 7,54 | 8 | 79 | 41 | 36 | 1 | a richiesta |
| TA1001100100760 | 7,6 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100770 | 7,7 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100780 | 7,8 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100790 | 7,9 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100794 | 7,94 | 8 | 79 | 41 | 36 | 1 | a richiesta |
| TA1001100100800 | 8 | 8 | 79 | 41 | 36 | 1 | 36,10 |
| TA1001100100810 | 8,1 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100820 | 8,2 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100830 | 8,3 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100833 | 8,33 | 10 | 89 | 47 | 40 | 1 | a richiesta |
| TA1001100100840 | 8,4 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100850 | 8,5 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100860 | 8,6 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100870 | 8,7 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100873 | 8,73 | 10 | 89 | 47 | 40 | 1 | a richiesta |
| TA1001100100880 | 8,8 | 10 | 89 | 47 | 40 | 1 | 40,50 |
| TA1001100100890 | 8,9 | 10 | 89 | 47 | 40 | 1 | 40,50 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1001, rivestita Nano TiAlN, 3xD, non forata



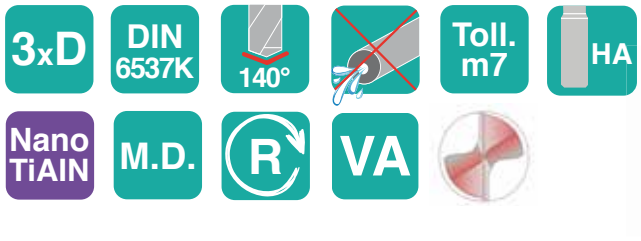


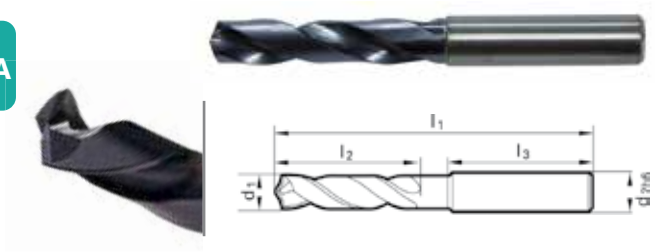


| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1001100100900 | **9** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100910 | **9,1** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100913 | **9,13** | 10 | 89 | 47 | 40 | 1 | **a richiesta** |
| TA1001100100920 | **9,2** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100925 | **9,25** | 10 | 89 | 47 | 40 | 1 | **a richiesta** |
| TA1001100100930 | **9,3** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100940 | **9,4** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100950 | **9,5** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100960 | **9,6** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100970 | **9,7** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100980 | **9,8** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100990 | **9,9** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100100992 | **9,92** | 10 | 89 | 47 | 40 | 1 | **a richiesta** |
| TA1001100101000 | **10** | 10 | 89 | 47 | 40 | 1 | **40,50** |
| TA1001100101010 | **10,1** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101020 | **10,2** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101030 | **10,3** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101040 | **10,4** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101050 | **10,5** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101060 | **10,6** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101070 | **10,7** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101080 | **10,8** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101090 | **10,9** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101100 | **11** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101110 | **11,1** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101111 | **11,11** | 12 | 102 | 55 | 45 | 1 | **a richiesta** |
| TA1001100101120 | **11,2** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101130 | **11,3** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101140 | **11,4** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101150 | **11,5** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101160 | **11,6** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101170 | **11,7** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101180 | **11,8** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101190 | **11,9** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101191 | **11,91** | 12 | 102 | 55 | 45 | 1 | **a richiesta** |
| TA1001100101200 | **12** | 12 | 102 | 55 | 45 | 1 | **60,41** |
| TA1001100101210 | **12,1** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101220 | **12,2** | 14 | 107 | 60 | 45 | 1 | **81,06** |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1001100101230 | **12,3** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101240 | **12,4** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101250 | **12,5** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101260 | **12,6** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101270 | **12,7** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101280 | **12,8** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101290 | **12,9** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101300 | **13** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101310 | **13,1** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101320 | **13,2** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101330 | **13,3** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101340 | **13,4** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101350 | **13,5** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101360 | **13,6** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101370 | **13,7** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101380 | **13,8** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101390 | **13,9** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101400 | **14** | 14 | 107 | 60 | 45 | 1 | **81,06** |
| TA1001100101410 | **14,1** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101420 | **14,2** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101430 | **14,3** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101440 | **14,4** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101450 | **14,5** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101460 | **14,6** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101470 | **14,7** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101480 | **14,8** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101490 | **14,9** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101500 | **15** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101550 | **15,5** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101600 | **16** | 16 | 115 | 65 | 48 | 1 | **104,62** |
| TA1001100101650 | **16,5** | 18 | 123 | 73 | 48 | 1 | **195,34** |
| TA1001100101700 | **17** | 18 | 123 | 73 | 48 | 1 | **195,34** |
| TA1001100101750 | **17,5** | 18 | 123 | 73 | 48 | 1 | **195,34** |
| TA1001100101800 | **18** | 18 | 123 | 73 | 48 | 1 | **195,34** |
| TA1001100101850 | **18,5** | 20 | 131 | 79 | 50 | 1 | **213,08** |
| TA1001100101900 | **19** | 20 | 131 | 79 | 50 | 1 | **213,08** |
| TA1001100101950 | **19,5** | 20 | 131 | 79 | 50 | 1 | **213,08** |
| TA1001100102000 | **20** | 20 | 131 | 79 | 50 | 1 | **213,08** |

## Punta in metallo duro TA1021, rivestita Nano TiAlN, 3xD, non forata, VA specifica per acciaio inox e superleghe



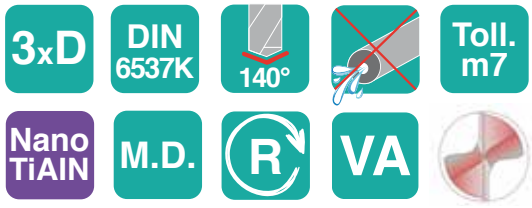

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1021100100300 | 3 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100310 | 3,1 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100320 | 3,2 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100330 | 3,3 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100340 | 3,4 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100350 | 3,5 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100360 | 3,6 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100370 | 3,7 | 6 | 62 | 20 | 36 | 1 | 43,52 |
| TA1021100100380 | 3,8 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100390 | 3,9 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100400 | 4 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100410 | 4,1 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100420 | 4,2 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100430 | 4,3 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100440 | 4,4 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100450 | 4,5 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100460 | 4,6 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100470 | 4,7 | 6 | 66 | 24 | 36 | 1 | 43,52 |
| TA1021100100480 | 4,8 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100490 | 4,9 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100500 | 5 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100510 | 5,1 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100520 | 5,2 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100530 | 5,3 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100540 | 5,4 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100550 | 5,5 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100560 | 5,6 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100570 | 5,7 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100580 | 5,8 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100590 | 5,9 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100600 | 6 | 6 | 66 | 28 | 36 | 1 | 43,52 |
| TA1021100100610 | 6,1 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100620 | 6,2 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100630 | 6,3 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100640 | 6,4 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100650 | 6,5 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100660 | 6,6 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100670 | 6,7 | 8 | 79 | 34 | 36 | 1 | 56,91 |

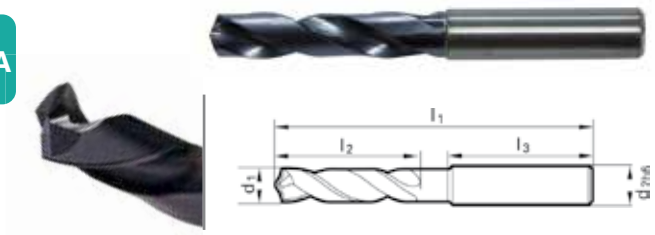
| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1021100100680 | 6,8 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100690 | 6,9 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100700 | 7 | 8 | 79 | 34 | 36 | 1 | 56,91 |
| TA1021100100710 | 7,1 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100720 | 7,2 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100730 | 7,3 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100740 | 7,4 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100750 | 7,5 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100760 | 7,6 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100770 | 7,7 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100780 | 7,8 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100790 | 7,9 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100800 | 8 | 8 | 79 | 41 | 36 | 1 | 56,91 |
| TA1021100100810 | 8,1 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100820 | 8,2 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100830 | 8,3 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100840 | 8,4 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100850 | 8,5 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100860 | 8,6 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100870 | 8,7 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100880 | 8,8 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100890 | 8,9 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100900 | 9 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100910 | 9,1 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100920 | 9,2 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100930 | 9,3 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100940 | 9,4 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100950 | 9,5 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100960 | 9,6 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100970 | 9,7 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100980 | 9,8 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100100990 | 9,9 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100101000 | 10 | 10 | 89 | 47 | 40 | 1 | 75,32 |
| TA1021100101020 | 10,2 | 12 | 102 | 55 | 45 | 1 | 105,45 |
| TA1021100101050 | 10,5 | 12 | 102 | 55 | 45 | 1 | 105,45 |
| TA1021100101080 | 10,8 | 12 | 102 | 55 | 45 | 1 | 105,45 |
| TA1021100101100 | 11 | 12 | 102 | 55 | 45 | 1 | 105,45 |
| TA1021100101150 | 11,5 | 12 | 102 | 55 | 45 | 1 | 105,45 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta in metallo duro TA1021, rivestita Nano TiAlN, 3xD, non forata, VA specifica per acciaio inox e superleghe




| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1021100101180 | **11,8** | 12 | 102 | 55 | 45 | 1 | **105,45** |
| TA1021100101200 | **12** | 12 | 102 | 55 | 45 | 1 | **105,45** |
| TA1021100101250 | **12,5** | 14 | 107 | 60 | 45 | 1 | **132,23** |
| TA1021100101300 | **13** | 14 | 107 | 60 | 45 | 1 | **132,23** |
| TA1021100101350 | **13,5** | 14 | 107 | 60 | 45 | 1 | **132,23** |
| TA1021100101400 | **14** | 14 | 107 | 60 | 45 | 1 | **132,23** |
| TA1021100101450 | **14,5** | 16 | 115 | 65 | 48 | 1 | **180,77** |
| TA1021100101500 | **15** | 16 | 115 | 65 | 48 | 1 | **180,77** |
| TA1021100101550 | **15,5** | 16 | 115 | 65 | 48 | 1 | **180,77** |
| TA1021100101600 | **16** | 16 | 115 | 65 | 48 | 1 | **180,77** |
| TA1021100101650 | **16,5** | 18 | 123 | 73 | 48 | 1 | **271,15** |
| TA1021100101700 | **17** | 18 | 123 | 73 | 48 | 1 | **271,15** |
| TA1021100101750 | **17,5** | 18 | 123 | 73 | 48 | 1 | **271,15** |
| TA1021100101800 | **18** | 18 | 123 | 73 | 48 | 1 | **271,15** |
| TA1021100101850 | **18,5** | 20 | 131 | 79 | 50 | 1 | **294,58** |
| TA1021100101900 | **19** | 20 | 131 | 79 | 50 | 1 | **294,58** |
| TA1021100101950 | **19,5** | 20 | 131 | 79 | 50 | 1 | **294,58** |
| TA1021100102000 | **20** | 20 | 131 | 79 | 50 | 1 | **294,58** |

### Punta universale in metallo duro TA1002, rivestita Nano TiAlN, 3xD, forata







| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100100300 | **3** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100310 | **3,1** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100317 | **3,17** | 6 | 62 | 20 | 1 | **a richiesta** |
| TA1002100100320 | **3,2** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100325 | **3,25** | 6 | 62 | 20 | 1 | **a richiesta** |
| TA1002100100330 | **3,3** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100340 | **3,4** | 6 | 62 | 20 | 1 | **44,78** |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100100350 | **3,5** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100357 | **3,57** | 6 | 62 | 20 | 1 | **a richiesta** |
| TA1002100100360 | **3,6** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100370 | **3,7** | 6 | 62 | 20 | 1 | **44,78** |
| TA1002100100380 | **3,8** | 6 | 66 | 24 | 1 | **44,78** |
| TA1002100100390 | **3,9** | 6 | 66 | 24 | 1 | **44,78** |
| TA1002100100397 | **3,97** | 6 | 66 | 24 | 1 | **a richiesta** |

## Punta universale in metallo duro TA1002, rivestita Nano TiAlN, 3xD, forata







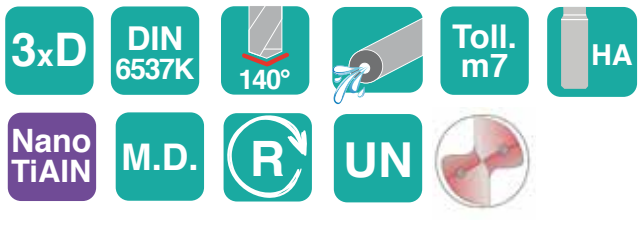
| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100100400 | 4 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100410 | 4,1 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100420 | 4,2 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100430 | 4,3 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100437 | 4,37 | 6 | 66 | 24 | 1 | a richiesta |
| TA1002100100440 | 4,4 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100450 | 4,5 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100460 | 4,6 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100465 | 4,65 | 6 | 66 | 24 | 1 | a richiesta |
| TA1002100100470 | 4,7 | 6 | 66 | 24 | 1 | 48,38 |
| TA1002100100476 | 4,76 | 6 | 66 | 28 | 1 | a richiesta |
| TA1002100100480 | 4,8 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100490 | 4,9 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100500 | 5 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100510 | 5,1 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100516 | 5,16 | 6 | 66 | 28 | 1 | a richiesta |
| TA1002100100520 | 5,2 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100530 | 5,3 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100540 | 5,4 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100550 | 5,5 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100555 | 5,55 | 6 | 66 | 28 | 1 | a richiesta |
| TA1002100100556 | 5,56 | 6 | 66 | 28 | 1 | a richiesta |
| TA1002100100560 | 5,6 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100570 | 5,7 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100580 | 5,8 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100590 | 5,9 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100595 | 5,95 | 6 | 66 | 28 | 1 | a richiesta |
| TA1002100100600 | 6 | 6 | 66 | 28 | 1 | 48,38 |
| TA1002100100610 | 6,1 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100620 | 6,2 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100630 | 6,3 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100635 | 6,35 | 8 | 79 | 34 | 1 | a richiesta |
| TA1002100100640 | 6,4 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100650 | 6,5 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100660 | 6,6 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100670 | 6,7 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100675 | 6,75 | 8 | 79 | 34 | 1 | a richiesta |
| TA1002100100680 | 6,8 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100690 | 6,9 | 8 | 79 | 34 | 1 | 65,74 |
| TA1002100100700 | 7 | 8 | 79 | 34 | 1 | 65,74 |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100100710 | 7,1 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100714 | 7,14 | 8 | 79 | 41 | 1 | a richiesta |
| TA1002100100720 | 7,2 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100730 | 7,3 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100740 | 7,4 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100750 | 7,5 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100754 | 7,54 | 8 | 79 | 41 | 1 | a richiesta |
| TA1002100100760 | 7,6 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100770 | 7,7 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100780 | 7,8 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100790 | 7,9 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100794 | 7,94 | 8 | 79 | 41 | 1 | a richiesta |
| TA1002100100800 | 8 | 8 | 79 | 41 | 1 | 65,74 |
| TA1002100100810 | 8,1 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100820 | 8,2 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100830 | 8,3 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100833 | 8,33 | 10 | 89 | 47 | 1 | a richiesta |
| TA1002100100840 | 8,4 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100850 | 8,5 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100860 | 8,6 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100870 | 8,7 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100873 | 8,73 | 10 | 89 | 47 | 1 | a richiesta |
| TA1002100100880 | 8,8 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100890 | 8,9 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100900 | 9 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100910 | 9,1 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100913 | 9,13 | 10 | 89 | 47 | 1 | a richiesta |
| TA1002100100920 | 9,2 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100925 | 9,25 | 10 | 89 | 47 | 1 | a richiesta |
| TA1002100100930 | 9,3 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100940 | 9,4 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100950 | 9,5 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100960 | 9,6 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100970 | 9,7 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100980 | 9,8 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100990 | 9,9 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100100992 | 9,92 | 10 | 89 | 47 | 1 | a richiesta |
| TA1002100101000 | 10 | 10 | 89 | 47 | 1 | 73,65 |
| TA1002100101010 | 10,1 | 12 | 102 | 55 | 1 | 105,45 |
| TA1002100101020 | 10,2 | 12 | 102 | 55 | 1 | 105,45 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1002, rivestita Nano TiAlN, 3xD, forata



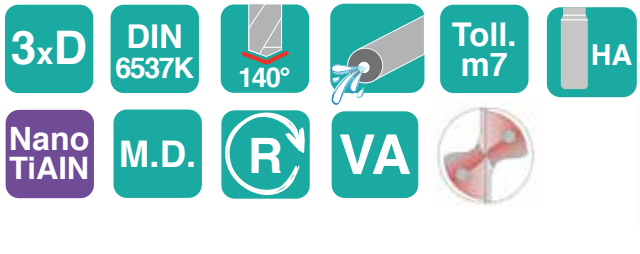




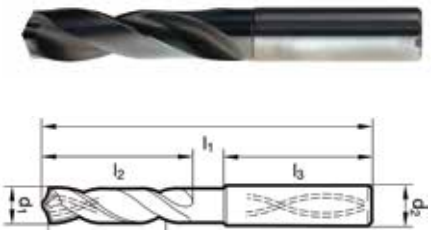
| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100101030 | **10,3** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101032 | **10,32** | 12 | 102 | 55 | 1 | **a richiesta** |
| TA1002100101040 | **10,4** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101050 | **10,5** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101060 | **10,6** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101070 | **10,7** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101080 | **10,8** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101090 | **10,9** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101100 | **11** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101110 | **11,1** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101111 | **11,11** | 12 | 102 | 55 | 1 | **a richiesta** |
| TA1002100101120 | **11,2** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101130 | **11,3** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101140 | **11,4** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101150 | **11,5** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101160 | **11,6** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101170 | **11,7** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101180 | **11,8** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101190 | **11,9** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101191 | **11,91** | 12 | 102 | 55 | 1 | **a richiesta** |
| TA1002100101200 | **12** | 12 | 102 | 55 | 1 | **105,45** |
| TA1002100101210 | **12,1** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101220 | **12,2** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101230 | **12,3** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101240 | **12,4** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101250 | **12,5** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101260 | **12,6** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101270 | **12,7** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101280 | **12,8** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101290 | **12,9** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101300 | **13** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101310 | **13,1** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101320 | **13,2** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101330 | **13,3** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101340 | **13,4** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101350 | **13,5** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101360 | **13,6** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101370 | **13,7** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101380 | **13,8** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101390 | **13,9** | 14 | 107 | 60 | 1 | **147,34** |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1002100101400 | **14** | 14 | 107 | 60 | 1 | **147,34** |
| TA1002100101410 | **14,1** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101420 | **14,2** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101429 | **14,29** | 16 | 115 | 65 | 1 | **a richiesta** |
| TA1002100101430 | **14,3** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101440 | **14,4** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101450 | **14,5** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101460 | **14,6** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101470 | **14,7** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101480 | **14,8** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101490 | **14,9** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101500 | **15** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101550 | **15,5** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101570 | **15,7** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101600 | **16** | 16 | 115 | 65 | 1 | **179,79** |
| TA1002100101650 | **16,5** | 18 | 123 | 73 | 1 | **288,79** |
| TA1002100101700 | **17** | 18 | 123 | 73 | 1 | **288,79** |
| TA1002100101750 | **17,5** | 18 | 123 | 73 | 1 | **288,79** |
| TA1002100101800 | **18** | 18 | 123 | 73 | 1 | **288,79** |
| TA1002100101850 | **18,5** | 20 | 131 | 79 | 1 | **315,62** |
| TA1002100101900 | **19** | 20 | 131 | 79 | 1 | **315,62** |
| TA1002100101950 | **19,5** | 20 | 131 | 79 | 1 | **315,62** |
| TA1002100102000 | **20** | 20 | 131 | 79 | 1 | **315,62** |

## Punta in metallo duro TA1022, rivestita Nano TiAlN, 3xD, forata, VA specifica per acciaio inox e superleghe





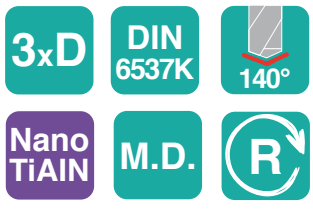

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1022100100300 | 3 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100310 | 3,1 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100320 | 3,2 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100330 | 3,3 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100340 | 3,4 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100350 | 3,5 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100360 | 3,6 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100370 | 3,7 | 6 | 62 | 20 | 36 | 1 | 63,78 |
| TA1022100100380 | 3,8 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100390 | 3,9 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100400 | 4 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100410 | 4,1 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100420 | 4,2 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100430 | 4,3 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100440 | 4,4 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100450 | 4,5 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100460 | 4,6 | 6 | 66 | 24 | 36 | 1 | 63,78 |
| TA1022100100470 | 4,7 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100480 | 4,8 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100490 | 4,9 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100500 | 5 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100510 | 5,1 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100520 | 5,2 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100530 | 5,3 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100540 | 5,4 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100550 | 5,5 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100560 | 5,6 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100570 | 5,7 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100580 | 5,8 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100590 | 5,9 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100600 | 6 | 6 | 66 | 28 | 36 | 1 | 63,78 |
| TA1022100100610 | 6,1 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100620 | 6,2 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100630 | 6,3 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100640 | 6,4 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100650 | 6,5 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100660 | 6,6 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100670 | 6,7 | 8 | 79 | 34 | 36 | 1 | 77,58 |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1022100100680 | 6,8 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100690 | 6,9 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100700 | 7 | 8 | 79 | 34 | 36 | 1 | 77,58 |
| TA1022100100710 | 7,1 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100720 | 7,2 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100730 | 7,3 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100740 | 7,4 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100750 | 7,5 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100760 | 7,6 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100770 | 7,7 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100780 | 7,8 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100790 | 7,9 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100800 | 8 | 8 | 79 | 41 | 36 | 1 | 77,58 |
| TA1022100100810 | 8,1 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100820 | 8,2 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100830 | 8,3 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100840 | 8,4 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100850 | 8,5 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100860 | 8,6 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100870 | 8,7 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100880 | 8,8 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100890 | 8,9 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100900 | 9 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100910 | 9,1 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100920 | 9,2 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100930 | 9,3 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100940 | 9,4 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100950 | 9,5 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100960 | 9,6 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100970 | 9,7 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100980 | 9,8 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100100990 | 9,9 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100101000 | 10 | 10 | 89 | 47 | 40 | 1 | 101,71 |
| TA1022100101010 | 10,1 | 12 | 102 | 55 | 45 | 1 | 136,19 |
| TA1022100101020 | 10,2 | 12 | 102 | 55 | 45 | 1 | 136,19 |
| TA1022100101030 | 10,3 | 12 | 102 | 55 | 45 | 1 | 136,19 |
| TA1022100101040 | 10,4 | 12 | 102 | 55 | 45 | 1 | 136,19 |
| TA1022100101050 | 10,5 | 12 | 102 | 55 | 45 | 1 | 136,19 |

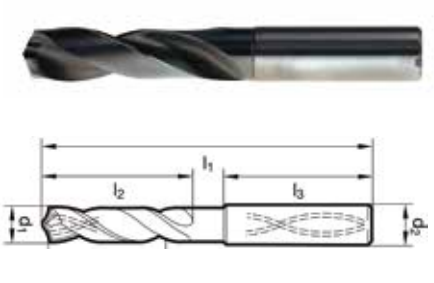
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta in metallo duro TA1022, rivestita Nano TiAlN, 3xD, forata, VA specifica per acciaio inox e superleghe



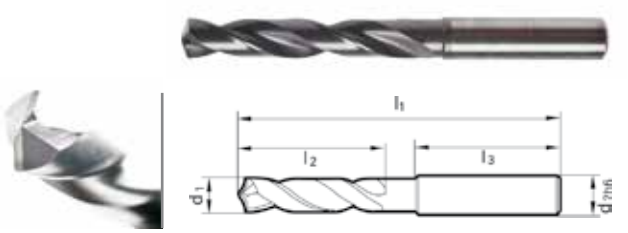



| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1022100101060 | **10,6** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101070 | **10,7** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101080 | **10,8** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101090 | **10,9** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101100 | **11** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101110 | **11,1** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101120 | **11,2** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101140 | **11,4** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101150 | **11,5** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101180 | **11,8** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101200 | **12** | 12 | 102 | 55 | 45 | 1 | **136,19** |
| TA1022100101250 | **12,5** | 14 | 107 | 60 | 45 | 1 | **199,97** |
| TA1022100101300 | **13** | 14 | 107 | 60 | 45 | 1 | **199,97** |
| TA1022100101350 | **13,5** | 14 | 107 | 60 | 45 | 1 | **199,97** |
| TA1022100101400 | **14** | 14 | 107 | 60 | 45 | 1 | **199,97** |
| TA1022100101450 | **14,5** | 16 | 115 | 65 | 48 | 1 | **248,26** |
| TA1022100101500 | **15** | 16 | 115 | 65 | 48 | 1 | **248,26** |
| TA1022100101550 | **15,5** | 16 | 115 | 65 | 48 | 1 | **248,26** |
| TA1022100101600 | **16** | 16 | 115 | 65 | 48 | 1 | **248,26** |
| TA1022100101650 | **16,5** | 18 | 123 | 73 | 48 | 1 | **351,69** |
| TA1022100101700 | **17** | 18 | 123 | 73 | 48 | 1 | **351,69** |
| TA1022100101750 | **17,5** | 18 | 123 | 73 | 48 | 1 | **351,69** |
| TA1022100101800 | **18** | 18 | 123 | 73 | 48 | 1 | **351,69** |
| TA1022100101850 | **18,5** | 20 | 131 | 79 | 50 | 1 | **405,12** |
| TA1022100101900 | **19** | 20 | 131 | 79 | 50 | 1 | **405,12** |
| TA1022100101950 | **19,5** | 20 | 131 | 79 | 50 | 1 | **405,12** |
| TA1022100102000 | **20** | 20 | 131 | 79 | 50 | 1 | **405,12** |

## Punta universale in metallo duro TA1003, rivestita Nano TiAlN, 5xD, non forata



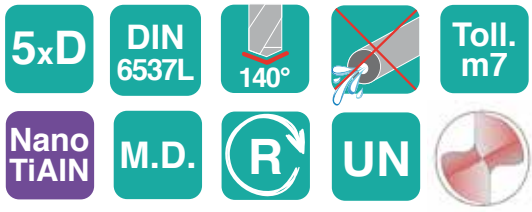

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1003100100300 | 3 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100310 | 3,1 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100317 | 3,17 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1003100100320 | 3,2 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100325 | 3,25 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1003100100330 | 3,3 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100340 | 3,4 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100350 | 3,5 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100357 | 3,57 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1003100100360 | 3,6 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100370 | 3,7 | 6 | 66 | 28 | 36 | 1 | 42,05 |
| TA1003100100380 | 3,8 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100390 | 3,9 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100397 | 3,97 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1003100100400 | 4 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100410 | 4,1 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100420 | 4,2 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100430 | 4,3 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100437 | 4,37 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1003100100440 | 4,4 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100450 | 4,5 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100460 | 4,6 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100465 | 4,65 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1003100100470 | 4,7 | 6 | 74 | 36 | 36 | 1 | 42,05 |
| TA1003100100476 | 4,76 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1003100100480 | 4,8 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100490 | 4,9 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100500 | 5 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100510 | 5,1 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100516 | 5,16 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100520 | 5,2 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100530 | 5,3 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100540 | 5,4 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100550 | 5,5 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100555 | 5,55 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1003100100556 | 5,56 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1003100100560 | 5,6 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100570 | 5,7 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100580 | 5,8 | 6 | 82 | 44 | 36 | 1 | 42,05 |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1003100100590 | 5,9 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100595 | 5,95 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1003100100600 | 6 | 6 | 82 | 44 | 36 | 1 | 42,05 |
| TA1003100100610 | 6,1 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100620 | 6,2 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100630 | 6,3 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100635 | 6,35 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1003100100640 | 6,4 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100650 | 6,5 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100660 | 6,6 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100670 | 6,7 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100675 | 6,75 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1003100100680 | 6,8 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100690 | 6,9 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100700 | 7 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100710 | 7,1 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100714 | 7,14 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1003100100720 | 7,2 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100730 | 7,3 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100740 | 7,4 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100750 | 7,5 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100754 | 7,54 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1003100100760 | 7,6 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100770 | 7,7 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100780 | 7,8 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100790 | 7,9 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100794 | 7,94 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1003100100800 | 8 | 8 | 91 | 53 | 36 | 1 | 42,82 |
| TA1003100100810 | 8,1 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100820 | 8,2 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100830 | 8,3 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100833 | 8,33 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1003100100840 | 8,4 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100850 | 8,5 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100860 | 8,6 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100870 | 8,7 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100873 | 8,73 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1003100100880 | 8,8 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100890 | 8,9 | 10 | 103 | 61 | 40 | 1 | 47,30 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1003, rivestita Nano TiAlN, 5xD, non forata







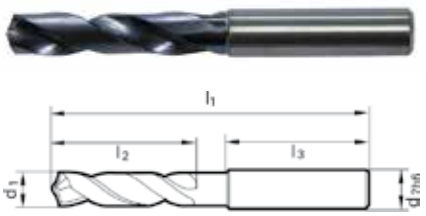
| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1003100100900 | 9 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100910 | 9,1 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100913 | 9,13 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1003100100920 | 9,2 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100925 | 9,25 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1003100100930 | 9,3 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100940 | 9,4 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100950 | 9,5 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100960 | 9,6 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100970 | 9,7 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100980 | 9,8 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100100990 | 9,9 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100101000 | 10 | 10 | 103 | 61 | 40 | 1 | 47,30 |
| TA1003100101010 | 10,1 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101020 | 10,2 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101030 | 10,3 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101040 | 10,4 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101050 | 10,5 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101060 | 10,6 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101070 | 10,7 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101080 | 10,8 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101090 | 10,9 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101100 | 11 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101110 | 11,1 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101111 | 11,11 | 12 | 118 | 71 | 45 | 1 | a richiesta |
| TA1003100101120 | 11,2 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101130 | 11,3 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101140 | 11,4 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101150 | 11,5 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101160 | 11,6 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101170 | 11,7 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101180 | 11,8 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101190 | 11,9 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101200 | 12 | 12 | 118 | 71 | 45 | 1 | 70,61 |
| TA1003100101210 | 12,1 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101220 | 12,2 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101230 | 12,3 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101240 | 12,4 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101250 | 12,5 | 14 | 124 | 77 | 45 | 1 | 93,14 |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1003100101260 | 12,6 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101270 | 12,7 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101280 | 12,8 | 14 | 124 | 77 | 45 | 1 | a richiesta |
| TA1003100101290 | 12,9 | 14 | 124 | 77 | 45 | 1 | a richiesta |
| TA1003100101300 | 13 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101310 | 13,1 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101320 | 13,2 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101330 | 13,3 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101340 | 13,4 | 14 | 124 | 77 | 45 | 1 | a richiesta |
| TA1003100101350 | 13,5 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101360 | 13,6 | 14 | 124 | 77 | 45 | 1 | a richiesta |
| TA1003100101370 | 13,7 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101380 | 13,8 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101390 | 13,9 | 14 | 124 | 77 | 45 | 1 | a richiesta |
| TA1003100101400 | 14 | 14 | 124 | 77 | 45 | 1 | 93,14 |
| TA1003100101410 | 14,1 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101420 | 14,2 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101430 | 14,3 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101440 | 14,4 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101450 | 14,5 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101470 | 14,7 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101480 | 14,8 | 16 | 133 | 83 | 48 | 1 | a richiesta |
| TA1003100101490 | 14,9 | 16 | 133 | 83 | 48 | 1 | a richiesta |
| TA1003100101500 | 15 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101550 | 15,5 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101570 | 15,7 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101600 | 16 | 16 | 133 | 83 | 48 | 1 | 120,95 |
| TA1003100101650 | 16,5 | 18 | 143 | 93 | 48 | 1 | 211,38 |
| TA1003100101700 | 17 | 18 | 143 | 93 | 48 | 1 | 211,38 |
| TA1003100101750 | 17,5 | 18 | 143 | 93 | 48 | 1 | 211,38 |
| TA1003100101800 | 18 | 18 | 143 | 93 | 48 | 1 | 211,38 |
| TA1003100101850 | 18,5 | 20 | 153 | 101 | 50 | 1 | 229,41 |
| TA1003100101900 | 19 | 20 | 153 | 101 | 50 | 1 | 229,41 |
| TA1003100101950 | 19,5 | 20 | 153 | 101 | 50 | 1 | 229,41 |
| TA1003100102000 | 20 | 20 | 153 | 101 | 50 | 1 | 229,41 |

## Punta in metallo duro TA1023, rivestita Nano TiAlN, 5xD, non forata, VA specifica per acciaio inox e superleghe






| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1023100100300 | 3 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100310 | 3,1 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100320 | 3,2 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100330 | 3,3 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100340 | 3,4 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100350 | 3,5 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100360 | 3,6 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100370 | 3,7 | 6 | 66 | 28 | 36 | 1 | 55,16 |
| TA1023100100380 | 3,8 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100390 | 3,9 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100400 | 4 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100410 | 4,1 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100420 | 4,2 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100430 | 4,3 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100440 | 4,4 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100450 | 4,5 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100460 | 4,6 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100470 | 4,7 | 6 | 74 | 36 | 36 | 1 | 55,16 |
| TA1023100100480 | 4,8 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100490 | 4,9 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100500 | 5 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100510 | 5,1 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100520 | 5,2 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100530 | 5,3 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100540 | 5,4 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100550 | 5,5 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100560 | 5,6 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100570 | 5,7 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100580 | 5,8 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100590 | 5,9 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100600 | 6 | 6 | 82 | 44 | 36 | 1 | 55,16 |
| TA1023100100610 | 6,1 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100620 | 6,2 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100630 | 6,3 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100640 | 6,4 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100650 | 6,5 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100660 | 6,6 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100670 | 6,7 | 8 | 91 | 53 | 36 | 1 | 67,23 |

| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1023100100680 | 6,8 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100690 | 6,9 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100700 | 7 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100710 | 7,1 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100720 | 7,2 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100730 | 7,3 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100740 | 7,4 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100750 | 7,5 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100760 | 7,6 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100770 | 7,7 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100780 | 7,8 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100790 | 7,9 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100800 | 8 | 8 | 91 | 53 | 36 | 1 | 67,23 |
| TA1023100100810 | 8,1 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100820 | 8,2 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100830 | 8,3 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100840 | 8,4 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100850 | 8,5 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100860 | 8,6 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100870 | 8,7 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100880 | 8,8 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100890 | 8,9 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100900 | 9 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100910 | 9,1 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100920 | 9,2 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100930 | 9,3 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100940 | 9,4 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100950 | 9,5 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100960 | 9,6 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100970 | 9,7 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100980 | 9,8 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100100990 | 9,9 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100101000 | 10 | 10 | 103 | 61 | 40 | 1 | 81,04 |
| TA1023100101020 | 10,2 | 12 | 118 | 71 | 45 | 1 | 117,24 |
| TA1023100101050 | 10,5 | 12 | 118 | 71 | 45 | 1 | 117,24 |
| TA1023100101080 | 10,8 | 12 | 118 | 71 | 45 | 1 | 117,24 |
| TA1023100101100 | 11 | 12 | 118 | 71 | 45 | 1 | 117,24 |
| TA1023100101150 | 11,5 | 12 | 118 | 71 | 45 | 1 | 117,24 |

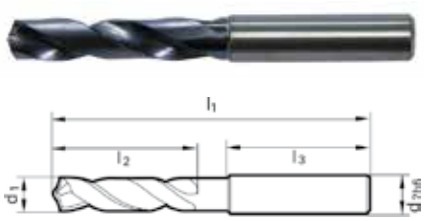
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

**Punta in metallo duro TA1023, rivestita Nano TiAlN, 5xD, non forata, VA specifica per acciaio inox e superleghe**



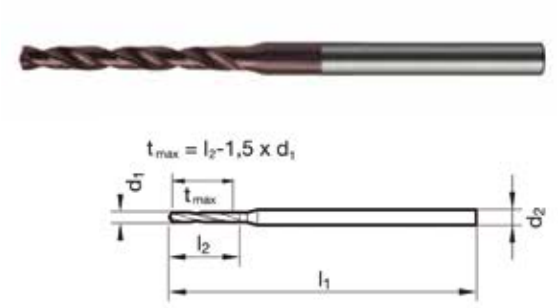



| Codice | d1 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1023100101180 | **11,8** | 12 | 118 | 71 | 45 | 1 | **117,24** |
| TA1023100101200 | **12** | 14 | 118 | 71 | 45 | 1 | **117,24** |
| TA1023100101250 | **12,5** | 14 | 124 | 77 | 45 | 1 | **151,72** |
| TA1023100101300 | **13** | 14 | 124 | 77 | 45 | 1 | **151,72** |
| TA1023100101350 | **13,5** | 14 | 124 | 77 | 45 | 1 | **151,72** |
| TA1023100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **151,72** |
| TA1023100101450 | **14,5** | 16 | 133 | 83 | 48 | 1 | **206,88** |
| TA1023100101500 | **15** | 16 | 133 | 83 | 48 | 1 | **206,88** |
| TA1023100101550 | **15,5** | 16 | 133 | 83 | 48 | 1 | **206,88** |
| TA1023100101600 | **16** | 16 | 133 | 83 | 48 | 1 | **206,88** |
| TA1023100101650 | **16,5** | 18 | 143 | 93 | 48 | 1 | **306,86** |
| TA1023100101700 | **17** | 18 | 143 | 93 | 48 | 1 | **306,86** |
| TA1023100101750 | **17,5** | 18 | 143 | 93 | 48 | 1 | **306,86** |
| TA1023100101800 | **18** | 18 | 143 | 93 | 48 | 1 | **306,86** |
| TA1023100101850 | **18,5** | 20 | 153 | 101 | 50 | 1 | **353,42** |
| TA1023100101900 | **19** | 20 | 153 | 101 | 50 | 1 | **353,42** |
| TA1023100101950 | **19,5** | 20 | 153 | 101 | 50 | 1 | **353,42** |
| TA1023100102000 | **20** | 20 | 153 | 101 | 50 | 1 | **353,42** |

## Micropunta universale in metallo duro TA1007, rivestita Nano TiaIN, 4xD, non forata



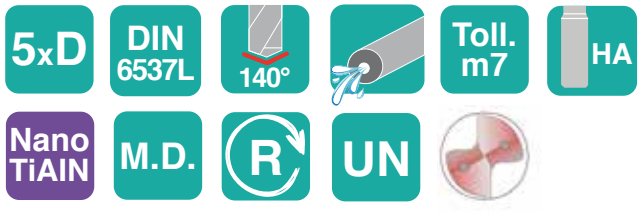



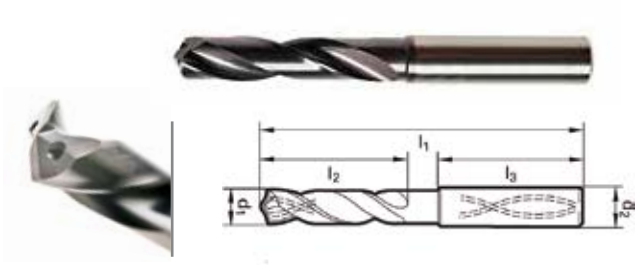

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1007100200010 | **0,1** | 3 | 38 | 1,2 | 1 | **26,28** |
| TA1007100200020 | **0,2** | 3 | 38 | 2,5 | 1 | **27,95** |
| TA1007100200030 | **0,3** | 3 | 38 | 5 | 1 | **30,63** |
| TA1007100200040 | **0,4** | 3 | 38 | 7 | 1 | **34,31** |
| TA1007100200050 | **0,5** | 3 | 38 | 7 | 1 | **33,48** |
| TA1007100200060 | **0,6** | 3 | 38 | 7 | 1 | **30,63** |
| TA1007100200070 | **0,7** | 3 | 38 | 8 | 1 | **28,45** |
| TA1007100200080 | **0,8** | 3 | 38 | 10 | 1 | **29,12** |
| TA1007100200090 | **0,9** | 3 | 38 | 10 | 1 | **32,81** |
| TA1007100200100 | **1** | 3 | 38 | 10 | 1 | **29,79** |
| TA1007100200110 | **1,1** | 3 | 38 | 10 | 1 | **29,79** |
| TA1007100200120 | **1,2** | 3 | 38 | 10 | 1 | **32,81** |
| TA1007100200130 | **1,3** | 3 | 38 | 10 | 1 | **32,81** |
| TA1007100200140 | **1,4** | 3 | 38 | 10 | 1 | **32,81** |
| TA1007100200150 | **1,5** | 3 | 38 | 10 | 1 | **32,81** |
| TA1007100200160 | **1,6** | 3 | 38 | 12 | 1 | **33,48** |
| TA1007100200170 | **1,7** | 3 | 38 | 12 | 1 | **33,48** |
| TA1007100200180 | **1,8** | 3 | 38 | 12 | 1 | **29,79** |
| TA1007100200190 | **1,9** | 3 | 38 | 12 | 1 | **33,48** |
| TA1007100200200 | **2** | 3 | 38 | 12 | 1 | **32,81** |
| TA1007100200210 | **2,1** | 3 | 38 | 12 | 1 | **29,79** |
| TA1007100200220 | **2,2** | 3 | 38 | 12 | 1 | **30,63** |
| TA1007100200240 | **2,4** | 3 | 38 | 12 | 1 | **29,12** |
| TA1007100200250 | **2,5** | 3 | 38 | 12 | 1 | **29,79** |
| TA1007100200260 | **2,6** | 3 | 38 | 12 | 1 | **32,81** |
| TA1007100200280 | **2,8** | 3 | 38 | 12 | 1 | **35,99** |
| TA1007100200300 | **3** | 3 | 38 | 12 | 1 | **29,79** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1004, rivestita Nano TiAlN, 5xD, forata



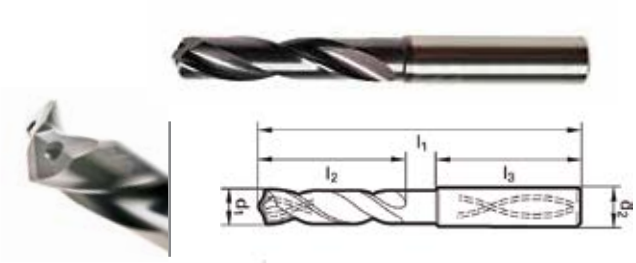




| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1004100100300 | 3 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100310 | 3,1 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100317 | 3,17 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1004100100320 | 3,2 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100325 | 3,25 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1004100100330 | 3,3 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100340 | 3,4 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100350 | 3,5 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100357 | 3,57 | 6 | 66 | 28 | 36 | 1 | a richiesta |
| TA1004100100360 | 3,6 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100370 | 3,7 | 6 | 66 | 28 | 36 | 1 | 57,78 |
| TA1004100100380 | 3,8 | 6 | 74 | 36 | 36 | 1 | 57,78 |
| TA1004100100390 | 3,9 | 6 | 74 | 36 | 36 | 1 | 57,78 |
| TA1004100100397 | 3,97 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1004100100400 | 4 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100410 | 4,1 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100420 | 4,2 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100430 | 4,3 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100437 | 4,37 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1004100100440 | 4,4 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100450 | 4,5 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100460 | 4,6 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100465 | 4,65 | 6 | 74 | 36 | 36 | 1 | a richiesta |
| TA1004100100470 | 4,7 | 6 | 74 | 36 | 36 | 1 | 62,11 |
| TA1004100100476 | 4,76 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1004100100480 | 4,8 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100490 | 4,9 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100500 | 5 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100510 | 5,1 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100516 | 5,16 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1004100100520 | 5,2 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100530 | 5,3 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100540 | 5,4 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100550 | 5,5 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100555 | 5,55 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1004100100556 | 5,56 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1004100100560 | 5,6 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100570 | 5,7 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100580 | 5,8 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100590 | 5,9 | 6 | 82 | 44 | 36 | 1 | 62,11 |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1004100100595 | 5,95 | 6 | 82 | 44 | 36 | 1 | a richiesta |
| TA1004100100600 | 6 | 6 | 82 | 44 | 36 | 1 | 62,11 |
| TA1004100100610 | 6,1 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100620 | 6,2 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100630 | 6,3 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100635 | 6,35 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1004100100640 | 6,4 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100650 | 6,5 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100660 | 6,6 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100670 | 6,7 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100675 | 6,75 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1004100100680 | 6,8 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100690 | 6,9 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100700 | 7 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100710 | 7,1 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100714 | 7,14 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1004100100720 | 7,2 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100730 | 7,3 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100740 | 7,4 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100750 | 7,5 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100754 | 7,54 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1004100100760 | 7,6 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100770 | 7,7 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100780 | 7,8 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100790 | 7,9 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100794 | 7,94 | 8 | 91 | 53 | 36 | 1 | a richiesta |
| TA1004100100800 | 8 | 8 | 91 | 53 | 36 | 1 | 68,62 |
| TA1004100100810 | 8,1 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100820 | 8,2 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100830 | 8,3 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100833 | 8,33 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1004100100840 | 8,4 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100850 | 8,5 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100860 | 8,6 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100870 | 8,7 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100873 | 8,73 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1004100100880 | 8,8 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100890 | 8,9 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100900 | 9 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100910 | 9,1 | 10 | 103 | 61 | 40 | 1 | 78,72 |

## Punta universale in metallo duro TA1004, rivestita Nano TiAlN, 5xD, forata




| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1004100100913 | 9,13 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1004100100920 | 9,2 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100925 | 9,25 | 10 | 103 | 61 | 40 | 1 | a richiesta |
| TA1004100100930 | 9,3 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100940 | 9,4 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100950 | 9,5 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100960 | 9,6 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100970 | 9,7 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100980 | 9,8 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100100990 | 9,9 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100101000 | 10 | 10 | 103 | 61 | 40 | 1 | 78,72 |
| TA1004100101010 | 10,1 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101020 | 10,2 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101030 | 10,3 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101032 | 10,32 | 12 | 118 | 71 | 45 | 1 | a richiesta |
| TA1004100101040 | 10,4 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101050 | 10,5 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101060 | 10,6 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101070 | 10,7 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101080 | 10,8 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101090 | 10,9 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101100 | 11 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101110 | 11,1 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101111 | 11,11 | 12 | 118 | 71 | 45 | 1 | a richiesta |
| TA1004100101120 | 11,2 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101130 | 11,3 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101140 | 11,4 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101150 | 11,5 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101160 | 11,6 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101170 | 11,7 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101180 | 11,8 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101190 | 11,9 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101191 | 11,91 | 12 | 118 | 71 | 45 | 1 | a richiesta |
| TA1004100101200 | 12 | 12 | 118 | 71 | 45 | 1 | 114,85 |
| TA1004100101210 | 12,1 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101220 | 12,2 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101230 | 12,3 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101240 | 12,4 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101250 | 12,5 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101260 | 12,6 | 14 | 124 | 77 | 45 | 1 | 154,58 |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1004100101270 | 12,7 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101280 | 12,8 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101290 | 12,9 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101300 | 13 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101310 | 13,1 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101320 | 13,2 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101330 | 13,3 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101340 | 13,4 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101350 | 13,5 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101360 | 13,6 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101370 | 13,7 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101380 | 13,8 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101390 | 13,9 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101400 | 14 | 14 | 124 | 77 | 45 | 1 | 154,58 |
| TA1004100101410 | 14,1 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101420 | 14,2 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101429 | 14,29 | 16 | 133 | 83 | 48 | 1 | a richiesta |
| TA1004100101430 | 14,3 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101440 | 14,4 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101450 | 14,5 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101460 | 14,6 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101470 | 14,7 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101480 | 14,8 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101490 | 14,9 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101500 | 15 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101520 | 15,2 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101550 | 15,5 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101570 | 15,7 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101600 | 16 | 16 | 133 | 83 | 48 | 1 | 190,70 |
| TA1004100101650 | 16,5 | 18 | 143 | 93 | 48 | 1 | 305,42 |
| TA1004100101700 | 17 | 18 | 143 | 93 | 48 | 1 | 305,42 |
| TA1004100101750 | 17,5 | 18 | 143 | 93 | 48 | 1 | 305,42 |
| TA1004100101800 | 18 | 18 | 143 | 93 | 48 | 1 | 305,42 |
| TA1004100101850 | 18,5 | 20 | 153 | 101 | 50 | 1 | 332,12 |
| TA1004100101900 | 19 | 20 | 153 | 101 | 50 | 1 | 332,12 |
| TA1004100101950 | 19,5 | 20 | 153 | 101 | 50 | 1 | 332,12 |
| TA1004100102000 | 20 | 20 | 153 | 101 | 50 | 1 | 332,12 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta in metallo duro TA1024, rivestita Nano TiAlN, 5xD, forata, VA specifica per acciaio inox e superleghe

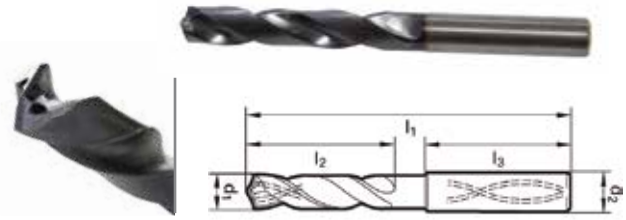



| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1024100100300 | **3** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100310 | **3,1** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100320 | **3,2** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100330 | **3,3** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100340 | **3,4** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100350 | **3,5** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100360 | **3,6** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100370 | **3,7** | 6 | 66 | 28 | 36 | 1 | **76,99** |
| TA1024100100380 | **3,8** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100390 | **3,9** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100400 | **4** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100410 | **4,1** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100420 | **4,2** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100430 | **4,3** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100440 | **4,4** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100450 | **4,5** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100460 | **4,6** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100470 | **4,7** | 6 | 74 | 36 | 36 | 1 | **76,99** |
| TA1024100100480 | **4,8** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100490 | **4,9** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100500 | **5** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100510 | **5,1** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100520 | **5,2** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100530 | **5,3** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100540 | **5,4** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100550 | **5,5** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100560 | **5,6** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100570 | **5,7** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100580 | **5,8** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100590 | **5,9** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100600 | **6** | 6 | 82 | 44 | 36 | 1 | **76,99** |
| TA1024100100610 | **6,1** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100620 | **6,2** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100630 | **6,3** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100640 | **6,4** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100650 | **6,5** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100660 | **6,6** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100670 | **6,7** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100680 | **6,8** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100690 | **6,9** | 8 | 91 | 53 | 36 | 1 | **87,04** |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1024100100700 | **7** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100710 | **7,1** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100720 | **7,2** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100730 | **7,3** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100740 | **7,4** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100750 | **7,5** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100760 | **7,6** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100770 | **7,7** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100780 | **7,8** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100790 | **7,9** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100800 | **8** | 8 | 91 | 53 | 36 | 1 | **87,04** |
| TA1024100100810 | **8,1** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100820 | **8,2** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100830 | **8,3** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100840 | **8,4** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100850 | **8,5** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100860 | **8,6** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100870 | **8,7** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100880 | **8,8** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100890 | **8,9** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100900 | **9** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100910 | **9,1** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100920 | **9,2** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100930 | **9,3** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100940 | **9,4** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100950 | **9,5** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100960 | **9,6** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100970 | **9,7** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100980 | **9,8** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100100990 | **9,9** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100101000 | **10** | 10 | 103 | 61 | 40 | 1 | **103,77** |
| TA1024100101010 | **10,1** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101020 | **10,2** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101030 | **10,3** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101040 | **10,4** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101050 | **10,5** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101060 | **10,6** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101070 | **10,7** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101080 | **10,8** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101090 | **10,9** | 12 | 118 | 71 | 45 | 1 | **152,31** |

## Punta in metallo duro TA1024, rivestita Nano TiAlN, 5xD, forata, VA specifica per acciaio inox e superleghe



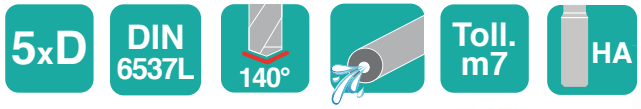




| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1024100101100 | **11** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101110 | **11,1** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101120 | **11,2** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101140 | **11,4** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101150 | **11,5** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101180 | **11,8** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101200 | **12** | 12 | 118 | 71 | 45 | 1 | **152,31** |
| TA1024100101250 | **12,5** | 14 | 124 | 77 | 45 | 1 | **202,52** |
| TA1024100101300 | **13** | 14 | 124 | 77 | 45 | 1 | **202,52** |
| TA1024100101350 | **13,5** | 14 | 124 | 77 | 45 | 1 | **202,52** |
| TA1024100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **202,52** |
| TA1024100101450 | **14,5** | 16 | 133 | 83 | 48 | 1 | **247,72** |
| TA1024100101500 | **15** | 16 | 133 | 83 | 48 | 1 | **247,72** |
| TA1024100101550 | **15,5** | 16 | 133 | 83 | 48 | 1 | **247,72** |
| TA1024100101600 | **16** | 16 | 133 | 83 | 48 | 1 | **247,72** |
| TA1024100101650 | **16,5** | 18 | 143 | 93 | 48 | 1 | **353,16** |
| TA1024100101700 | **17** | 18 | 143 | 93 | 48 | 1 | **353,16** |
| TA1024100101750 | **17,5** | 18 | 143 | 93 | 48 | 1 | **353,16** |
| TA1024100101800 | **18** | 18 | 143 | 93 | 48 | 1 | **353,16** |
| TA1024100101850 | **18,5** | 20 | 153 | 101 | 50 | 1 | **421,79** |
| TA1024100101900 | **19** | 20 | 153 | 101 | 50 | 1 | **421,79** |
| TA1024100101950 | **19,5** | 20 | 153 | 101 | 50 | 1 | **421,79** |
| TA1024100102000 | **20** | 20 | 153 | 101 | 50 | 1 | **421,79** |

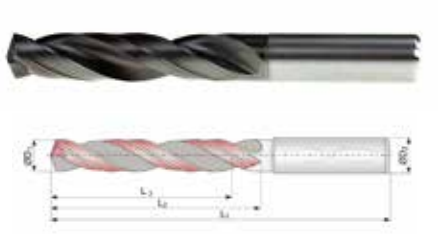
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta in metallo duro di alta qualità TA1044, con 4 pattini di guida, rivestita Nano TiAlN, 5xD, forata





| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1044100100300 | 3 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100310 | 3,1 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100320 | 3,2 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100330 | 3,3 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100340 | 3,4 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100350 | 3,5 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100360 | 3,6 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100370 | 3,7 | 6 | 66 | 28 | 36 | 1 | 87,91 |
| TA1044100100380 | 3,8 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100390 | 3,9 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100400 | 4 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100410 | 4,1 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100420 | 4,2 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100430 | 4,3 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100440 | 4,4 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100450 | 4,5 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100460 | 4,6 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100470 | 4,7 | 6 | 74 | 36 | 36 | 1 | 87,91 |
| TA1044100100480 | 4,8 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100490 | 4,9 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100500 | 5 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100510 | 5,1 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100520 | 5,2 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100530 | 5,3 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100540 | 5,4 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100550 | 5,5 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100560 | 5,6 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100570 | 5,7 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100580 | 5,8 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100590 | 5,9 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100600 | 6 | 6 | 82 | 44 | 36 | 1 | 87,91 |
| TA1044100100610 | 6,1 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100620 | 6,2 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100630 | 6,3 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100640 | 6,4 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100650 | 6,5 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100660 | 6,6 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100670 | 6,7 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100680 | 6,8 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100690 | 6,9 | 8 | 91 | 53 | 36 | 1 | 99,99 |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1044100100700 | 7 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100710 | 7,1 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100720 | 7,2 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100730 | 7,3 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100740 | 7,4 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100750 | 7,5 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100760 | 7,6 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100770 | 7,7 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100780 | 7,8 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100790 | 7,9 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100800 | 8 | 8 | 91 | 53 | 36 | 1 | 99,99 |
| TA1044100100810 | 8,1 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100820 | 8,2 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100830 | 8,3 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100840 | 8,4 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100850 | 8,5 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100860 | 8,6 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100870 | 8,7 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100880 | 8,8 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100890 | 8,9 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100900 | 9 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100910 | 9,1 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100920 | 9,2 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100930 | 9,3 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100940 | 9,4 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100950 | 9,5 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100960 | 9,6 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100970 | 9,7 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100980 | 9,8 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100100990 | 9,9 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100101000 | 10 | 10 | 103 | 61 | 40 | 1 | 118,97 |
| TA1044100101020 | 10,2 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101050 | 10,5 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101080 | 10,8 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101100 | 11 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101150 | 11,5 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101180 | 11,8 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101200 | 12 | 12 | 118 | 71 | 45 | 1 | 174,12 |
| TA1044100101250 | 12,5 | 14 | 124 | 77 | 45 | 1 | 231,00 |
| TA1044100101300 | 13 | 14 | 124 | 77 | 45 | 1 | 231,00 |

## Punta in metallo duro di alta qualità TA1044, con 4 pattini di guida, rivestita Nano TiAlN, 5xD, forata






| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1044100101350 | **13,5** | 14 | 124 | 77 | 45 | 1 | **231,00** |
| TA1044100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **231,00** |
| TA1044100101450 | **14,5** | 16 | 133 | 83 | 48 | 1 | **279,28** |
| TA1044100101500 | **15** | 16 | 133 | 83 | 48 | 1 | **279,28** |
| TA1044100101550 | **15,5** | 16 | 133 | 83 | 48 | 1 | **279,28** |
| TA1044100101600 | **16** | 18 | 133 | 83 | 48 | 1 | **279,28** |
| TA1044100101650 | **16,5** | 18 | 143 | 93 | 48 | 1 | **377,55** |
| TA1044100101700 | **17** | 18 | 143 | 93 | 48 | 1 | **377,55** |
| TA1044100101750 | **17,5** | 18 | 143 | 93 | 48 | 1 | **377,55** |
| TA1044100101800 | **18** | 18 | 143 | 93 | 48 | 1 | **377,55** |
| TA1044100101850 | **18,5** | 20 | 153 | 101 | 50 | 1 | **474,08** |
| TA1044100101900 | **19** | 20 | 153 | 101 | 50 | 1 | **474,08** |
| TA1044100101950 | **19,5** | 20 | 153 | 101 | 50 | 1 | **474,08** |
| TA1044100102000 | **20** | 20 | 153 | 101 | 50 | 1 | **474,08** |

## Punta in metallo duro ad alte prestazioni TA1040, con 4 pattini di guida, lappata, non rivestita, 5xD, forata, specifica per alluminio






| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1040100100300 | **3** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100310 | **3,1** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100320 | **3,2** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100330 | **3,3** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100340 | **3,4** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100350 | **3,5** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100360 | **3,6** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100370 | **3,7** | 6 | 66 | 28 | 36 | 1 | **85,36** |
| TA1040100100380 | **3,8** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100390 | **3,9** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100400 | **4** | 6 | 74 | 36 | 36 | 1 | **85,36** |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1040100100410 | **4,1** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100420 | **4,2** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100430 | **4,3** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100440 | **4,4** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100450 | **4,5** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100460 | **4,6** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100470 | **4,7** | 6 | 74 | 36 | 36 | 1 | **85,36** |
| TA1040100100480 | **4,8** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100490 | **4,9** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100500 | **5** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100510 | **5,1** | 6 | 82 | 44 | 36 | 1 | **85,36** |

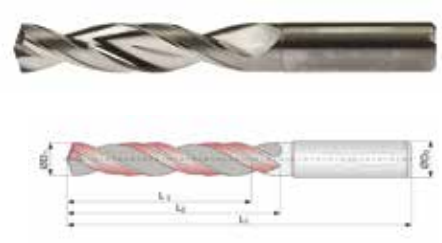
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

**Punta in metallo duro ad alte prestazioni TA1040, con 4 pattini di guida, lappata, non rivestita, 5xD, forata, specifica per alluminio**





| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1040100100520 | **5,2** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100530 | **5,3** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100540 | **5,4** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100550 | **5,5** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100560 | **5,6** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100570 | **5,7** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100580 | **5,8** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100590 | **5,9** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100600 | **6** | 6 | 82 | 44 | 36 | 1 | **85,36** |
| TA1040100100610 | **6,1** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100620 | **6,2** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100630 | **6,3** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100640 | **6,4** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100650 | **6,5** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100660 | **6,6** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100670 | **6,7** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100680 | **6,8** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100690 | **6,9** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100700 | **7** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100710 | **7,1** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100720 | **7,2** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100730 | **7,3** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100740 | **7,4** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100750 | **7,5** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100760 | **7,6** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100770 | **7,7** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100780 | **7,8** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100790 | **7,9** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100800 | **8** | 8 | 91 | 53 | 36 | 1 | **97,08** |
| TA1040100100810 | **8,1** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100820 | **8,2** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100830 | **8,3** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100840 | **8,4** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100850 | **8,5** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100860 | **8,6** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100870 | **8,7** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100880 | **8,8** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100890 | **8,9** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100900 | **9** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100910 | **9,1** | 10 | 103 | 61 | 40 | 1 | **115,49** |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1040100100920 | **9,2** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100930 | **9,3** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100940 | **9,4** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100950 | **9,5** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100960 | **9,6** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100970 | **9,7** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100980 | **9,8** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100100990 | **9,9** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100101000 | **10** | 10 | 103 | 61 | 40 | 1 | **115,49** |
| TA1040100101020 | **10,2** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101050 | **10,5** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101080 | **10,8** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101100 | **11** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101150 | **11,5** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101180 | **11,8** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101200 | **12** | 12 | 118 | 71 | 45 | 1 | **169,05** |
| TA1040100101250 | **12,5** | 14 | 124 | 77 | 45 | 1 | **224,28** |
| TA1040100101300 | **13** | 14 | 124 | 77 | 45 | 1 | **224,28** |
| TA1040100101350 | **13,5** | 14 | 124 | 77 | 45 | 1 | **224,28** |
| TA1040100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **224,28** |
| TA1040100101450 | **14,5** | 16 | 133 | 83 | 48 | 1 | **271,15** |
| TA1040100101500 | **15** | 16 | 133 | 83 | 48 | 1 | **271,15** |
| TA1040100101550 | **15,5** | 16 | 133 | 83 | 48 | 1 | **271,15** |
| TA1040100101600 | **16** | 16 | 133 | 83 | 48 | 1 | **271,15** |
| TA1040100101650 | **16,5** | 18 | 143 | 93 | 48 | 1 | **366,55** |
| TA1040100101700 | **17** | 18 | 143 | 93 | 48 | 1 | **366,55** |
| TA1040100101750 | **17,5** | 18 | 143 | 93 | 48 | 1 | **366,55** |
| TA1040100101800 | **18** | 18 | 143 | 93 | 48 | 1 | **366,55** |
| TA1040100101850 | **18,5** | 20 | 153 | 101 | 50 | 1 | **460,28** |
| TA1040100101900 | **19** | 20 | 153 | 101 | 50 | 1 | **460,28** |
| TA1040100101950 | **19,5** | 20 | 153 | 101 | 50 | 1 | **460,28** |
| TA1040100102000 | **20** | 20 | 153 | 101 | 50 | 1 | **460,28** |

## Punta in metallo duro ad alte prestazioni TA1046, con 6 pattini di guida e nocciolo centrale ottimizzato, rivestita Top TiAlN, 5xD, forata



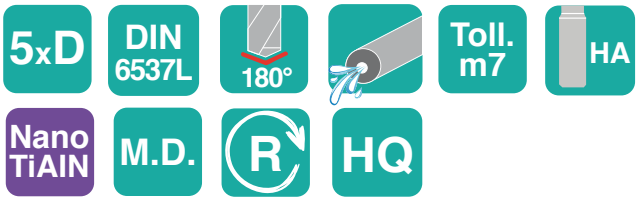



| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1046100100500 | **5** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100510 | **5,1** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100520 | **5,2** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100530 | **5,3** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100540 | **5,4** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100550 | **5,5** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100560 | **5,6** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100570 | **5,7** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100580 | **5,8** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100590 | **5,9** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100600 | **6** | 6 | 82 | 44 | 36 | 1 | **98,26** |
| TA1046100100610 | **6,1** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100620 | **6,2** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100630 | **6,3** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100640 | **6,4** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100650 | **6,5** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100660 | **6,6** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100670 | **6,7** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100680 | **6,8** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100690 | **6,9** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100700 | **7** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100710 | **7,1** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100720 | **7,2** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100730 | **7,3** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100740 | **7,4** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100750 | **7,5** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100760 | **7,6** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100770 | **7,7** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100780 | **7,8** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100790 | **7,9** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100800 | **8** | 8 | 91 | 53 | 36 | 1 | **112,06** |
| TA1046100100810 | **8,1** | 10 | 103 | 61 | 36 | 1 | **162,04** |
| TA1046100100820 | **8,2** | 10 | 103 | 61 | 36 | 1 | **162,04** |
| TA1046100100830 | **8,3** | 10 | 103 | 61 | 36 | 1 | **162,04** |
| TA1046100100840 | **8,4** | 10 | 103 | 61 | 36 | 1 | **162,04** |
| TA1046100100850 | **8,5** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100860 | **8,6** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100870 | **8,7** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100880 | **8,8** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100890 | **8,9** | 10 | 103 | 61 | 40 | 1 | **162,04** |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1046100100900 | **9** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100910 | **9,1** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100920 | **9,2** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100930 | **9,3** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100940 | **9,4** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100950 | **9,5** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100960 | **9,6** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100970 | **9,7** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100980 | **9,8** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100100990 | **9,9** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100101000 | **10** | 10 | 103 | 61 | 40 | 1 | **162,04** |
| TA1046100101020 | **10,2** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101050 | **10,5** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101080 | **10,8** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101100 | **11** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101150 | **11,5** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101180 | **11,8** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101200 | **12** | 12 | 118 | 71 | 45 | 1 | **227,55** |
| TA1046100101250 | **12,5** | 14 | 124 | 77 | 45 | 1 | **308,59** |
| TA1046100101300 | **13** | 14 | 124 | 77 | 45 | 1 | **308,59** |
| TA1046100101350 | **13,5** | 14 | 124 | 77 | 45 | 1 | **308,59** |
| TA1046100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **308,59** |
| TA1046100101450 | **14,5** | 16 | 133 | 83 | 48 | 1 | **386,17** |
| TA1046100101500 | **15** | 16 | 133 | 83 | 48 | 1 | **386,17** |
| TA1046100101550 | **15,5** | 16 | 133 | 83 | 48 | 1 | **386,17** |
| TA1046100101600 | **16** | 16 | 133 | 83 | 48 | 1 | **386,17** |
| TA1046100101650 | **16,5** | 18 | 143 | 93 | 48 | 1 | **506,84** |
| TA1046100101700 | **17** | 18 | 143 | 93 | 48 | 1 | **506,84** |
| TA1046100101750 | **17,5** | 18 | 143 | 93 | 48 | 1 | **506,84** |
| TA1046100101800 | **18** | 18 | 143 | 93 | 48 | 1 | **506,84** |
| TA1046100101850 | **18,5** | 20 | 153 | 101 | 50 | 1 | **660,28** |
| TA1046100101900 | **19** | 20 | 153 | 101 | 50 | 1 | **660,28** |
| TA1046100101950 | **19,5** | 20 | 153 | 101 | 50 | 1 | **660,28** |
| TA1046100102000 | **20** | 20 | 153 | 101 | 50 | 1 | **660,28** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Punta in metallo duro di alta qualità TA1049, con affilatura a 180°, rivestita Nano TiAlN, 5xD, forata





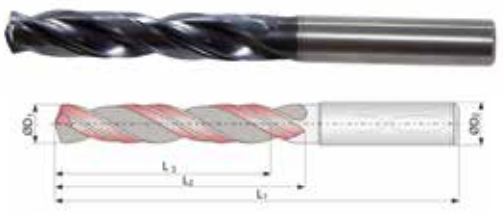


| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1049100100300 | **3** | 6 | 66 | 28 | 36 | 1 | **107,76** |
| TA1049100100330 | **3,3** | 6 | 66 | 28 | 36 | 1 | **107,76** |
| TA1049100100400 | **4** | 6 | 74 | 36 | 36 | 1 | **107,76** |
| TA1049100100420 | **4,2** | 6 | 74 | 36 | 36 | 1 | **107,76** |
| TA1049100100500 | **5** | 6 | 82 | 44 | 36 | 1 | **107,76** |
| TA1049100100600 | **6** | 6 | 82 | 44 | 36 | 1 | **107,76** |
| TA1049100100680 | **6,8** | 8 | 91 | 53 | 36 | 1 | **120,69** |
| TA1049100100800 | **8** | 8 | 91 | 53 | 36 | 1 | **120,69** |
| TA1049100100850 | **8,5** | 10 | 103 | 61 | 40 | 1 | **142,24** |
| TA1049100101000 | **10** | 10 | 103 | 61 | 40 | 1 | **142,24** |
| TA1049100101020 | **10,2** | 12 | 118 | 71 | 45 | 1 | **206,88** |
| TA1049100101200 | **12** | 12 | 118 | 71 | 45 | 1 | **206,88** |
| TA1049100101400 | **14** | 14 | 124 | 77 | 45 | 1 | **267,21** |
| TA1049100101600 | **16** | 16 | 133 | 83 | 48 | 1 | **323,27** |

## Punta in metallo duro di alta qualità TA1047, con 6 pattini di guida per forature in tolleranza H7, rivestita Nano TiAlN, 5xD, forata





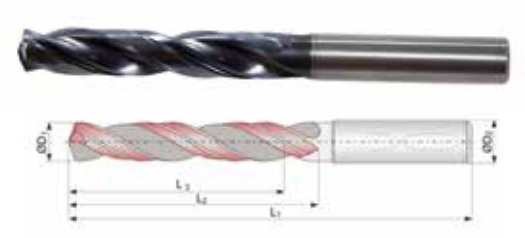
| Codice | d1 | Toll. | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1047100100397 | **3,97** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100398 | **3,98** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100399 | **3,99** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100400 | **4** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100401 | **4,01** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100402 | **4,02** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100403 | **4,03** | ± 0,003 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100497 | **4,97** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100498 | **4,98** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100499 | **4,99** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA10471001004H7 | **4** | H7 | 6 | 74 | 36 | 29 | 1 | **124,12** |
| TA1047100100500 | **5** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |

| Codice | d1 | Toll. | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1047100100501 | **5,01** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100502 | **5,02** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100503 | **5,03** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100597 | **5,97** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100598 | **5,98** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100599 | **5,99** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA10471001005H7 | **5** | H7 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100600 | **6** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100601 | **6,01** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100602 | **6,02** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA1047100100603 | **6,03** | ± 0,003 | 6 | 82 | 44 | 35 | 1 | **124,12** |
| TA10471001006H7 | **6** | H7 | 6 | 82 | 44 | 35 | 1 | **124,12** |

## Punta in metallo duro di alta qualità TA1047, con 6 pattini di guida per forature in tolleranza H7, rivestita Nano TiAlN, 5xD, forata





| Codice | d1 | Toll. | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1047100100797 | **7,97** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100798 | **7,98** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100799 | **7,99** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA10471001007H7 | **7** | H7 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100800 | **8** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100801 | **8,01** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100802 | **8,02** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100803 | **8,03** | ± 0,003 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA10471001008H7 | **8** | H7 | 8 | 91 | 53 | 43 | 1 | **137,92** |
| TA1047100100997 | **9,97** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100100998 | **9,98** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100100999 | **9,99** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA10471001009H7 | **9** | H7 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100101000 | **10** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100101001 | **10,01** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100101002 | **10,02** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100101003 | **10,03** | ± 0,003 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA10471001010H7 | **10** | H7 | 10 | 103 | 61 | 49 | 1 | **156,87** |
| TA1047100101197 | **11,97** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101198 | **11,98** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101199 | **11,99** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101200 | **12** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101201 | **12,01** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101202 | **12,02** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA1047100101203 | **12,03** | ± 0,003 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA10471001012H7 | **12** | H7 | 12 | 118 | 71 | 56 | 1 | **232,73** |
| TA10471001016H7 | **16** | H7 | 16 | 133 | 83 | 63 | 1 | **365,47** |
| TA10471001020H7 | **20** | H7 | 20 | 133 | 101 | 77 | 1 | **637,88** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1005, con 4 pattini di guida, rivestita Nano TiAlN, 8xD, forata






| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1005100100300 | 3 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100310 | 3,1 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100320 | 3,2 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100330 | 3,3 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100340 | 3,4 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100350 | 3,5 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100360 | 3,6 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100370 | 3,7 | 6 | 72 | 34 | 1 | 131,63 |
| TA1005100100380 | 3,8 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100390 | 3,9 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100400 | 4 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100410 | 4,1 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100420 | 4,2 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100430 | 4,3 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100440 | 4,4 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100450 | 4,5 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100460 | 4,6 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100470 | 4,7 | 6 | 81 | 43 | 1 | 131,63 |
| TA1005100100480 | 4,8 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100490 | 4,9 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100500 | 5 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100510 | 5,1 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100520 | 5,2 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100530 | 5,3 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100540 | 5,4 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100550 | 5,5 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100570 | 5,7 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100580 | 5,8 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100590 | 5,9 | 6 | 95 | 57 | 1 | 131,63 |
| TA1005100100600 | 6 | 6 | 95 | 57 | 1 | 153,57 |
| TA1005100100620 | 6,2 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100650 | 6,5 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100660 | 6,6 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100670 | 6,7 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100680 | 6,8 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100690 | 6,9 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100700 | 7 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100710 | 7,1 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100720 | 7,2 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100750 | 7,3 | 8 | 114 | 76 | 1 | 153,57 |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1005100100760 | 7,6 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100770 | 7,7 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100780 | 7,8 | 8 | 114 | 76 | 1 | 153,57 |
| TA1005100100800 | 7,9 | 8 | 114 | 76 | 1 | 184,45 |
| TA1005100100810 | 8,1 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100820 | 8,2 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100840 | 8,3 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100850 | 8,5 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100860 | 8,6 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100880 | 8,7 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100900 | 9 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100910 | 9,1 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100920 | 9,2 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100930 | 9,3 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100940 | 9,4 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100950 | 9,5 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100952 | 9,52 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100970 | 9,7 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100980 | 9,8 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100100990 | 9,9 | 10 | 142 | 95 | 1 | 184,45 |
| TA1005100101000 | 10 | 10 | 142 | 95 | 1 | 243,21 |
| TA1005100101020 | 10,2 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101050 | 10,5 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101080 | 10,8 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101100 | 11 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101120 | 11,2 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101150 | 11,5 | 12 | 162 | 114 | 1 | 243,21 |
| TA1005100101200 | 12 | 12 | 162 | 114 | 1 | 343,61 |
| TA1005100101220 | 12,2 | 14 | 178 | 133 | 1 | 343,61 |
| TA1005100101250 | 12,5 | 14 | 178 | 133 | 1 | 343,61 |
| TA1005100101270 | 12,7 | 14 | 178 | 133 | 1 | 343,61 |
| TA1005100101300 | 13 | 14 | 178 | 133 | 1 | 343,61 |
| TA1005100101350 | 13,5 | 14 | 178 | 133 | 1 | 343,61 |
| TA1005100101400 | 14 | 14 | 178 | 133 | 1 | 430,59 |
| TA1005100101420 | 14,2 | 16 | 203 | 152 | 1 | 430,59 |
| TA1005100101450 | 14,5 | 16 | 203 | 152 | 1 | 430,59 |
| TA1005100101500 | 15 | 16 | 203 | 152 | 1 | 430,59 |
| TA1005100101550 | 15,5 | 16 | 203 | 152 | 1 | 430,59 |
| TA1005100101600 | 16 | 16 | 203 | 152 | 1 | 538,43 |
| TA1005100101650 | 16,5 | 18 | 222 | 171 | 1 | 538,43 |

## Punta universale in metallo duro TA1005, con 4 pattini di guida, rivestita Nano TiAlN, 8xD, forata

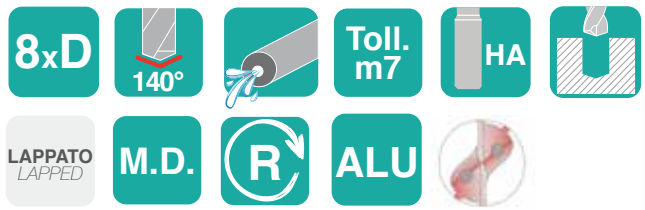


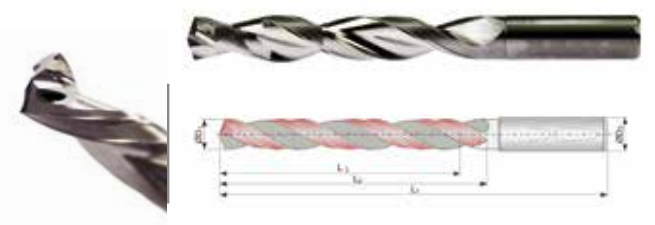



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1005100101700 | **17** | 18 | 222 | 171 | 1 | **538,43** |
| TA1005100101750 | **17,5** | 18 | 222 | 171 | 1 | **538,43** |
| TA1005100101800 | **18** | 18 | 222 | 171 | 1 | **632,16** |
| TA1005100101850 | **18,5** | 20 | 243 | 190 | 1 | **632,16** |
| TA1005100101900 | **19** | 20 | 243 | 190 | 1 | **632,16** |
| TA1005100101905 | **19,05** | 20 | 243 | 190 | 1 | **632,16** |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1005100101950 | **19,5** | 20 | 243 | 190 | 1 | **632,16** |
| TA1005100102000 | **20** | 20 | 243 | 190 | 1 | **632,16** |

## Punta in metallo duro ad alte prestazioni TA1041, con 4 pattini di guida, lappata, non rivestita, 8xD, forata, specifica per alluminio



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1041100100300 | **3** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100310 | **3,1** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100320 | **3,2** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100330 | **3,3** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100340 | **3,4** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100350 | **3,5** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100360 | **3,6** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100370 | **3,7** | 6 | 72 | 34 | 1 | **120,69** |
| TA1041100100380 | **3,8** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100390 | **3,9** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100400 | **4** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100410 | **4,1** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100420 | **4,2** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100430 | **4,3** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100440 | **4,4** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100450 | **4,5** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100460 | **4,6** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100470 | **4,7** | 6 | 81 | 43 | 1 | **120,69** |
| TA1041100100480 | **4,8** | 6 | 95 | 57 | 1 | **120,69** |

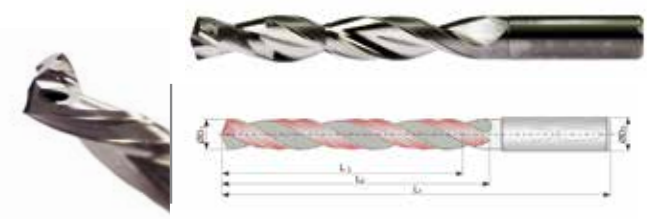
| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1041100100490 | **4,9** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100500 | **5** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100510 | **5,1** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100520 | **5,2** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100530 | **5,3** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100540 | **5,4** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100550 | **5,5** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100560 | **5,6** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100570 | **5,7** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100580 | **5,8** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100590 | **5,9** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100600 | **6** | 6 | 95 | 57 | 1 | **120,69** |
| TA1041100100610 | **6,1** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100620 | **6,2** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100630 | **6,3** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100640 | **6,4** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100650 | **6,5** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100660 | **6,6** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100670 | **6,7** | 8 | 114 | 76 | 1 | **162,04** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

**Punta in metallo duro ad alte prestazioni TA1041, con 4 pattini di guida, lappata, non rivestita, 8xD, forata, specifica per alluminio**



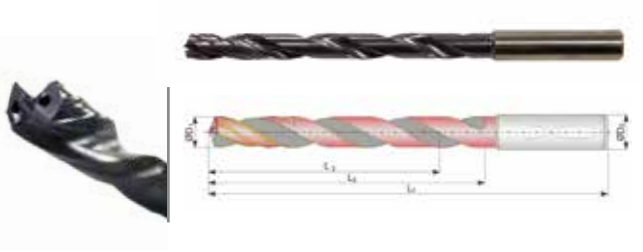



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1041100100680 | **6,8** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100690 | **6,9** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100700 | **7** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100710 | **7,1** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100720 | **7,2** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100730 | **7,3** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100740 | **7,4** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100750 | **7,5** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100760 | **7,6** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100770 | **7,7** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100780 | **7,8** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100790 | **7,9** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100800 | **8** | 8 | 114 | 76 | 1 | **162,04** |
| TA1041100100810 | **8,1** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100820 | **8,2** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100830 | **8,3** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100840 | **8,4** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100850 | **8,5** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100860 | **8,6** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100870 | **8,7** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100880 | **8,8** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100900 | **9** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100910 | **9,1** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100920 | **9,2** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100930 | **9,3** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100940 | **9,4** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100950 | **9,5** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100970 | **9,7** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100980 | **9,8** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100100990 | **9,9** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100101000 | **10** | 10 | 142 | 95 | 1 | **225,83** |
| TA1041100101020 | **10,2** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101050 | **10,5** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101080 | **10,8** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101100 | **11** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101140 | **11,2** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101150 | **11,5** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101180 | **11,8** | 12 | 162 | 114 | 1 | **287,91** |
| TA1041100101200 | **12** | 12 | 162 | 114 | 1 | **287,91** |

| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1041100101250 | **12,5** | 14 | 178 | 133 | 1 | **362,05** |
| TA1041100101300 | **13** | 14 | 178 | 133 | 1 | **362,05** |
| TA1041100101350 | **13,5** | 14 | 178 | 133 | 1 | **362,05** |
| TA1041100101400 | **14** | 14 | 178 | 133 | 1 | **362,05** |
| TA1041100101450 | **14,5** | 16 | 203 | 152 | 1 | **480,98** |
| TA1041100101500 | **15** | 16 | 203 | 152 | 1 | **480,98** |
| TA1041100101550 | **15,5** | 16 | 203 | 152 | 1 | **480,98** |
| TA1041100101600 | **16** | 16 | 203 | 152 | 1 | **480,98** |
| TA1041100101650 | **16,5** | 18 | 222 | 171 | 1 | **668,91** |
| TA1041100101700 | **17** | 18 | 222 | 171 | 1 | **668,91** |
| TA1041100101750 | **17,5** | 18 | 222 | 171 | 1 | **668,91** |
| TA1041100101800 | **18** | 18 | 222 | 171 | 1 | **668,91** |
| TA1041100101850 | **18,5** | 20 | 243 | 190 | 1 | **834,40** |
| TA1041100101900 | **19** | 20 | 243 | 190 | 1 | **834,40** |
| TA1041100101950 | **19,5** | 20 | 243 | 190 | 1 | **834,40** |
| TA1041100102000 | **20** | 20 | 243 | 190 | 1 | **834,40** |

## Punta in metallo duro ad alte prestazioni TA1048, con 6 pattini di guida e nocciolo centrale ottimizzato, rivestita Top TiAlN, 8xD, forata



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1048100100500 | 5 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100510 | 5,1 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100520 | 5,2 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100530 | 5,3 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100540 | 5,4 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100550 | 5,5 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100560 | 5,6 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100570 | 5,7 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100580 | 5,8 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100590 | 5,9 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100600 | 6 | 6 | 95 | 57 | 1 | 153,44 |
| TA1048100100610 | 6,1 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100620 | 6,2 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100630 | 6,3 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100640 | 6,4 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100650 | 6,5 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100660 | 6,6 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100670 | 6,7 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100680 | 6,8 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100690 | 6,9 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100700 | 7 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100710 | 7,1 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100720 | 7,2 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100730 | 7,3 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100740 | 7,4 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100750 | 7,5 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100760 | 7,6 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100770 | 7,7 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100780 | 7,8 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100790 | 7,9 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100800 | 8 | 8 | 114 | 76 | 1 | 203,43 |
| TA1048100100810 | 8,1 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100820 | 8,2 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100830 | 8,3 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100840 | 8,4 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100850 | 8,5 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100860 | 8,6 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100870 | 8,7 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100880 | 8,8 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100890 | 8,9 | 10 | 142 | 95 | 1 | 294,79 |

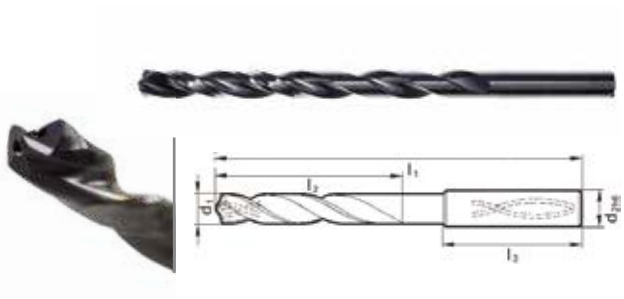
| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1048100100900 | 9 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100910 | 9,1 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100920 | 9,2 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100930 | 9,3 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100940 | 9,4 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100950 | 9,5 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100960 | 9,6 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100970 | 9,7 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100980 | 9,8 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100100990 | 9,9 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100101000 | 10 | 10 | 142 | 95 | 1 | 294,79 |
| TA1048100101020 | 10,2 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101050 | 10,5 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101080 | 10,8 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101100 | 11 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101150 | 11,5 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101180 | 11,8 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101200 | 12 | 12 | 162 | 114 | 1 | 379,27 |
| TA1048100101250 | 12,5 | 14 | 178 | 133 | 1 | 455,13 |
| TA1048100101300 | 13 | 14 | 178 | 133 | 1 | 455,13 |
| TA1048100101350 | 13,5 | 14 | 178 | 133 | 1 | 455,13 |
| TA1048100101400 | 14 | 14 | 178 | 133 | 1 | 455,13 |
| TA1048100101450 | 14,5 | 16 | 203 | 152 | 1 | 615,45 |
| TA1048100101500 | 15 | 16 | 203 | 152 | 1 | 615,45 |
| TA1048100101550 | 15,5 | 16 | 203 | 152 | 1 | 615,45 |
| TA1048100101600 | 16 | 16 | 203 | 152 | 1 | 615,45 |
| TA1048100101650 | 16,5 | 18 | 222 | 171 | 1 | 825,78 |
| TA1048100101700 | 17 | 18 | 222 | 171 | 1 | 825,78 |
| TA1048100101750 | 17,5 | 18 | 222 | 171 | 1 | 825,78 |
| TA1048100101800 | 18 | 18 | 222 | 171 | 1 | 825,78 |
| TA1048100101850 | 18,5 | 20 | 243 | 190 | 1 | 1.032,65 |
| TA1048100101900 | 19 | 20 | 243 | 190 | 1 | 1.032,65 |
| TA1048100101950 | 19,5 | 20 | 243 | 190 | 1 | 1.032,65 |
| TA1048100102000 | 20 | 20 | 243 | 190 | 1 | 1.032,65 |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta universale in metallo duro TA1006, con 4 pattini di guida, rivestita Nano TiAlN in testa, 12xD, forata



| Codice | d1 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1006100100300 | 3 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100310 | 3,1 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100320 | 3,2 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100330 | 3,3 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100340 | 3,4 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100350 | 3,5 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100360 | 3,6 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100370 | 3,7 | 6 | 90 | 50 | 1 | 176,26 |
| TA1006100100380 | 3,8 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100390 | 3,9 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100400 | 4 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100410 | 4,1 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100420 | 4,2 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100430 | 4,3 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100440 | 4,4 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100450 | 4,5 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100460 | 4,6 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100470 | 4,7 | 6 | 102 | 64 | 1 | 176,26 |
| TA1006100100480 | 4,8 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100490 | 4,9 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100500 | 5 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100510 | 5,1 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100520 | 5,2 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100530 | 5,3 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100540 | 5,4 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100550 | 5,5 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100560 | 5,6 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100570 | 5,7 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100580 | 5,8 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100590 | 5,9 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100600 | 6 | 6 | 116 | 78 | 1 | 176,26 |
| TA1006100100610 | 6,1 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100620 | 6,2 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100630 | 6,3 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100640 | 6,4 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100650 | 6,5 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100660 | 6,6 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100670 | 6,7 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100680 | 6,8 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100690 | 6,9 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100700 | 7 | 8 | 146 | 108 | 1 | 206,75 |

| Codice | d1 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1006100100710 | 7,1 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100720 | 7,2 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100730 | 7,3 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100740 | 7,4 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100750 | 7,5 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100800 | 8 | 8 | 146 | 108 | 1 | 206,75 |
| TA1006100100810 | 8,1 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100820 | 8,2 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100830 | 8,3 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100840 | 8,4 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100850 | 8,5 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100860 | 8,6 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100870 | 8,7 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100880 | 8,8 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100890 | 8,9 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100900 | 9 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100910 | 9,1 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100920 | 9,2 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100930 | 9,3 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100940 | 9,4 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100950 | 9,5 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100960 | 9,6 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100970 | 9,7 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100980 | 9,8 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100100990 | 9,9 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100101000 | 10 | 10 | 162 | 120 | 1 | 261,77 |
| TA1006100101020 | 10,2 | 12 | 204 | 156 | 1 | 342,86 |
| TA1006100101050 | 10,5 | 12 | 204 | 156 | 1 | 342,86 |
| TA1006100101100 | 11 | 12 | 204 | 156 | 1 | 342,86 |
| TA1006100101150 | 11,5 | 12 | 204 | 156 | 1 | 342,86 |
| TA1006100101200 | 12 | 12 | 230 | 156 | 1 | 342,86 |
| TA1006100101250 | 12,5 | 14 | 230 | 182 | 1 | 426,88 |
| TA1006100101300 | 13 | 14 | 230 | 182 | 1 | 426,88 |
| TA1006100101350 | 13,5 | 14 | 230 | 182 | 1 | 426,88 |
| TA1006100101400 | 14 | 14 | 230 | 182 | 1 | 426,88 |
| TA1006100101450 | 14,5 | 16 | 260 | 208 | 1 | 605,38 |
| TA1006100101500 | 15 | 16 | 260 | 208 | 1 | 605,38 |
| TA1006100101550 | 15,5 | 16 | 260 | 208 | 1 | 605,38 |
| TA1006100101600 | 16 | 16 | 260 | 208 | 1 | 605,38 |
| TA1006100101650 | 16,5 | 18 | 285 | 234 | 1 | 739,21 |
| TA1006100101700 | 17 | 18 | 285 | 234 | 1 | 739,21 |

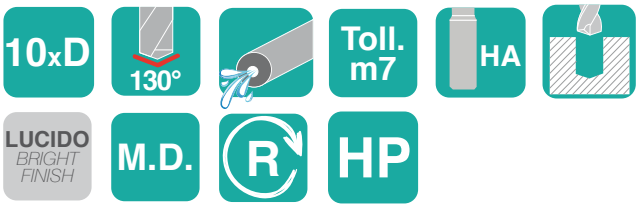
## Punta universale in metallo duro TA1006, con 4 pattini di guida, rivestita Nano TiAlN in testa, 12xD, forata

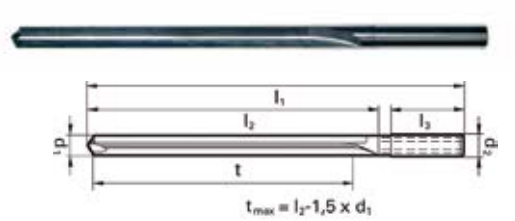





| Codice | d1 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1006100101750 | **17,5** | 18 | 285 | 234 | 1 | **739,21** |
| TA1006100101800 | **18** | 18 | 285 | 234 | 1 | **739,21** |
| TA1006100101850 | **18,5** | 20 | 310 | 258 | 1 | **961,61** |
| TA1006100101900 | **19** | 20 | 310 | 258 | 1 | **961,61** |
| TA1006100101950 | **19,5** | 20 | 310 | 258 | 1 | **961,61** |
| TA1006100102000 | **20** | 20 | 310 | 258 | 1 | **961,61** |

## Punta in metallo duro ad alte prestazioni TA1009, elica diritta, non rivestita, 10xD, forata, specifica per alluminio



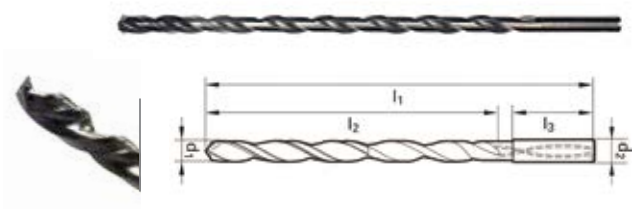

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1009100100300 | **3** | 6 | 91 | 42 | 36 | 1 | **a richiesta** |
| TA1009100100317 | **3,17** | 6 | 91 | 42 | 36 | 1 | **a richiesta** |
| TA1009100100325 | **3,25** | 6 | 91 | 42 | 36 | 1 | **a richiesta** |
| TA1009100100330 | **3,3** | 6 | 91 | 42 | 36 | 1 | **a richiesta** |
| TA1009100100350 | **3,5** | 6 | 91 | 48 | 36 | 1 | **a richiesta** |
| TA1009100100357 | **3,57** | 6 | 91 | 48 | 36 | 1 | **a richiesta** |
| TA1009100100380 | **3,8** | 6 | 121 | 77 | 36 | 1 | **a richiesta** |
| TA1009100100397 | **3,97** | 6 | 121 | 77 | 36 | 1 | **a richiesta** |
| TA1009100100400 | **4** | 6 | 121 | 77 | 36 | 1 | **a richiesta** |
| TA1009100100420 | **4,2** | 6 | 121 | 77 | 36 | 1 | **a richiesta** |
| TA1009100100450 | **4,5** | 6 | 121 | 77 | 36 | 1 | **a richiesta** |
| TA1009100100500 | **5** | 6 | 121 | 82 | 36 | 1 | **a richiesta** |
| TA1009100100550 | **5,5** | 6 | 121 | 82 | 36 | 1 | **a richiesta** |
| TA1009100100600 | **6** | 6 | 121 | 82 | 36 | 1 | **a richiesta** |
| TA1009100100635 | **6,35** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100650 | **6,5** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100680 | **6,8** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100700 | **7** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100750 | **7,5** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100780 | **7,8** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |

| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1009100100800 | **8** | 8 | 146 | 106 | 36 | 1 | **a richiesta** |
| TA1009100100850 | **8,5** | 10 | 175 | 130 | 40 | 1 | **a richiesta** |
| TA1009100100900 | **9** | 10 | 175 | 130 | 40 | 1 | **a richiesta** |
| TA1009100100950 | **9,5** | 10 | 175 | 130 | 40 | 1 | **a richiesta** |
| TA1009100100952 | **9,52** | 10 | 175 | 130 | 40 | 1 | **a richiesta** |
| TA1009100101000 | **10** | 10 | 175 | 130 | 40 | 1 | **a richiesta** |
| TA1009100101020 | **10,2** | 12 | 209 | 159 | 45 | 1 | **a richiesta** |
| TA1009100101050 | **10,5** | 12 | 209 | 159 | 45 | 1 | **a richiesta** |
| TA1009100101100 | **11** | 12 | 209 | 159 | 45 | 1 | **a richiesta** |
| TA1009100101150 | **11,5** | 12 | 209 | 159 | 45 | 1 | **a richiesta** |
| TA1009100101200 | **12** | 12 | 209 | 159 | 45 | 1 | **a richiesta** |
| TA1009100101250 | **12,5** | 14 | 233 | 183 | 45 | 1 | **a richiesta** |
| TA1009100101270 | **12,7** | 14 | 233 | 183 | 45 | 1 | **a richiesta** |
| TA1009100101300 | **13** | 14 | 233 | 183 | 45 | 1 | **a richiesta** |
| TA1009100101350 | **13,5** | 14 | 233 | 183 | 45 | 1 | **a richiesta** |
| TA1009100101400 | **14** | 14 | 233 | 183 | 45 | 1 | **a richiesta** |
| TA1009100101450 | **14,5** | 16 | 260 | 207 | 48 | 1 | **a richiesta** |
| TA1009100101500 | **15** | 16 | 260 | 207 | 48 | 1 | **a richiesta** |
| TA1009100101550 | **15,5** | 16 | 260 | 207 | 48 | 1 | **a richiesta** |
| TA1009100101600 | **16** | 16 | 260 | 207 | 48 | 1 | **a richiesta** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Punta universale in metallo duro TA1012, con 4 pattini di guida per fori profondi, rivestita Nano TiAlN in testa, 20xD, forata

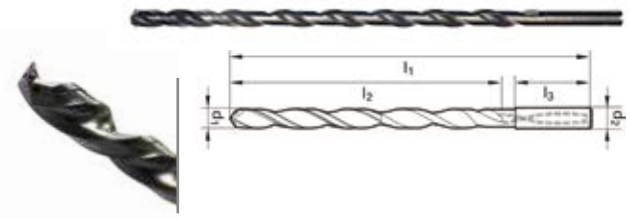



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1012100200300 | **3** | 6 | 110 | 70 | 1 | **206,88** |
| TA1012100200350 | **3,5** | 6 | 136 | 96 | 1 | **286,44** |
| TA1012100200400 | **4** | 6 | 136 | 96 | 1 | **310,31** |
| TA1012100200450 | **4,5** | 6 | 158 | 118 | 1 | **334,18** |
| TA1012100200500 | **5** | 6 | 158 | 118 | 1 | **350,10** |
| TA1012100200550 | **5,5** | 6 | 180 | 140 | 1 | **373,97** |
| TA1012100200600 | **6** | 6 | 180 | 140 | 1 | **373,97** |
| TA1012100200650 | **6,5** | 8 | 202 | 162 | 1 | **381,92** |
| TA1012100200700 | **7** | 8 | 202 | 162 | 1 | **429,66** |
| TA1012100200750 | **7,5** | 8 | 215 | 176 | 1 | **477,41** |
| TA1012100200800 | **8** | 8 | 223 | 183 | 1 | **477,41** |
| TA1012100200850 | **8,5** | 10 | 249 | 205 | 1 | **525,15** |
| TA1012100200900 | **9** | 10 | 249 | 205 | 1 | **572,89** |
| TA1012100201000 | **10** | 10 | 271 | 227 | 1 | **572,89** |
| TA1012100201200 | **12** | 12 | 323 | 274 | 1 | **636,54** |

## Punta universale in metallo duro TA1015, con 4 pattini di guida per fori profondi, rivestita Nano TiAlN in testa, 25xD, forata

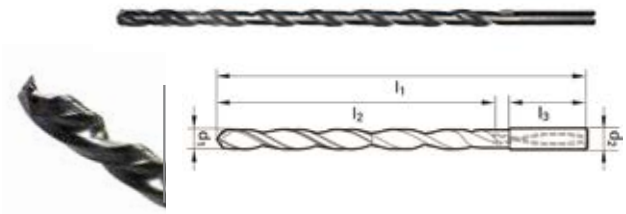



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1015100100300 | **3** | 6 | 125 | 85 | 1 | **355,35** |
| TA1015100100350 | **3,5** | 6 | 156 | 116 | 1 | **370,80** |
| TA1015100100400 | **4** | 6 | 156 | 116 | 1 | **386,25** |
| TA1015100100450 | **4,5** | 6 | 183 | 143 | 1 | **401,70** |
| TA1015100100500 | **5** | 6 | 183 | 143 | 1 | **401,70** |
| TA1015100100550 | **5,5** | 6 | 210 | 170 | 1 | **432,60** |
| TA1015100100600 | **6** | 6 | 210 | 170 | 1 | **432,60** |
| TA1015100100650 | **6,5** | 8 | 237 | 197 | 1 | **478,95** |
| TA1015100100700 | **7** | 8 | 237 | 197 | 1 | **478,95** |
| TA1015100100750 | **7,5** | 8 | 263 | 223 | 1 | **540,75** |
| TA1015100100800 | **8** | 8 | 263 | 223 | 1 | **540,75** |
| TA1015100100850 | **8,5** | 10 | 294 | 250 | 1 | **618,00** |
| TA1015100100900 | **9** | 10 | 294 | 250 | 1 | **648,90** |
| TA1015100101000 | **10** | 10 | 321 | 277 | 1 | **648,90** |
| TA1015100101200 | **12** | 12 | 386 | 337 | 1 | **770,96** |

## Punta universale in metallo duro TA1013, con 4 pattini di guida per fori profondi, rivestita Nano TiAlN in testa, 30xD, forata

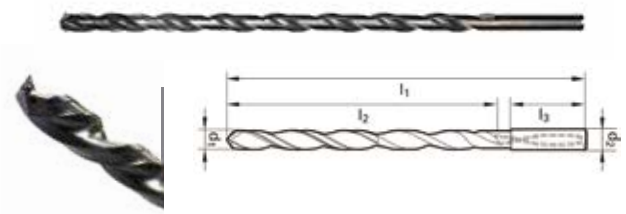



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1013100200300 | **3** | 6 | 140 | 100 | 1 | **445,58** |
| TA1013100200350 | **3,5** | 6 | 176 | 136 | 1 | **477,41** |
| TA1013100200400 | **4** | 6 | 176 | 136 | 1 | **477,41** |
| TA1013100200450 | **4,5** | 6 | 208 | 168 | 1 | **477,41** |
| TA1013100200500 | **5** | 6 | 208 | 168 | 1 | **493,32** |
| TA1013100200550 | **5,5** | 6 | 240 | 200 | 1 | **493,32** |
| TA1013100200600 | **6** | 6 | 240 | 200 | 1 | **541,06** |
| TA1013100200650 | **6,5** | 8 | 272 | 232 | 1 | **572,89** |
| TA1013100200700 | **7** | 8 | 272 | 232 | 1 | **572,89** |
| TA1013100200750 | **7,5** | 8 | 303 | 263 | 1 | **572,89** |
| TA1013100200800 | **8** | 8 | 303 | 263 | 1 | **636,54** |
| TA1013100200850 | **8,5** | 10 | 339 | 295 | 1 | **716,11** |
| TA1013100200900 | **9** | 10 | 339 | 295 | 1 | **747,93** |
| TA1013100201000 | **10** | 10 | 371 | 327 | 1 | **747,93** |

## Punta universale in metallo duro TA1016, con 4 pattini di guida per fori profondi, rivestita Nano TiAlN in testa, 40xD, forata



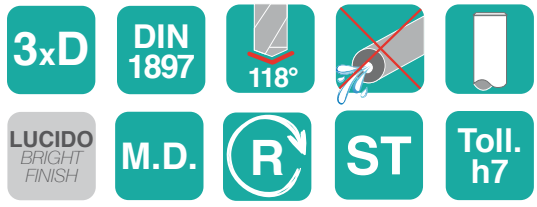




| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1016100100300 | **3** | 6 | 170 | 130 | 1 | **670,17** |
| TA1016100100350 | **3,5** | 6 | 196 | 156 | 1 | **670,17** |
| TA1016100100400 | **4** | 6 | 216 | 176 | 1 | **726,74** |
| TA1016100100450 | **4,5** | 6 | 238 | 198 | 1 | **844,24** |
| TA1016100100500 | **5** | 6 | 238 | 198 | 1 | **861,65** |
| TA1016100100550 | **5,5** | 6 | 280 | 240 | 1 | **909,52** |
| TA1016100100600 | **6** | 6 | 300 | 260 | 1 | **1.018,31** |
| TA1016100100650 | **6,5** | 8 | 322 | 282 | 1 | **1.087,94** |
| TA1016100100700 | **7** | 8 | 342 | 302 | 1 | **1.087,94** |
| TA1016100100750 | **7,5** | 8 | 363 | 323 | 1 | **1.196,73** |
| TA1016100100800 | **8** | 8 | 383 | 343 | 1 | **1.218,49** |

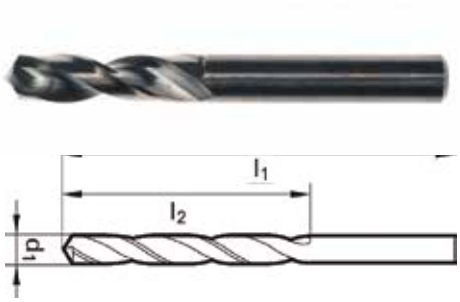
**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Punta standard in metallo duro TA1010, non rivestita, 3xD, non forata



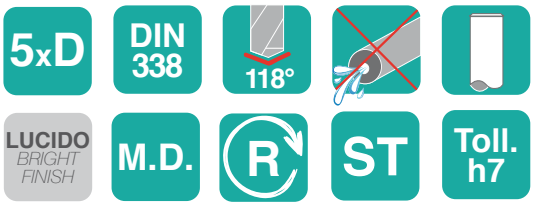


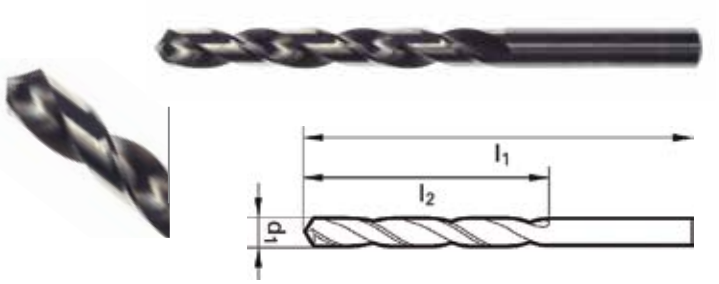




| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1010100100200 | 2 | 38 | 12 | 1 | 4,89 |
| TA1010100100210 | 2,1 | 38 | 12 | 1 | 4,89 |
| TA1010100100220 | 2,2 | 40 | 13 | 1 | 4,89 |
| TA1010100100230 | 2,3 | 40 | 13 | 1 | 4,89 |
| TA1010100100238 | 2,38 | 43 | 14 | 1 | 5,36 |
| TA1010100100240 | 2,4 | 43 | 14 | 1 | 4,89 |
| TA1010100100250 | 2,5 | 43 | 14 | 1 | 4,89 |
| TA1010100100260 | 2,6 | 43 | 14 | 1 | 4,89 |
| TA1010100100270 | 2,7 | 46 | 16 | 1 | 7,16 |
| TA1010100100278 | 2,78 | 46 | 16 | 1 | 8,03 |
| TA1010100100280 | 2,8 | 46 | 16 | 1 | 7,16 |
| TA1010100100290 | 2,9 | 46 | 16 | 1 | 7,16 |
| TA1010100100300 | 3 | 46 | 16 | 1 | 7,16 |
| TA1010100100310 | 3,1 | 49 | 18 | 1 | 7,16 |
| TA1010100100317 | 3,17 | 49 | 18 | 1 | 8,03 |
| TA1010100100320 | 3,2 | 49 | 18 | 1 | 7,16 |
| TA1010100100330 | 3,3 | 49 | 18 | 1 | 7,16 |
| TA1010100100340 | 3,4 | 52 | 20 | 1 | 7,16 |
| TA1010100100350 | 3,5 | 52 | 20 | 1 | 7,16 |
| TA1010100100357 | 3,57 | 52 | 20 | 1 | 9,37 |
| TA1010100100360 | 3,6 | 52 | 20 | 1 | 8,27 |
| TA1010100100370 | 3,7 | 52 | 20 | 1 | 8,27 |
| TA1010100100380 | 3,8 | 55 | 22 | 1 | 9,01 |
| TA1010100100390 | 3,9 | 55 | 22 | 1 | 9,01 |
| TA1010100100397 | 3,97 | 55 | 22 | 1 | 9,01 |
| TA1010100100400 | 4 | 55 | 22 | 1 | 9,01 |
| TA1010100100410 | 4,1 | 55 | 22 | 1 | 9,79 |
| TA1010100100420 | 4,2 | 55 | 22 | 1 | 9,79 |
| TA1010100100430 | 4,3 | 58 | 24 | 1 | 9,79 |
| TA1010100100437 | 4,37 | 58 | 24 | 1 | 10,71 |
| TA1010100100440 | 4,4 | 58 | 24 | 1 | 9,79 |
| TA1010100100450 | 4,5 | 58 | 24 | 1 | 9,79 |
| TA1010100100460 | 4,6 | 58 | 24 | 1 | 9,79 |
| TA1010100100470 | 4,7 | 58 | 24 | 1 | 10,53 |
| TA1010100100476 | 4,76 | 62 | 26 | 1 | 11,79 |
| TA1010100100480 | 4,8 | 62 | 26 | 1 | 10,53 |
| TA1010100100490 | 4,9 | 62 | 26 | 1 | 10,53 |
| TA1010100100500 | 5 | 62 | 26 | 1 | 10,53 |
| TA1010100100520 | 5,2 | 62 | 26 | 1 | 13,54 |

| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1010100100550 | 5,5 | 66 | 28 | 1 | 13,54 |
| TA1010100100580 | 5,8 | 66 | 28 | 1 | 14,27 |
| TA1010100100600 | 6.00 | 66 | 28 | 1 | 14,27 |
| TA1010100100635 | 6,35 | 70 | 31 | 1 | 18,05 |
| TA1010100100650 | 6,5 | 70 | 31 | 1 | 18,05 |
| TA1010100100680 | 6,8 | 74 | 34 | 1 | 22,61 |
| TA1010100100700 | 7 | 74 | 34 | 1 | 21,76 |
| TA1010100100714 | 7,14 | 74 | 34 | 1 | 25,60 |
| TA1010100100750 | 7,5 | 74 | 34 | 1 | 25,60 |
| TA1010100100794 | 7,94 | 79 | 37 | 1 | 29,30 |
| TA1010100100800 | 8 | 79 | 37 | 1 | 29,30 |
| TA1010100100850 | 8,5 | 79 | 37 | 1 | 36,05 |
| TA1010100100873 | 8,73 | 84 | 40 | 1 | 39,04 |
| TA1010100100880 | 8,8 | 84 | 40 | 1 | 39,04 |
| TA1010100100900 | 9 | 84 | 40 | 1 | 37,65 |
| TA1010100100950 | 9,5 | 84 | 40 | 1 | 40,61 |
| TA1010100101000 | 10 | 89 | 43 | 1 | 43,57 |
| TA1010100101020 | 10,2 | 89 | 43 | 1 | 50,32 |
| TA1010100101050 | 10,5 | 89 | 43 | 1 | 50,32 |
| TA1010100101100 | 11 | 95 | 47 | 1 | 55,62 |
| TA1010100101111 | 11,11 | 95 | 47 | 1 | 63,86 |
| TA1010100101150 | 11,5 | 95 | 47 | 1 | 63,86 |
| TA1010100101191 | 11,91 | 102 | 51 | 1 | 63,86 |
| TA1010100101200 | 12 | 102 | 51 | 1 | 63,86 |

## Punta standard in metallo duro TA1011, non rivestita, 5xD, non forata



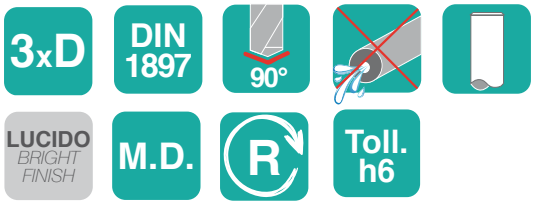



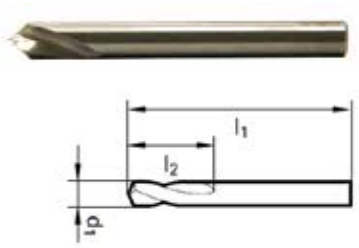

| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1011100100200 | **2** | 49 | 24 | 1 | **5,95** |
| TA1011100100210 | **2,1** | 49 | 24 | 1 | **6,72** |
| TA1011100100220 | **2,2** | 53 | 27 | 1 | **7,44** |
| TA1011100100230 | **2,3** | 53 | 27 | 1 | **7,44** |
| TA1011100100238 | **2,38** | 57 | 30 | 1 | **7,96** |
| TA1011100100240 | **2,4** | 57 | 30 | 1 | **7,44** |
| TA1011100100250 | **2,5** | 57 | 30 | 1 | **7,44** |
| TA1011100100260 | **2,6** | 57 | 30 | 1 | **10,43** |
| TA1011100100270 | **2,7** | 61 | 33 | 1 | **10,43** |
| TA1011100100278 | **2,78** | 61 | 33 | 1 | **11,66** |
| TA1011100100280 | **2,8** | 61 | 33 | 1 | **10,43** |
| TA1011100100290 | **2,9** | 61 | 33 | 1 | **10,43** |
| TA1011100100300 | **3** | 61 | 33 | 1 | **9,66** |
| TA1011100100310 | **3,1** | 65 | 36 | 1 | **9,66** |
| TA1011100100317 | **3,17** | 65 | 36 | 1 | **10,61** |
| TA1011100100320 | **3,2** | 65 | 36 | 1 | **9,66** |
| TA1011100100330 | **3,3** | 65 | 36 | 1 | **9,66** |
| TA1011100100340 | **3,4** | 70 | 39 | 1 | **11,20** |
| TA1011100100350 | **3,5** | 70 | 39 | 1 | **10,43** |
| TA1011100100357 | **3,57** | 70 | 39 | 1 | **13,26** |
| TA1011100100360 | **3,6** | 70 | 39 | 1 | **11,90** |
| TA1011100100370 | **3,7** | 70 | 39 | 1 | **11,90** |
| TA1011100100380 | **3,8** | 75 | 43 | 1 | **11,90** |
| TA1011100100390 | **3,9** | 75 | 43 | 1 | **11,90** |
| TA1011100100397 | **3,97** | 75 | 43 | 1 | **11,90** |
| TA1011100100400 | **4** | 75 | 43 | 1 | **11,90** |
| TA1011100100410 | **4,1** | 75 | 43 | 1 | **12,64** |
| TA1011100100420 | **4,2** | 75 | 43 | 1 | **12,64** |
| TA1011100100430 | **4,3** | 80 | 47 | 1 | **16,38** |
| TA1011100100437 | **4,37** | 80 | 47 | 1 | **17,77** |
| TA1011100100440 | **4,4** | 80 | 47 | 1 | **16,38** |
| TA1011100100450 | **4,5** | 80 | 47 | 1 | **14,88** |

| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1011100100460 | **4,6** | 80 | 47 | 1 | **17,12** |
| TA1011100100470 | **4,7** | 80 | 47 | 1 | **17,12** |
| TA1011100100476 | **4,76** | 86 | 52 | 1 | **18,57** |
| TA1011100100480 | **4,8** | 86 | 52 | 1 | **17,12** |
| TA1011100100490 | **4,9** | 86 | 52 | 1 | **17,12** |
| TA1011100100500 | **5** | 86 | 52 | 1 | **16,38** |
| TA1011100100516 | **5,16** | 86 | 52 | 1 | **22,33** |
| TA1011100100550 | **5,5** | 93 | 57 | 1 | **22,33** |
| TA1011100100556 | **5,56** | 93 | 57 | 1 | **25,72** |
| TA1011100100595 | **5,95** | 93 | 57 | 1 | **23,07** |
| TA1011100100600 | **6** | 93 | 57 | 1 | **23,07** |
| TA1011100100635 | **6,35** | 101 | 63 | 1 | **29,02** |
| TA1011100100650 | **6,5** | 101 | 63 | 1 | **29,02** |
| TA1011100100680 | **6,8** | 109 | 69 | 1 | **34,22** |
| TA1011100100700 | **7** | 109 | 69 | 1 | **34,22** |
| TA1011100100714 | **7,14** | 109 | 69 | 1 | **38,73** |
| TA1011100100750 | **7,5** | 109 | 69 | 1 | **34,22** |
| TA1011100100794 | **7,94** | 117 | 75 | 1 | **46,87** |
| TA1011100100800 | **8** | 117 | 75 | 1 | **40,17** |
| TA1011100100850 | **8,5** | 117 | 75 | 1 | **46,87** |
| TA1011100100873 | **8,73** | 125 | 81 | 1 | **53,53** |
| TA1011100100900 | **9** | 125 | 81 | 1 | **48,33** |
| TA1011100100950 | **9,5** | 125 | 81 | 1 | **53,53** |
| TA1011100101000 | **10** | 133 | 87 | 1 | **59,48** |
| TA1011100101020 | **10,2** | 133 | 87 | 1 | **71,38** |
| TA1011100101050 | **10,5** | 133 | 87 | 1 | **69,19** |
| TA1011100101100 | **11** | 142 | 94 | 1 | **84,05** |
| TA1011100101111 | **11,11** | 142 | 94 | 1 | **89,22** |
| TA1011100101150 | **11,5** | 142 | 94 | 1 | **89,22** |
| TA1011100101191 | **11,91** | 151 | 101 | 1 | **89,22** |
| TA1011100101200 | **12** | 151 | 101 | 1 | **97,41** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

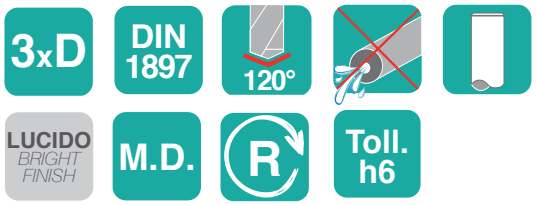
## Punta a centrare in metallo duro TA1078, per macchine CN 90°, non rivestita

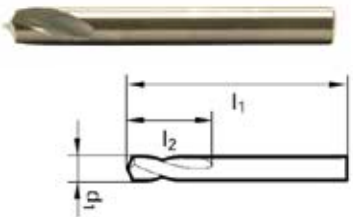



| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1078090100400 | **4** | 55 | 12 | 1 | **57,94** |
| TA1078090100500 | **5** | 62 | 14 | 1 | **55,67** |
| TA1078090100600 | **6** | 66 | 16 | 1 | **61,31** |
| TA1078090100800 | **8** | 79 | 21 | 1 | **94,27** |
| TA1078090101000 | **10** | 89 | 25 | 1 | **136,27** |
| TA1078090101200 | **12** | 102 | 30 | 1 | **181,69** |
| TA1078090101600 | **16** | 115 | 37,5 | 1 | **336,14** |
| TA1078090102000 | **20** | 131 | 45 | 1 | **572,32** |

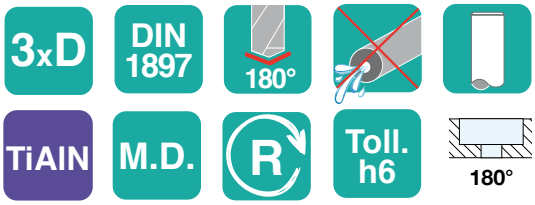
## Punta a centrare in metallo duro TA1079, per macchine CN 120°, non rivestita

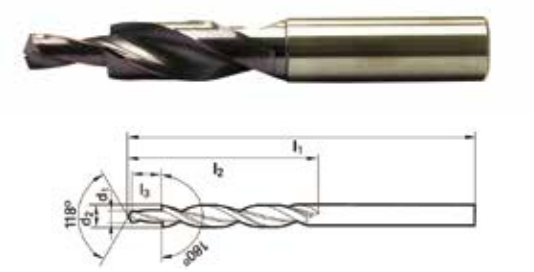



| Codice | d1 | d2 | l1 | | € / cad. |
|---|---|---|---|---|---|
| TA1079090100500 | **5** | 62 | 14 | 1 | **60,20** |
| TA1079090100600 | **6** | 66 | 16 | 1 | **63,60** |
| TA1079090100800 | **8** | 79 | 21 | 1 | **99,94** |
| TA1079090101000 | **10** | 89 | 25 | 1 | **140,80** |
| TA1079090101200 | **12** | 102 | 30 | 1 | **190,78** |
| TA1079090101600 | **16** | 115 | 37,5 | 1 | **349,76** |
| TA1079090102000 | **20** | 131 | 45 | 1 | **590,50** |

## Punta in metallo duro TA1018, per sedi viti a 180°, rivestita TiAIN



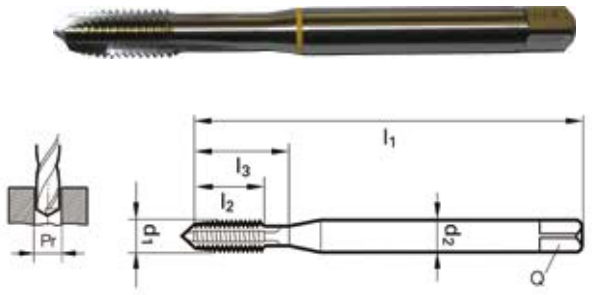




| Codice | d2 | d1 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1018100200340 | 6 | **3,4** | 64 | 28 | 9 | 1 | **61,34** |
| TA1018100200450 | 8 | **4,5** | 79 | 37 | 11 | 1 | **94,91** |
| TA1018100200550 | 10 | **5,5** | 89 | 43 | 13 | 1 | **138,69** |
| TA1018100200660 | 12 | **6,6** | 102 | 55 | 15 | 1 | **201,44** |
| TA1018100200900 | 16 | **9** | 115 | 65 | 19 | 1 | **335,78** |
| TA1018100201100 | 18 | **11** | 123 | 62 | 23 | 1 | **364,98** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio standard TA1450, non rivestito, per fori passanti, tolleranza 6H

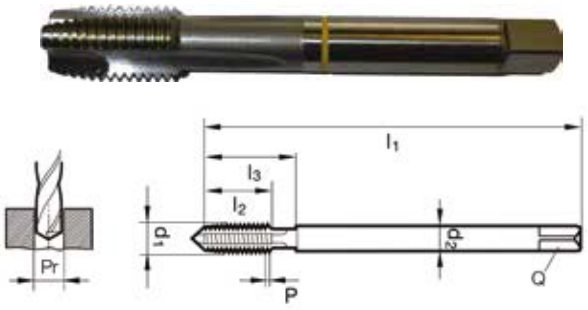



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1450130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **14,88** |
| TA1450130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **14,88** |
| TA1450130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **15,44** |
| TA1450130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **15,44** |
| TA1450130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **19,87** |
| TA1450130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **24,06** |

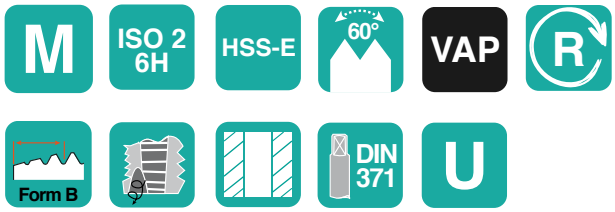
## Maschio standard TA1451, non rivestito, per fori passanti, tolleranza 6H

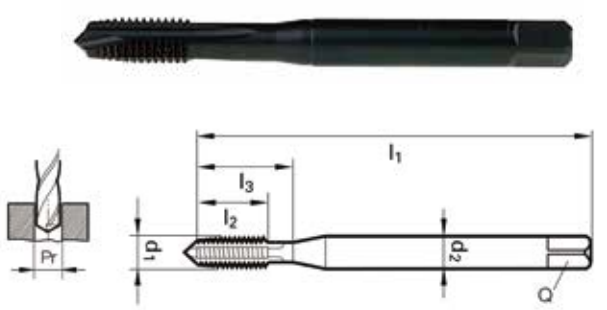



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1451130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **32,24** |
| TA1451130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **48,95** |
| TA1451130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **38,92** |
| TA1451130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **64,38** |
| TA1451130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **76,63** |
| TA1451130302200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **96,95** |
| TA1451130302400 | **M24** | 3 | 140 | 36 | 73 | 14,5 | 21 | 18 | 1 | **102,20** |
| TA1451130302700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **163,28** |
| TA1451130303000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **197,58** |

## Maschio universale TA1100, vaporizzato, per fori passanti, tolleranza 6H

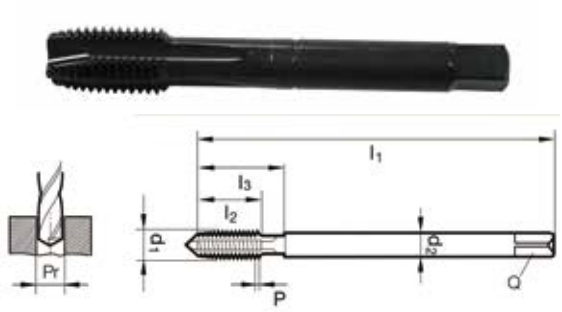



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1100130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **11,56** |
| TA1100130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **11,82** |
| TA1100130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **11,82** |
| TA1100130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **11,97** |
| TA1100130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **13,93** |
| TA1100130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **16,63** |

## Maschio universale TA1101, vaporizzato, per fori passanti, tolleranza 6H



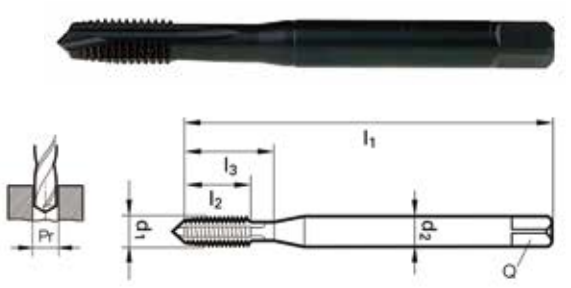




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1101130300300 | **M3** | 0,5 | 56 | 11 | 18 | - | 2,5 | 2,2 | 1 | **16,71** |
| TA1101130300400 | **M4** | 0,7 | 63 | 13 | 21 | 2,1 | 3,3 | 2,8 | 1 | **16,43** |
| TA1101130300500 | **M5** | 0,8 | 70 | 15 | 25 | 2,7 | 4,2 | 3,5 | 1 | **16,43** |
| TA1101130300600 | **M6** | 1 | 80 | 17 | 30 | 3,4 | 5 | 4,5 | 1 | **17,28** |
| TA1101130300800 | **M8** | 1,25 | 90 | 20 | 35 | 4,9 | 6,8 | 6 | 1 | **20,29** |
| TA1101130301000 | **M10** | 1,5 | 100 | 22 | 39 | 5,5 | 8,5 | 7 | 1 | **23,33** |
| TA1101130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **24,82** |
| TA1101130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **36,62** |
| TA1101130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **36,62** |
| TA1101130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **101,84** |
| TA1101130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **58,35** |
| TA1101130302200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **132,30** |
| TA1101130302400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **134,90** |
| TA1101130302700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **168,84** |
| TA1101130303000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **215,84** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio universale TA1104, vaporizzato, per fori passanti, tolleranza 6G

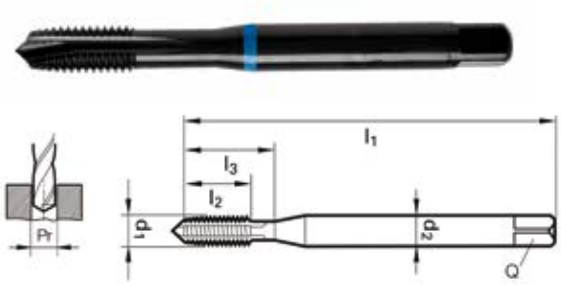



| Codice | d1 | d2 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1104130300300 | **M3** | 0,5 | 56 | 11 | 18 | 1 | **18,90** |
| TA1104130300400 | **M4** | 0,7 | 63 | 13 | 21 | 1 | **18,90** |
| TA1104130300500 | **M5** | 0,8 | 70 | 15 | 25 | 1 | **19,54** |
| TA1104130300600 | **M6** | 1 | 80 | 17 | 30 | 1 | **17,46** |
| TA1104130300800 | **M8** | 1,25 | 90 | 20 | 35 | 1 | **20,09** |
| TA1104130301000 | **M10** | 1,5 | 100 | 22 | 39 | 1 | **28,40** |

## Maschio TA1454, specifico per acciaio inossidabile, vaporizzato, per fori passanti, tolleranza 6H

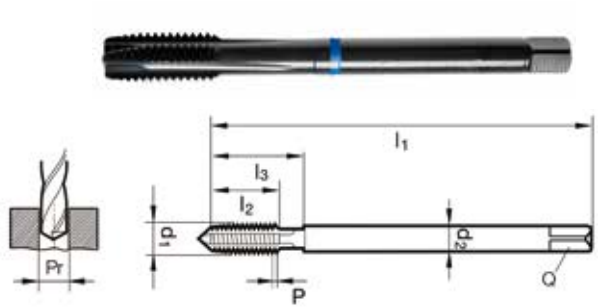



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1454130900300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **20,80** |
| TA1454130900400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **20,80** |
| TA1454130900500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **21,71** |
| TA1454130900600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **21,71** |
| TA1454130900800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **27,87** |
| TA1454130901000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **33,64** |

## Maschio TA1455, specifico per acciaio inossidabile, vaporizzato, per fori passanti, tolleranza 6H

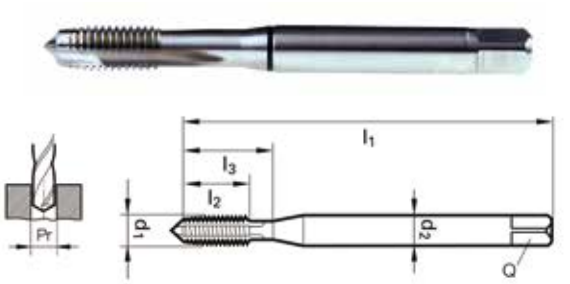



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1455130901200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **44,95** |
| TA1455130901400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **71,89** |
| TA1455130901600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **68,90** |
| TA1455130901800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **109,51** |
| TA1455130902000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **105,59** |
| TA1455130902200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **124,18** |
| TA1455130902400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **143,49** |

## Maschio TA1108, specifico per alluminio, non rivestito, per fori passanti, tolleranza 6H



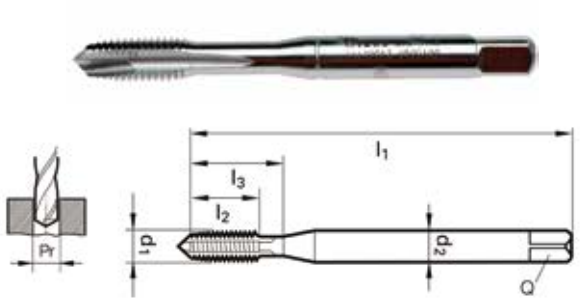




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1108130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **23,51** |
| TA1108130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **23,51** |
| TA1108130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **25,31** |
| TA1108130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **25,31** |
| TA1108130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **29,41** |
| TA1108130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **35,35** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1300, rivestito al cromo, per fori passanti, tolleranza 6H, rastremato

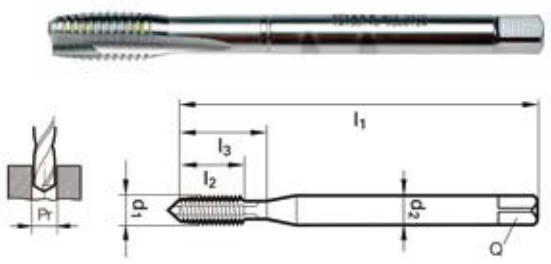



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1300130500300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **29,55** |
| TA1300130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **29,55** |
| TA1300130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **31,15** |
| TA1300130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **31,15** |
| TA1300130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **35,98** |
| TA1300130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **40,60** |

## Maschio TA1301, rivestito al cromo, per fori passanti, tolleranza 6H, rastremato

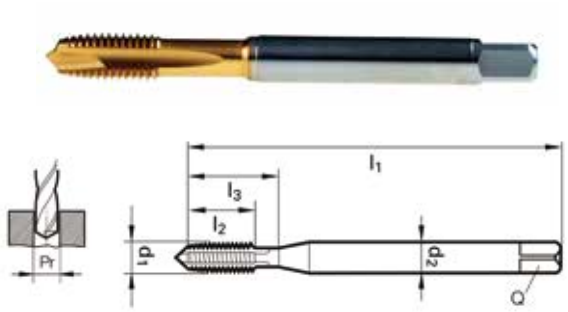



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1301130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **51,80** |
| TA1301130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **64,78** |
| TA1301130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **72,48** |
| TA1301130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **101,90** |
| TA1301130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **113,58** |
| TA1301130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **134,55** |
| TA1301130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **168,98** |
| TA1301130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **232,70** |
| TA1301130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **281,08** |

## Maschio universale TA1256, rivestito TiN, per fori passanti, tolleranza 6H

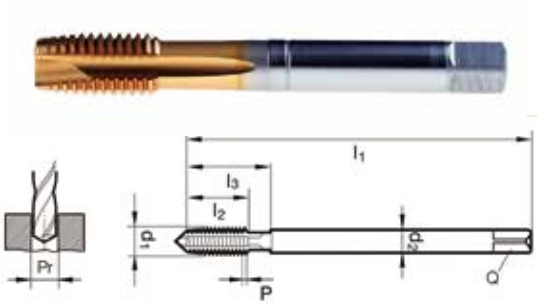



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1256130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **19,31** |
| TA1256130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **19,67** |
| TA1256130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **20,47** |
| TA1256130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **22,15** |
| TA1256130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **28,33** |
| TA1256130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **33,99** |

## Maschio universale TA1257, rivestito TiN, per fori passanti, tolleranza 6H



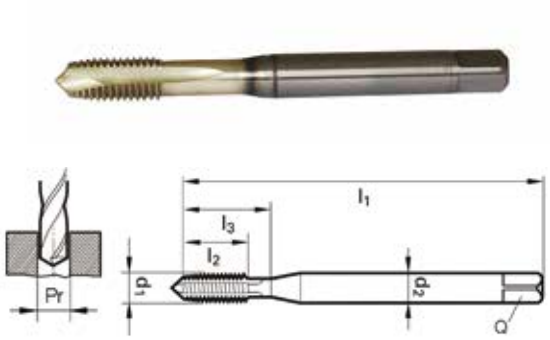




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1257130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **41,46** |
| TA1257130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **56,65** |
| TA1257130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **62,37** |
| TA1257130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **92,70** |
| TA1257130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **102,49** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

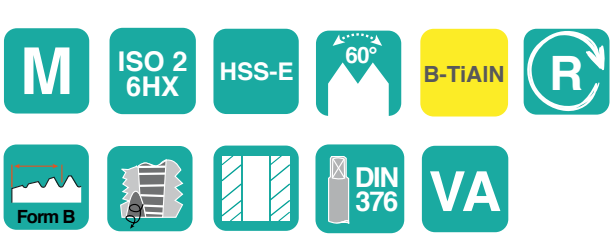
## Maschio TA1150, affilatura VA, rivestito B-TiAlN, per fori passanti, ad alte prestazioni, per acciai inox e superleghe, tolleranza 6HX

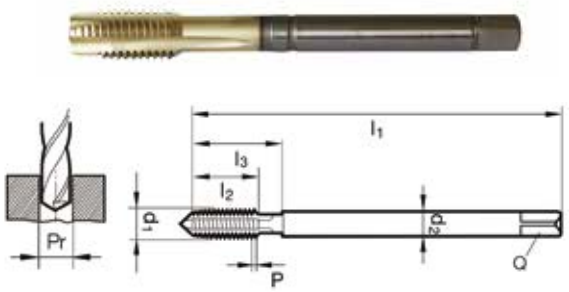



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1150130300200 | **M2** | 0,4 | 45 | 8 | 13,5 | 2,1 | 1,6 | 2,8 | 1 | **45,36** |
| TA1150130300250 | **M2,5** | 0,45 | 50 | 9 | 14,5 | 2,1 | 2,05 | 2,8 | 1 | **43,85** |
| TA1150130300300 | **M3** | 0,5 | 56 | 10 | 18 | 2,7 | 2,5 | 3,5 | 1 | **42,35** |
| TA1150130300400 | **M4** | 0,7 | 63 | 12 | 21 | 3,4 | 3,3 | 4,5 | 1 | **43,35** |
| TA1150130300500 | **M5** | 0,8 | 70 | 14 | 25 | 4,9 | 4,2 | 6 | 1 | **43,35** |
| TA1150130300600 | **M6** | 1 | 80 | 16 | 30 | 4,9 | 5 | 6 | 1 | **44,52** |
| TA1150130300800 | **M8** | 1,25 | 90 | 17 | 35 | 6,2 | 6,8 | 8 | 1 | **52,22** |
| TA1150130301000 | **M10** | 1,5 | 100 | 20 | 39 | 8 | 8,5 | 10 | 1 | **64,61** |

## Maschio TA1151, affilatura VA, rivestito B-TiAlN, per fori passanti, ad alte prestazioni, per acciai inox e superleghe, tolleranza 6HX

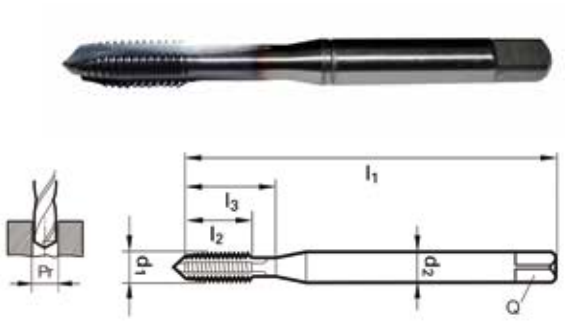



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1151130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **76,32** |
| TA1151130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **116,49** |
| TA1151130301600 | **M16** | 2 | 110 | 26 | 54 | 9 | 14 | 12 | 1 | **115,82** |
| TA1151130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **192,48** |
| TA1151130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **172,40** |
| TA1151130302400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **254,08** |
| TA1151130303000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **306,30** |

## Maschio TA1320, rivestito TOP BLU, per fori passanti, rastremato, tolleranza 6H

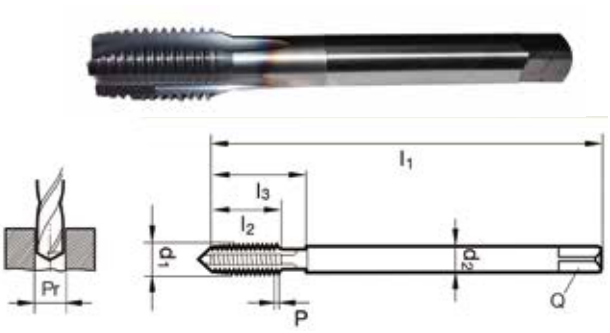



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1320130500300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2.5 | 3,5 | 1 | **29,55** |
| TA1320130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **29,55** |
| TA1320130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **31,15** |
| TA1320130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **31,15** |
| TA1320130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **35,95** |
| TA1320130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **40,68** |

## Maschio TA1321, rivestito TOP BLU, per fori passanti, rastremato, tolleranza 6H



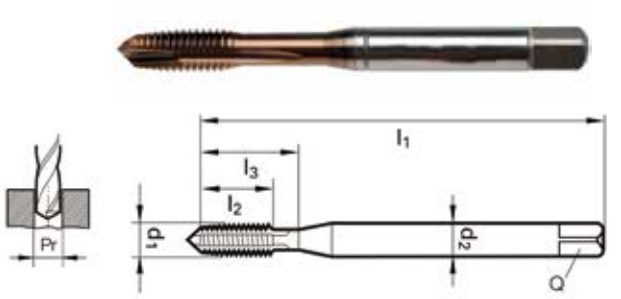




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1321130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **52,20** |
| TA1321130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **67,70** |
| TA1321130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **74,88** |
| TA1321130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **104,35** |
| TA1321130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **118,45** |
| TA1321130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **141,38** |
| TA1321130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **177,28** |
| TA1321130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **244,60** |
| TA1321130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **295,48** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1302, rivestito Si, rastremato, per fori passanti, tolleranza 6H

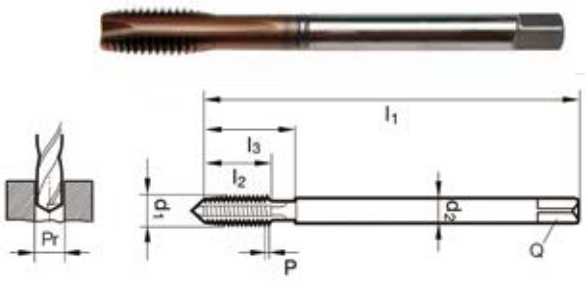



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1302130500300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **35,13** |
| TA1302130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **35,13** |
| TA1302130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **36,83** |
| TA1302130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **36,83** |
| TA1302130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **44,00** |
| TA1302130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **50,63** |

## Maschio TA1303, rivestito Si, rastremato, per fori passanti, tolleranza 6H

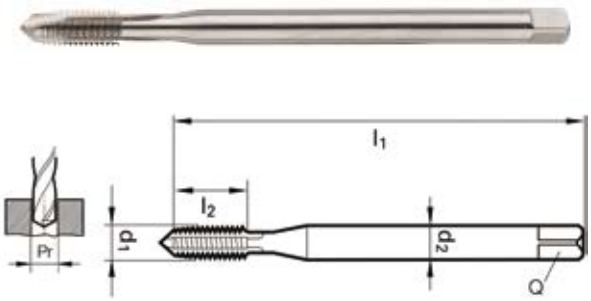



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1303130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **65,45** |
| TA1303130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **85,60** |
| TA1303130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **92,75** |
| TA1303130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **123,23** |
| TA1303130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **143,50** |
| TA1303130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **171,45** |
| TA1303130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **226,58** |
| TA1303130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **336,03** |
| TA1303130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **388,23** |

## Maschio standard TA1480, non rivestito, serie lunga, per fori passanti, tolleranza 6H

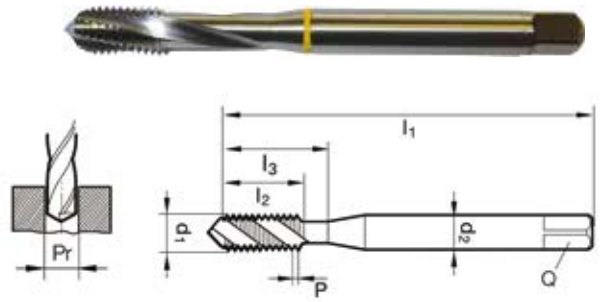



| Codice | d1 | Passo | l1 | l2 | d2 | Q | Pr | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1480130900400 | **M4** | 0,7 | 150 | 13 | 3,4 | 3,3 | 4,5 | 1 | **25,90** |
| TA1480130900500 | **M5** | 0,8 | 150 | 16 | 4,9 | 4,2 | 6 | 1 | **25,90** |
| TA1480130900600 | **M6** | 1 | 150 | 19 | 4,9 | 5 | 6 | 1 | **25,90** |
| TA1480130900800 | **M8** | 1,25 | 150 | 22 | 6,2 | 6,8 | 8 | 1 | **30,60** |
| TA1480130901000 | **M10** | 1,5 | 150 | 24 | 8 | 8,5 | 10 | 1 | **34,68** |
| TA1480130901200 | **M12** | 1,75 | 150 | 29 | 9 | 10,2 | 12 | 1 | **46,70** |

## Maschio standard TA1470, non rivestito, elica 15°, per fori ciechi, tolleranza 6H



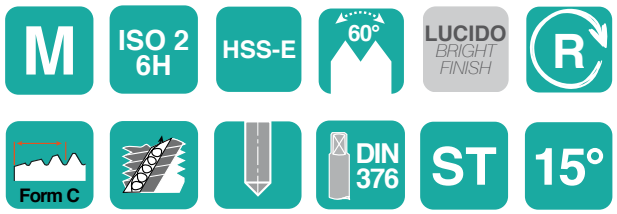



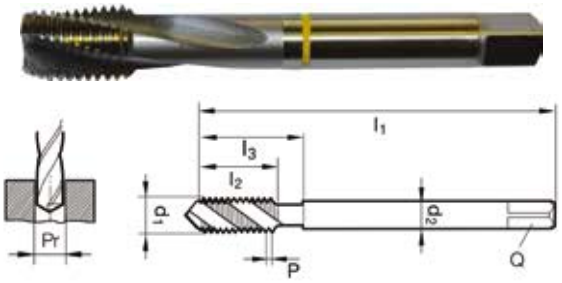

| Codice | d1 | Passo | l1 | l2 | d2 | Q | Pr | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1470130300300 | **M3** | 0,5 | 56 | 6 | 18 | 2,7 | 2,5 | 1 | **15,63** |
| TA1470130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 3,4 | 3,3 | 1 | **15,63** |
| TA1470130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 4,9 | 4,2 | 1 | **16,20** |
| TA1470130300600 | **M6** | 1 | 80 | 11 | 30 | 4,9 | 5 | 1 | **16,20** |
| TA1470130300800 | **M8** | 1,25 | 90 | 14 | 35 | 6,2 | 6,8 | 1 | **20,09** |
| TA1470130301000 | **M10** | 1,5 | 100 | 16 | 39 | 8 | 8,5 | 1 | **24,21** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

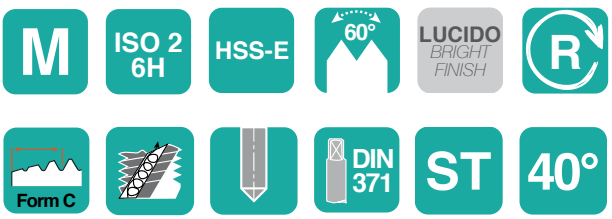
### Maschio standard TA1471, non rivestito, elica 15°, per fori ciechi, tolleranza 6H

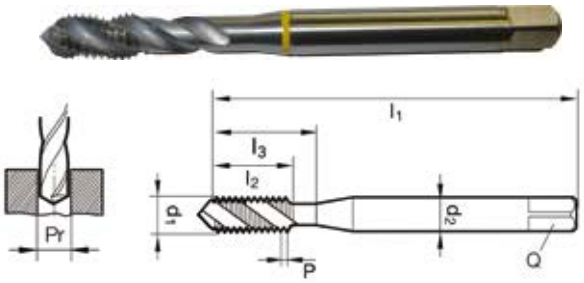



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1471130300300 | **M3** | 0,5 | 56 | 6 | 18 | - | 2,5 | 2,2 | 1 | **26,93** |
| TA1471130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 2,1 | 3,3 | 2,8 | 1 | **26,93** |
| TA1471130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 2,7 | 4,2 | 3,5 | 1 | **26,08** |
| TA1471130300600 | **M6** | 1 | 80 | 11 | 30 | 3,4 | 5 | 4,5 | 1 | **26,08** |
| TA1471130300800 | **M8** | 1,25 | 90 | 14 | 35 | 4,9 | 6,8 | 6 | 1 | **24,15** |
| TA1471130301000 | **M10** | 1,5 | 100 | 16 | 39 | 5,5 | 8,5 | 7 | 1 | **31,80** |
| TA1471130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **32,24** |
| TA1471130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **60,67** |
| TA1471130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **48,95** |
| TA1471130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **94,73** |
| TA1471130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **77,15** |
| TA1471130302400 | **M24** | 3 | 160 | 30 | 73 | 14,5 | 21 | 18 | 1 | **115,08** |
| TA1471130303000 | **M30** | 3,5 | 180 | 35 | 85 | 18 | 26,5 | 22 | 1 | **186,51** |

### Maschio standard TA1460, non rivestito, elica 40°, per fori ciechi, tolleranza 6H

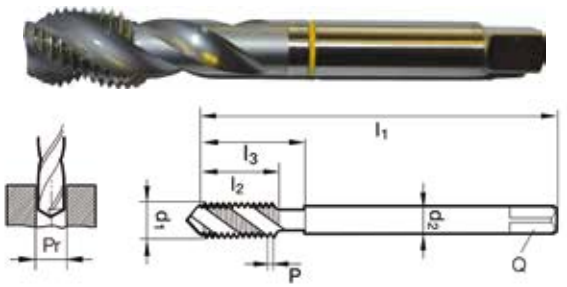



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1460130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **14,88** |
| TA1460130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **14,88** |
| TA1460130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **15,42** |
| TA1460130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **15,42** |
| TA1460130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **19,88** |
| TA1460130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **24,05** |

## Maschio standard TA1461, non rivestito, elica 40°, per fori ciechi, tolleranza 6H

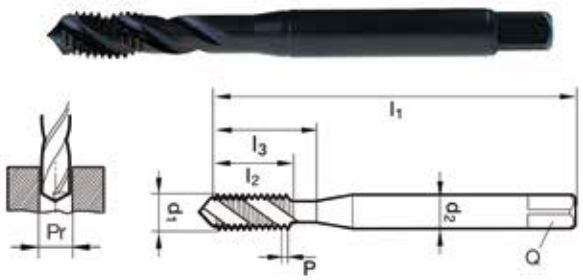



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1461130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **42,90** |
| TA1461130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **56,75** |
| TA1461130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **55,98** |
| TA1461130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **87,06** |
| TA1461130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **83,92** |

## Maschio universale TA1140, vaporizzato, elica 40°, per fori ciechi, tolleranza 6H, rastremato



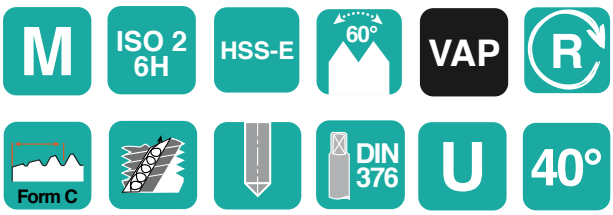



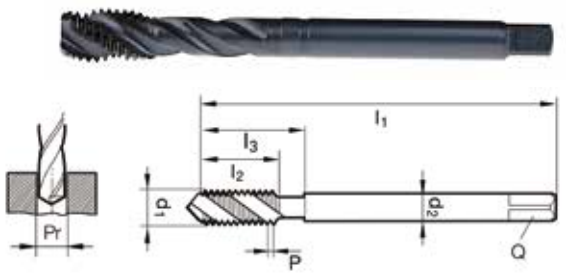

| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1140130300300 | **M3** | 0,5 | 56 | 6 | 18 | 2,7 | 2,5 | 3,5 | 1 | **14,42** |
| TA1140130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 3,4 | 3,3 | 4,5 | 1 | **14,42** |
| TA1140130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 4,9 | 4,2 | 6 | 1 | **15,17** |
| TA1140130300600 | **M6** | 1 | 80 | 11 | 30 | 4,9 | 5 | 6 | 1 | **15,66** |
| TA1140130300800 | **M8** | 1,25 | 90 | 14 | 35 | 6,2 | 6,8 | 8 | 1 | **18,36** |
| TA1140130301000 | **M10** | 1,5 | 100 | 16 | 39 | 8 | 8,5 | 10 | 1 | **21,12** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

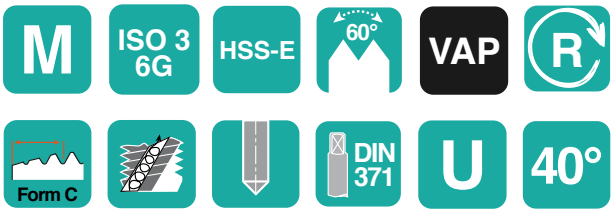
### Maschio universale TA1141, vaporizzato, elica 40°, per fori ciechi, tolleranza 6H, rastremato

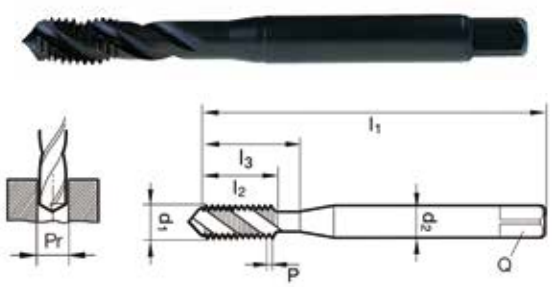



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1141130300300 | **M3** | 0,5 | 56 | 6 | 18 | - | 2.5 | 2,2 | 1 | **17,64** |
| TA1141130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 2,1 | 3,3 | 2,8 | 1 | **15,89** |
| TA1141130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 2,7 | 4,2 | 3,5 | 1 | **15,66** |
| TA1141130300600 | **M6** | 1 | 80 | 11 | 30 | 3,4 | 5 | 4,5 | 1 | **15,40** |
| TA1141130300800 | **M8** | 1,25 | 90 | 14 | 35 | 4,9 | 6,8 | 6 | 1 | **16,15** |
| TA1141130301000 | **M10** | 1,5 | 100 | 16 | 39 | 5,5 | 8,5 | 7 | 1 | **21,86** |
| TA1141130301200 | **M12** | 1,75 | 110 | 18,5 | 49 | 7 | 10,2 | 9 | 1 | **24,08** |
| TA1141130301400 | **M14** | 2 | 110 | 20 | 53 | 9 | 12 | 11 | 1 | **67,57** |
| TA1141130301600 | **M16** | 2 | 110 | 20 | 54 | 9 | 14 | 12 | 1 | **35,38** |
| TA1141130301800 | **M18** | 2,5 | 125 | 25 | 62 | 11 | 15,5 | 14 | 1 | **103,26** |
| TA1141130302000 | **M20** | 2,5 | 140 | 25 | 62 | 12 | 17,5 | 16 | 1 | **53,38** |
| TA1141130302200 | **M22** | 2,5 | 140 | 27 | 62 | 14,5 | 19,5 | 18 | 1 | **173,63** |
| TA1141130302400 | **M24** | 3 | 160 | 30 | 73 | 14,5 | 21 | 18 | 1 | **142,66** |
| TA1141130302700 | **M27** | 3 | 160 | 30 | 73 | 16 | 24 | 20 | 1 | **210,25** |
| TA1141130303000 | **M30** | 3,5 | 180 | 35 | 85 | 18 | 26,5 | 22 | 1 | **253,43** |

### Maschio universale TA1144, vaporizzato, elica 40°, per fori ciechi, tolleranza 6G, rastremato

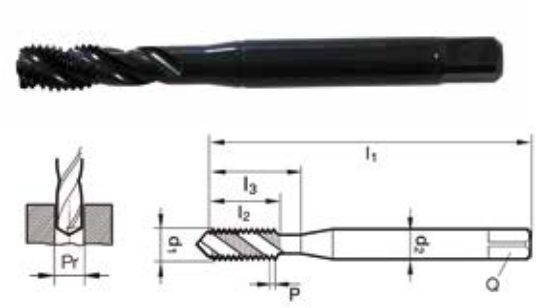



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1144130300300 | **M3** | 0,5 | 56 | 6 | 18 | 2,7 | 2,5 | 3,5 | 1 | **21,30** |
| TA1144130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 3,4 | 3,3 | 4,5 | 1 | **19,39** |
| TA1144130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 4,9 | 4,2 | 6 | 1 | **21,96** |
| TA1144130300600 | **M6** | 1 | 80 | 11 | 30 | 4,9 | 5 | 6 | 1 | **20,99** |
| TA1144130300800 | **M8** | 1,25 | 90 | 14 | 35 | 6,2 | 6,8 | 8 | 1 | **24,77** |
| TA1144130301000 | **M10** | 1,5 | 100 | 16 | 39 | 8 | 8,5 | 10 | 1 | **29,30** |

## Maschio universale TA1142, vaporizzato, elica 40°, per fori ciechi, tolleranza 6H, imbocco E, rastremato

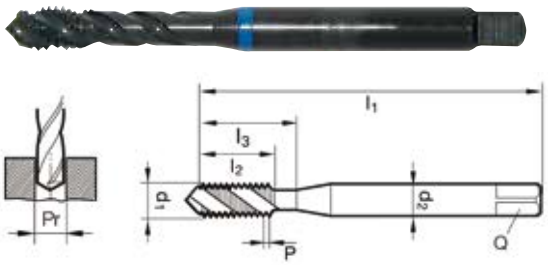



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1142130300300 | **M3** | 0,5 | 56 | 6 | 18 | 2,7 | 2,5 | 3,5 | 1 | **19,39** |
| TA1142130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 3,4 | 3,3 | 4,5 | 1 | **21,30** |
| TA1142130300500 | **M5** | 0,8 | 70 | 8,5 | 25 | 4,9 | 4,2 | 6 | 1 | **19,39** |
| TA1142130300600 | **M6** | 1 | 80 | 11 | 30 | 4,9 | 5 | 6 | 1 | **19,72** |
| TA1142130300800 | **M8** | 1,25 | 90 | 14 | 35 | 6,2 | 6,8 | 8 | 1 | **23,87** |
| TA1142130301000 | **M10** | 1,5 | 100 | 16 | 39 | 8 | 8,5 | 10 | 1 | **31,16** |

## Maschio TA1464, vaporizzato, specifico per acciai inossidabili, elica 40°, per fori ciechi, tolleranza 6H, rastremato

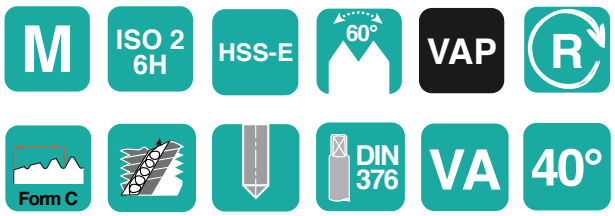


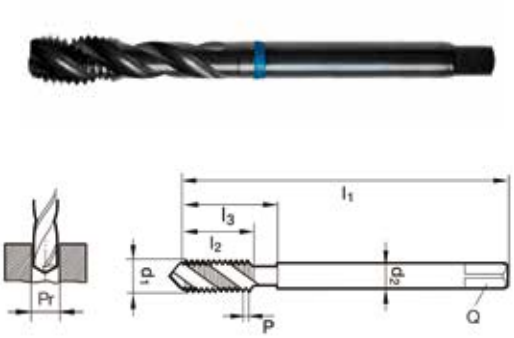




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1464130900300 | **M3** | 0,5 | 56 | 11 | 18 | 2.7 | 2.5 | 3.5 | 1 | **20,80** |
| TA1464130900400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **20,80** |
| TA1464130900500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **21,71** |
| TA1464130900600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **21,71** |
| TA1464130900800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **27,92** |
| TA1464130901000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **33,75** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1465, vaporizzato, specifico per acciai inossidabili, elica 40°, per fori ciechi, tolleranza 6H, rastremato



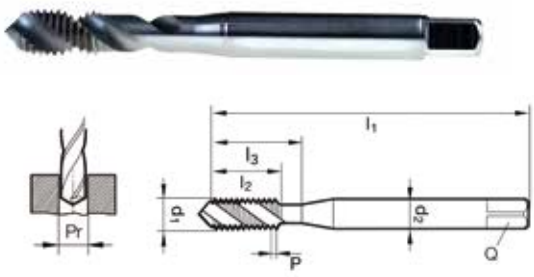






| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1465130901200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **44,95** |
| TA1465130901400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **49,84** |
| TA1465130901600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **69,08** |
| TA1465130901800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **91,65** |
| TA1465130902000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **105,59** |
| TA1465130902200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **130,10** |
| TA1465130902400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **151,79** |

## Maschio TA1148, non rivestito, specifico per alluminio, elica 45°, per fori ciechi, tolleranza 6H, rastremato



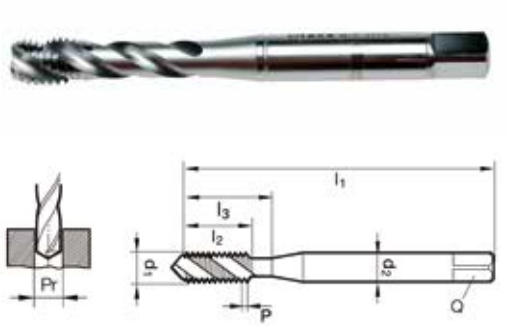






| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1148130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **25,26** |
| TA1148130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **25,26** |
| TA1148130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **27,22** |
| TA1148130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **27,22** |
| TA1148130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **31,65** |
| TA1148130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **38,01** |

## Maschio TA1304, rivestito al cromo, elica 40°, per fori ciechi, tolleranza 6H




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1304130500300 | **M3** | 0.50 | 56 | 11 | 18 | 2.7 | 2.5 | 3.5 | 1 | **33,00** |
| TA1304130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **33,00** |
| TA1304130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **34,45** |
| TA1304130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **34,45** |
| TA1304130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **40,05** |
| TA1304130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **47,30** |

## Maschio TA1305, rivestito al cromo, elica 40°, per fori ciechi, tolleranza 6H, rastremato





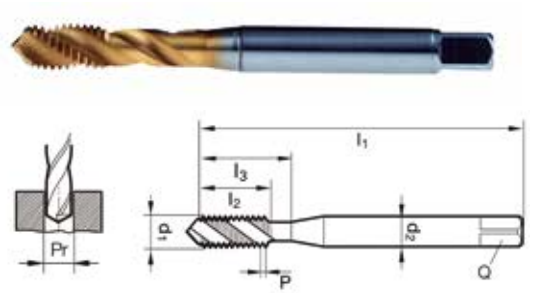


| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1305130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **56,98** |
| TA1305130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **77,90** |
| TA1305130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **88,50** |
| TA1305130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **125,88** |
| TA1305130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **137,93** |
| TA1305130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **159,28** |
| TA1305130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **203,15** |
| TA1305130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **279,05** |
| TA1305130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **348,75** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio universale TA1266, rivestito TiN, elica 40°, per fori ciechi, tolleranza 6H, rastremato

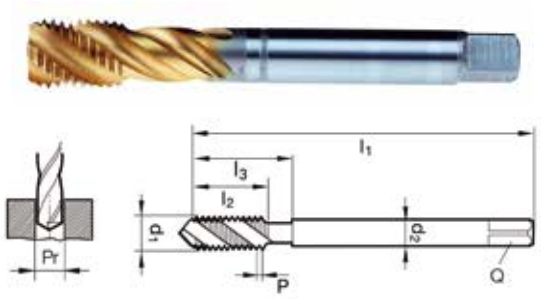



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1266130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **18,85** |
| TA1266130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **19,67** |
| TA1266130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **20,29** |
| TA1266130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **22,40** |
| TA1266130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **26,81** |
| TA1266130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **32,37** |

## Maschio universale TA1267, rivestito TiN, elica 40°, per fori ciechi, tolleranza 6H, rastremato

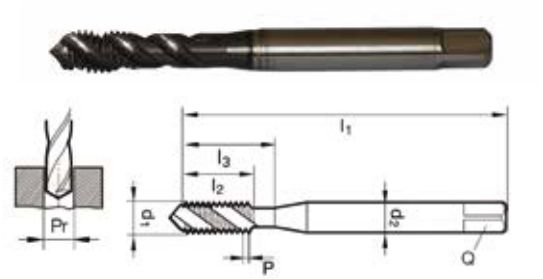



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1267130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **41,46** |
| TA1267130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **53,95** |
| TA1267130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **62,37** |
| TA1267130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **81,32** |
| TA1267130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **97,10** |

## Maschio TA1160, affilatura VA, rivestito TiAlN, per fori ciechi, ad alte prestazioni, per acciai inox e superleghe, elica 45°, tolleranza 6HX

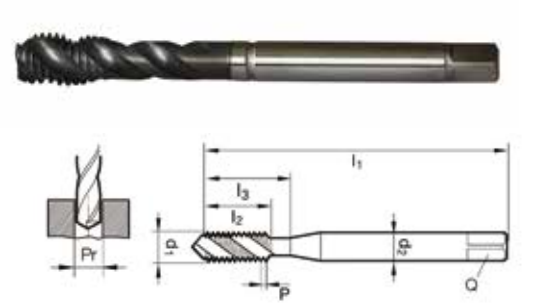



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1160130300200 | **M2** | 0,4 | 45 | 4,5 | 13,5 | 2,1 | 1,6 | 2,8 | 1 | **48,20** |
| TA1160130300300 | **M3** | 0,5 | 56 | 6 | 18 | 2,7 | 2,5 | 3,5 | 1 | **45,19** |
| TA1160130300400 | **M4** | 0,7 | 63 | 7,5 | 21 | 3,4 | 3,3 | 4,5 | 1 | **46,20** |
| TA1160130300500 | **M4** | 0,8 | 70 | 8,5 | 25 | 4,9 | 4,2 | 6 | 1 | **48,20** |
| TA1160130300600 | **M6** | 1 | 80 | 11 | 30 | 4,9 | 5 | 6 | 1 | **49,21** |
| TA1160130300800 | **M8** | 1,25 | 90 | 14 | 35 | 6,2 | 6,8 | 8 | 1 | **56,91** |
| TA1160130301000 | **M10** | 1,5 | 100 | 16 | 39 | 8 | 8,5 | 10 | 1 | **71,83** |

## Maschio TA1161, affilatura VA, rivestito TiAlN, per fori ciechi, ad alte prestazioni, per acciai inox e superleghe, elica 45°, tolleranza 6HX



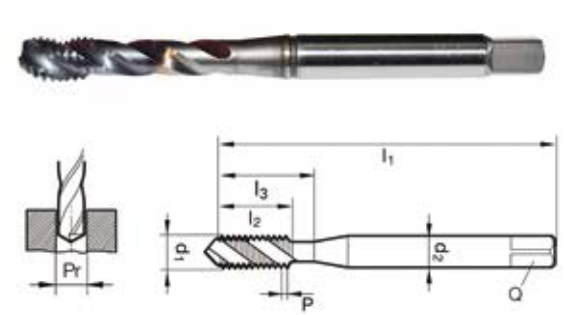

| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1161130301200 | **M12** | 1,75 | 110 | 18,5 | 49 | 7 | 10,2 | 9 | 1 | **84,52** |
| TA1161130301400 | **M14** | 2 | 110 | 20 | 53 | 9 | 12 | 11 | 1 | **128,54** |
| TA1161130301600 | **M16** | 2 | 110 | 20 | 54 | 9 | 14 | 12 | 1 | **127,71** |
| TA1161130301800 | **M18** | 2,5 | 125 | 25 | 62 | 11 | 15,5 | 14 | 1 | **213,91** |
| TA1161130302000 | **M20** | 2,5 | 140 | 25 | 62 | 12 | 17,5 | 16 | 1 | **191,48** |
| TA1161130302400 | **M24** | 3 | 140 | 30 | 73 | 14,5 | 21 | 18 | 1 | **280,86** |
| TA1161130303000 | **M30** | 3,5 | 180 | 35 | 85 | 18 | 26,5 | 22 | 1 | **339,77** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Maschio TA1325, rivestito TOP BLU, elica 40°, per fori ciechi, tolleranza 6H, rastremato

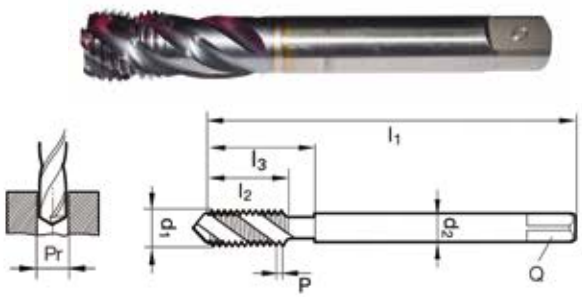



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1325130500300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **33,83** |
| TA1325130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **33,83** |
| TA1325130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **35,38** |
| TA1325130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **35,38** |
| TA1325130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **41,35** |
| TA1325130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **48,48** |

### Maschio TA1326, rivestito TOP BLU, elica 40°, per fori ciechi, tolleranza 6H, rastremato

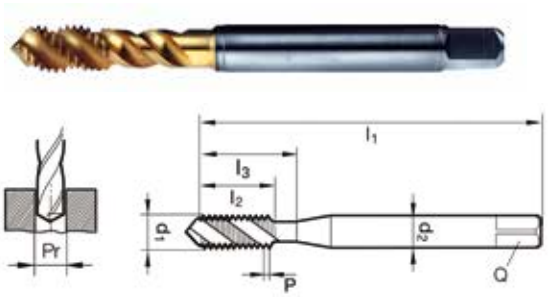



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1326130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10,2 | 9 | 1 | **58,98** |
| TA1326130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **80,83** |
| TA1326130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **91,30** |
| TA1326130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **131,18** |
| TA1326130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **144,83** |
| TA1326130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **167,35** |
| TA1326130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **211,73** |
| TA1326130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **288,85** |
| TA1326130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **363,05** |

## Maschio ad alte prestazioni TA1360, rivestito TiN, elica 50°, per fori ciechi, tolleranza 6H, rastremato

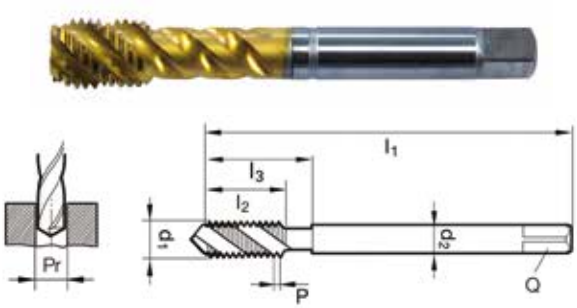



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1360130300300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **24,33** |
| TA1360130300400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **24,33** |
| TA1360130300500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **26,06** |
| TA1360130300600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **30,41** |
| TA1360130300800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **36,00** |
| TA1360130301000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **45,32** |

## Maschio ad alte prestazioni TA1361, rivestito TiN, elica 50°, per fori ciechi, tolleranza 6H, rastremato



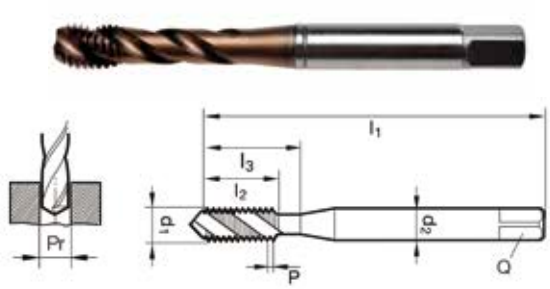




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1361130301200 | **M12** | 1,75 | 110 | 18,5 | 49 | 7 | 10,2 | 9 | 1 | **53,38** |
| TA1361130301400 | **M14** | 2 | 110 | 20 | 53 | 9 | 12 | 11 | 1 | **98,57** |
| TA1361130301600 | **M16** | 2 | 110 | 20 | 54 | 9 | 14 | 12 | 1 | **76,97** |
| TA1361130302000 | **M20** | 2,5 | 140 | 25 | 62 | 12 | 17,5 | 16 | 1 | **88,14** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1306, rivestito Si, elica 40°, per fori ciechi, tolleranza 6H, rastremato

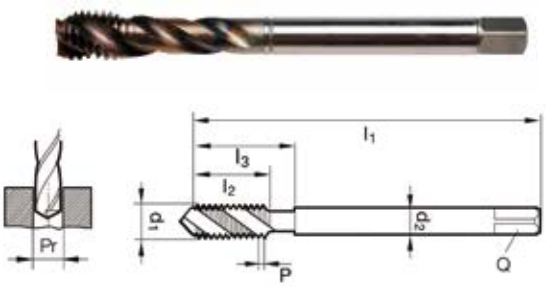



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1306130500300 | **M3** | 0,5 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **40,03** |
| TA1306130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **40,03** |
| TA1306130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **41,75** |
| TA1306130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **41,75** |
| TA1306130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **50,35** |
| TA1306130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **59,63** |

## Maschio TA1307, rivestito Si, elica 40°, per fori ciechi, tolleranza 6H, rastremato

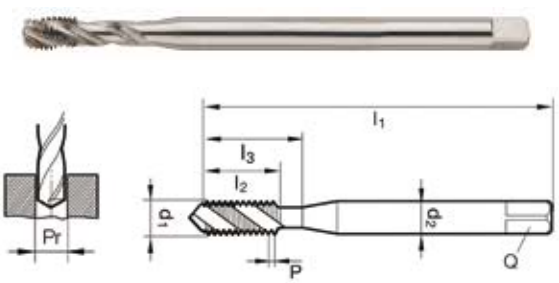



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1307130501200 | **M12** | 1.75 | 110 | 24 | 49 | 7 | 10.2 | 9 | 1 | **73,68** |
| TA1307130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **100,65** |
| TA1307130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **112,23** |
| TA1307130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **157,40** |
| TA1307130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **174,50** |
| TA1307130502200 | **M22** | 2,5 | 140 | 32 | 62 | 14,5 | 19,5 | 18 | 1 | **201,40** |
| TA1307130502400 | **M24** | 3 | 160 | 36 | 73 | 14,5 | 21 | 18 | 1 | **267,65** |
| TA1307130502700 | **M27** | 3 | 160 | 36 | 73 | 16 | 24 | 20 | 1 | **389,55** |
| TA1307130503000 | **M30** | 3,5 | 180 | 40 | 85 | 18 | 26,5 | 22 | 1 | **461,10** |

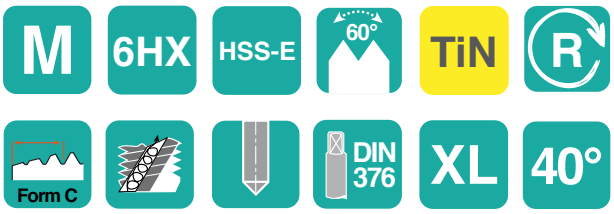
## Maschio standard TA1485, non rivestito, elica 40°, per fori ciechi, serie lunga, tolleranza 6H

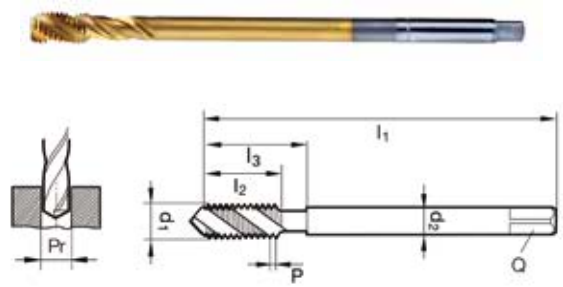



| Codice | d1 | Passo | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1485130900400 | **M4** | 0,7 | 150 | 13 | 3,4 | 3,3 | 4.5 | 1 | **27,22** |
| TA1485130900500 | **M5** | 0,8 | 150 | 16 | 4,9 | 4,2 | 6 | 1 | **27,22** |
| TA1485130900600 | **M6** | 1 | 150 | 19 | 4,9 | 5 | 6 | 1 | **27,22** |
| TA1485130900800 | **M8** | 1,25 | 150 | 22 | 6,2 | 6,8 | 8 | 1 | **31,30** |
| TA1485130901000 | **M10** | 1,5 | 150 | 24 | 8 | 8,5 | 10 | 1 | **36,50** |
| TA1485130901200 | **M12** | 1,75 | 150 | 29 | 9 | 10,2 | 12 | 1 | **43,94** |

## Maschio universale TA1280, rivestito TiN, elica 40°, per fori ciechi, serie extra lunga, tolleranza 6HX, rastremato



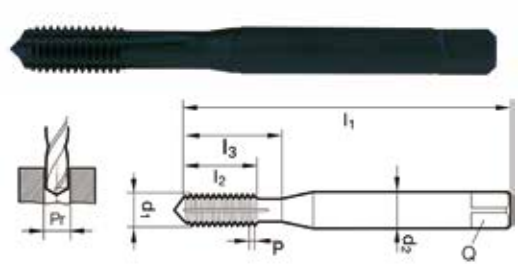

| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1280130300300 | **M3** | 0,5 | 112 | 6 | 18 | 2,7 | 2,5 | 3,5 | 1 | **66,00** |
| TA1280130300400 | **M4** | 0,7 | 112 | 7,5 | 77 | 2,1 | 3,3 | 2,8 | 1 | **58,84** |
| TA1280130300500 | **M5** | 0,8 | 125 | 8,5 | 90 | 2,7 | 4,2 | 3,5 | 1 | **58,84** |
| TA1280130300600 | **M6** | 1 | 125 | 11 | 90 | 3,4 | 5 | 4,5 | 1 | **58,84** |
| TA1280130300800 | **M8** | 1,25 | 140 | 14 | 97 | 4,9 | 6,8 | 6 | 1 | **60,41** |
| TA1280130301000 | **M10** | 1,5 | 160 | 16 | 117 | 5,5 | 8,5 | 7 | 1 | **73,16** |
| TA1281130301200 | **M12** | 1,75 | 180 | 18,5 | 133 | 7 | 10,2 | 9 | 1 | **84,28** |
| TA1281130301600 | **M16** | 2 | 220 | 20 | 168 | 9 | 14 | 12 | 1 | **116,08** |
| TA1281130302000 | **M20** | 2,5 | 280 | 25 | 225 | 12 | 17,5 | 16 | 1 | **173,32** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Maschio TA1102, vaporizzato, specifico per ghisa, per fori ciechi e passanti, tolleranza 6HX

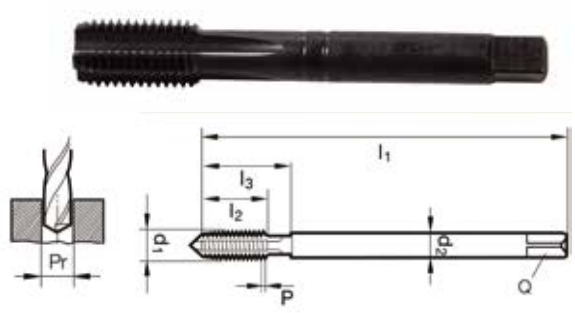



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1102130300300 | **M3** | 0,5 | 56 | 10 | 18 | 2,7 | 2,5 | 3,5 | 1 | **23,51** |
| TA1102130300400 | **M4** | 0,7 | 63 | 12 | 21 | 3,4 | 3,3 | 4,5 | 1 | **23,51** |
| TA1102130300500 | **M5** | 0,8 | 70 | 14 | 25 | 4,9 | 4,2 | 6 | 1 | **23,51** |
| TA1102130300600 | **M6** | 1 | 80 | 16 | 30 | 4,9 | 5 | 6 | 1 | **23,51** |
| TA1102130300800 | **M8** | 1,25 | 90 | 17 | 35 | 6,2 | 6,8 | 8 | 1 | **29,41** |
| TA1102130301000 | **M10** | 1,5 | 100 | 20 | 39 | 8 | 8,5 | 10 | 1 | **36,98** |

### Maschio TA1103, vaporizzato, specifico per ghisa, per fori ciechi e passanti, tolleranza 6HX

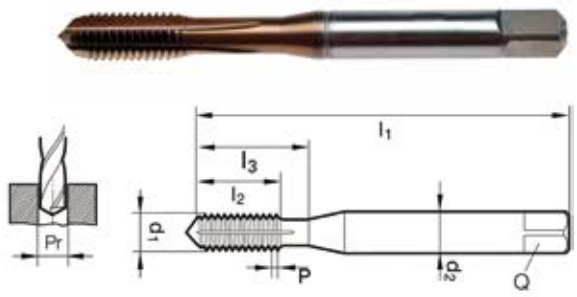



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1103130301200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10.2 | 9 | 1 | **42,72** |
| TA1103130301400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **65,71** |
| TA1103130301600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **61,95** |
| TA1103130301800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **106,06** |
| TA1103130302000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **101,38** |

## Maschio TA1308, rivestito Si, alte prestazioni su ghisa, per fori ciechi e passanti, tolleranza 6HX, rastremato

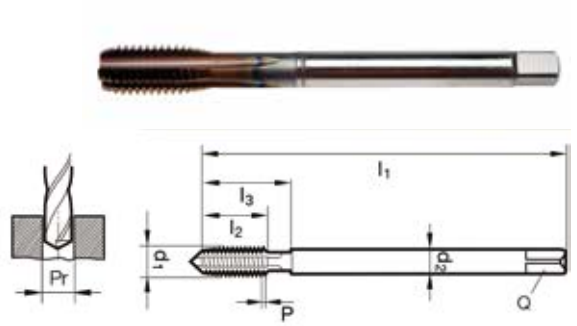



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1308130500300 | **M3** | 0.50 | 56 | 11 | 18 | 2,7 | 2,5 | 3,5 | 1 | **33,93** |
| TA1308130500400 | **M4** | 0,7 | 63 | 13 | 21 | 3,4 | 3,3 | 4,5 | 1 | **33,93** |
| TA1308130500500 | **M5** | 0,8 | 70 | 15 | 25 | 4,9 | 4,2 | 6 | 1 | **35,65** |
| TA1308130500600 | **M6** | 1 | 80 | 17 | 30 | 4,9 | 5 | 6 | 1 | **35,65** |
| TA1308130500800 | **M8** | 1,25 | 90 | 20 | 35 | 6,2 | 6,8 | 8 | 1 | **44,13** |
| TA1308130501000 | **M10** | 1,5 | 100 | 22 | 39 | 8 | 8,5 | 10 | 1 | **48,50** |

## Maschio TA1309, rivestito Si, alte prestazioni su ghisa, per fori ciechi e passanti, tolleranza 6HX, rastremato



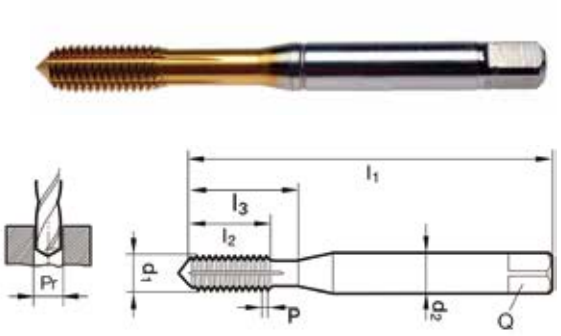

| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1309130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 10.2 | 9 | 1 | **61,88** |
| TA1309130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 12 | 11 | 1 | **81,10** |
| TA1309130501600 | **M16** | 2 | 110 | 27 | 54 | 9 | 14 | 12 | 1 | **92,48** |
| TA1309130501800 | **M18** | 2,5 | 125 | 30 | 62 | 11 | 15,5 | 14 | 1 | **119,65** |
| TA1309130502000 | **M20** | 2,5 | 140 | 32 | 62 | 12 | 17,5 | 16 | 1 | **136,75** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

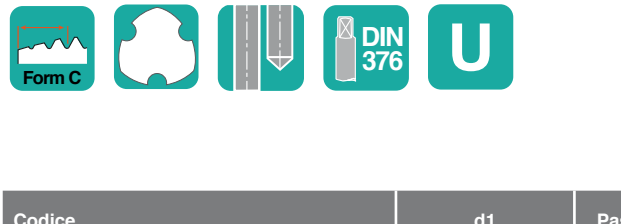
### Maschio universale TA1282, a rullare con canalini, rivestito TiN, per fori ciechi e passanti, tolleranza 6HX

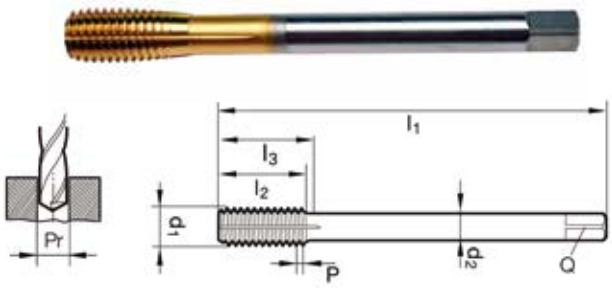



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1282130300300 | **M3** | 0,5 | 56 | 10 | 18 | 2,7 | 2,8 | 3,5 | 1 | **36,62** |
| TA1282130300400 | **M4** | 0,7 | 63 | 12 | 21 | 3,4 | 3,7 | 4,5 | 1 | **37,34** |
| TA1282130300500 | **M5** | 0,8 | 70 | 14 | 25 | 4,9 | 4,65 | 6 | 1 | **39,14** |
| TA1282130300600 | **M6** | 1 | 80 | 16 | 30 | 4,9 | 5,55 | 6 | 1 | **41,30** |
| TA1282130300800 | **M8** | 1,25 | 90 | 17 | 35 | 6,2 | 7,4 | 8 | 1 | **47,69** |
| TA1282130301000 | **M10** | 1,5 | 100 | 20 | 39 | 8 | 9,3 | 10 | 1 | **61,62** |

### Maschio universale TA1288, a rullare con canalini, rivestito TiN, per fori ciechi e passanti, tolleranza 6HX

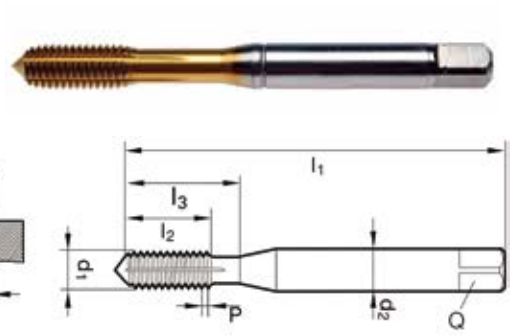



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1288130501200 | **M12** | 1,75 | 110 | 24 | 49 | 7 | 11,2 | 9 | 1 | **103,08** |
| TA1288130501400 | **M14** | 2 | 110 | 26 | 53 | 9 | 13,1 | 11 | 1 | **131,45** |
| TA1288130501600 | **M16** | 2 | 110 | 26 | 54 | 9 | 15,1 | 12 | 1 | **170,93** |

## Maschio universale ad alte prestazioni TA1382, a rullare con canalini, rivestito TiN, per fori ciechi e passanti, tolleranza 6HX

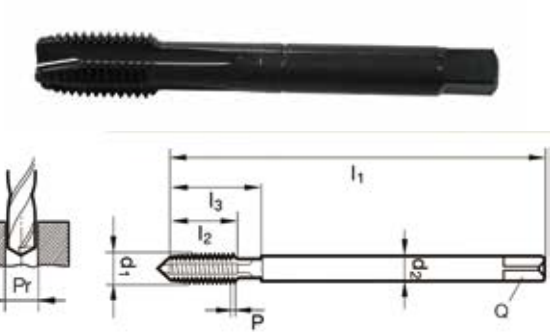



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1382130300300 | **M3** | 0,5 | 56 | 10 | 18 | 2,7 | 2,8 | 3,5 | 1 | **53,40** |
| TA1382130300400 | **M4** | 0,7 | 63 | 12 | 21 | 3,4 | 3,7 | 4,5 | 1 | **53,40** |
| TA1382130300500 | **M5** | 0,8 | 70 | 14 | 25 | 4,9 | 4,65 | 6 | 1 | **53,40** |
| TA1382130300600 | **M6** | 1 | 80 | 16 | 30 | 4,9 | 5,55 | 6 | 1 | **53,40** |
| TA1382130300800 | **M8** | 1,25 | 90 | 17 | 35 | 6,2 | 7,4 | 8 | 1 | **61,35** |
| TA1382130301000 | **M10** | 1,5 | 100 | 20 | 39 | 8 | 9,3 | 10 | 1 | **79,23** |

## Maschio universale TA1174, vaporizzato, passo fine, per fori passanti, tolleranza 6H



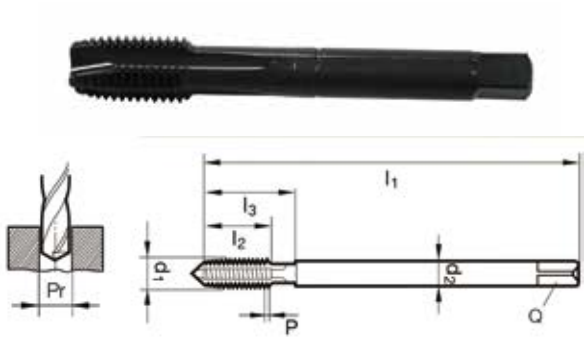




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1174130304050 | **MF 4x0,50** | 0,5 | 63 | 8 | 21 | 2,1 | 3,5 | 2,8 | 1 | **33,42** |
| TA1174130305050 | **MF 5x0,50** | 0,5 | 70 | 10 | 25 | 2,7 | 4,5 | 3,5 | 1 | **33,42** |
| TA1174130306075 | **MF 6x0,75** | 0,75 | 80 | 13 | 30 | 3,4 | 5,2 | 4,5 | 1 | **33,42** |
| TA1174130308100 | **MF 8x1,00** | 1 | 90 | 17 | 35 | 4,9 | 7 | 6 | 1 | **29,90** |
| TA1174130310100 | **MF 10x1,00** | 1 | 90 | 17 | 35 | 5,5 | 9 | 7 | 1 | **30,82** |
| TA1174130312100 | **MF 12x1,00** | 1 | 100 | 20 | 40 | 7 | 11 | 9 | 1 | **39,76** |
| TA1174130312150 | **MF 12x1,50** | 1,5 | 100 | 20 | 40 | 7 | 10,5 | 9 | 1 | **34,97** |
| TA1174130314100 | **MF 14x1,00** | 1 | 100 | 20 | 40 | 9 | 13 | 11 | 1 | **71,66** |
| TA1174130314150 | **MF 14x1,50** | 1,5 | 100 | 20 | 40 | 9 | 12,5 | 11 | 1 | **50,11** |
| TA1174130316100 | **MF 16x1,00** | 1 | 100 | 22 | 44 | 9 | 15 | 12 | 1 | **93,88** |
| TA1174130316150 | **MF 16x1,50** | 1,5 | 100 | 22 | 44 | 9 | 14,5 | 12 | 1 | **51,71** |
| TA1174130318100 | **MF 18x1,00** | 1 | 110 | 25 | 44 | 11 | 17 | 14 | 1 | **121,13** |
| TA1174130318150 | **MF 18x1,50** | 1,5 | 110 | 25 | 44 | 11 | 16,5 | 16 | 1 | **113,04** |
| TA1174130320150 | **MF 20x1,50** | 1,5 | 125 | 25 | 44 | 12 | 18,5 | 16 | 1 | **79,49** |
| TA1174130320200 | **MF 20x2,00** | 2 | 125 | 25 | 44 | 12 | 18 | 18 | 1 | **165,55** |
| TA1174130322150 | **MF 22x1,50** | 1,5 | 125 | 25 | 44 | 14,5 | 20,5 | 18 | 1 | **181,69** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio universale TA1174, vaporizzato, passo fine, per fori passanti, tolleranza 6H

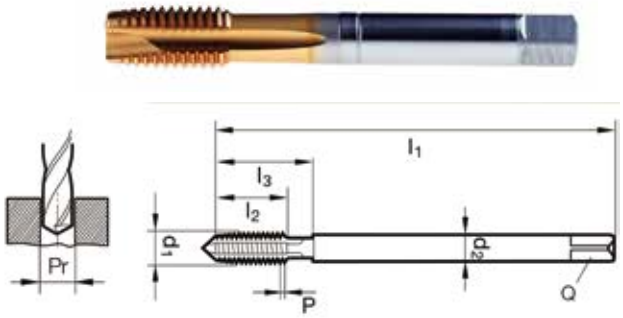



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1174130324150 | **MF 24x1,50** | 1,5 | 140 | 28 | 48 | 14,5 | 22,5 | 18 | 1 | **156,46** |
| TA1174130324200 | **MF 24x2,00** | 2 | 140 | 28 | 48 | 14,5 | 22 | 20 | 1 | **152,41** |
| TA1174130326150 | **MF 26x1,50** | 1,5 | 140 | 28 | 50 | 14,5 | 24,5 | 20 | 1 | **170,59** |
| TA1174130327150 | **MF 27x1,50** | 1,5 | 140 | 28 | 53 | 16 | 25,5 | 20 | 1 | **211,97** |
| TA1174130327200 | **MF 27x2,00** | 2 | 140 | 28 | 53 | 16 | 25 | 20 | 1 | **205,92** |
| TA1174130328150 | **MF 28x1,50** | 1,5 | 140 | 28 | 53 | 16 | 26,5 | 20 | 1 | **209,97** |
| TA1174130330150 | **MF 30x1,50** | 1,5 | 150 | 28 | 53 | 18 | 28,5 | 22 | 1 | **205,92** |
| TA1174130330200 | **MF 30x2,00** | 2 | 150 | 28 | 53 | 18 | 28 | 22 | 1 | **232,16** |

## Maschio universale TA1175, rivestito TiN, passo fine, per fori passanti, tolleranza 6H

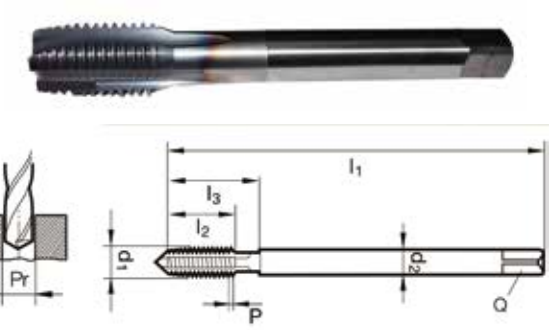



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1175130308100 | **MF 8x1,00** | 1 | 90 | 17 | 35 | 4,9 | 7 | 6 | 1 | **48,49** |
| TA1175130310100 | **MF 10x1,00** | 1 | 90 | 17 | 35 | 5,5 | 9 | 7 | 1 | **55,67** |
| TA1175130310125 | **MF 10x1,25** | 1,25 | 100 | 20 | 39 | 5,5 | 8,8 | 7 | 1 | **59,66** |
| TA1175130312100 | **MF 12x1,00** | 1 | 100 | 20 | 40 | 7 | 11 | 9 | 1 | **68,39** |
| TA1175130312125 | **MF 12x1,25** | 1,25 | 100 | 20 | 40 | 7 | 10,8 | 9 | 1 | **71,56** |
| TA1175130312150 | **MF 12x1,50** | 1,5 | 100 | 20 | 40 | 7 | 10,5 | 9 | 1 | **63,60** |
| TA1175130314100 | **MF 14x1,00** | 1 | 100 | 20 | 40 | 9 | 13 | 11 | 1 | **82,66** |
| TA1175130314150 | **MF 14x1,50** | 1,5 | 100 | 20 | 40 | 9 | 12,5 | 11 | 1 | **78,74** |
| TA1175130316150 | **MF 16x1,50** | 1,5 | 100 | 22 | 44 | 9 | 14,5 | 12 | 1 | **89,04** |
| TA1175130318150 | **MF 18x1,50** | 1,5 | 110 | 25 | 44 | 11 | 16,5 | 14 | 1 | **117,63** |
| TA1175130320150 | **MF 20x1,50** | 1,5 | 125 | 25 | 44 | 12 | 18,5 | 16 | 1 | **158,98** |
| TA1175130322150 | **MF 22x1,50** | 1,5 | 125 | 25 | 44 | 14,5 | 20,5 | 18 | 1 | **149,43** |
| TA1175130324150 | **MF 24x1,50** | 1,5 | 140 | 28 | 48 | 14,5 | 22,5 | 18 | 1 | **171,70** |
| TA1175130324200 | **MF 24x2,00** | 2 | 140 | 28 | 48 | 14,5 | 22 | 18 | 1 | **195,57** |

## Maschio TA1311, rivestito TOP BLU, passo fine, per fori passanti, tolleranza 6H, rastremato



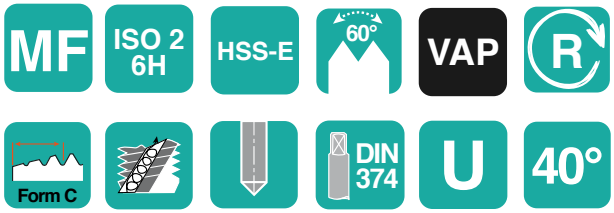



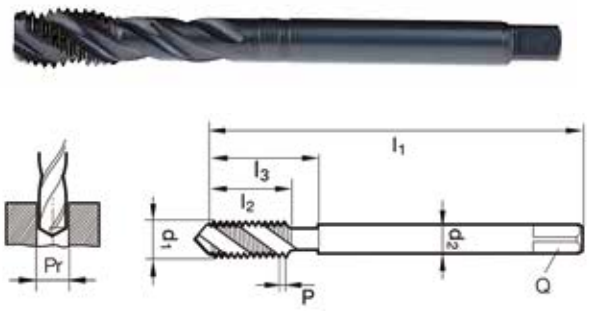

| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1311130508100 | **MF 8x1,00** | 1 | 90 | 17 | 35 | 4,9 | 7 | 6 | 1 | **44,60** |
| TA1311130510100 | **MF 10x1,00** | 1 | 90 | 17 | 35 | 5,5 | 9 | 7 | 1 | **47,30** |
| TA1311130510125 | **MF 10x1,25** | 1,25 | 100 | 20 | 39 | 5,5 | 8,8 | 7 | 1 | **45,80** |
| TA1311130512100 | **MF 12x1,00** | 1 | 100 | 20 | 40 | 7 | 11 | 9 | 1 | **58,40** |
| TA1311130512125 | **MF 12x1,25** | 1,25 | 100 | 20 | 40 | 7 | 10,8 | 9 | 1 | **55,65** |
| TA1311130512150 | **MF 12x1,50** | 1,5 | 100 | 20 | 40 | 7 | 10,5 | 9 | 1 | **55,65** |
| TA1311130514100 | **MF 14x1,00** | 1 | 100 | 20 | 40 | 9 | 13 | 11 | 1 | **76,20** |
| TA1311130514150 | **MF 14x1,50** | 1,5 | 100 | 20 | 40 | 9 | 12,5 | 11 | 1 | **71,83** |
| TA1311130516100 | **MF 16x1,00** | 1 | 100 | 22 | 44 | 9 | 15 | 12 | 1 | **90,78** |
| TA1311130516150 | **MF 16x1,50** | 1,5 | 100 | 22 | 44 | 9 | 14,5 | 12 | 1 | **79,10** |
| TA1311130518100 | **MF 18x1,00** | 1 | 110 | 25 | 44 | 11 | 17 | 14 | 1 | **115,60** |
| TA1311130518150 | **MF 18x1,50** | 1,5 | 110 | 25 | 44 | 11 | 16,5 | 14 | 1 | **101,38** |
| TA1311130520100 | **MF 20x1,00** | 1,5 | 125 | 25 | 44 | 12 | 18,5 | 16 | 1 | **131,98** |
| TA1311130520150 | **MF 20x1,50** | 1,5 | 125 | 25 | 44 | 12 | 18 | 16 | 1 | **120,78** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Maschio universale TA1176, vaporizzato, passo fine, elica 40°, per fori ciechi, tolleranza 6H, rastremato

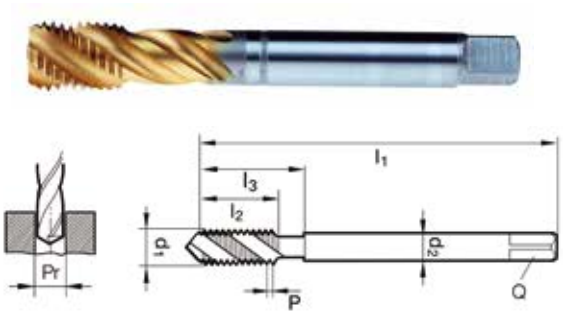



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1176130304050 | **MF 4x0,50** | 0,5 | 63 | 5 | 21 | 2,1 | 3,5 | 2,8 | 1 | **33,42** |
| TA1176130305050 | **MF 5x0,50** | 0,5 | 70 | 5 | 25 | 2,7 | 4,5 | 3,5 | 1 | **33,42** |
| TA1176130306075 | **MF 6x0,75** | 0,75 | 80 | 8 | 30 | 3,4 | 5,2 | 4,5 | 1 | **35,79** |
| TA1176130308100 | **MF 8x1,00** | 1 | 90 | 11 | 35 | 4,9 | 7 | 6 | 1 | **28,92** |
| TA1176130310100 | **MF 10x1,00** | 1 | 90 | 11 | 35 | 5,5 | 9 | 7 | 1 | **30,26** |
| TA1176130310125 | **MF 10x1,25** | 1,25 | 100 | 14 | 39 | 5,5 | 8,8 | 7 | 1 | **33,42** |
| TA1176130312100 | **MF 12x1,00** | 1 | 100 | 11 | 40 | 7 | 11 | 9 | 1 | **40,58** |
| TA1176130312125 | **MF 12x1,25** | 1,25 | 100 | 16 | 40 | 7 | 10,8 | 9 | 1 | **47,69** |
| TA1176130312150 | **MF 12x1,50** | 1,5 | 100 | 16 | 40 | 7 | 10,5 | 9 | 1 | **35,79** |
| TA1176130314100 | **MF 14x1,00** | 1 | 100 | 11 | 40 | 9 | 13 | 11 | 1 | **53,28** |
| TA1176130314150 | **MF 14x1,50** | 1,5 | 100 | 15 | 40 | 9 | 12,5 | 11 | 1 | **48,49** |
| TA1176130316100 | **MF 16x1,00** | 1 | 100 | 11 | 44 | 9 | 15 | 12 | 1 | **57,24** |
| TA1176130316150 | **MF 16x1,50** | 1,5 | 100 | 15 | 44 | 9 | 14,5 | 12 | 1 | **55,67** |
| TA1176130318100 | **MF 18x1,00** | 1 | 110 | 12 | 44 | 11 | 17 | 14 | 1 | **120,12** |
| TA1176130318150 | **MF 18x1,50** | 1,5 | 110 | 16 | 44 | 11 | 16,5 | 14 | 1 | **118,09** |
| TA1176130320150 | **MF 20x1,50** | 1,5 | 125 | 16 | 44 | 12 | 18,5 | 16 | 1 | **70,76** |
| TA1176130322150 | **MF 22x1,50** | 1,5 | 125 | 16 | 44 | 14,5 | 20,5 | 18 | 1 | **155,45** |
| TA1176130324150 | **MF 24x1,50** | 1,5 | 140 | 16 | 48 | 14,5 | 22,5 | 18 | 1 | **220,06** |
| TA1176130324200 | **MF 24x2,00** | 2 | 140 | 22 | 48 | 14,5 | 22 | 18 | 1 | **197,84** |
| TA1176130326150 | **MF 26x1,50** | 1,5 | 140 | 20 | 50 | 14,5 | 24,5 | 18 | 1 | **222,07** |
| TA1176130327150 | **MF 27x1,50** | 1,5 | 140 | 20 | 53 | 16 | 25,5 | 20 | 1 | **240,25** |
| TA1176130327200 | **MF 27x2,00** | 2 | 140 | 28 | 53 | 16 | 25 | 20 | 1 | **312,91** |
| TA1176130328150 | **MF 28x1,50** | 1,5 | 140 | 20 | 53 | 16 | 26,5 | 20 | 1 | **260,44** |
| TA1176130330150 | **MF 30x1,50** | 1,5 | 150 | 20 | 53 | 18 | 28,5 | 22 | 1 | **248,31** |

## Maschio universale TA1177, rivestito TiN, elica 40°, passo fine, per fori ciechi, tolleranza 6H, rastremato



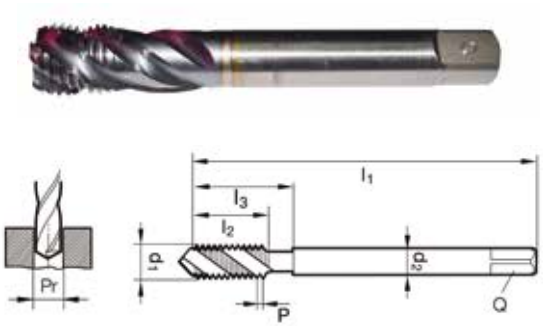




| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1177130308100 | **MF 8x1,00** | 1 | 90 | 11 | 35 | 4,9 | 7 | 6 | 1 | **47,69** |
| TA1177130310100 | **MF 10x1,00** | 1 | 90 | 11 | 35 | 5,5 | 9 | 7 | 1 | **62,03** |
| TA1177130310125 | **MF 10x1,25** | 1,25 | 100 | 14 | 39 | 5,5 | 8,8 | 7 | 1 | **60,41** |
| TA1177130312100 | **MF 12x1,00** | 1 | 100 | 11 | 40 | 7 | 11 | 9 | 1 | **70,76** |
| TA1177130312125 | **MF 12x1,25** | 1,25 | 100 | 16 | 40 | 7 | 10,8 | 9 | 1 | **77,12** |
| TA1177130312150 | **MF 12x1,50** | 1,5 | 100 | 16 | 40 | 7 | 10,5 | 9 | 1 | **68,39** |
| TA1177130314100 | **MF 14x1,00** | 1 | 100 | 11 | 40 | 9 | 13 | 11 | 1 | **82,66** |
| TA1177130314150 | **MF 14x1,50** | 1,5 | 100 | 15 | 40 | 9 | 12,5 | 11 | 1 | **81,11** |
| TA1177130316150 | **MF 16x1,50** | 1,5 | 100 | 15 | 44 | 9 | 14,5 | 12 | 1 | **104,93** |
| TA1177130318150 | **MF 18x1,50** | 1,5 | 110 | 16 | 44 | 11 | 16,5 | 14 | 1 | **136,73** |
| TA1177130320150 | **MF 20x1,50** | 1,5 | 125 | 16 | 44 | 12 | 18,5 | 16 | 1 | **155,81** |
| TA1177130322150 | **MF 22x1,50** | 1,5 | 125 | 16 | 44 | 14,5 | 20,5 | 18 | 1 | **171,70** |
| TA1177130324150 | **MF 24x1,50** | 1,5 | 140 | 16 | 48 | 14,5 | 22,5 | 18 | 1 | **174,87** |
| TA1177130324200 | **MF 24x2,00** | 2 | 140 | 22 | 48 | 14,5 | 22 | 18 | 1 | **203,50** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1313, rivestito TOP BLU, passo fine, per fori ciechi, tolleranza 6H, rastremato

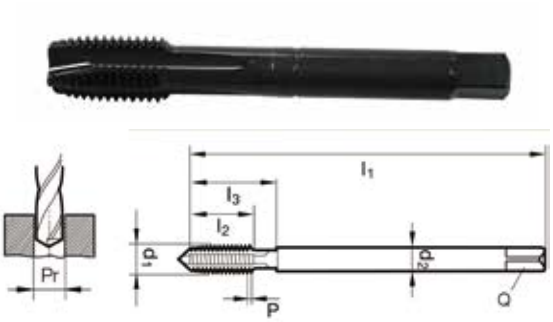



| Codice | d1 | Passo | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1313130508100 | **MF 8x1,00** | 1 | 90 | 11 | 35 | 4,9 | 7 | 6 | 1 | **51,03** |
| TA1313130510100 | **MF 10x1,00** | 1 | 90 | 11 | 35 | 5,5 | 9 | 7 | 1 | **59,50** |
| TA1313130510125 | **MF 10x1,25** | 1,25 | 100 | 14 | 39 | 5,5 | 8,8 | 7 | 1 | **53,68** |
| TA1313130512100 | **MF 12x1,00** | 1 | 100 | 11 | 40 | 7 | 11 | 9 | 1 | **72,95** |
| TA1313130512125 | **MF 12x1,25** | 1,25 | 100 | 16 | 40 | 7 | 10,8 | 9 | 1 | **67,05** |
| TA1313130512150 | **MF 12x1,50** | 1,5 | 100 | 16 | 40 | 7 | 10,5 | 9 | 1 | **67,05** |
| TA1313130514100 | **MF 14x1,00** | 1 | 100 | 11 | 40 | 9 | 13 | 11 | 1 | **89,58** |
| TA1313130514150 | **MF 14x1,50** | 1,5 | 100 | 15 | 40 | 9 | 12,5 | 11 | 1 | **89,58** |
| TA1313130516100 | **MF 16x1,00** | 1 | 100 | 11 | 44 | 9 | 15 | 12 | 1 | **93,68** |
| TA1313130516150 | **MF 16x1,50** | 1,5 | 100 | 15 | 44 | 9 | 14,5 | 12 | 1 | **93,68** |
| TA1313130518100 | **MF 18x1,00** | 1 | 110 | 12 | 44 | 11 | 17 | 14 | 1 | **122,30** |
| TA1313130518150 | **MF 18x1,50** | 1,5 | 110 | 16 | 44 | 11 | 16,5 | 14 | 1 | **122,30** |
| TA1313130520100 | **MF 20x1,00** | 1 | 125 | 16 | 44 | 12 | 19 | 16 | 1 | **143,63** |
| TA1313130520150 | **MF 20x1,50** | 1,5 | 125 | 16 | 44 | 12 | 18,5 | 16 | 1 | **143,63** |

## Maschio universale TA1283, vaporizzato, filettatura GAS, per fori passanti, tolleranza ISO 228

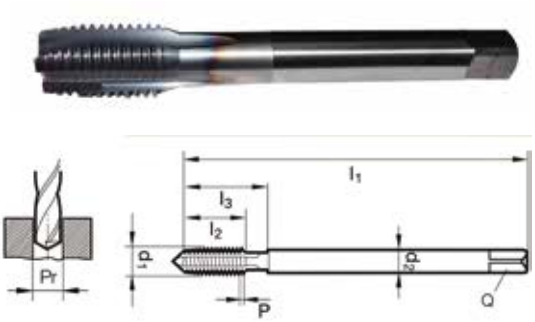



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1283130300018 | **G 1/8”** | 28 | 90 | 18 | 35 | 5,5 | 8,8 | 7 | 1 | **26,70** |
| TA1283130300014 | **G 1/4”** | 19 | 100 | 20 | 40 | 9 | 11,8 | 11 | 1 | **36,00** |
| TA1283130300038 | **G 3/8”** | 19 | 100 | 22 | 44 | 9 | 15,25 | 12 | 1 | **44,08** |
| TA1283130300012 | **G 1/2”** | 14 | 125 | 25 | 44 | 12 | 19 | 16 | 1 | **74,49** |
| TA1283130300034 | **G 3/4”** | 14 | 140 | 28 | 53 | 16 | 24,5 | 20 | 1 | **114,74** |
| TA1283130300100 | **G 1”** | 11 | 160 | 30 | 56 | 20 | 30,75 | 25 | 1 | **131,61** |

## Maschio TA1315, rivestito TOP BLU, filettatura GAS, per fori passanti, tolleranza ISO 228, rastremato

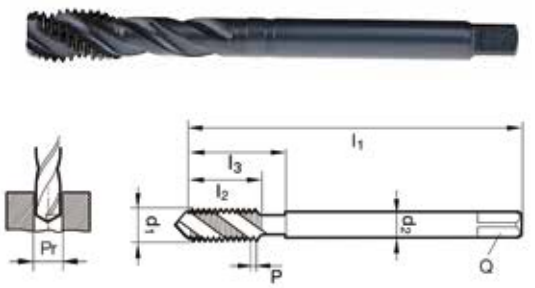



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1315130500018 | **G 1/8”** | 28 | 90 | 15 | 35 | 5,5 | 8,8 | 7 | 1 | **44,93** |
| TA1315130500014 | **G 1/4”** | 19 | 100 | 22 | 40 | 9 | 11,8 | 11 | 1 | **64,00** |
| TA1315130500038 | **G 3/8”** | 19 | 100 | 22 | 44 | 9 | 15,25 | 12 | 1 | **88,13** |
| TA1315130500012 | **G 1/2”** | 14 | 125 | 25 | 44 | 12 | 19 | 16 | 1 | **115,35** |
| TA1315130500058 | **G 5/8”** | 14 | 125 | 25 | 48 | 14,5 | 21 | 18 | 1 | **150,00** |
| TA1315130500034 | **G 3/4”** | 14 | 140 | 25 | 53 | 16 | 24,5 | 20 | 1 | **221,55** |
| TA1315130500078 | **G 7/8”** | 14 | 150 | 28 | 53 | 18 | 28,25 | 22 | 1 | **262,35** |
| TA1315130500100 | **G 1”** | 11 | 160 | 30 | 56 | 20 | 30,75 | 25 | 1 | **381,60** |

## Maschio universale TA1285, vaporizzato, filettatura GAS, elica 40°, per fori ciechi, tolleranza ISO 228, rastremato



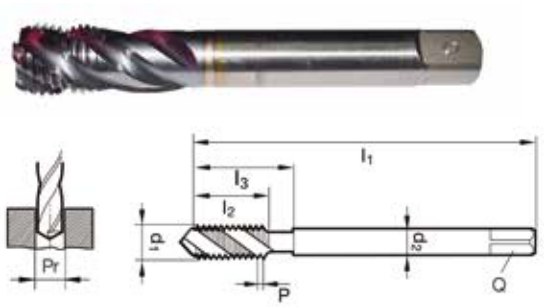

| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1285130300018 | **G 1/8”** | 28 | 90 | 11 | 35 | 5,5 | 8,8 | 7 | 1 | **27,94** |
| TA1285130300014 | **G 1/4”** | 19 | 100 | 14 | 40 | 9 | 11,8 | 11 | 1 | **39,73** |
| TA1285130300038 | **G 3/8”** | 19 | 100 | 14 | 44 | 9 | 15,25 | 12 | 1 | **57,73** |
| TA1285130300012 | **G 1/2”** | 14 | 125 | 18 | 44 | 12 | 19 | 16 | 1 | **74,49** |
| TA1285130300034 | **G 3/4”** | 14 | 140 | 20 | 53 | 16 | 24,5 | 20 | 1 | **114,23** |
| TA1285130300100 | **G 1”** | 11 | 160 | 24 | 56 | 20 | 30,75 | 25 | 1 | **158,90** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

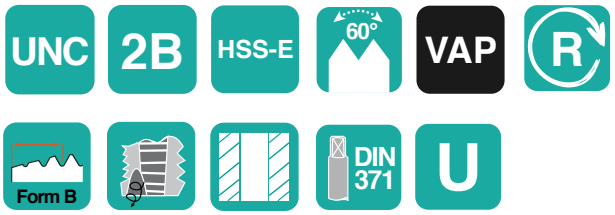
### Maschio TA1317, rivestito TOP BLU, filettatura GAS, elica 40°, per fori ciechi, tolleranza ISO 228, rastremato

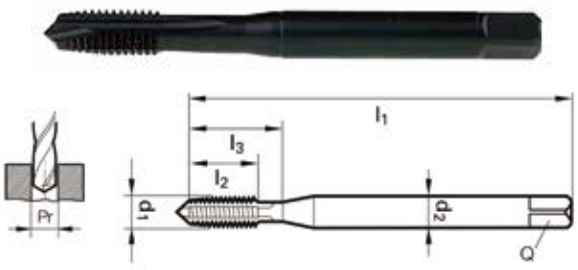



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1317130500018 | **G 1/8”** | 28 | 90 | 11 | 35 | 5,5 | 8,8 | 7 | 1 | **48,50** |
| TA1317130500014 | **G 1/4”** | 19 | 100 | 14 | 40 | 9 | 11,8 | 11 | 1 | **69,03** |
| TA1317130500038 | **G 3/8”** | 19 | 100 | 14 | 44 | 9 | 15,25 | 12 | 1 | **95,13** |
| TA1317130500012 | **G 1/2”** | 14 | 125 | 18 | 44 | 12 | 19 | 16 | 1 | **124,55** |
| TA1317130500034 | **G 3/4”** | 14 | 140 | 20 | 53 | 16 | 24,5 | 20 | 1 | **237,05** |
| TA1317130500058 | **G 5/8”** | 14 | 125 | 18 | 48 | 14,5 | 21 | 18 | 1 | **161,00** |
| TA1317130500078 | **G 7/8”** | 14 | 150 | 22 | 53 | 18 | 28,25 | 22 | 1 | **281,70** |
| TA1317130500100 | **G 1”** | 11 | 160 | 24 | 56 | 20 | 30,75 | 25 | 1 | **410,75** |

### Maschio universale TA1134, vaporizzato, filettatura UNC, per fori passanti, tolleranza 2B

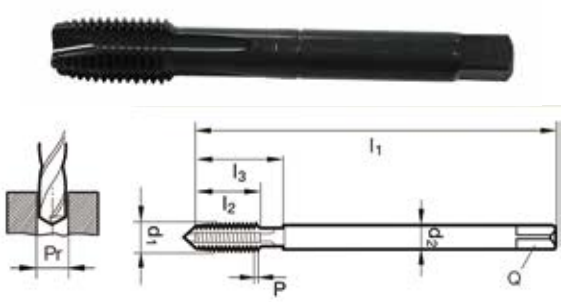



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1134130500440 | **n° 4** | 40 | 56 | 11 | 18 | 2,7 | 2,35 | 3,5 | 1 | **29,69** |
| TA1134130500632 | **n° 6** | 32 | 56 | 12 | 20 | 3 | 2,8 | 4 | 1 | **26,24** |
| TA1134130500832 | **n° 8** | 32 | 63 | 13 | 21 | 3,4 | 3,5 | 4,5 | 1 | **26,96** |
| TA1134130501024 | **n° 10** | 24 | 70 | 14 | 25 | 4,9 | 3,9 | 6 | 1 | **35,84** |
| TA1134130501420 | **1/4”** | 20 | 80 | 16 | 30 | 5,5 | 5,2 | 7 | 1 | **29,36** |
| TA1134130551618 | **5/16”** | 18 | 90 | 18 | 35 | 6,2 | 6,6 | 8 | 1 | **35,84** |
| TA1135130503816 | **3/8”** | 16 | 100 | 20 | 39 | 8 | 8 | 10 | 1 | **46,07** |

## Maschio universale TA1135, vaporizzato, filettatura UNC, per fori passanti, tolleranza 2B

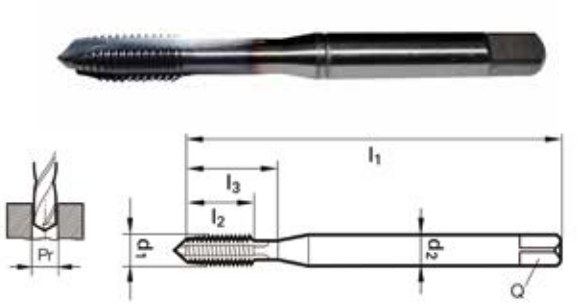



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1135130500716 | **7/16”** | 14 | 110 | 22 | 42 | 7 | 9,4 | 9 | 1 | **46,94** |
| TA1135130501213 | **1/2”** | 13 | 110 | 25 | 49 | 7 | 10,7 | 9 | 1 | **57,17** |
| TA1135130505811 | **5/8”** | 11 | 110 | 30 | 53 | 9 | 13,5 | 12 | 1 | **72,51** |
| TA1135130503410 | **3/4”** | 10 | 140 | 33 | 62 | 11 | 16,5 | 14 | 1 | **214,39** |
| TA1135130500018 | **1”** | 8 | 160 | 38 | 73 | 16 | 22,2 | 20 | 1 | **266,36** |

## Maschio TA1334, rivestito TOP BLU, filettatura UNC, per fori passanti, tolleranza 2B, rastremato



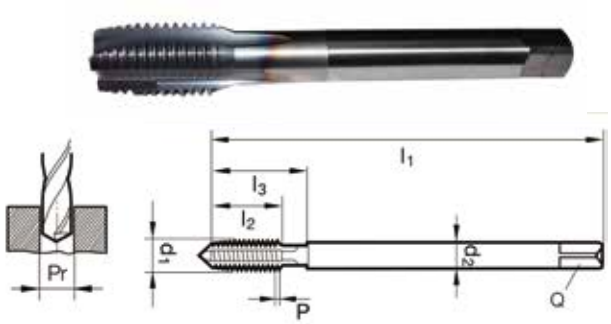




| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1334130500632 | **n°6** | 32 | 56 | 12 | 20 | 3 | 2,8 | 4 | 1 | **37,03** |
| TA1334130500832 | **n°8** | 32 | 63 | 13 | 21 | 3,4 | 3,5 | 4,5 | 1 | **37,03** |
| TA1334130501024 | **n°10** | 24 | 70 | 14 | 25 | 4,9 | 3,9 | 6 | 1 | **37,03** |
| TA1334130501224 | **n°12** | 24 | 80 | 16 | 30 | 4,9 | 4,5 | 6 | 1 | **37,03** |
| TA1334130501420 | **1/4”** | 20 | 80 | 18 | 35 | 5,5 | 5,2 | 7 | 1 | **42,23** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1335, rivestito TOP BLU, filettatura UNC, per fori passanti, tolleranza 2B, rastremato

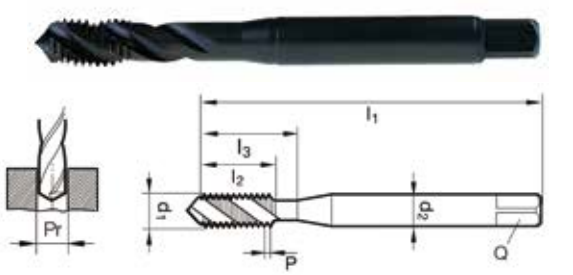



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1335130551618 | **5/16”** | 18 | 90 | 18 | 35 | 4,9 | 6,6 | 6 | 1 | **45,00** |
| TA1335130503816 | **3/8”** | 16 | 100 | 20 | 39 | 5,5 | 8 | 7 | 1 | **50,30** |
| TA1335130500716 | **7/16”** | 14 | 110 | 22 | 42 | 7 | 9,4 | 9 | 1 | **58,70** |
| TA1335130501213 | **1/2”** | 13 | 110 | 25 | 49 | 7 | 10,7 | 9 | 1 | **74,88** |
| TA1335130591612 | **9/16”** | 12 | 110 | 30 | 53 | 9 | 12,2 | 11 | 1 | **90,05** |
| TA1335130505811 | **5/8”** | 11 | 110 | 30 | 53 | 9 | 13,5 | 12 | 1 | **94,48** |
| TA1335130503410 | **3/4”** | 10 | 140 | 33 | 62 | 11 | 16,5 | 14 | 1 | **124,95** |
| TA1335130500789 | **7/8”** | 9 | 140 | 35 | 62 | 14,5 | 19,5 | 18 | 1 | **162,33** |
| TA1335130500018 | **1”** | 8 | 160 | 38 | 73 | 16 | 22,2 | 20 | 1 | **245,25** |

## Maschio universale TA1130, vaporizzato, filettatura UNC, elica 40°, per fori ciechi, tolleranza 2B, rastremato

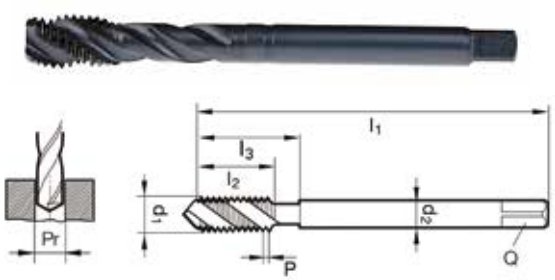



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1130130500440 | **n° 4** | 40 | 56 | 7 | 18 | 2,7 | 2.35 | 3,5 | 1 | **37,52** |
| TA1130130500632 | **n° 6** | 32 | 56 | 8 | 20 | 3 | 2,8 | 4 | 1 | **32,45** |
| TA1130130500832 | **n° 8** | 32 | 63 | 11 | 21 | 3,4 | 3,5 | 4,5 | 1 | **34,99** |
| TA1130130501024 | **n° 10** | 24 | 70 | 12 | 25 | 4,9 | 3,9 | 6 | 1 | **34,12** |
| TA1130130551618 | **5/16”** | 18 | 90 | 14 | 35 | 6,2 | 6,6 | 8 | 1 | **35,84** |
| TA1130130501420 | **1/4”** | 20 | 80 | 13 | 30 | 5,5 | 5,2 | 7 | 1 | **36,69** |
| TA1130130503816 | **3/8”** | 16 | 100 | 16 | 39 | 8 | 8 | 10 | 1 | **39,24** |

## Maschio universale TA1131, vaporizzato, filettatura UNC, elica 40°, per fori ciechi, tolleranza 2B, rastremato

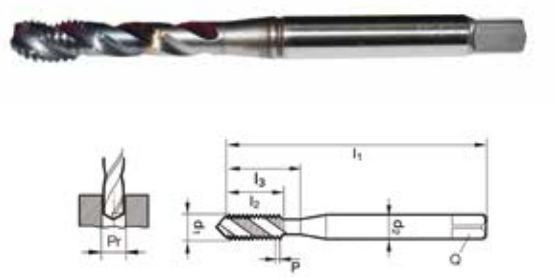



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1131130501213 | **1/2”** | 13 | 110 | 20 | 49 | 7 | 10,7 | 9 | 1 | **57,17** |
| TA1131130500716 | **7/16”** | 14 | 110 | 18 | 42 | 7 | 9,4 | 9 | 1 | **62,29** |
| TA1131130505811 | **5/8”** | 11 | 110 | 24 | 53 | 9 | 13,5 | 12 | 1 | **72,51** |
| TA1131130503410 | **3/4”** | 10 | 140 | 25 | 62 | 11 | 16,5 | 14 | 1 | **98,91** |
| TA1131130500789 | **7/8”** | 9 | 140 | 28 | 62 | 14,5 | 19,5 | 18 | 1 | **214,39** |
| TA1131130500018 | **1”** | 8 | 160 | 32 | 73 | 16 | 22,2 | 20 | 1 | **233,89** |

## Maschio TA1330, rivestito TOP BLU, filettatura UNC, elica 40°, per fori ciechi, tolleranza 2B, rastremato



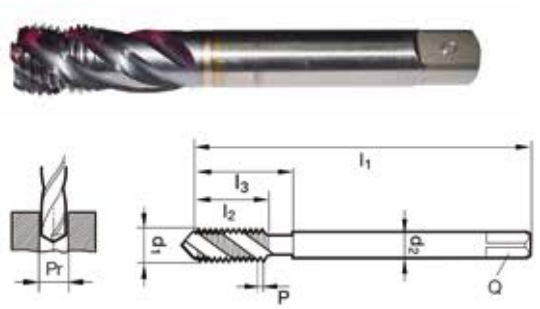




| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1330130500632 | **n° 6** | 32 | 56 | 8 | 20 | 3.0 | 2.8 | 4.0 | 1 | **37,38** |
| TA1330130500832 | **n° 8** | 32 | 63 | 8 | 21 | 3,4 | 3,5 | 4,5 | 1 | **37,38** |
| TA1330130501024 | **n° 10** | 24 | 70 | 11 | 25 | 4,9 | 3,9 | 6 | 1 | **37,90** |
| TA1330130501224 | **n° 12** | 24 | 80 | 11 | 30 | 4,9 | 4,5 | 6 | 1 | **37,90** |
| TA1330130501420 | **1/4”** | 20 | 80 | 13 | 35 | 5,5 | 5,2 | 7 | 1 | **43,73** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Maschio TA1331, rivestito TOP BLU, filettatura UNC, elica 40°, per fori ciechi, tolleranza 2B, rastremato

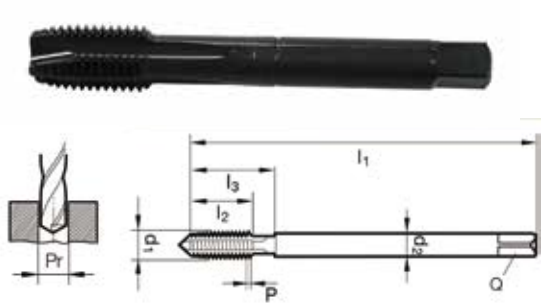



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1331130551618 | **5/16”** | 18 | 90 | 14 | 35 | 4,9 | 6,6 | 6 | 1 | **45,73** |
| TA1331130503816 | **3/8”** | 16 | 100 | 16 | 39 | 5,5 | 8 | 7 | 1 | **51,15** |
| TA1331130571614 | **7/16”** | 14 | 110 | 18 | 42 | 7 | 9,4 | 9 | 1 | **61,38** |
| TA1331130501213 | **1/2”** | 13 | 110 | 20 | 49 | 7 | 10,7 | 9 | 1 | **78,08** |
| TA1331130591612 | **9/16”** | 12 | 110 | 21 | 53 | 9 | 12,2 | 11 | 1 | **93,95** |
| TA1331130505811 | **5/8”** | 11 | 110 | 24 | 53 | 9 | 13,5 | 12 | 1 | **98,73** |
| TA1331130503410 | **3/4”** | 10 | 140 | 25 | 62 | 11 | 16,5 | 14 | 1 | **130,25** |
| TA1331130500789 | **7/8”** | 9 | 140 | 28 | 62 | 14,5 | 19,5 | 18 | 1 | **168,55** |
| TA1331130500018 | **1”** | 8 | 160 | 32 | 73 | 16 | 22,2 | 20 | 1 | **254,68** |

## Maschio universale TA1136, vaporizzato, filettatura UNF, per fori passanti, tolleranza 2B

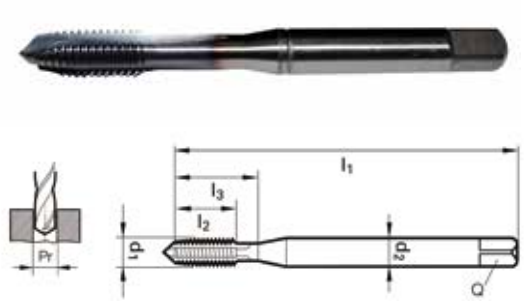



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1136130500448 | **n° 4** | 48 | 56 | 10 | 18 | - | 2.4 | 2.2 | 1 | **40,92** |
| TA1136130500640 | **n° 6** | 40 | 56 | 11 | 20 | 3 | 2,9 | 4 | 1 | **40,92** |
| TA1136130501032 | **n° 10** | 32 | 70 | 13 | 25 | 4,9 | 4,1 | 6 | 1 | **40,92** |
| TA1136130501428 | **1/4”** | 28 | 80 | 16 | 35 | 5,5 | 5,5 | 7 | 1 | **50,37** |
| TA1136130503824 | **3/8”** | 24 | 90 | 18 | 39 | 5,5 | 8,5 | 7 | 1 | **54,59** |
| TA1136130500716 | **7/16”** | 20 | 100 | 20 | 42 | 6,2 | 9,9 | 8 | 1 | **85,54** |
| TA1136130505818 | **5/8”** | 18 | 100 | 22 | 44 | 9 | 14,5 | 12 | 1 | **92,08** |
| TA1136130501220 | **1/2”** | 20 | 100 | 20 | 42 | 7 | 11,5 | 9 | 1 | **95,28** |
| TA1136130507814 | **7/8”** | 14 | 125 | 25 | 44 | 14,5 | 20,4 | 18 | 1 | **213,31** |

## Maschio TA1344 ad alte prestazioni, rivestito TOP BLU, filettatura UNF, per fori passanti, tolleranza 2B, rastremato

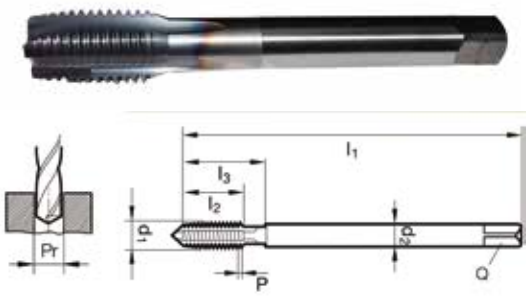



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1344130500640 | **n° 6** | 40 | 56 | 11 | 20 | 3 | 2.9 | 4.0 | 1 | **39,48** |
| TA1344130500836 | **n° 8** | 36 | 63 | 13 | 21 | 3,4 | 3,5 | 4,5 | 1 | **39,48** |
| TA1344130501032 | **n° 10** | 32 | 70 | 13 | 25 | 4,9 | 4,1 | 6 | 1 | **39,48** |
| TA1344130501228 | **n° 12** | 28 | 80 | 16 | 30 | 4,9 | 4,6 | 6 | 1 | **39,48** |
| TA1344130501428 | **1/4”** | 28 | 80 | 16 | 35 | 5,5 | 5,5 | 7 | 1 | **45,65** |

## Maschio TA1345 ad alte prestazioni, rivestito TOP BLU, filettatura UNF, per fori passanti, tolleranza 2B, rastremato



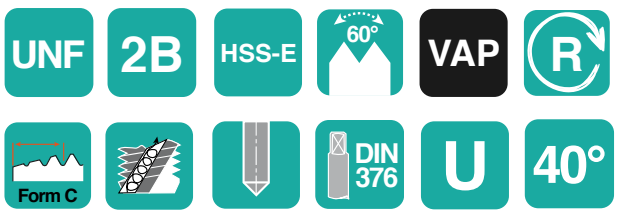




| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1345130551624 | **5/16”** | 24 | 90 | 18 | 35 | 4,9 | 6,9 | 6 | 1 | **45,98** |
| TA1345130503824 | **3/8”** | 24 | 90 | 18 | 39 | 5,5 | 8,5 | 7 | 1 | **50,83** |
| TA1345130501620 | **7/16”** | 20 | 100 | 20 | 42 | 6,2 | 9,9 | 8 | 1 | **63,60** |
| TA1345130501220 | **1/2”** | 20 | 100 | 20 | 49 | 7 | 11,5 | 9 | 1 | **80,98** |
| TA1345130591618 | **9/16”** | 18 | 100 | 22 | 53 | 9 | 12,9 | 11 | 1 | **97,58** |
| TA1345130505818 | **5/8”** | 18 | 100 | 22 | 53 | 9 | 14,5 | 12 | 1 | **102,63** |
| TA1345130503416 | **3/4”** | 16 | 110 | 25 | 62 | 11 | 17,5 | 14 | 1 | **135,43** |
| TA1345130507814 | **7/8”** | 14 | 125 | 25 | 62 | 14,5 | 20,4 | 18 | 1 | **174,90** |
| TA1345130500112 | **1”** | 12 | 140 | 28 | 73 | 14,5 | 23,02 | 18 | 1 | **267,65** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Maschio universale TA1138, vaporizzato, filettatura UNF, elica 40°, per fori ciechi, tolleranza 2B, rastremato



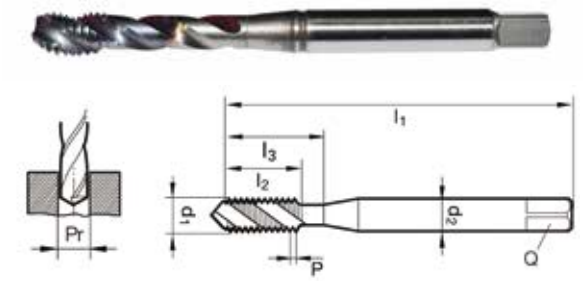




| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1138130500448 | **n° 4** | 48 | 56 | 6 | 18 | - | 2.4 | 2.2 | 1 | **46,07** |
| TA1138130500640 | **n° 6** | 40 | 56 | 6,5 | 20 | 3 | 2,9 | 4 | 1 | **38,47** |
| TA1138130501032 | **n° 10** | 32 | 70 | 8,5 | 25 | 4,9 | 4,1 | 6 | 1 | **35,84** |
| TA1138130501428 | **1/4"** | 28 | 80 | 9 | 35 | 5,5 | 5,5 | 7 | 1 | **42,67** |
| TA1138130503824 | **3/8"** | 24 | 90 | 11 | 39 | 5,5 | 8,5 | 7 | 1 | **46,07** |
| TA1138130500716 | **7/16"** | 20 | 100 | 22 | 42 | 6,2 | 9,9 | 8 | 1 | **95,28** |
| TA1138130505818 | **5/8"** | 18 | 100 | 15 | 44 | 9 | 14,5 | 12 | 1 | **95,51** |
| TA1138130501220 | **1/2"** | 20 | 100 | 20 | 42 | 7 | 11,5 | 9 | 1 | **111,52** |
| TA1138130507814 | **7/8"** | 14 | 125 | 25 | 44 | 14,5 | 20,4 | 18 | 1 | **246,87** |

### Maschio TA1340 ad alte prestazioni, rivestito TOP BLU, filettatura UNF, elica 40°, per fori ciechi, tolleranza 2B, rastremato

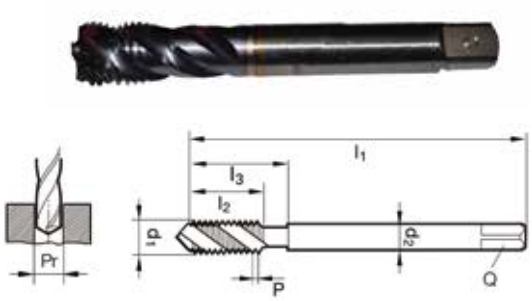



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1340130500640 | **n° 6** | 40 | 56 | 8 | 20 | 3 | 2,9 | 4 | 1 | **41,35** |
| TA1340130500836 | **n° 8** | 36 | 63 | 8 | 21 | 3,4 | 3,5 | 4,5 | 1 | **41,35** |
| TA1340130501032 | **n° 10** | 32 | 70 | 11 | 25 | 4,9 | 4,1 | 6 | 1 | **41,35** |
| TA1340130501228 | **n° 12** | 28 | 80 | 11 | 30 | 4,9 | 4,6 | 6 | 1 | **41,35** |
| TA1340130501428 | **1/4"** | 28 | 80 | 13 | 35 | 5,5 | 5,5 | 7 | 1 | **47,38** |

## Maschio TA1341 ad alte prestazioni, rivestito TOP BLU, filettatura UNF, elica 40°, per fori ciechi, tolleranza 2B, rastremato

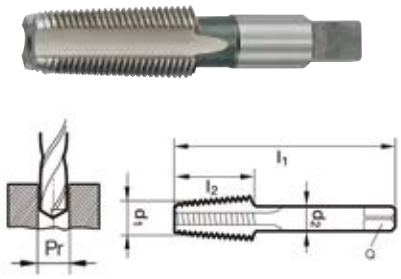



| Codice | d1 | Filetti x pollice | l1 | l2 | l3 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1341130551624 | **5/16”** | 24 | 90 | 14 | 35 | 4,9 | 6,9 | 6 | 1 | **49,03** |
| TA1341130503824 | **3/8”** | 24 | 90 | 16 | 39 | 5,5 | 8,5 | 7 | 1 | **51,15** |
| TA1341130571620 | **7/16”** | 20 | 100 | 18 | 42 | 6,2 | 9,9 | 8 | 1 | **66,53** |
| TA1341130501220 | **1/2”** | 20 | 100 | 20 | 49 | 7 | 11,5 | 9 | 1 | **84,53** |
| TA1341130591618 | **9/16”** | 18 | 100 | 21 | 53 | 9 | 12,9 | 11 | 1 | **102,10** |
| TA1341130505818 | **5/8”** | 18 | 100 | 24 | 53 | 9 | 14,5 | 12 | 1 | **107,20** |
| TA1341130503416 | **3/4”** | 16 | 110 | 25 | 62 | 11 | 17,5 | 14 | 1 | **141,20** |
| TA1341130507814 | **7/8”** | 14 | 125 | 28 | 62 | 14,5 | 20,4 | 18 | 1 | **181,80** |
| TA1341130500112 | **1”** | 12 | 140 | 32 | 73 | 14,5 | 23,02 | 18 | 1 | **277,98** |

## Maschio standard TA1355, non rivestito, filettatura NPT, per fori ciechi, denti diritti, tolleranza B1.20.1



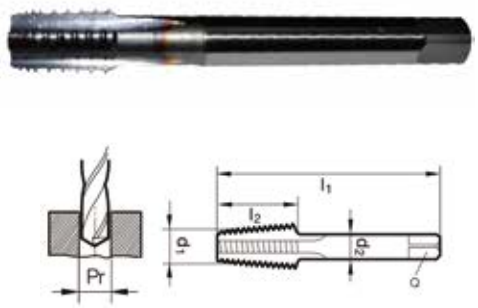

| Codice | d1 | Filetti x pollice | l1 | l2 | Q | Pr | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1355130900018 | **NPT 1/8”** | 27 | 65 | 19 | 6 | 8,5 | 1 | **42,25** |
| TA1355130900014 | **NPT 1/4”** | 18 | 70 | 25 | 9 | 11 | 1 | **46,49** |
| TA1355130900116 | **NPT 1/16”** | 27 | 56 | 18 | 5,5 | 6,1 | 1 | **54,52** |
| TA1355130900038 | **NPT 3/8”** | 18 | 75 | 26 | 9 | 14,5 | 1 | **64,77** |
| TA1355130900012 | **NPT 1/2”** | 14 | 80 | 35 | 14,5 | 18 | 1 | **80,65** |
| TA1355130900034 | **NPT 3/4”** | 14 | 90 | 35 | 16 | 23 | 1 | **106,00** |
| TA1355130900001 | **NPT 1”** | 11,5 | 100 | 38 | 20 | 29 | 1 | **171,57** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Maschio TA1350 ad alte prestazioni, rivestito TOP BLU, filettatura NPT, per fori ciechi, denti diritti ed alternati, tolleranza B1.20.1, rastremato



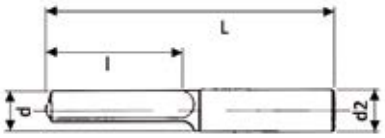




| Codice | d1 | Filetti x pollice | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1350130500018 | **NPT 1/8”** | 27 | 63 | 13 | 5,5 | 8,5 | 7 | 1 | **147,20** |
| TA1350130500014 | **NPT 1/4”** | 18 | 63 | 20 | 9 | 11 | 11 | 1 | **165,35** |
| TA1350130500038 | **NPT 3/8”** | 18 | 70 | 20 | 9 | 14,5 | 12 | 1 | **209,48** |
| TA1350130500012 | **NPT 1/2”** | 14 | 80 | 26 | 12 | 17,9 | 16 | 1 | **241,95** |
| TA1350130500034 | **NPT 3/4”** | 14 | 100 | 26 | 16 | 23,2 | 20 | 1 | **349,53** |
| TA1350130500001 | **NPT 1”** | 11,5 | 110 | 32 | 20 | 29 | 25 | 1 | **460,58** |

### Rompimaschi in metallo duro TA1390, rivestito TiN, a tre taglienti





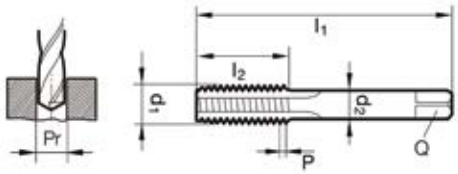




| Codice | M | d | d2 | L | l | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1390130900004 | **4** | 3,3 | 6 | 50 | 15 | 1 | **106,37** |
| TA1390130900005 | **5** | 4,2 | 6 | 50 | 15 | 1 | **112,42** |
| TA1390130900006 | **6** | 5 | 6 | 50 | 15 | 1 | **124,54** |
| TA1390130900008 | **8** | 6,8 | 8 | 60 | 20 | 1 | **167,18** |
| TA1390130900010 | **10** | 8,5 | 10 | 70 | 25 | 1 | **209,92** |
| TA1390130900012 | **12** | 10,2 | 12 | 75 | 30 | 1 | **259,69** |

## Serie di 3 maschi HSS a mano TA1600, DIN 352, tolleranza ISO 2 6H



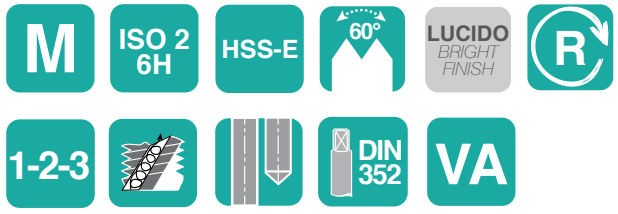


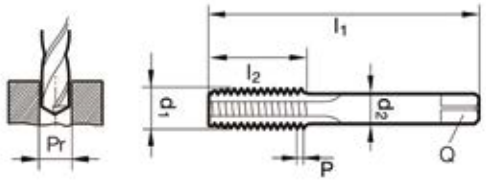

| Codice | d1 | Passo | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1600130900300 | **M3** | 0,5 | 40 | 10 | 3,5 | 2,7 | 2,5 | 1 | **28,81** |
| TA1600130900400 | **M4** | 0,7 | 45 | 12 | 4,5 | 3,4 | 3,3 | 1 | **28,81** |
| TA1600130900500 | **M5** | 0,8 | 50 | 14 | 6 | 4,9 | 4,2 | 1 | **30,24** |
| TA1600130900600 | **M6** | 1 | 50 | 16 | 6 | 4,9 | 5 | 1 | **30,24** |
| TA1600130900800 | **M8** | 1,25 | 56 | 22 | 6 | 4,9 | 6,8 | 1 | **35,18** |
| TA1600130901000 | **M10** | 1,5 | 70 | 24 | 7 | 5,5 | 8,5 | 1 | **44,67** |
| TA1600130901200 | **M12** | 1,75 | 75 | 29 | 9 | 7 | 10,2 | 1 | **57,33** |
| TA1600130901400 | **M14** | 2 | 80 | 30 | 11 | 9 | 12 | 1 | **68,90** |
| TA1600130901600 | **M16** | 2 | 80 | 32 | 12 | 9 | 14 | 1 | **85,07** |
| TA1600130901800 | **M18** | 2,5 | 95 | 40 | 14 | 11 | 15,5 | 1 | **124,10** |
| TA1600130902000 | **M20** | 2,5 | 95 | 40 | 16 | 12 | 17,5 | 1 | **141,28** |
| TA1600130902200 | **M22** | 2,5 | 100 | 40 | 18 | 14,5 | 19,5 | 1 | **168,38** |
| TA1600130902400 | **M24** | 3 | 110 | 50 | 18 | 14,5 | 21 | 1 | **189,83** |
| TA1600130902700 | **M27** | 3 | 110 | 50 | 20 | 16 | 24 | 1 | **256,26** |
| TA1600130903000 | **M30** | 3,5 | 125 | 56 | 22 | 18 | 26,5 | 1 | **312,86** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Serie di 3 maschi HSS-E a mano TA1601, DIN 352, tolleranza ISO 2 6H, specifici per acciai inossidabili





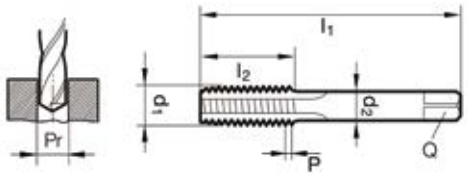




| Codice | d1 | Passo | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1601130900300 | **M3** | 0,5 | 40 | 10 | 3,5 | 2,7 | 2,5 | 1 | **61,65** |
| TA1601130900400 | **M4** | 0,7 | 45 | 12 | 4,5 | 3,4 | 3,3 | 1 | **61,65** |
| TA1601130900500 | **M5** | 0,8 | 50 | 14 | 6 | 4,9 | 4,2 | 1 | **62,92** |
| TA1601130900600 | **M6** | 1 | 50 | 16 | 6 | 4,9 | 5 | 1 | **64,38** |
| TA1601130900800 | **M8** | 1,25 | 56 | 22 | 6 | 4,9 | 6,8 | 1 | **73,24** |
| TA1601130901000 | **M10** | 1,5 | 70 | 24 | 7 | 5,5 | 8,5 | 1 | **94,77** |
| TA1601130901200 | **M12** | 1,75 | 75 | 29 | 9 | 7 | 10,2 | 1 | **123,47** |
| TA1601130901400 | **M14** | 2 | 80 | 30 | 11 | 9 | 12 | 1 | **216,03** |
| TA1601130901600 | **M16** | 2 | 80 | 32 | 12 | 9 | 14 | 1 | **182,94** |
| TA1601130902000 | **M20** | 2,5 | 95 | 40 | 16 | 12 | 17,5 | 1 | **270,71** |

## Serie di 2 maschi HSS a mano TA1602, passo fine, DIN 2182, tolleranza ISO 2 6H





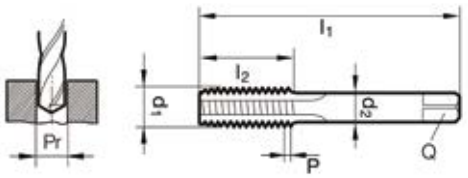




| Codice | d1 | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1602130900335 | **MF 3x0,35** | 40 | 9 | 2,7 | 2,6 | 3,5 | 1 | **45,47** |
| TA1602130900405 | **MF 4x0,5** | 45 | 10 | 3,4 | 3,5 | 4,5 | 1 | **42,09** |
| TA1602130900505 | **MF 5x0,5** | 50 | 12 | 4,9 | 4,5 | 6 | 1 | **42,93** |
| TA1602130900675 | **MF 6x0,75** | 50 | 14 | 4,9 | 5,2 | 6 | 1 | **42,09** |
| TA1602130900810 | **MF 8x1,0** | 56 | 22 | 4,9 | 7 | 6 | 1 | **54,13** |
| TA1602130900875 | **MF 8x0,75** | 50 | 19 | 4,9 | 7,2 | 6 | 1 | **53,59** |
| TA1602130901010 | **MF 10x1,0** | 63 | 20 | 5,5 | 9 | 7 | 1 | **45,94** |

## Serie di 2 maschi HSS a mano TA1602, passo fine, DIN 2182, tolleranza ISO 2 6H





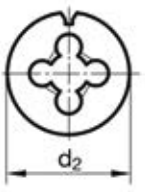

| Codice | d1 | l1 | l2 | Q | Pr | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1602130901012 | **MF 10x1,25** | 70 | 24 | 5,5 | 8 | 7 | 1 | **45,94** |
| TA1602130901075 | **MF 10x0,75** | 63 | 20 | 5,5 | 9,2 | 7 | 1 | **56,86** |
| TA1602130901210 | **MF 12x1,0** | 70 | 22 | 7 | 11 | 9 | 1 | **53,33** |
| TA1602130901212 | **MF 12x1,25** | 70 | 22 | 7 | 10,75 | 9 | 1 | **50,31** |
| TA1602130901215 | **MF 12x1,5** | 70 | 22 | 7 | 10,75 | 9 | 1 | **50,31** |
| TA1602130901410 | **MF 14x1,0** | 70 | 22 | 9 | 13 | 11 | 1 | **61,78** |
| TA1602130901412 | **MF 14x1,25** | 70 | 22 | 9 | 12,75 | 11 | 1 | **58,79** |
| TA1602130901415 | **MF 14x1,5** | 70 | 22 | 9 | 12,75 | 11 | 1 | **58,79** |
| TA1602130901610 | **MF 16x1,0** | 70 | 22 | 9 | 15 | 12 | 1 | **78,75** |
| TA1602130901615 | **MF 16x1,50** | 70 | 22 | 9 | 14,5 | 12 | 1 | **68,61** |
| TA1602130901810 | **MF 18x1,0** | 80 | 22 | 11 | 17 | 14 | 1 | **98,41** |
| TA1602130901815 | **MF 18x1,5** | 80 | 22 | 11 | 16,5 | 14 | 1 | **92,40** |
| TA1602130902010 | **MF 20x1,0** | 80 | 22 | 12 | 19 | 16 | 1 | **115,91** |
| TA1602130902015 | **MF 20x1,5** | 80 | 22 | 12 | 18,5 | 16 | 1 | **109,90** |
| TA1602130902020 | **MF 20x2,0** | 80 | 22 | 12 | 18 | 16 | 1 | **144,01** |
| TA1602130902210 | **MF 22x1,0** | 80 | 22 | 14,5 | 21 | 18 | 1 | **137,54** |
| TA1602130902215 | **MF 22x1,5** | 80 | 22 | 14,5 | 20,5 | 18 | 1 | **130,96** |
| TA1602130902410 | **MF 24x1,0** | 90 | 22 | 14,5 | 23 | 18 | 1 | **167,31** |
| TA1602130902415 | **MF 24x1,5** | 90 | 22 | 14,5 | 22,5 | 18 | 1 | **152,28** |
| TA1602130902420 | **MF 24x2,0** | 90 | 22 | 14,5 | 22 | 18 | 1 | **152,28** |
| TA1602130902715 | **MF 27x1,5** | 90 | 22 | 16 | 25,5 | 20 | 1 | **225,55** |
| TA1602130902720 | **MF 27x2,0** | 90 | 22 | 16 | 28,5 | 20 | 1 | **225,55** |
| TA1602130903015 | **MF 30x1,50** | 90 | 22 | 18 | 28 | 22 | 1 | **257,27** |
| TA1602130903020 | **MF 30x2,0** | 90 | 22 | 18 | 28 | 22 | 1 | **270,14** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Filiera tonda a mano e a macchina in HSS TA1700, DIN-EN 22568, tolleranza 6G, imbocco corretto

M 6G HSS 60° DIN-EN 22568 LUCIDO BRIGHT FINISH R ST



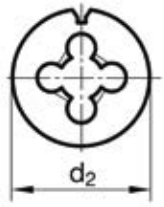



| Codice | Ø | Passo | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1700130900300 | **M3** | 0,5 | 2,92 | 5 | 20 | 1 | **25,35** |
| TA1700130900400 | **M4** | 0,7 | 3,9 | 5 | 20 | 1 | **25,35** |
| TA1700130900500 | **M5** | 0,8 | 4,9 | 7 | 20 | 1 | **25,35** |
| TA1700130900600 | **M6** | 1 | 5,88 | 7 | 20 | 1 | **25,35** |
| TA1700130900800 | **M8** | 1,25 | 7,86 | 9 | 25 | 1 | **27,40** |
| TA1700130901000 | **M10** | 1,5 | 9,85 | 11 | 30 | 1 | **34,40** |
| TA1700130901200 | **M12** | 1,75 | 11,83 | 14 | 38 | 1 | **45,16** |
| TA1700130901400 | **M14** | 2 | 13,82 | 14 | 38 | 1 | **45,16** |
| TA1700130901600 | **M16** | 2 | 15,82 | 18 | 45 | 1 | **60,45** |
| TA1700130901800 | **M18** | 2,5 | 17,79 | 18 | 45 | 1 | **60,45** |
| TA1700130902000 | **M20** | 2,5 | 19,79 | 18 | 45 | 1 | **60,45** |
| TA1700130902200 | **M22** | 2,5 | 21,79 | 22 | 55 | 1 | **95,94** |
| TA1700130902400 | **M24** | 3 | 23,76 | 22 | 55 | 1 | **95,94** |
| TA1700130902700 | **M27** | 3 | 26,76 | 25 | 65 | 1 | **135,30** |
| TA1700130903000 | **M30** | 3,5 | 29,73 | 25 | 65 | 1 | **135,30** |

## Filiera tonda a mano e a macchina in HSS TA1701, passo fine MF, DIN-EN 22568, tolleranza 6G, imbocco corretto

M 6G HSS 60° DIN-EN 22568 LUCIDO BRIGHT FINISH R ST

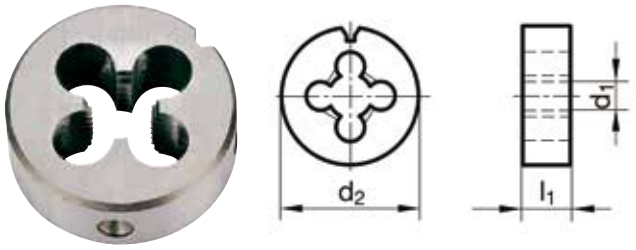





| Codice | Ø | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1701130900335 | **MF 3x0,35** | 2,94 | 5 | 20 | 1 | **37,86** |
| TA1701130900650 | **MF 6x0,5** | 5,92 | 7 | 20 | 1 | **37,86** |
| TA1701130900675 | **MF 6x0,75** | 5,9 | 7 | 20 | 1 | **37,86** |
| TA1701130900810 | **MF 8x1,0** | 7,88 | 9 | 25 | 1 | **40,04** |
| TA1701130900875 | **MF 8x0,75** | 7,9 | 9 | 25 | 1 | **40,04** |
| TA1701130901010 | **MF 10x1,0** | 9,88 | 11 | 30 | 1 | **48,52** |
| TA1701130901012 | **MF 10x1,25** | 9,86 | 11 | 30 | 1 | **48,52** |
| TA1701130901075 | **MF 10x0,75** | 9,9 | 11 | 30 | 1 | **48,52** |
| TA1701130901210 | **MF 12x1,0** | 11,88 | 10 | 38 | 1 | **92,43** |
| TA1701130901212 | **MF 12x1,25** | 11,86 | 10 | 38 | 1 | **92,43** |

## Filiera tonda a mano e a macchina in HSS TA1701, passo fine MF, DIN-EN 22568, tolleranza 6G, imbocco corretto




| Codice | Ø | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1701130901215 | **MF 12x1,50** | 11,85 | 10 | 38 | 1 | **92,43** |
| TA1701130901410 | **MF 14x1,0** | 13,88 | 10 | 38 | 1 | **92,43** |
| TA1701130901412 | **MF 14x1,25** | 13,86 | 10 | 38 | 1 | **92,43** |
| TA1701130901415 | **MF 14x1,50** | 13,85 | 10 | 38 | 1 | **92,43** |
| TA1701130901610 | **MF 16x1,0** | 15,88 | 14 | 45 | 1 | **120,04** |
| TA1701130901612 | **MF 16x1,25** | 15,86 | 14 | 45 | 1 | **120,04** |
| TA1701130901615 | **MF 16x1,50** | 15,85 | 14 | 45 | 1 | **120,04** |
| TA1701130901810 | **MF 18x1,0** | 17,88 | 14 | 45 | 1 | **120,04** |
| TA1701130901815 | **MF 18x1,5** | 17,85 | 14 | 45 | 1 | **120,04** |
| TA1701130901820 | **MF 18x2,0** | 17,82 | 14 | 45 | 1 | **120,04** |
| TA1701130902010 | **MF 20x1,0** | 19,88 | 14 | 45 | 1 | **120,04** |
| TA1701130902015 | **MF 20x1,5** | 19,85 | 14 | 45 | 1 | **120,04** |
| TA1701130902020 | **MF 20x2,0** | 19,82 | 14 | 45 | 1 | **120,04** |
| TA1701130902210 | **MF 22x1,0** | 21,88 | 16 | 55 | 1 | **187,15** |
| TA1701130902215 | **MF 22x1,5** | 21,85 | 16 | 55 | 1 | **187,15** |
| TA1701130902220 | **MF 22x2,0** | 21,82 | 16 | 55 | 1 | **187,15** |
| TA1701130902410 | **MF 24x1,0** | 23,88 | 16 | 55 | 1 | **187,15** |
| TA1701130902415 | **MF 24x1,50** | 23,85 | 16 | 55 | 1 | **187,15** |
| TA1701130902420 | **MF 24x2,0** | 23,82 | 16 | 55 | 1 | **187,15** |
| TA1701130902715 | **MF 27x1,5** | 26,85 | 18 | 65 | 1 | **258,05** |
| TA1701130902720 | **MF 27x2,0** | 26,82 | 18 | 65 | 1 | **258,05** |
| TA1701130903015 | **MF 30x1,5** | 29,85 | 18 | 65 | 1 | **258,05** |
| TA1701130903020 | **MF 30x2,0** | 29,82 | 18 | 65 | 1 | **258,05** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Filiera tonda GAS a mano e a macchina in HSS TA1702, DIN-EN 24231, tolleranza ISO 228, imbocco corretto



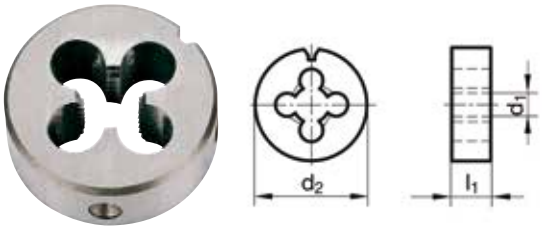




| Codice | Ø | Filetti x pollice | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1702130900018 | **G 1/8”** | 28 | 9,62 | 11 | 30 | 1 | **41,63** |
| TA1702130900014 | **G 1/4”** | 19 | 13,03 | 10 | 38 | 1 | **43,81** |
| TA1702130900038 | **G 3/8”** | 19 | 16,53 | 14 | 45 | 1 | **63,23** |
| TA1702130900012 | **G 1/2”** | 14 | 20,81 | 14 | 45 | 1 | **63,23** |
| TA1702130900058 | **G 5/8”** | 14 | 22,77 | 16 | 55 | 1 | **96,33** |
| TA1702130900034 | **G 3/4”** | 14 | 26,3 | 16 | 55 | 1 | **125,76** |
| TA1702130900078 | **G 7/8”** | 14 | 30,06 | 18 | 65 | 1 | **135,43** |
| TA1702130900100 | **G 1”** | 11 | 33,07 | 18 | 65 | 1 | **135,43** |

## Filiera tonda NPT a mano e a macchina in HSS TA1705, DIN-EN 24230, tolleranza ANSI B 1.20.1, conicità 1:16, imbocco corretto

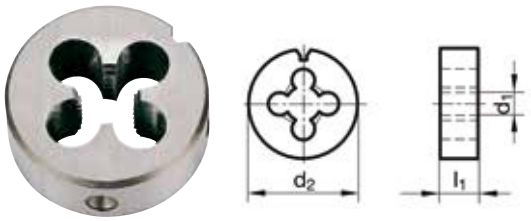



| Codice | Ø | Filetti x pollice | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1705130900018 | **NPT 1/8”** | 27 | 10.27 | 11 | 30 | 1 | **54,99** |
| TA1705130900014 | **NPT 1/4”** | 18 | 13,57 | 14 | 38 | 1 | **64,40** |
| TA1705130900038 | **NPT 3/8”** | 18 | 17,05 | 14 | 45 | 1 | **115,08** |
| TA1705130900012 | **NPT 1/2”** | 14 | 21,22 | 14 | 45 | 1 | **115,08** |
| TA1705130900034 | **NPT 3/4”** | 14 | 26,57 | 22 | 55 | 1 | **220,66** |
| TA1705130900100 | **NPT 1”** | 11,5 | 33,4 | 25 | 65 | 1 | **348,69** |

## Filiera tonda UNC a mano e a macchina in HSS TA1703, DIN-EN 22568, tolleranza B 7105, imbocco corretto

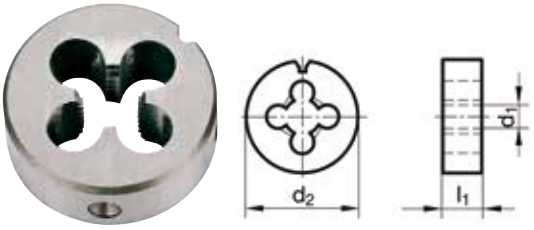
UNC · B 7105 · HSS · 60° · DIN-EN 22568 · LUCIDO BRIGHT FINISH · R · ST




| Codice | Ø | Filetti x pollice | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1703130900014 | **1/4”** | 20 | 6,2 | 7 | 20 | 1 | **29,61** |
| TA1703130900516 | **5/16”** | 18 | 7,8 | 9 | 25 | 1 | **33,98** |
| TA1703130900038 | **3/8”** | 16 | 9,37 | 11 | 30 | 1 | **43,50** |
| TA1703130900716 | **7/16”** | 14 | 10,95 | 11 | 30 | 1 | **46,57** |
| TA1703130900916 | **9/16”** | 12 | 14,1 | 14 | 38 | 1 | **52,18** |
| TA1703130900012 | **1/2”** | 13 | 12,52 | 14 | 38 | 1 | **54,78** |
| TA1703130900034 | **3/4”** | 10 | 18,84 | 18 | 45 | 1 | **82,11** |
| TA1703130900058 | **5/8”** | 11 | 15,68 | 18 | 45 | 1 | **96,33** |
| TA1703130900078 | **7/8”** | 9 | 22 | 22 | 55 | 1 | **141,91** |
| TA1703130900100 | **1”** | 8 | 25,16 | 22 | 55 | 1 | **134,73** |

## Filiera tonda UNF a mano e a macchina in HSS TA1704, DIN-EN 22568, tolleranza B 7108, imbocco corretto

UNF · B 7105 · HSS · 60° · DIN-EN 22568 · LUCIDO BRIGHT FINISH · R · ST




| Codice | Ø | Filetti x pollice | d1 | l1 | d2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1704130900014 | **1/4”** | 28 | 6.20 | 7 | 20 | 1 | **30,34** |
| TA1704130900516 | **5/16”** | 24 | 7,8 | 9 | 25 | 1 | **33,98** |
| TA1704130900038 | **3/8”** | 24 | 9,37 | 11 | 30 | 1 | **42,51** |
| TA1704130900716 | **7/16”** | 20 | 10,95 | 11 | 30 | 1 | **43,58** |
| TA1704130900012 | **1/2”** | 20 | 12,52 | 10 | 38 | 1 | **52,31** |
| TA1704130900916 | **9/16”** | 18 | 14,1 | 10 | 38 | 1 | **59,20** |
| TA1704130900034 | **3/4”** | 16 | 18,84 | 14 | 45 | 1 | **94,48** |
| TA1704130900058 | **5/8”** | 18 | 15,68 | 14 | 45 | 1 | **95,78** |
| TA1704130900078 | **7/8”** | 14 | 22 | 16 | 55 | 1 | **112,76** |
| TA1704130900100 | **1”** | 12 | 25,16 | 16 | 55 | 1 | **149,14** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Set maschi e filiere TA1670, 44 pezzi



### Caratteristiche

Set in cassetta metallica composto da: una serie di 3 pz. di maschi a mano e una filiera da M3, M4, M5, M6, M8, M10, M12. Completo di 2 giramaschi, 5 portafiliere, 1 contafiletti, 7 punte per prefori d.2,5-3,3-4,2-5-6,8-8,5-10,2 e un giravite.

| Codice | | € / cad. |
|---|---|---|
| TA16701310SET44 | 1 | **235,36** |

## Set maschi e filiere TA1670, 54 pezzi



### Caratteristiche

Set in cassetta metallica composto da: una serie di 3 pz. di maschi a mano e una filiera da M3, M4, M5, M6, M8, M10, M12. Completo di 2 giramaschi, 5 portafiliere, un contafiletti, 7 punte per prefori d.2,5-3,3-4,2-5-6,8-8,5-10,2 e un giravite.

| Codice | | € / cad. |
|---|---|---|
| TA16701310SET54 | 1 | **504,70** |

## Giramaschi estensibili TA1420, DIN 1814



| Codice | N° | M | BSW | BSP | Lunghezza totale | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1420131000000 | 0 | 1-8 | 1/16"-1/8" | 1/8" | 130 mm | 1 | **8,81** |
| TA1420131000001 | 1 | 1-10 | 1/16"-3/8" | 1/8" | 188 mm | 1 | **9,32** |
| TA1420131000112 | 1,5 | 1-12 | 1/16"-1/2" | 1/8" | 215 mm | 1 | **10,25** |
| TA1420131000002 | 2 | 4-12 | 5/32"-3/4" | 1/8" | 280 mm | 1 | **14,16** |
| TA1420131000003 | 3 | 5-20 | 7/32"-3/4" | 1/8"-1/2" | 380 mm | 1 | **23,43** |
| TA1420131000004 | 4 | 11-27 | 7/16"-1" | 1/4"-3/4" | 500 mm | 1 | **39,91** |
| TA1420131000005 | 5 | 13-32 | 1/2"-1"1/4" | 1/4"-1" | 700 mm | 1 | **56,47** |
| TA1420131000006 | 6 | 18-42 | 3/4"-1"1/4" | 1/2"-1"1/4" | 1000 mm | 1 | **84,05** |

## Giramaschi a cricchetto TA1423



| Codice | N° | M | BSW | BSP | Lunghezza totale | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1423131000001 | 1 | 3-10 | 1/8”-3/8” | 1/8” | 85 mm | 1 | **11,59** |
| TA1423131000002 | 2 | 5-12 | 7/32”-1/2” | 1/8” | 100 mm | 1 | **15,45** |
| TA142313100001L | 1L | 3-10 | 1/8”-3/8” | 1/8” | 250 mm | 1 | **21,81** |
| TA142313100002L | 2L | 5-12 | 7/32”-1/2” | 1/8” | 310 mm | 1 | **27,55** |

## Portafiliere TA1430, DIN 225



| Codice | N° | M | BSW | Per filiere d. x sp | Lunghezza totale | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1430131000000 | 0 | 1-2,6 | 1/16”-3/32” | 16x5 | 170 mm | 1 | **6,05** |
| TA1430131000001 | 1 | 3-4 | 1/8”-5/32” | 20x5 | 200 mm | 1 | **6,82** |
| TA1430131000002 | 2 | 4,5-6 | 3/16”-1/4” | 20x7 | 220 mm | 1 | **7,08** |
| TA1430131000003 | 3 | 7-9 | 5/16” | 25x9 | 225 mm | 1 | **7,62** |
| TA1430131000004 | 4 | 10-11 | 3/8”-7/16” | 30x11 | 280 mm | 1 | **9,45** |
| TA1430131000005 | 5 | 12-14 | 1/2”-9/16” | 38x14 | 320 mm | 1 | **12,10** |
| TA1430131000006 | 6 | 16-20 | 5/8”-13/16” | 45x18 | 450 mm | 1 | **16,81** |
| TA1430131000007 | 7 | 22-24 | 7/8”-1” | 55x22 | 580 mm | 1 | **21,53** |
| TA1430131000008 | 8 | 27-36 | 1”3/8”-1”5/8” | 65x25 | 640 mm | 1 | **90,13** |

## Set dime per filiere M3-M12



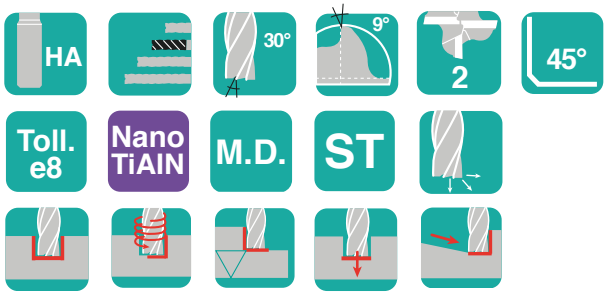
### Caratteristiche

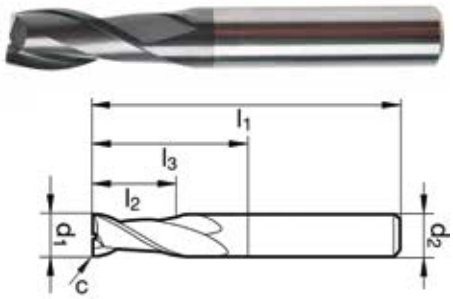
Dime per filiere DIN 223 per un perfetto allineamento della filiera rispetto al perno da filettare; adatte per filettature destre e sinistre, sia metriche che in pollici; ideali per produzione di volumi limitati senza settare macchine e accessori.

| Codice | | € / cad. |
|---|---|---|
| UT000100500312K | 1 | **29,10** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Fresa in metallo duro standard TA1400, rivestita Nano TiAlN, elica 30°, corta per cave, 2 taglienti

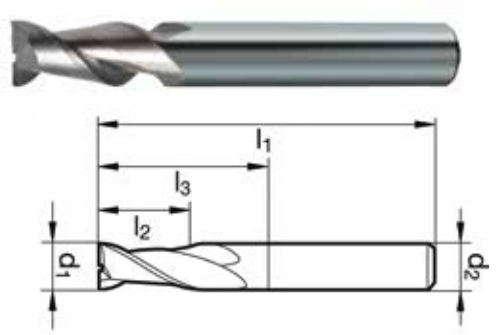



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1400110100200 | **2** | 4 | 40 | 6 | 9,4 | 0,02 | 1 | **24,26** |
| TA1400110100300 | **3** | 4 | 50 | 8 | 12,9 | 0,03 | 1 | **23,72** |
| TA1400110100400 | **4** | 6 | 50 | 11 | 16,4 | 0,04 | 1 | **23,33** |
| TA1400110100500 | **5** | 6 | 50 | 13 | 19,9 | 0,05 | 1 | **23,33** |
| TA1400110100600 | **6** | 6 | 50 | 13 | 20 | 0,06 | 1 | **22,76** |
| TA1400110100700 | **7** | 8 | 60 | 16 | 23,1 | 0,07 | 1 | **37,93** |
| TA1400110100800 | **8** | 8 | 60 | 19 | 27 | 0,8 | 1 | **30,36** |
| TA1400110100900 | **9** | 10 | 70 | 19 | 29,1 | 0,9 | 1 | **53,10** |
| TA1400110101000 | **10** | 10 | 70 | 22 | 30 | 0,1 | 1 | **44,57** |
| TA1400110101100 | **11** | 12 | 75 | 22 | 29,1 | 0,11 | 1 | **58,79** |
| TA1400110101200 | **12** | 12 | 75 | 26 | 39 | 0,12 | 1 | **63,55** |
| TA1400110101400 | **14** | 14 | 75 | 26 | 40 | 0,14 | 1 | **86,31** |
| TA1400110101600 | **16** | 16 | 75 | 26 | 43 | 0,16 | 1 | **127,08** |
| TA1400110101800 | **18** | 18 | 100 | 52 | 52 | 0,18 | 1 | **159,32** |
| TA1400110102000 | **20** | 20 | 100 | 50 | 50 | 0,2 | 1 | **166,91** |

## Fresa in metallo duro standard TA9992, non rivestita, con lappatura, elica 35°, corta per cave, 2 taglienti

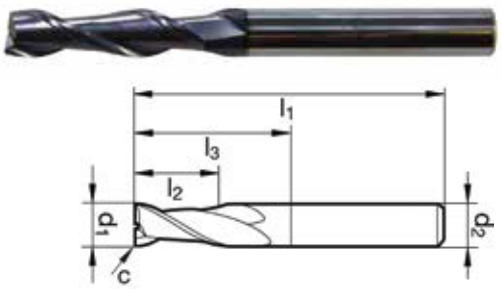



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA9992110100200 | **2** | 4 | 40 | 7 | 10,4 | 1 | **20,96** |
| TA9992110100300 | **3** | 4 | 50 | 9 | 13,9 | 1 | **20,96** |
| TA9992110100400 | **4** | 6 | 57 | 11 | 16,4 | 1 | **20,96** |
| TA9992110100500 | **5** | 6 | 57 | 13 | 19,9 | 1 | **20,96** |
| TA9992110100600 | **6** | 8 | 57 | 13 | 21 | 1 | **20,96** |
| TA9992110100800 | **8** | 10 | 63 | 19 | 28 | 1 | **23,87** |
| TA9992110101000 | **10** | 10 | 72 | 22 | 33 | 1 | **41,74** |
| TA9992110101200 | **12** | 12 | 83 | 26 | 40 | 1 | **62,13** |
| TA9992110101400 | **14** | 14 | 83 | 26 | 41 | 1 | **75,73** |
| TA9992110101600 | **16** | 16 | 92 | 32 | 49 | 1 | **100,97** |
| TA9992110101800 | **18** | 18 | 92 | 32 | 50 | 1 | **120,38** |
| TA9992110102000 | **20** | 20 | 104 | 38 | 58 | 1 | **159,21** |

## Fresa in metallo duro standard TA1401, rivestita Nano TiAlN, elica 30°, serie lunga, 2 taglienti



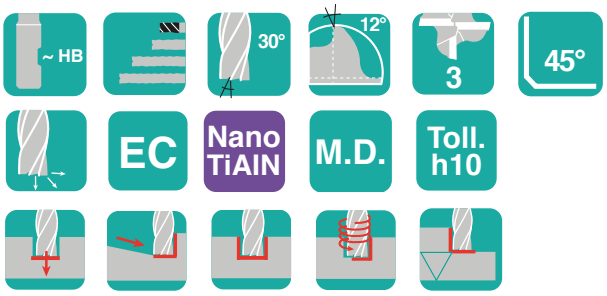



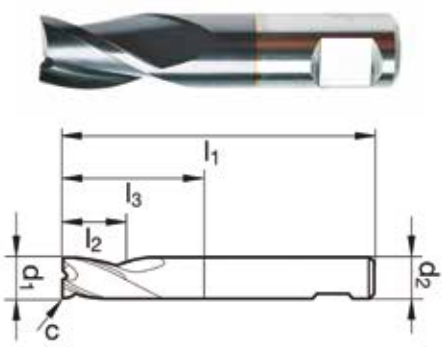

| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1401110100300 | **3** | 3 | 60 | 20 | 32 | 0,03 | 1 | **28,63** |
| TA1401110100400 | **4** | 4 | 60 | 20 | 32 | 0,04 | 1 | **31,85** |
| TA1401110100500 | **5** | 5 | 75 | 25 | 47 | 0,05 | 1 | **33,76** |
| TA1401110100600 | **6** | 6 | 75 | 30 | 39 | 0,06 | 1 | **33,76** |
| TA1401110100800 | **8** | 8 | 75 | 30 | 39 | 0,08 | 1 | **64,48** |
| TA1401110101000 | **10** | 10 | 100 | 40 | 60 | 0,1 | 1 | **78,72** |
| TA1401110101200 | **12** | 12 | 100 | 45 | 55 | 0,12 | 1 | **121,39** |
| TA1401110101400 | **14** | 14 | 100 | 45 | 55 | 0,14 | 1 | **157,44** |
| TA1401110101600 | **16** | 16 | 100 | 45 | 62 | 0,16 | 1 | **195,37** |
| TA1401110101800 | **18** | 18 | 100 | 45 | 63 | 0,18 | 1 | **227,60** |
| TA1401110102000 | **20** | 20 | 100 | 45 | 62 | 0,2 | 1 | **263,65** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

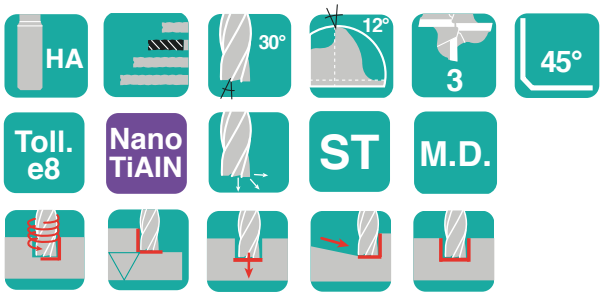
### Fresa in metallo duro standard TA1402, rivestita Nano TiAlN, elica 30°, extra corta per cave, 3 taglienti, con attacco weldon

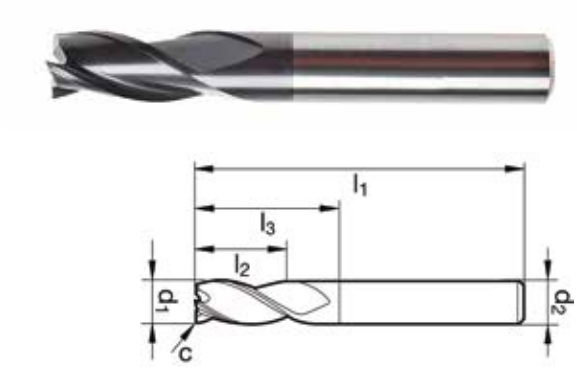



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1402110100050 | **0,5** | 3 | 38 | 1,5 | 3,4 | 0,025 | 1 | **23,07** |
| TA1402110100060 | **0,6** | 3 | 38 | 1,5 | 3,4 | 0,025 | 1 | **23,07** |
| TA1402110100080 | **0,8** | 3 | 38 | 2 | 3,9 | 0,025 | 1 | **18,59** |
| TA1402110100100 | **1** | 3 | 38 | 2 | 3,9 | 0,025 | 1 | **15,42** |
| TA1402110100120 | **1,2** | 3 | 38 | 2 | 3,9 | 0,025 | 1 | **24,08** |
| TA1402110100150 | **1,5** | 3 | 38 | 2 | 3,9 | 0,025 | 1 | **15,42** |
| TA1402110100180 | **1,8** | 3 | 38 | 2 | 3,9 | 0,025 | 1 | **24,08** |
| TA1402110100200 | **2** | 6 | 38 | 4 | 7,4 | 0,025 | 1 | **20,47** |
| TA1402110100250 | **2,5** | 6 | 38 | 5 | 8,4 | 0,05 | 1 | **21,48** |
| TA1402110100300 | **3** | 6 | 38 | 5 | 8,4 | 0,05 | 1 | **20,47** |
| TA1402110100350 | **3,5** | 6 | 38 | 6 | 9,4 | 0,05 | 1 | **21,48** |
| TA1402110100400 | **4** | 6 | 38 | 7 | 10,4 | 0,05 | 1 | **20,47** |
| TA1402110100450 | **4,5** | 6 | 38 | 8 | 12,4 | 0,05 | 1 | **24,08** |
| TA1402110100500 | **5** | 6 | 38 | 8 | 12,4 | 0,05 | 1 | **23,07** |
| TA1402110100550 | **5,5** | 6 | 38 | 8 | 12,4 | 0,05 | 1 | **24,08** |
| TA1402110100575 | **5,75** | 6 | 38 | 8 | 12,4 | 0,05 | 1 | **26,68** |
| TA1402110100600 | **6** | 6 | 38 | 8 | 14 | 0,05 | 1 | **23,07** |
| TA1402110100675 | **6,75** | 8 | 42 | 10 | 15,4 | 0,1 | 1 | **35,17** |
| TA1402110100700 | **7** | 8 | 42 | 10 | 16,4 | 0,1 | 1 | **32,29** |
| TA1402110100775 | **7,75** | 8 | 42 | 10 | 16,4 | 0,1 | 1 | **32,73** |
| TA1402110100800 | **8** | 8 | 43 | 11 | 19 | 0,1 | 1 | **32,29** |
| TA1402110100870 | **8,7** | 10 | 48 | 11 | 17,4 | 0,1 | 1 | **49,18** |
| TA1402110100900 | **9** | 10 | 48 | 11 | 17,4 | 0,1 | 1 | **47,43** |
| TA1402110100970 | **9,7** | 10 | 48 | 11 | 17,4 | 0,1 | 1 | **49,18** |
| TA1402110101000 | **10** | 10 | 50 | 13 | 23 | 0,1 | 1 | **46,71** |
| TA1402110101200 | **12** | 12 | 55 | 15 | 25 | 0,1 | 1 | **54,80** |
| TA1402110101400 | **14** | 14 | 58 | 15 | 28 | 0,15 | 1 | **75,27** |
| TA1402110101600 | **16** | 16 | 62 | 18 | 29 | 0,15 | 1 | **98,21** |
| TA1402110102000 | **20** | 20 | 75 | 22 | 41 | 0,15 | 1 | **157,18** |

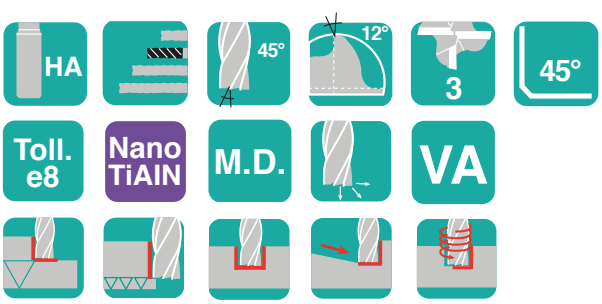
## Fresa in metallo duro standard TA1404, rivestita Nano TiAlN, elica 30°, corta per cave, 3 taglienti

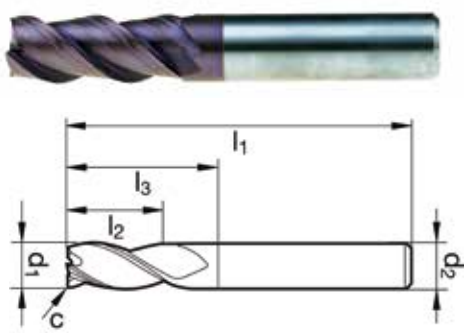



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1404110100200 | **2** | 4 | 50 | 6 | 9,4 | 0,03 | 1 | **23,72** |
| TA1404110100300 | **3** | 6 | 57 | 8 | 12,9 | 0,05 | 1 | **23,72** |
| TA1404110100400 | **4** | 6 | 57 | 11 | 16,4 | 0,06 | 1 | **23,33** |
| TA1404110100500 | **5** | 6 | 57 | 13 | 19,9 | 0,08 | 1 | **22,76** |
| TA1404110100600 | **6** | 6 | 57 | 13 | 21 | 0,09 | 1 | **22,76** |
| TA1404110100800 | **8** | 8 | 63 | 19 | 27 | 0,12 | 1 | **30,36** |
| TA1404110101000 | **10** | 10 | 72 | 22 | 32 | 0,15 | 1 | **44,57** |
| TA1404110101200 | **12** | 12 | 83 | 26 | 38 | 0,18 | 1 | **68,29** |
| TA1404110101400 | **14** | 14 | 83 | 26 | 38 | 0,21 | 1 | **85,36** |
| TA1404110101600 | **16** | 16 | 92 | 32 | 44 | 0,19 | 1 | **106,22** |
| TA1404110102000 | **20** | 20 | 104 | 38 | 54 | 0,24 | 1 | **166,91** |

## Fresa in metallo duro standard TA1443, rivestita Nano TiAlN, elica 45°, corta per cave, 3 taglienti



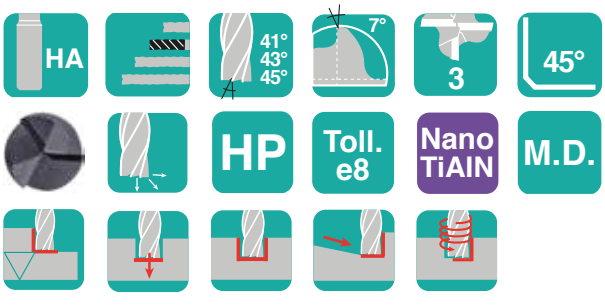




| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1443110100200 | **2** | 4 | 50 | 6 | 8,9 | 0,03 | 1 | **25,80** |
| TA1443110100300 | **3** | 6 | 57 | 8 | 11,9 | 0,05 | 1 | **23,51** |
| TA1443110100400 | **4** | 6 | 57 | 11 | 14,9 | 0,06 | 1 | **23,15** |
| TA1443110100500 | **5** | 6 | 57 | 13 | 18,4 | 0,08 | 1 | **23,15** |
| TA1443110100600 | **6** | 6 | 57 | 13 | 21 | 0,09 | 1 | **23,90** |
| TA1443110100800 | **8** | 8 | 63 | 19 | 27 | 0,12 | 1 | **30,72** |
| TA1443110101000 | **10** | 10 | 72 | 22 | 32 | 0,15 | 1 | **43,62** |
| TA1443110101200 | **12** | 12 | 83 | 26 | 38 | 0,18 | 1 | **68,29** |
| TA1443110101400 | **14** | 14 | 83 | 26 | 38 | 0,21 | 1 | **83,46** |
| TA1443110101600 | **16** | 16 | 92 | 32 | 44 | 0,19 | 1 | **111,91** |
| TA1443110102000 | **20** | 20 | 104 | 38 | 54 | 0,24 | 1 | **180,20** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

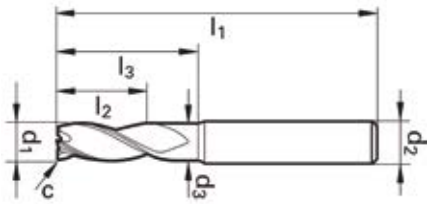
## ASPORTAZIONE TRUCIOLO

### Fresa in metallo duro ad alte prestazioni TA1422, rivestita Nano TiAlN, elica 41/43/45° a passo differenziato, 3 taglienti, per cave ad alti avanzamenti



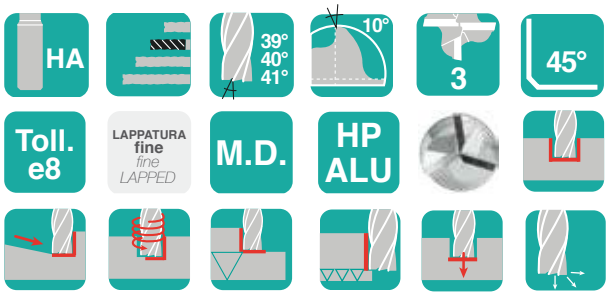


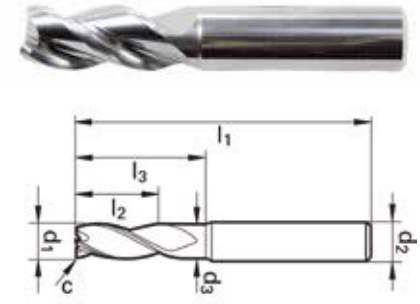



| Codice | d1/e8 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1422110100300 | **3** | 6 | 2,8 | 57 | 8 | 15 | 0,03 | 1 | **23,79** |
| TA1422110100350 | **3,5** | 6 | 3,3 | 57 | 10 | 15 | 0,05 | 1 | **26,52** |
| TA1422110100370 | **3,7** | 6 | 3 | 57 | 11 | 15 | 0,06 | 1 | **27,94** |
| TA1422110100400 | **4** | 6 | 3,8 | 57 | 11 | 18 | 0,06 | 1 | **23,79** |
| TA1422110100450 | **4,5** | 6 | 4,3 | 57 | 11 | 18 | 0,07 | 1 | **26,52** |
| TA1422110100470 | **4,7** | 6 | 4,5 | 57 | 13 | 18 | 0,07 | 1 | **27,94** |
| TA1422110100500 | **5** | 6 | 4,8 | 57 | 13 | 18 | 0,08 | 1 | **23,79** |
| TA1422110100550 | **5,5** | 6 | 5,3 | 57 | 13 | 19,4 | 0,08 | 1 | **26,52** |
| TA1422110100570 | **5,7** | 6 | 5,5 | 57 | 13 | 20,4 | 0,09 | 1 | **27,94** |
| TA1422110100600 | **6** | 6 | 5,7 | 57 | 13 | 20 | 0,09 | 1 | **31,08** |
| TA1422110100650 | **6,5** | 8 | 6,2 | 63 | 16 | 24,9 | 0,1 | 1 | **34,76** |
| TA1422110100700 | **7** | 8 | 6,7 | 63 | 16 | 24,9 | 0,11 | 1 | **37,96** |
| TA1422110100750 | **7,5** | 8 | 7,2 | 63 | 19 | 25,3 | 0,11 | 1 | **42,54** |
| TA1422110100800 | **8** | 8 | 7,7 | 63 | 19 | 26 | 0,12 | 1 | **44,37** |
| TA1422110100850 | **8,5** | 10 | 8,2 | 72 | 19 | 29,4 | 0,13 | 1 | **49,85** |
| TA1422110100900 | **9** | 10 | 8,7 | 72 | 19 | 29,9 | 0,14 | 1 | **57,17** |
| TA1422110100950 | **9,5** | 10 | 9,2 | 72 | 22 | 30,3 | 0,14 | 1 | **63,58** |
| TA1422110101000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 0,15 | 1 | **66,31** |
| TA1422110101200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 0,18 | 1 | **85,39** |
| TA1422110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,19 | 1 | **148,19** |
| TA1422110102000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,24 | 1 | **235,05** |

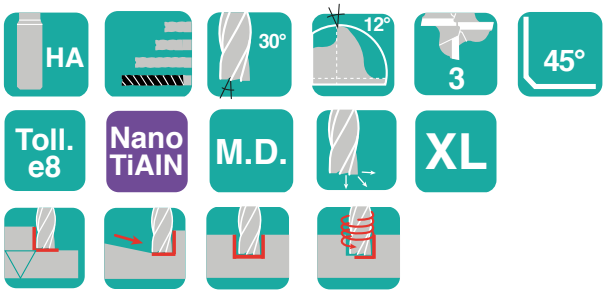
## Fresa in metallo duro ad alte prestazioni TA9998, non rivestita, con lappatura fine, elica 39/40/41° a passo differenziato, 3 taglienti, per cave e contornature ad alti avanzamenti

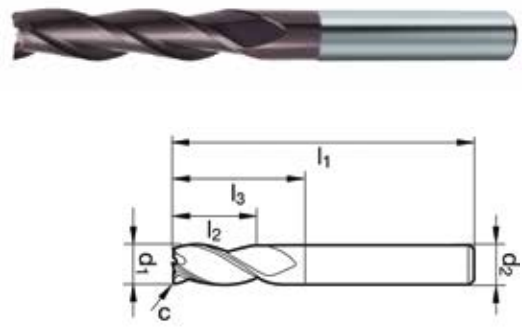



| Codice | d1/e8 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA9998110700300 | **3** | 6 | 2,8 | 57 | 8 | 15 | 0,03 | 1 | **26,52** |
| TA9998110700400 | **4** | 6 | 3,8 | 57 | 11 | 18 | 0,04 | 1 | **26,52** |
| TA9998110700500 | **5** | 6 | 4,8 | 57 | 13 | 18 | 0,05 | 1 | **26,52** |
| TA9998110700600 | **6** | 6 | 5,7 | 57 | 13 | 20 | 0,06 | 1 | **26,52** |
| TA9998110700800 | **8** | 8 | 7,7 | 63 | 19 | 26 | 0,08 | 1 | **34,76** |
| TA9998110701000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 0,1 | 1 | **50,21** |
| TA9998110701200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 0,12 | 1 | **70,81** |
| TA9998110701600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,16 | 1 | **119,74** |
| TA9998110702000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,2 | 1 | **193,13** |

## Fresa in metallo duro standard TA1405, rivestita Nano TiAlN, elica 30°, serie extra lunga, 3 taglienti



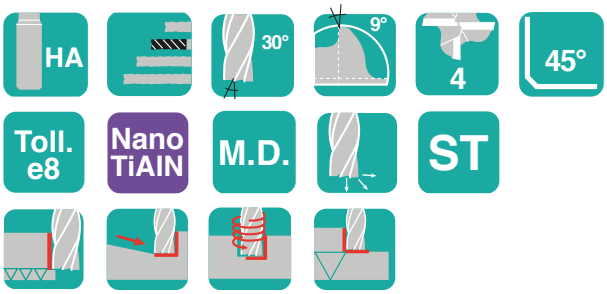



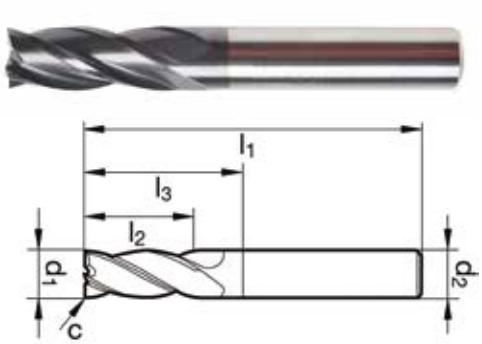

| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1405110100300 | **3** | 6 | 57 | 12 | 16,9 | 0,05 | 1 | **37,93** |
| TA1405110100400 | **4** | 6 | 63 | 19 | 24,4 | 0,06 | 1 | **40,79** |
| TA1405110100500 | **5** | 6 | 68 | 24 | 30,9 | 0,08 | 1 | **45,53** |
| TA1405110100600 | **6** | 6 | 72 | 24 | 36 | 0,09 | 1 | **59,74** |
| TA1405110100800 | **8** | 8 | 88 | 38 | 52 | 0,12 | 1 | **76,81** |
| TA1405110101000 | **10** | 10 | 95 | 45 | 55 | 0,15 | 1 | **100,53** |
| TA1405110101200 | **12** | 12 | 110 | 53 | 65 | 0,18 | 1 | **144,15** |
| TA1405110101400 | **14** | 14 | 110 | 53 | 65 | 0,21 | 1 | **206,75** |
| TA1405110101600 | **16** | 16 | 125 | 63 | 80 | 0,19 | 1 | **271,22** |
| TA1405110102000 | **20** | 20 | 141 | 75 | 95 | 0,24 | 1 | **354,68** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

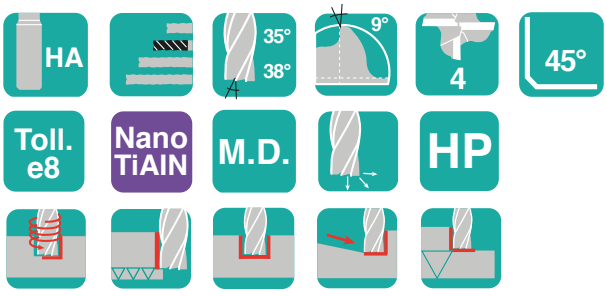
### Fresa in metallo duro standard TA1407, rivestita Nano TiAlN, elica 30°, corta per finiture in contornatura, 4 taglienti



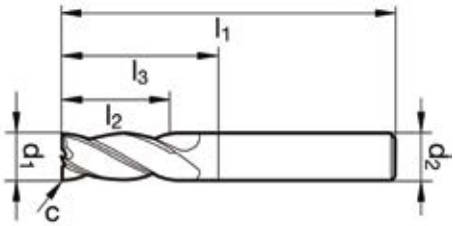

| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1407110100200 | **2** | 2 | 32 | 8 | 10 | 0,03 | 1 | **17,25** |
| TA1407110100300 | **3** | 3 | 38 | 12 | 15 | 0,05 | 1 | **17,25** |
| TA1407110100400 | **4** | 4 | 40 | 12 | 16 | 0,05 | 1 | **18,98** |
| TA1407110100500 | **5** | 5 | 50 | 15 | 20 | 0,05 | 1 | **18,98** |
| TA1407110100600 | **6** | 6 | 57 | 16 | 21 | 0,05 | 1 | **30,72** |
| TA1407110100700 | **7** | 8 | 60 | 16 | 23,9 | 0,1 | 1 | **24,85** |
| TA1407110100800 | **8** | 8 | 68 | 22 | 32 | 0,1 | 1 | **43,62** |
| TA1407110100900 | **9** | 10 | 70 | 22 | 38,4 | 0,1 | 1 | **40,79** |
| TA1407110101000 | **10** | 10 | 72 | 25 | 32 | 0,1 | 1 | **63,55** |
| TA1407110101100 | **11** | 12 | 83 | 26 | 27,6 | 0,1 | 1 | **91,05** |
| TA1407110101200 | **12** | 12 | 83 | 28 | 38 | 0,1 | 1 | **82,50** |
| TA1407110101400 | **14** | 14 | 83 | 28 | 38 | 0,15 | 1 | **110,00** |
| TA1407110101600 | **16** | 16 | 92 | 35 | 44 | 0,15 | 1 | **140,36** |
| TA1407110101800 | **18** | 18 | 92 | 35 | 44 | 0,15 | 1 | **185,89** |
| TA1407110102000 | **20** | 20 | 104 | 40 | 54 | 0,15 | 1 | **220,03** |

### Fresa in metallo duro ad alte prestazioni TA1408, rivestita Nano TiAlN, elica 35/38° a passo differenziato, 4 taglienti, per cave e contornature



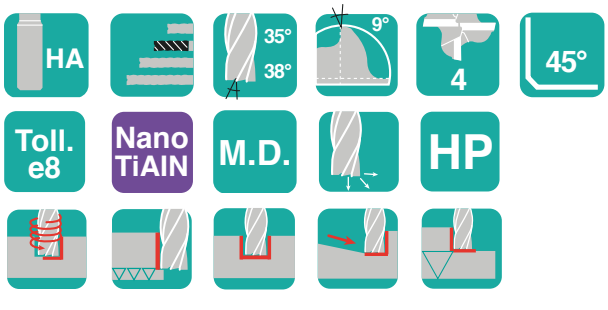


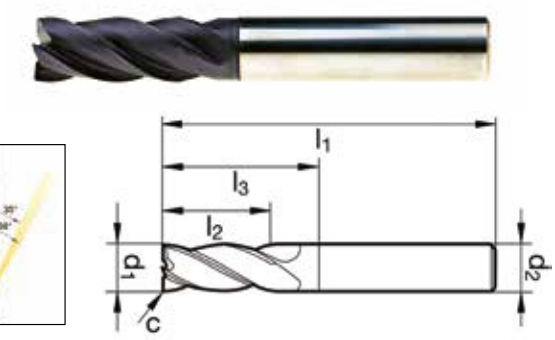



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1408110100300 | **3** | 6 | 57 | 8 | 11,4 | 0,06 | 1 | **28,76** |
| TA1408110100400 | **4** | 6 | 57 | 11 | 14,9 | 0,08 | 1 | **28,76** |
| TA1408110100500 | **5** | 6 | 57 | 13 | 17,4 | 0,1 | 1 | **28,76** |
| TA1408110100600 | **6** | 6 | 57 | 13 | 21 | 0,12 | 1 | **35,10** |
| TA1408110100800 | **8** | 8 | 63 | 19 | 27 | 0,16 | 1 | **48,54** |
| TA1408110101000 | **10** | 10 | 72 | 22 | 32 | 0,2 | 1 | **73,75** |
| TA1408110101200 | **12** | 12 | 83 | 26 | 38 | 0,24 | 1 | **93,34** |

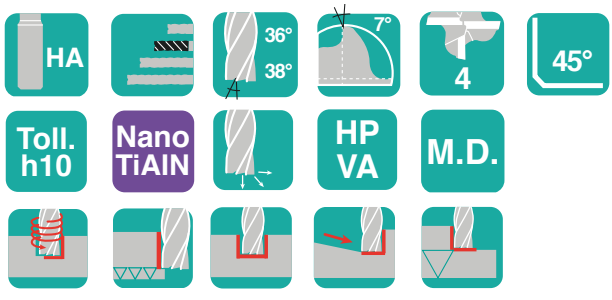
## Fresa in metallo duro ad alte prestazioni TA1408, rivestita Nano TiAlN, elica 35/38° a passo differenziato, 4 taglienti, per cave e contornature

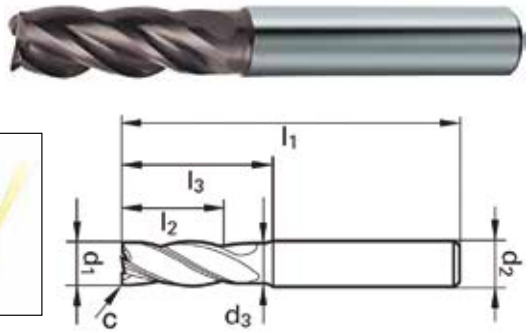



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1408110101400 | **14** | 14 | 83 | 26 | 38 | 0,28 | 1 | **126,95** |
| TA1408110101600 | **16** | 16 | 92 | 32 | 44 | 0,32 | 1 | **162,43** |
| TA1408110102000 | **20** | 20 | 104 | 38 | 54 | 0,4 | 1 | **252,04** |

## Fresa in metallo duro ad alte prestazioni TA1430, rivestita Nano TiAlN, elica 36/38° a passo differenziato, 4 taglienti, per cave e contornature su acciaio inox e superleghe



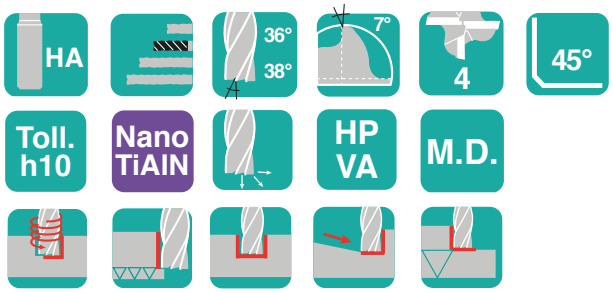




| Codice | d1/e8 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1430110100300 | **3** | 6 | 2,8 | 57 | 8 | 15 | 0,1 | 1 | **38,11** |
| TA1430110100350 | **3,5** | 6 | 3,3 | 57 | 10 | 15 | 0,1 | 1 | **39,68** |
| TA1430110100400 | **4** | 6 | 3,8 | 57 | 11 | 18 | 0,15 | 1 | **36,05** |
| TA1430110100450 | **4,5** | 6 | 4,3 | 57 | 11 | 18 | 0,15 | 1 | **39,68** |
| TA1430110100500 | **5** | 6 | 4,8 | 57 | 13 | 18 | 0,15 | 1 | **36,05** |
| TA1430110100550 | **5,5** | 6 | 5,3 | 57 | 13 | 20,4 | 0,2 | 1 | **39,68** |
| TA1430110100600 | **6** | 6 | 5,7 | 57 | 13 | 20 | 0,2 | 1 | **43,85** |
| TA1430110100650 | **6,5** | 8 | 6,2 | 63 | 16 | 24,4 | 0,25 | 1 | **49,11** |
| TA1430110100700 | **7** | 8 | 6,7 | 63 | 16 | 24,9 | 0,25 | 1 | **53,28** |
| TA1430110100750 | **7,5** | 8 | 7,2 | 63 | 19 | 25,3 | 0,25 | 1 | **58,50** |
| TA1430110100800 | **8** | 8 | 7,7 | 63 | 19 | 26 | 0,25 | 1 | **60,56** |
| TA1430110100850 | **8,5** | 10 | 8,2 | 72 | 19 | 29,4 | 0,3 | 1 | **66,82** |
| TA1430110100900 | **9** | 10 | 8,7 | 72 | 19 | 29,9 | 0,3 | 1 | **77,28** |
| TA1430110100950 | **9,5** | 10 | 9,2 | 72 | 22 | 30,3 | 0,3 | 1 | **84,61** |
| TA1430110101000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 0,3 | 1 | **91,90** |
| TA1430110101100 | **11** | 12 | 10,5 | 83 | 26 | 34,7 | 0,35 | 1 | **105,52** |
| TA1430110101200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 0,35 | 1 | **117,01** |
| TA1430110101400 | **14** | 14 | 13,5 | 83 | 26 | 36 | 0,4 | 1 | **162,97** |
| TA1430110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,5 | 1 | **202,63** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

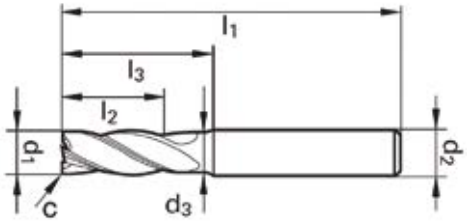
## ASPORTAZIONE TRUCIOLO

### Fresa in metallo duro ad alte prestazioni TA1430, rivestita Nano TiAlN, elica 36/38° a passo differenziato, 4 taglienti, per cave e contornature su acciaio inox e superleghe



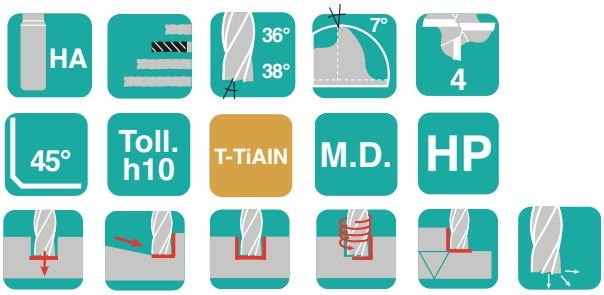




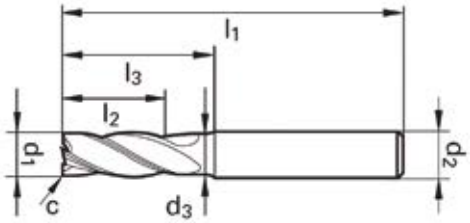

| Codice | d1/e8 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1430110101800 | **18** | 18 | 17,5 | 92 | 32 | 42 | 0,6 | 1 | **259,02** |
| TA1430110102000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,6 | 1 | **315,44** |

### Fresa in metallo duro ad alte prestazioni TA1427, 4 taglienti, a passo differenziato, elica a 36/38°, rivestimento T-TiAlN, foratura dal pieno fino a 1xD, rampe fino a 45°, sgrossatura e finitura di cave, contornature ad alte prestazioni



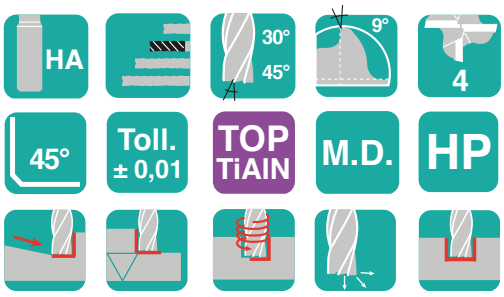


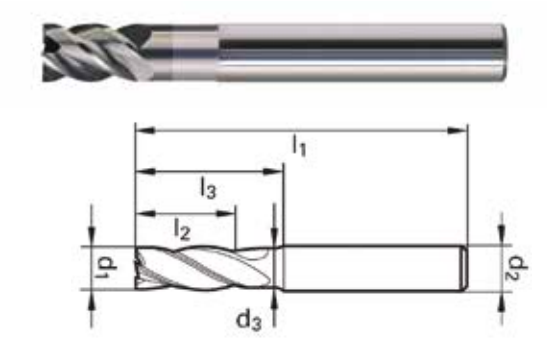



| Codice | d1 | d2 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1427110100400 | **4** | 6 | 3,8 | 57 | 11 | 18 | 0,04 | 1 | **50,21** |
| TA1427110100500 | **5** | 6 | 4,8 | 57 | 13 | 18 | 0,05 | 1 | **51,50** |
| TA1427110100570 | **5,7** | 6 | 5,5 | 57 | 13 | 18 | 0,06 | 1 | **51,50** |
| TA1427110100600 | **6** | 6 | 5,7 | 57 | 13 | 21 | 0,06 | 1 | **55,36** |
| TA1427110100770 | **7,7** | 8 | 7,4 | 63 | 19 | 27 | 0,08 | 1 | **69,53** |
| TA1427110100800 | **8** | 8 | 7,7 | 63 | 19 | 27 | 0,08 | 1 | **50,21** |
| TA1427110100970 | **9,7** | 10 | 9,4 | 72 | 22 | 32 | 0,1 | 1 | **100,43** |
| TA1427110101000 | **10** | 10 | 9,5 | 72 | 22 | 32 | 0,1 | 1 | **103,00** |
| TA1427110101170 | **11,7** | 12 | 11,2 | 83 | 26 | 38 | 0,12 | 1 | **128,75** |
| TA1427110101200 | **12** | 12 | 11,5 | 83 | 26 | 38 | 0,12 | 1 | **133,90** |
| TA1427110101370 | **13,7** | 14 | 13,2 | 83 | 26 | 35 | 0,14 | 1 | **169,95** |
| TA1427110101400 | **14** | 14 | 13,5 | 83 | 26 | 36 | 0,14 | 1 | **175,10** |
| TA1427110101560 | **15,6** | 16 | 15,1 | 92 | 32 | 41 | 0,16 | 1 | **224,03** |
| TA1427110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,16 | 1 | **229,18** |
| TA1427110101950 | **19,5** | 20 | 19 | 104 | 38 | 51 | 0,2 | 1 | **342,48** |
| TA1427110102000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,2 | 1 | **350,20** |

**Fresa in metallo duro ad alte prestazioni TA1490, universale per tutti gli acciai, acciai inossidabili, superleghe e ghise, rivestita TOP TiAlN, elica 30°/45° a passo differenziato, 4 taglienti, per cave e contornature in sgrossatura**



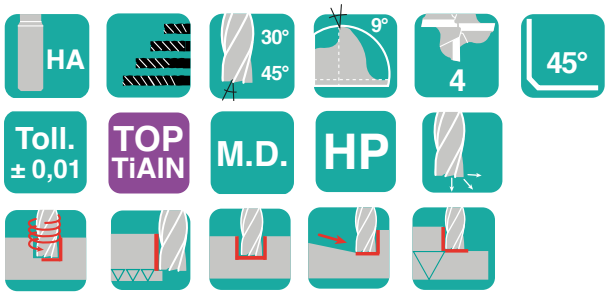



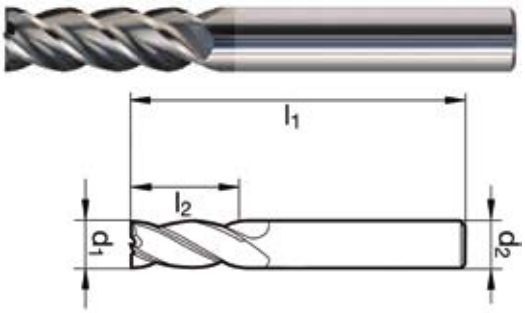

| Codice | d1 | d2 | d3 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1490110106012 | **6** | 6 | 5,9 | 58 | 6 | 12 | 1 | **a richiesta** |
| TA1490110106018 | **6** | 6 | 5,9 | 58 | 9 | 18 | 1 | **a richiesta** |
| TA1490110106024 | **6** | 6 | 5,9 | 80 | 9 | 24 | 1 | **a richiesta** |
| TA1490110106030 | **6** | 6 | 5,9 | 80 | 9 | 30 | 1 | **a richiesta** |
| TA1490110108016 | **8** | 8 | 7,9 | 64 | 8 | 16 | 1 | **a richiesta** |
| TA1490110108024 | **8** | 8 | 7,9 | 64 | 12 | 24 | 1 | **a richiesta** |
| TA1490110108032 | **8** | 8 | 7,9 | 80 | 12 | 32 | 1 | **a richiesta** |
| TA1490110108040 | **8** | 8 | 7,9 | 80 | 12 | 40 | 1 | **a richiesta** |
| TA1490110110020 | **10** | 10 | 9,8 | 73 | 10 | 20 | 1 | **a richiesta** |
| TA1490110110030 | **10** | 10 | 9,8 | 73 | 15 | 30 | 1 | **a richiesta** |
| TA1490110110040 | **10** | 10 | 9,8 | 84 | 15 | 40 | 1 | **a richiesta** |
| TA1490110110050 | **10** | 10 | 9,8 | 100 | 15 | 50 | 1 | **a richiesta** |
| TA1490110112024 | **12** | 12 | 11,7 | 84 | 12 | 24 | 1 | **a richiesta** |
| TA1490110112036 | **12** | 12 | 11,7 | 84 | 18 | 36 | 1 | **a richiesta** |
| TA1490110112048 | **12** | 12 | 11,7 | 110 | 18 | 48 | 1 | **a richiesta** |
| TA1490110112060 | **12** | 12 | 11,7 | 110 | 18 | 60 | 1 | **a richiesta** |
| TA1490110116032 | **16** | 16 | 15,5 | 93 | 16 | 32 | 1 | **a richiesta** |
| TA1490110116048 | **16** | 16 | 15,5 | 108 | 24 | 48 | 1 | **a richiesta** |
| TA1490110116064 | **16** | 16 | 15,5 | 123 | 24 | 64 | 1 | **a richiesta** |
| TA1490110116080 | **16** | 16 | 15,5 | 140 | 24 | 80 | 1 | **a richiesta** |
| TA1490110120040 | **20** | 20 | 19,5 | 105 | 20 | 40 | 1 | **a richiesta** |
| TA1490110120060 | **20** | 20 | 19,5 | 122 | 30 | 60 | 1 | **a richiesta** |
| TA1490110120080 | **20** | 20 | 19,5 | 141 | 30 | 80 | 1 | **a richiesta** |
| TA1490110120100 | **20** | 20 | 19,5 | 162 | 30 | 100 | 1 | **a richiesta** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

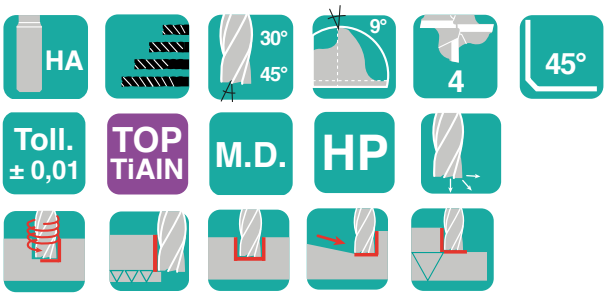
**Fresa in metallo duro ad alte prestazioni TA1495, universale per tutti gli acciai, acciai inossidabili, superleghe e ghise, rivestita TOP TiAlN, elica 30°/45° a passo differenziato, 4 taglienti, per cave e contornature in sgrossatura e finiture**

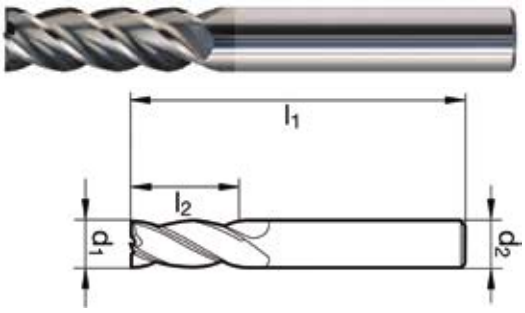



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1495110103003 | **3** | 6 | 58 | 3 | 1 | **a richiesta** |
| TA1495110104004 | **4** | 6 | 58 | 4 | 1 | **a richiesta** |
| TA1495110105005 | **5** | 6 | 58 | 5 | 1 | **a richiesta** |
| TA1495110106006 | **6** | 6 | 58 | 6 | 1 | **a richiesta** |
| TA1495110106012 | **6** | 6 | 58 | 12 | 1 | **a richiesta** |
| TA1495110106018 | **6** | 6 | 58 | 18 | 1 | **a richiesta** |
| TA1495110106024 | **6** | 6 | 80 | 24 | 1 | **a richiesta** |
| TA1495110106030 | **6** | 6 | 80 | 30 | 1 | **a richiesta** |
| TA1495110107014 | **7** | 7 | 61 | 14 | 1 | **a richiesta** |
| TA1495110107021 | **7** | 7 | 61 | 21 | 1 | **a richiesta** |
| TA1495110108008 | **8** | 8 | 64 | 8 | 1 | **a richiesta** |
| TA1495110108016 | **8** | 8 | 64 | 16 | 1 | **a richiesta** |
| TA1495110108024 | **8** | 8 | 64 | 24 | 1 | **a richiesta** |
| TA1495110108032 | **8** | 8 | 80 | 32 | 1 | **a richiesta** |
| TA1495110108040 | **8** | 8 | 80 | 40 | 1 | **a richiesta** |
| TA1495110109018 | **9** | 9 | 68 | 18 | 1 | **a richiesta** |
| TA1495110109027 | **9** | 9 | 68 | 27 | 1 | **a richiesta** |
| TA1495110109036 | **9** | 9 | 68 | 36 | 1 | **a richiesta** |
| TA1495110110010 | **10** | 10 | 73 | 10 | 1 | **a richiesta** |
| TA1495110110020 | **10** | 10 | 73 | 20 | 1 | **a richiesta** |
| TA1495110110030 | **10** | 10 | 73 | 30 | 1 | **a richiesta** |
| TA1495110110040 | **10** | 10 | 84 | 40 | 1 | **a richiesta** |
| TA1495110110050 | **10** | 10 | 100 | 50 | 1 | **a richiesta** |
| TA1495110111022 | **11** | 11 | 72 | 22 | 1 | **a richiesta** |
| TA1495110111033 | **11** | 11 | 72 | 33 | 1 | **a richiesta** |
| TA1495110112012 | **12** | 12 | 84 | 12 | 1 | **a richiesta** |
| TA1495110112024 | **12** | 12 | 84 | 24 | 1 | **a richiesta** |
| TA1495110112036 | **12** | 12 | 84 | 36 | 1 | **a richiesta** |
| TA1495110112048 | **12** | 12 | 110 | 48 | 1 | **a richiesta** |
| TA1495110112060 | **12** | 12 | 110 | 60 | 1 | **a richiesta** |
| TA1495110113026 | **13** | 13 | 85 | 26 | 1 | **a richiesta** |
| TA1495110113039 | **13** | 13 | 85 | 39 | 1 | **a richiesta** |
| TA1495110114028 | **14** | 14 | 84 | 28 | 1 | **a richiesta** |
| TA1495110114042 | **14** | 14 | 101 | 42 | 1 | **a richiesta** |
| TA1495110115030 | **15** | 15 | 80 | 30 | 1 | **a richiesta** |
| TA1495110115045 | **15** | 15 | 100 | 45 | 1 | **a richiesta** |
| TA1495110116032 | **16** | 16 | 93 | 32 | 1 | **a richiesta** |
| TA1495110116048 | **16** | 16 | 108 | 48 | 1 | **a richiesta** |

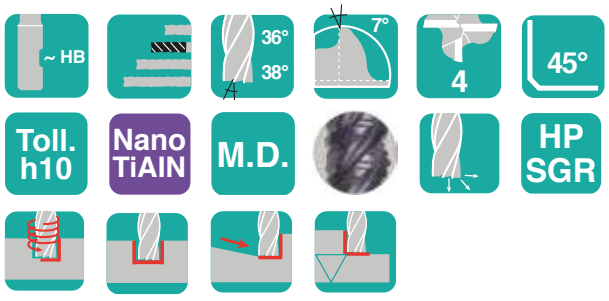
## Fresa in metallo duro ad alte prestazioni TA1495, universale per tutti gli acciai, acciai inossidabili, superleghe e ghise, rivestita TOP TiAlN, elica 30°/45° a passo differenziato, 4 taglienti, per cave e contornature in sgrossatura e finiture



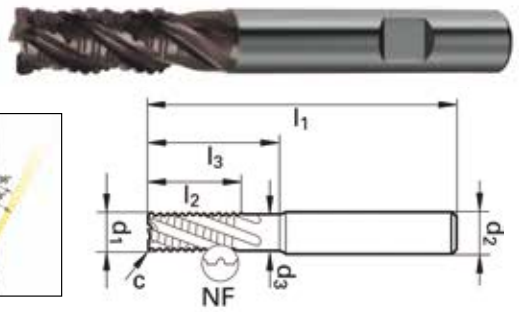




| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1495110116064 | **16** | 16 | 123 | 64 | 1 | **a richiesta** |
| TA1495110116080 | **16** | 16 | 140 | 80 | 1 | **a richiesta** |
| TA1495110117034 | **17** | 18 | 107 | 34 | 1 | **a richiesta** |
| TA1495110117050 | **17** | 18 | 107 | 50 | 1 | **a richiesta** |
| TA1495110118054 | **18** | 18 | 115 | 54 | 1 | **a richiesta** |
| TA1495110119040 | **19** | 20 | 105 | 40 | 1 | **a richiesta** |
| TA1495110120040 | **20** | 20 | 105 | 40 | 1 | **a richiesta** |
| TA1495110120060 | **20** | 20 | 122 | 60 | 1 | **a richiesta** |
| TA1495110120080 | **20** | 20 | 141 | 80 | 1 | **a richiesta** |
| TA1495110120100 | **20** | 20 | 162 | 100 | 1 | **a richiesta** |

## Fresa rompitruciolo in metallo duro ad alte prestazioni TA1435, rivestita Nano TiAlN, elica 36/38° a passo differenziato, 4 taglienti, con attacco weldon, per cave e contornature



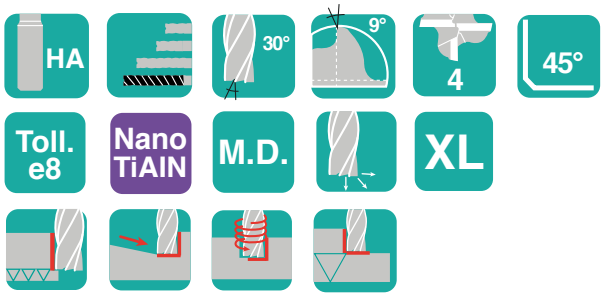


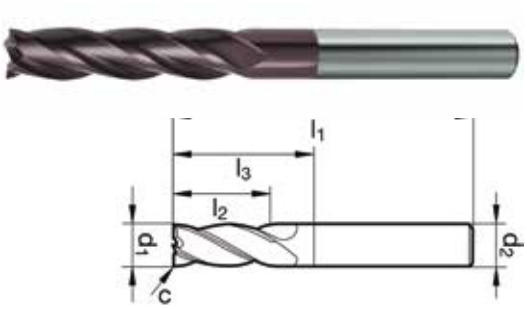




| Codice | d1/h10 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1435110100500 | **5** | 6 | 4,8 | 57 | 13 | 18 | 0,2 | 1 | **55,36** |
| TA1435110100600 | **6** | 6 | 5,7 | 57 | 13 | 20 | 0,3 | 1 | **65,41** |
| TA1435110100700 | **7** | 8 | 6,7 | 63 | 16 | 24,9 | 0,3 | 1 | **73,39** |
| TA1435110100800 | **8** | 8 | 7,7 | 63 | 19 | 26 | 0,3 | 1 | **80,06** |
| TA1435110100900 | **9** | 10 | 8,7 | 72 | 19 | 29,9 | 0,3 | 1 | **87,34** |
| TA1435110101000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 0,3 | 1 | **90,13** |
| TA1435110101200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 0,5 | 1 | **110,03** |
| TA1435110101400 | **14** | 14 | 13,5 | 83 | 26 | 36 | 0,5 | 1 | **142,35** |
| TA1435110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,5 | 1 | **173,30** |
| TA1435110101800 | **18** | 20 | 17,5 | 92 | 32 | 42 | 0,5 | 1 | **223,02** |
| TA1435110102000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,5 | 1 | **269,06** |
| TA1435110102500 | **25** | 25 | 24 | 121 | 45 | 63 | 0,6 | 1 | **452,81** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

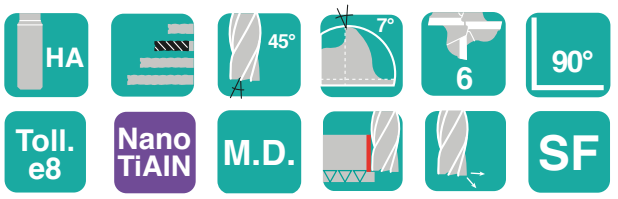
## Fresa in metallo duro standard TA1410, rivestita Nano TiAlN, elica 30°, serie extra lunga, 4 taglienti



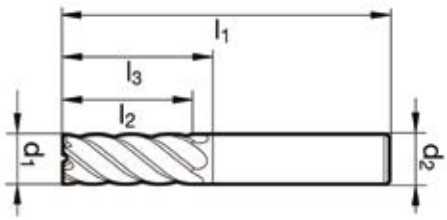




| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | c (mm x45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1410110100300 | **3** | 6 | 57 | 15 | 19,9 | 0,05 | 1 | **33,84** |
| TA1410110100400 | **4** | 6 | 63 | 19 | 25,4 | 0,05 | 1 | **37,93** |
| TA1410110100500 | **5** | 6 | 68 | 24 | 31,4 | 0,05 | 1 | **40,79** |
| TA1410110100600 | **6** | 6 | 68 | 24 | 32 | 0,05 | 1 | **51,22** |
| TA1410110100800 | **8** | 8 | 88 | 38 | 52 | 0,1 | 1 | **53,10** |
| TA1410110101000 | **10** | 10 | 95 | 45 | 55 | 0,1 | 1 | **75,86** |
| TA1410110101200 | **12** | 12 | 110 | 53 | 65 | 0,1 | 1 | **121,39** |
| TA1410110101400 | **14** | 14 | 110 | 53 | 65 | 0,15 | 1 | **144,15** |
| TA1410110101600 | **16** | 16 | 125 | 63 | 77 | 0,15 | 1 | **182,08** |
| TA1410110101800 | **18** | 18 | 125 | 63 | 77 | 0,15 | 1 | **223,82** |
| TA1410110102000 | **20** | 20 | 141 | 75 | 91 | 0,15 | 1 | **238,99** |

## Fresa in metallo duro standard TA1411, rivestita Nano TiAlN, elica 45°, corta per super finiture in contornatura, 6 taglienti






| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1411110100300 | **3** | 4 | 50 | 10 | 13,4 | 1 | **32,24** |
| TA1411110100400 | **4** | 6 | 57 | 11 | 15,9 | 1 | **30,75** |
| TA1411110100500 | **5** | 6 | 57 | 13 | 17,9 | 1 | **29,20** |
| TA1411110100600 | **6** | 6 | 57 | 13 | 20 | 1 | **29,20** |
| TA1411110100800 | **8** | 8 | 63 | 19 | 26 | 1 | **34,89** |
| TA1411110101000 | **10** | 10 | 72 | 22 | 30 | 1 | **55,95** |
| TA1411110101200 | **12** | 12 | 83 | 26 | 36 | 1 | **75,86** |
| TA1411110101400 | **14** | 14 | 83 | 26 | 36 | 1 | **104,31** |
| TA1411110101600 | **16** | 16 | 92 | 32 | 42 | 1 | **136,58** |
| TA1411110101800 | **18** | 18 | 92 | 32 | 42 | 1 | **159,32** |
| TA1411110102000 | **20** | 20 | 104 | 38 | 52 | 1 | **195,37** |

## Fresa in metallo duro ad alte prestazioni TA1440, rivestita Nano TiAlN, elica 44/45/46° a passo differenziato, 6 taglienti, corta per super finiture in contornatura

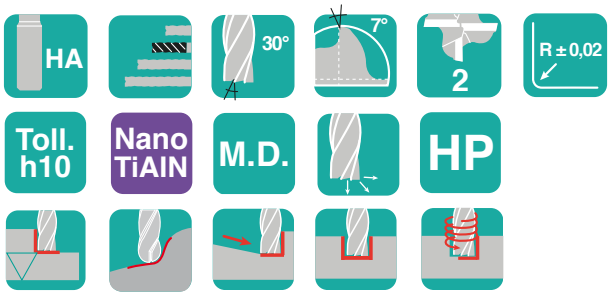


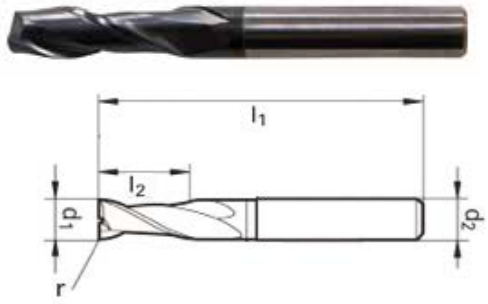




| Codice | d1/e8 | d2/h6 | d3 | l1 | l2 | l3 | c (mm x 45°) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1440110100800 | **8** | 8 | 7,7 | 63 | 19 | 26 | 0,1 | 1 | **62,06** |
| TA1440110101000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 0,1 | 1 | **94,81** |
| TA1440110101200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 0,1 | 1 | **115,51** |
| TA1440110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 0,15 | 1 | **201,70** |
| TA1440110102000 | **20** | 20 | 19,5 | 104 | 38 | 52 | 0,15 | 1 | **339,62** |

## Fresa in metallo duro ad alte prestazioni TA1424, rivestita Nano TiAlN, elica 30°, torica, 2 taglienti

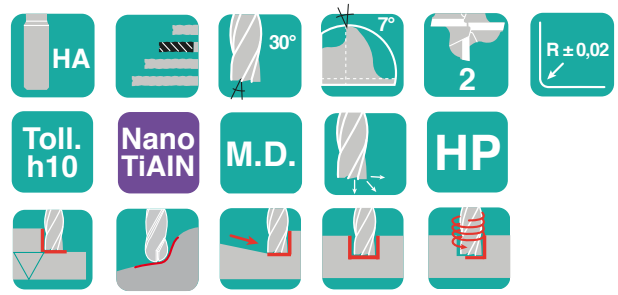


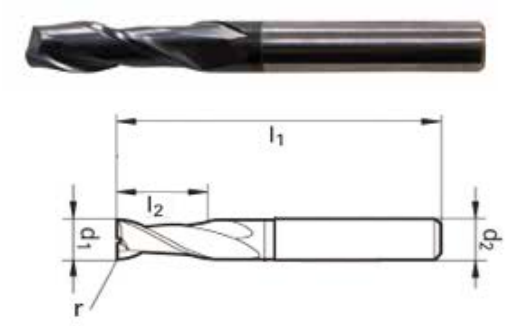




| Codice | d1 | d2 | l1 | l2 | r | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1424110100303 | **3** | 6 | 50 | 12 | 0,3 | 1 | **a richiesta** |
| TA1424110100403 | **4** | 6 | 50 | 15 | 0,3 | 1 | **a richiesta** |
| TA1424110100405 | **4** | 6 | 50 | 15 | 0,5 | 1 | **a richiesta** |
| TA1424110100503 | **5** | 6 | 60 | 20 | 0,3 | 1 | **a richiesta** |
| TA1424110100505 | **5** | 6 | 60 | 20 | 0,5 | 1 | **a richiesta** |
| TA1424110100603 | **6** | 6 | 60 | 20 | 0,3 | 1 | **a richiesta** |
| TA1424110100605 | **6** | 6 | 60 | 20 | 0,5 | 1 | **61,67** |
| TA1424110100610 | **6** | 6 | 60 | 20 | 1 | 1 | **61,67** |
| TA1424110100803 | **8** | 8 | 70 | 25 | 0,3 | 1 | **a richiesta** |
| TA1424110100805 | **8** | 8 | 70 | 25 | 0,5 | 1 | **79,03** |
| TA1424110100810 | **8** | 8 | 70 | 25 | 1 | 1 | **79,03** |
| TA1424110100815 | **8** | 8 | 70 | 25 | 1,5 | 1 | **86,19** |
| TA1424110100820 | **8** | 8 | 70 | 25 | 2 | 1 | **86,19** |
| TA1424110101003 | **10** | 10 | 90 | 30 | 0,3 | 1 | **a richiesta** |
| TA1424110101005 | **10** | 10 | 90 | 30 | 0,5 | 1 | **116,85** |
| TA1424110101010 | **10** | 10 | 90 | 30 | 1 | 1 | **116,85** |
| TA1424110101015 | **10** | 10 | 90 | 30 | 1,5 | 1 | **127,54** |
| TA1424110101020 | **10** | 10 | 90 | 30 | 2 | 1 | **127,54** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Fresa in metallo duro ad alte prestazioni TA1424, rivestita Nano TiAlN, elica 30°, torica, 2 taglienti

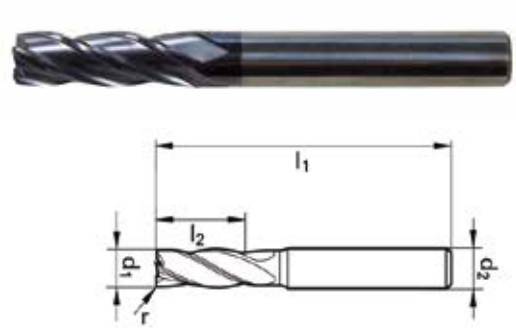



| Codice | d1 | d2 | l1 | l2 | r | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1424110101205 | **12** | 12 | 90 | 30 | 0,5 | 1 | **160,35** |
| TA1424110101210 | **12** | 12 | 90 | 30 | 1 | 1 | **160,35** |
| TA1424110101215 | **12** | 12 | 90 | 30 | 1,5 | 1 | **174,95** |
| TA1424110101220 | **12** | 12 | 90 | 30 | 2 | 1 | **174,95** |
| TA1424110101610 | **16** | 16 | 110 | 50 | 1 | 1 | **299,19** |
| TA1424110101615 | **16** | 16 | 110 | 50 | 1,5 | 1 | **326,43** |
| TA1424110101620 | **16** | 16 | 110 | 50 | 2 | 1 | **326,43** |
| TA1424110102010 | **20** | 20 | 110 | 55 | 1 | 1 | **496,20** |
| TA1424110102015 | **20** | 20 | 110 | 55 | 1,5 | 1 | **541,21** |
| TA1424110102020 | **20** | 20 | 110 | 55 | 2 | 1 | **541,21** |

## Fresa in metallo duro ad alte prestazioni TA1426, rivestita Nano TiAlN, elica 30°, torica, 4 taglienti

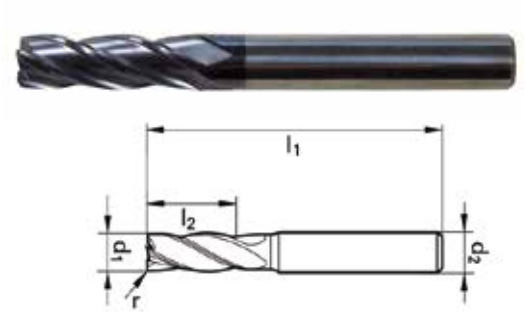



| Codice | d1 | d2 | l1 | l2 | r | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1426110100303 | **3** | 6 | 50 | 12 | 0,3 | 1 | **a richiesta** |
| TA1426110100403 | **4** | 6 | 50 | 15 | 0,3 | 1 | **a richiesta** |
| TA1426110100405 | **4** | 6 | 50 | 15 | 0,5 | 1 | **a richiesta** |
| TA1426110100503 | **5** | 6 | 60 | 20 | 0,3 | 1 | **a richiesta** |
| TA1426110100505 | **5** | 6 | 60 | 20 | 0,5 | 1 | **a richiesta** |
| TA1426110100603 | **6** | 6 | 60 | 20 | 0,3 | 1 | **a richiesta** |
| TA1426110100605 | **6** | 6 | 60 | 20 | 0,5 | 1 | **67,80** |
| TA1426110100610 | **6** | 6 | 60 | 20 | 1 | 1 | **67,80** |
| TA1426110100803 | **8** | 8 | 70 | 25 | 0,3 | 1 | **86,91** |
| TA1426110100805 | **8** | 8 | 70 | 25 | 0,5 | 1 | **86,91** |
| TA1426110100810 | **8** | 8 | 70 | 25 | 1 | 1 | **86,91** |

## Fresa in metallo duro ad alte prestazioni TA1426, rivestita Nano TiAlN, elica 30°, torica, 4 taglienti



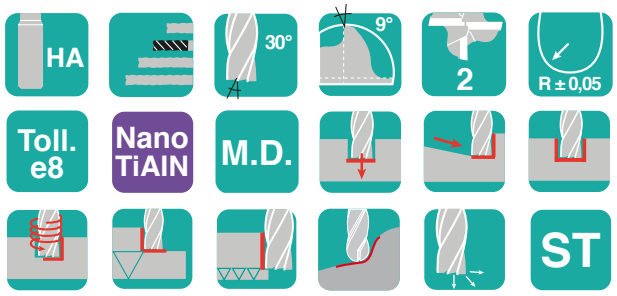



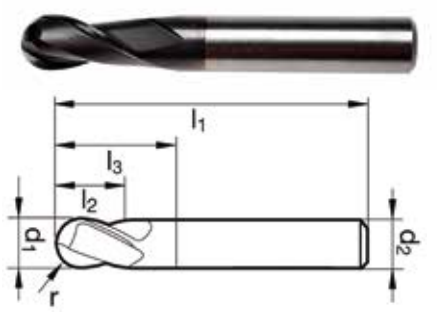

| Codice | d1 | d2 | l1 | l2 | r | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1426110100815 | **8** | 8 | 70 | 25 | 1,5 | 1 | **94,84** |
| TA1426110100820 | **8** | 8 | 70 | 25 | 2 | 1 | **94,84** |
| TA1426110101003 | **10** | 10 | 90 | 30 | 0,3 | 1 | **a richiesta** |
| TA1426110101005 | **10** | 10 | 90 | 30 | 0,5 | 1 | **128,62** |
| TA1426110101010 | **10** | 10 | 90 | 30 | 1 | 1 | **128,62** |
| TA1426110101015 | **10** | 10 | 90 | 30 | 1,5 | 1 | **140,29** |
| TA1426110101020 | **10** | 10 | 90 | 30 | 2 | 1 | **140,29** |
| TA1426110101205 | **12** | 12 | 90 | 30 | 0,5 | 1 | **176,39** |
| TA1426110101210 | **12** | 12 | 90 | 30 | 1 | 1 | **176,39** |
| TA1426110101215 | **12** | 12 | 90 | 30 | 1,5 | 1 | **192,46** |
| TA1426110101220 | **12** | 12 | 90 | 30 | 2 | 1 | **192,46** |
| TA1426110101610 | **16** | 16 | 110 | 50 | 1 | 1 | **329,16** |
| TA1426110101615 | **16** | 16 | 110 | 50 | 1,5 | 1 | **359,03** |
| TA1426110101620 | **16** | 16 | 110 | 50 | 2 | 1 | **359,03** |
| TA1426110102010 | **20** | 20 | 110 | 55 | 1 | 1 | **545,72** |
| TA1426110102015 | **20** | 20 | 110 | 55 | 1,5 | 1 | **595,34** |
| TA1426110102020 | **20** | 20 | 110 | 55 | 2 | 1 | **595,34** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

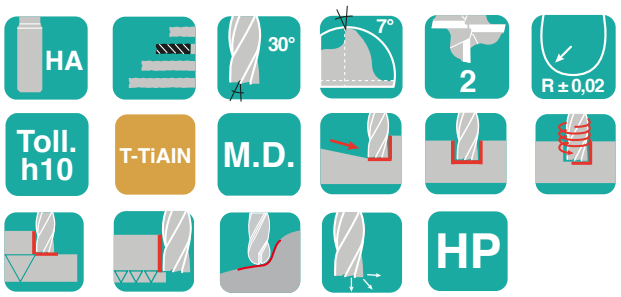
### Fresa in metallo duro standard TA1413, rivestita Nano TiAlN, elica 30°, sferica, 2 taglienti

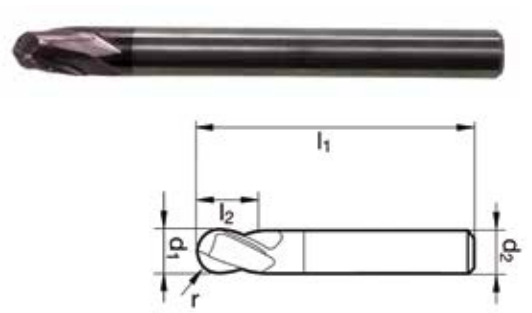



| Codice | d1/e8 | d2/h6 | l1 | l2 | l3 | r | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1413110100200 | **2** | 4 | 40 | 6 | 9,4 | 1 | 1 | **26,55** |
| TA1413110100300 | **3** | 4 | 50 | 7 | 11,9 | 1,5 | 1 | **26,55** |
| TA1413110100400 | **4** | 6 | 50 | 8 | 13,4 | 2 | 1 | **26,55** |
| TA1413110100500 | **5** | 6 | 50 | 10 | 16,9 | 2,5 | 1 | **26,55** |
| TA1413110100600 | **6** | 6 | 50 | 10 | 20 | 3 | 1 | **26,55** |
| TA1413110100800 | **8** | 8 | 60 | 19 | 27 | 4 | 1 | **31,29** |
| TA1413110101000 | **10** | 10 | 70 | 22 | 30 | 5 | 1 | **40,79** |
| TA1413110101200 | **12** | 12 | 75 | 26 | 39 | 6 | 1 | **61,65** |
| TA1413110101600 | **16** | 16 | 75 | 26 | 43 | 8 | 1 | **96,74** |
| TA1413110101800 | **18** | 18 | 100 | 32 | 52 | 9 | 1 | **117,60** |
| TA1413110102000 | **20** | 20 | 100 | 32 | 50 | 10 | 1 | **157,44** |

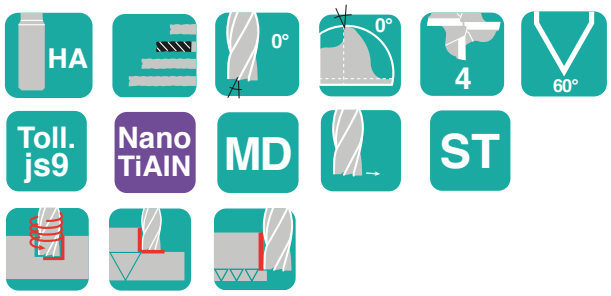
### Fresa in metallo duro ad alte prestazioni TA1433, rivestita Top TiAlN, elica 30°, sferica, 2 taglienti, gambo prolungato

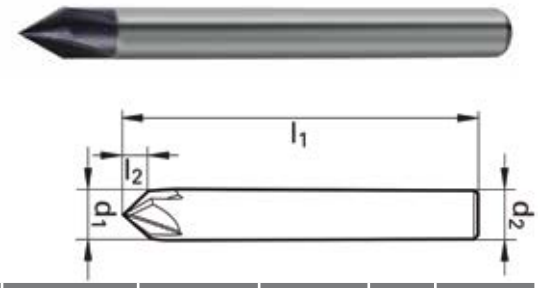



| Codice | d1 | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1433110100300 | **3** | 3 | 75 | 5 | 1 | **38,83** |
| TA1433110100400 | **4** | 4 | 75 | 8 | 1 | **38,83** |
| TA1433110100500 | **5** | 5 | 75 | 9 | 1 | **42,36** |
| TA1433110100600 | **6** | 6 | 100 | 10 | 1 | **48,13** |
| TA1433110100800 | **8** | 8 | 100 | 12 | 1 | **72,54** |
| TA1433110101000 | **10** | 10 | 100 | 14 | 1 | **122,52** |
| TA1433110101200 | **12** | 12 | 100 | 16 | 1 | **156,77** |
| TA1433110101600 | **16** | 16 | 150 | 22 | 1 | **270,35** |

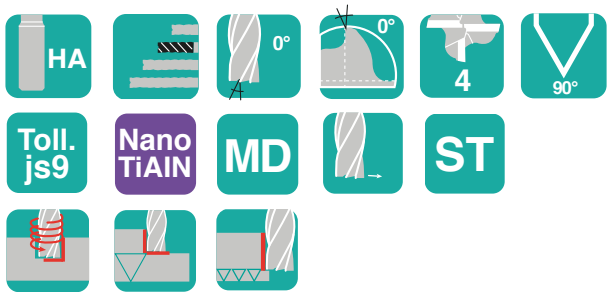
## Fresa in metallo duro TA1560, rivestita Nano TiAlN, 4 taglienti, per smussi a 60° in contornatura

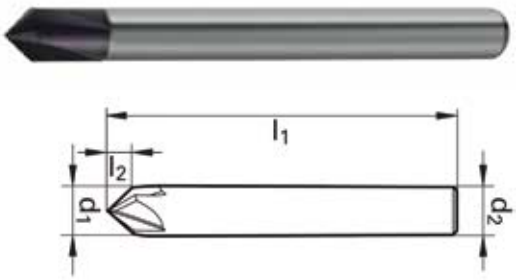



| Codice | d1/js9 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1560110100600 | **8** | 6 | 57 | 5,2 | 1 | **30,13** |
| TA1560110100800 | **8** | 8 | 63 | 7 | 1 | **48,80** |
| TA1560110101000 | **10** | 10 | 72 | 8,7 | 1 | **68,52** |
| TA1560110101200 | **12** | 12 | 83 | 10,4 | 1 | **97,90** |

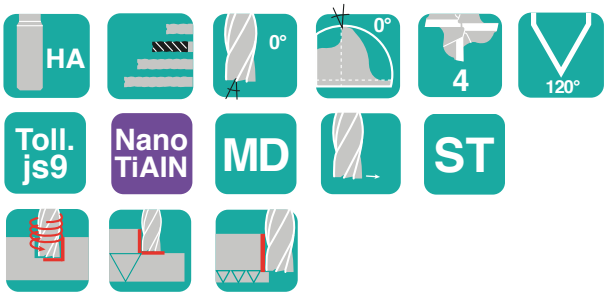
## Fresa in metallo duro TA1590, rivestita Nano TiAlN, 4 taglienti, per smussi a 90° in contornatura

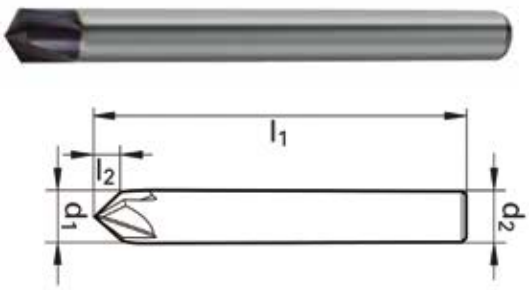



| Codice | d1/js9 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1590110100600 | **6** | 6 | 57 | 3 | 1 | **30,13** |
| TA1590110100800 | **8** | 8 | 63 | 4 | 1 | **48,80** |
| TA1590110101000 | **10** | 10 | 72 | 5 | 1 | **68,52** |
| TA1590110101200 | **12** | 12 | 83 | 6 | 1 | **97,90** |

## Fresa in metallo duro TA1512, rivestita Nano TiAlN, 4 taglienti, per smussi a 120° in contornatura

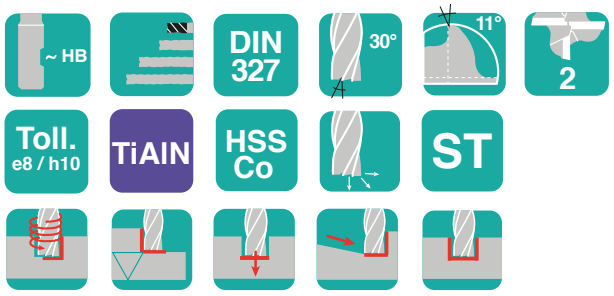


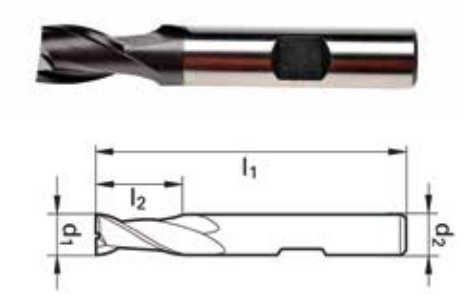




| Codice | d1/js9 | d2/h6 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|
| TA1512110100600 | **6** | 6 | 57 | 1,8 | 1 | **30,13** |
| TA1512110100800 | **8** | 8 | 63 | 2,4 | 1 | **48,80** |
| TA1512110101000 | **10** | 10 | 72 | 2,9 | 1 | **68,52** |
| TA1512110101200 | **12** | 12 | 83 | 3,5 | 1 | **97,90** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Fresa HSS-Co standard TA1414, rivestita TiAlN, elica 30°, corta per cave, 2 taglienti, con attacco weldon

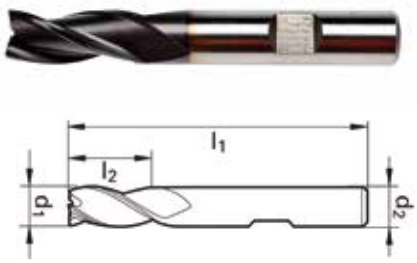



| Codice | Tolleranza | d1 | d2 | l1 | l2 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1414110100100 | h10 | **1** | 6 | 47 | 2 | 2 | 1 | **15,48** |
| TA1414110100150 | h10 | **1,5** | 6 | 47 | 3 | 2 | 1 | **14,65** |
| TA1414110100200 | e8 | **2** | 6 | 48 | 4 | 2 | 1 | **12,75** |
| TA1414110100250 | e8 | **2,5** | 6 | 49 | 5 | 2 | 1 | **12,75** |
| TA1414110100300 | e8 | **3** | 6 | 49 | 5 | 2 | 1 | **12,75** |
| TA1414110100350 | h10 | **3,5** | 6 | 50 | 6 | 2 | 1 | **12,75** |
| TA1414110100400 | e8 | **4** | 6 | 51 | 7 | 2 | 1 | **12,75** |
| TA1414110100450 | h10 | **4,5** | 6 | 51 | 7 | 2 | 1 | **12,75** |
| TA1414110100500 | e8 | **5** | 6 | 52 | 8 | 2 | 1 | **12,75** |
| TA1414110100550 | h10 | **5,5** | 6 | 52 | 8 | 2 | 1 | **12,75** |
| TA1414110100600 | e8 | **6** | 6 | 52 | 8 | 2 | 1 | **12,75** |
| TA1414110100650 | h10 | **6,5** | 10 | 60 | 10 | 2 | 1 | **17,95** |
| TA1414110100700 | e8 | **7** | 10 | 60 | 10 | 2 | 1 | **18,28** |
| TA1414110100800 | e8 | **8** | 10 | 61 | 11 | 2 | 1 | **18,28** |
| TA1414110100850 | h10 | **8,5** | 10 | 61 | 11 | 2 | 1 | **29,82** |
| TA1414110100900 | h10 | **9** | 10 | 61 | 11 | 2 | 1 | **18,28** |
| TA1414110101000 | e8 | **10** | 10 | 63 | 13 | 2 | 1 | **18,28** |
| TA1414110101100 | h10 | **11** | 12 | 70 | 13 | 2 | 1 | **36,59** |
| TA1414110101200 | e8 | **12** | 12 | 73 | 16 | 2 | 1 | **24,41** |
| TA1414110101300 | h10 | **13** | 12 | 73 | 16 | 2 | 1 | **28,56** |
| TA1414110101400 | e8 | **14** | 12 | 73 | 16 | 2 | 1 | **28,81** |
| TA1414110101500 | h10 | **15** | 12 | 73 | 16 | 2 | 1 | **32,55** |
| TA1414110101600 | e8 | **16** | 16 | 79 | 19 | 2 | 1 | **34,71** |
| TA1414110101700 | h10 | **17** | 16 | 79 | 19 | 2 | 1 | **42,08** |
| TA1414110101800 | e8 | **18** | 16 | 79 | 19 | 2 | 1 | **42,64** |
| TA1414110101900 | h10 | **19** | 16 | 79 | 19 | 2 | 1 | **51,19** |
| TA1414110102000 | e8 | **20** | 20 | 88 | 22 | 2 | 1 | **54,13** |

## Fresa HSS-Co standard TA1415, rivestita TiAlN, elica 30°, corta per cave, 3 taglienti, con attacco weldon

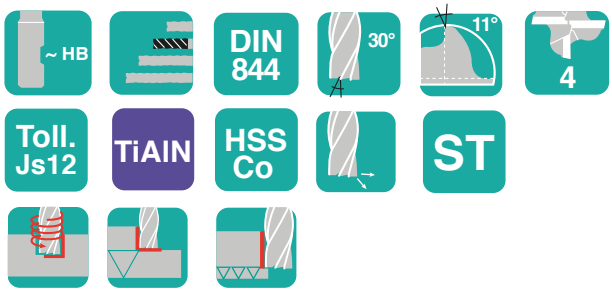


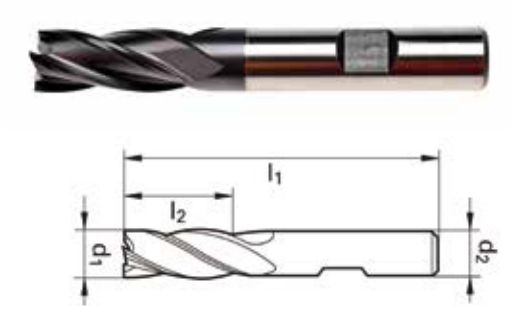




| Codice | Tolleranza | d1 | d2 | l1 | l2 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1415110100300 | e8 | **3** | 6 | 52 | 8 | 3 | 1 | **19,67** |
| TA1415110100400 | e8 | **4** | 6 | 55 | 11 | 3 | 1 | **19,67** |
| TA1415110100500 | e8 | **5** | 6 | 57 | 13 | 3 | 1 | **19,67** |
| TA1415110100600 | e8 | **6** | 6 | 57 | 13 | 3 | 1 | **19,57** |
| TA1415110100700 | e8 | **7** | 10 | 66 | 16 | 3 | 1 | **27,96** |
| TA1415110100800 | e8 | **8** | 10 | 69 | 19 | 3 | 1 | **26,52** |
| TA1415110100900 | h10 | **9** | 10 | 69 | 19 | 3 | 1 | **27,96** |
| TA1415110101000 | e8 | **10** | 10 | 72 | 22 | 3 | 1 | **25,83** |
| TA1415110101100 | e8 | **11** | 12 | 79 | 22 | 3 | 1 | **30,57** |
| TA1415110101200 | e8 | **12** | 12 | 83 | 26 | 3 | 1 | **30,33** |
| TA1415110101400 | e8 | **14** | 12 | 83 | 26 | 3 | 1 | **40,99** |
| TA1415110101500 | h10 | **15** | 12 | 83 | 26 | 3 | 1 | **39,35** |
| TA1415110101600 | e8 | **16** | 16 | 92 | 32 | 3 | 1 | **48,31** |
| TA1415110101800 | e8 | **18** | 16 | 92 | 32 | 3 | 1 | **58,48** |
| TA1415110102000 | e8 | **20** | 20 | 104 | 38 | 3 | 1 | **72,62** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

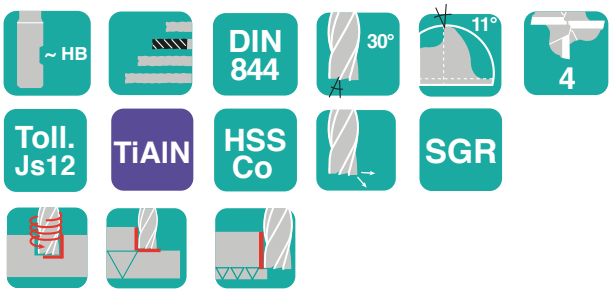
## Fresa HSS-Co standard TA1416, rivestita TiAlN, elica 30°, 4 taglienti, per finiture, con attacco weldon

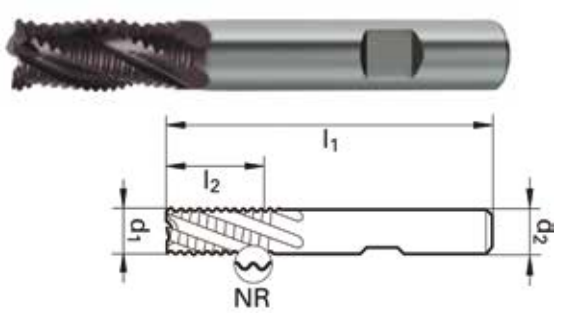



| Codice | d1 | d2 | l1 | l2 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1416110100200 | **2** | 6 | 51 | 7 | 4 | 1 | **24,28** |
| TA1416110100300 | **3** | 6 | 52 | 8 | 4 | 1 | **18,75** |
| TA1416110100400 | **4** | 6 | 55 | 11 | 4 | 1 | **18,75** |
| TA1416110100500 | **5** | 6 | 57 | 13 | 4 | 1 | **18,75** |
| TA1416110100600 | **6** | 6 | 57 | 13 | 4 | 1 | **18,75** |
| TA1416110100700 | **7** | 10 | 66 | 16 | 4 | 1 | **26,16** |
| TA1416110100800 | **8** | 10 | 69 | 19 | 4 | 1 | **26,16** |
| TA1416110100900 | **9** | 10 | 69 | 19 | 4 | 1 | **26,32** |
| TA1416110101000 | **10** | 10 | 72 | 22 | 4 | 1 | **25,36** |
| TA1416110101200 | **12** | 12 | 83 | 26 | 4 | 1 | **30,41** |
| TA1416110101300 | **13** | 12 | 83 | 26 | 4 | 1 | **47,97** |
| TA1416110101400 | **14** | 12 | 83 | 26 | 4 | 1 | **43,83** |
| TA1416110101600 | **16** | 16 | 92 | 32 | 4 | 1 | **47,15** |
| TA1416110101800 | **18** | 16 | 92 | 32 | 4 | 1 | **57,91** |
| TA1416110102000 | **20** | 20 | 104 | 38 | 4 | 1 | **68,68** |

## Fresa HSS-Co standard TA1419, rivestita TiAlN, elica 30°, 4 taglienti, per sgrossatura, con attacco weldon

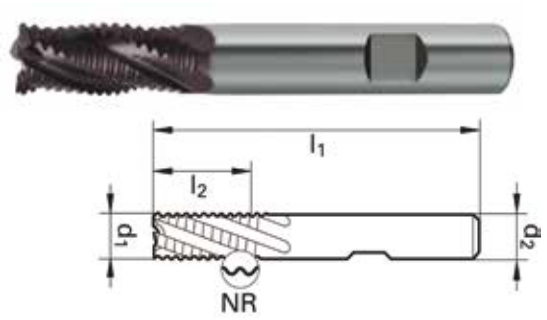



| Codice | d1 | d2 | l1 | l2 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1419110100600 | **6** | 6 | 57 | 13 | 4 | 1 | **44,62** |
| TA1419110100700 | **7** | 10 | 66 | 16 | 4 | 1 | **47,38** |
| TA1419110100800 | **8** | 10 | 69 | 19 | 4 | 1 | **47,38** |
| TA1419110100900 | **9** | 10 | 69 | 19 | 4 | 1 | **47,38** |
| TA1419110101000 | **10** | 10 | 72 | 22 | 4 | 1 | **47,38** |
| TA1419110101200 | **12** | 12 | 83 | 26 | 4 | 1 | **52,84** |
| TA1419110101400 | **14** | 12 | 83 | 26 | 4 | 1 | **64,04** |
| TA1419110101500 | **15** | 12 | 83 | 26 | 4 | 1 | **68,47** |

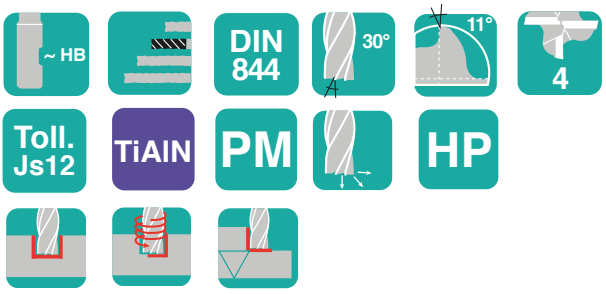
## Fresa HSS-Co standard TA1419, rivestita TiAlN, elica 30°, 4 taglienti, per sgrossatura, con attacco weldon

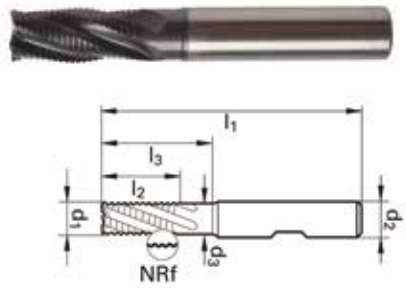



| Codice | d1 | d2 | l1 | l2 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1419110101600 | **16** | 16 | 92 | 32 | 4 | 1 | **71,46** |
| TA1419110101800 | **18** | 16 | 92 | 32 | 4 | 1 | **76,43** |
| TA1419110102000 | **20** | 20 | 104 | 38 | 4 | 1 | **92,37** |
| TA1419110102500 | **25** | 25 | 121 | 45 | 5 | 1 | **135,08** |

## Fresa HSS-E-PM TA1417, rivestita TiAlN, elica 30°, 4 taglienti, per sgrossatura



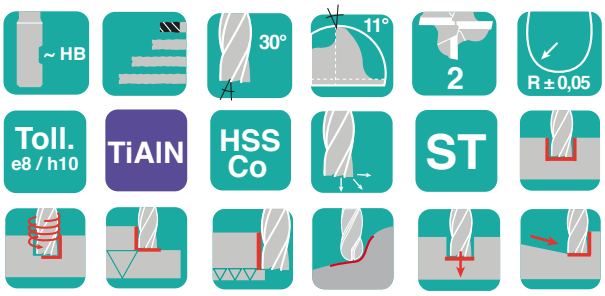



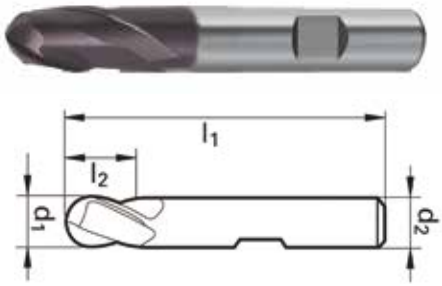

| Codice | d1/js12 | d2 | d3 | l1 | l2 | l3 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1417110100600 | **6** | 6 | 5,7 | 57 | 13 | 20 | 4 | 1 | **36,67** |
| TA1417110100700 | **7** | 10 | 6,7 | 66 | 16 | 17,9 | 4 | 1 | **49,70** |
| TA1417110100800 | **8** | 10 | 7,7 | 69 | 19 | 21,5 | 4 | 1 | **44,57** |
| TA1417110100900 | **9** | 10 | 8,5 | 69 | 19 | 24,3 | 4 | 1 | **58,68** |
| TA1417110101000 | **10** | 10 | 9,5 | 72 | 22 | 30 | 4 | 1 | **46,84** |
| TA1417110101200 | **12** | 12 | 11,5 | 83 | 26 | 36 | 4 | 1 | **53,56** |
| TA1417110101400 | **14** | 12 | 12 | 83 | 26 | 38 | 4 | 1 | **74,49** |
| TA1417110101600 | **16** | 16 | 15,5 | 92 | 32 | 42 | 4 | 1 | **90,31** |
| TA1417110101800 | **18** | 16 | 16 | 92 | 32 | 44 | 4 | 1 | **107,22** |
| TA1417110102000 | **20** | 20 | 19 | 104 | 38 | 52 | 4 | 1 | **108,36** |
| TA1417110102500 | **25** | 25 | 24 | 121 | 45 | 63 | 5 | 1 | **152,39** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

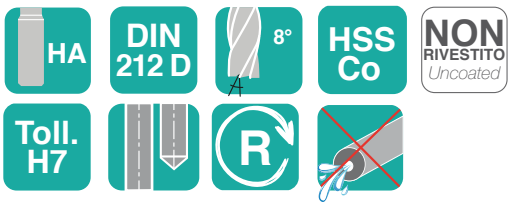
### Fresa HSS-Co standard TA1418, rivestita TiAlN, elica 30°, sferica, 2 taglienti

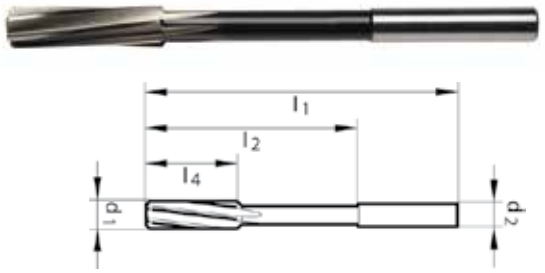



| Codice | d1 | Tolleranza | d2 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1418110100200 | **2** | e8 | 6 | 48 | 4 | 1 | **a richiesta** |
| TA1418110100300 | **3** | e8 | 6 | 49 | 5 | 1 | **20,32** |
| TA1418110100400 | **4** | e8 | 6 | 51 | 7 | 1 | **20,32** |
| TA1418110100500 | **5** | e8 | 6 | 52 | 8 | 1 | **20,32** |
| TA1418110100600 | **6** | e8 | 6 | 52 | 8 | 1 | **20,32** |
| TA1418110100700 | **7** | e8 | 10 | 60 | 10 | 1 | **25,85** |
| TA1418110100800 | **8** | e8 | 10 | 61 | 11 | 1 | **25,85** |
| TA1418110100900 | **9** | h10 | 10 | 61 | 11 | 1 | **a richiesta** |
| TA1418110101000 | **10** | e8 | 10 | 63 | 13 | 1 | **25,85** |
| TA1418110101200 | **12** | e8 | 12 | 73 | 16 | 1 | **33,73** |
| TA1418110101300 | **13** | h10 | 12 | 73 | 16 | 1 | **a richiesta** |
| TA1418110101400 | **14** | e8 | 12 | 73 | 16 | 1 | **38,14** |
| TA1418110101500 | **15** | h10 | 12 | 73 | 16 | 1 | **41,92** |
| TA1418110101600 | **16** | e8 | 16 | 79 | 19 | 1 | **44,08** |
| TA1418110101700 | **17** | h10 | 16 | 79 | 19 | 1 | **a richiesta** |
| TA1418110101800 | **18** | e8 | 16 | 79 | 19 | 1 | **54,10** |
| TA1418110101900 | **19** | h10 | 16 | 79 | 19 | 1 | **a richiesta** |
| TA1418110102000 | **20** | e8 | 20 | 88 | 22 | 1 | **65,53** |

## Alesatore HSS-Co TA1203, tolleranza H7, attacco cilindrico

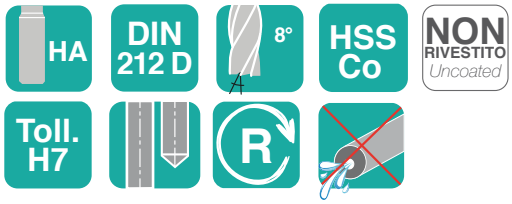


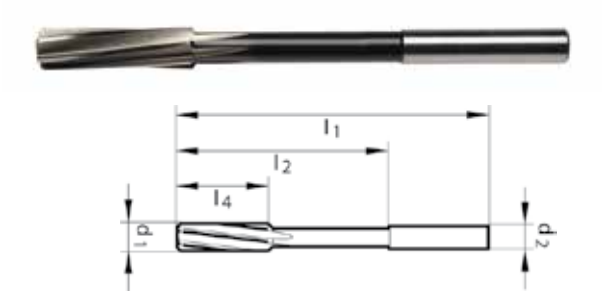




| Codice | d1 | d2 | l1 | l2 | l4 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1203140100200 | **2** | 2 | 49 | 21 | 11 | 4 | 1 | **15,70** |
| TA1203140100210 | **2,1** | 2 | 49 | 21 | 11 | 4 | 1 | **19,08** |
| TA1203140100220 | **2,2** | 3 | 53 | 25 | 12 | 4 | 1 | **19,08** |
| TA1203140100230 | **2,3** | 3 | 53 | 25 | 12 | 4 | 1 | **19,08** |
| TA1203140100240 | **2,4** | 3 | 57 | 29 | 14 | 4 | 1 | **19,08** |
| TA1203140100250 | **2,5** | 3 | 57 | 29 | 14 | 4 | 1 | **15,70** |
| TA1203140100260 | **2,6** | 3 | 57 | 29 | 14 | 4 | 1 | **20,36** |
| TA1203140100270 | **2,7** | 3 | 61 | 33 | 15 | 6 | 1 | **20,36** |
| TA1203140100280 | **2,8** | 3 | 61 | 33 | 15 | 6 | 1 | **20,36** |
| TA1203140100290 | **2,9** | 3 | 61 | 33 | 15 | 6 | 1 | **20,36** |
| TA1203140100300 | **3** | 3 | 61 | 33 | 15 | 6 | 1 | **14,40** |
| TA1203140100310 | **3,1** | 4 | 65 | 37 | 16 | 6 | 1 | **19,08** |
| TA1203140100320 | **3,2** | 4 | 65 | 37 | 16 | 6 | 1 | **19,08** |
| TA1203140100330 | **3,3** | 4 | 65 | 37 | 16 | 6 | 1 | **19,08** |
| TA1203140100340 | **3,4** | 4 | 70 | 42 | 18 | 6 | 1 | **19,08** |
| TA1203140100350 | **3,5** | 4 | 70 | 42 | 18 | 6 | 1 | **16,74** |
| TA1203140100360 | **3,6** | 4 | 70 | 42 | 18 | 6 | 1 | **21,29** |
| TA1203140100370 | **3,7** | 4 | 70 | 42 | 18 | 6 | 1 | **21,29** |
| TA1203140100380 | **3,8** | 4 | 75 | 47 | 19 | 6 | 1 | **21,29** |
| TA1203140100390 | **3,9** | 4 | 75 | 47 | 19 | 6 | 1 | **15,31** |
| TA1203140100400 | **4** | 4 | 75 | 47 | 19 | 6 | 1 | **15,70** |
| TA1203140100410 | **4,1** | 4 | 75 | 47 | 19 | 6 | 1 | **19,99** |
| TA1203140100420 | **4,2** | 4 | 75 | 47 | 19 | 6 | 1 | **19,99** |
| TA1203140100430 | **4,3** | 5 | 80 | 52 | 21 | 6 | 1 | **19,99** |
| TA1203140100440 | **4,4** | 5 | 80 | 52 | 21 | 6 | 1 | **19,99** |
| TA1203140100450 | **4,5** | 5 | 80 | 52 | 21 | 6 | 1 | **16,74** |
| TA1203140100460 | **4,6** | 5 | 80 | 52 | 21 | 6 | 1 | **21,55** |
| TA1203140100470 | **4,7** | 5 | 80 | 52 | 21 | 6 | 1 | **21,55** |
| TA1203140100480 | **4,8** | 5 | 86 | 58 | 23 | 6 | 1 | **21,55** |
| TA1203140100490 | **4,9** | 5 | 86 | 58 | 23 | 6 | 1 | **21,55** |
| TA1203140100500 | **5** | 5 | 86 | 58 | 23 | 6 | 1 | **16,25** |
| TA1203140100510 | **5,1** | 5 | 86 | 58 | 23 | 6 | 1 | **21,55** |
| TA1203140100520 | **5,2** | 5 | 86 | 58 | 23 | 6 | 1 | **21,55** |
| TA1203140100530 | **5,3** | 5 | 86 | 58 | 23 | 6 | 1 | **21,55** |
| TA1203140100540 | **5,4** | 6 | 93 | 57 | 26 | 6 | 1 | **21,55** |
| TA1203140100550 | **5,5** | 6 | 93 | 57 | 26 | 6 | 1 | **19,99** |
| TA1203140100560 | **5,6** | 6 | 93 | 57 | 26 | 6 | 1 | **21,55** |
| TA1203140100570 | **5,7** | 6 | 93 | 57 | 26 | 6 | 1 | **21,55** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

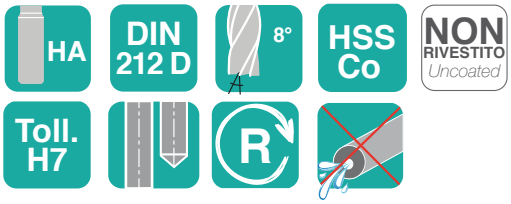
## Alesatore HSS-Co TA1203, tolleranza H7, attacco cilindrico

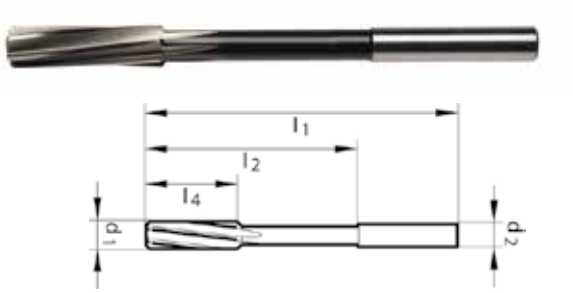



| Codice | d1 | d2 | l1 | l2 | l4 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1203140100580 | **5,8** | 6 | 93 | 57 | 26 | 6 | 1 | **21,55** |
| TA1203140100590 | **5,9** | 6 | 93 | 57 | 26 | 6 | 1 | **21,55** |
| TA1203140100600 | **6** | 6 | 93 | 57 | 26 | 6 | 1 | **17,47** |
| TA1203140100610 | **6,1** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100620 | **6,2** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100630 | **6,3** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100640 | **6,4** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100650 | **6,5** | 6 | 101 | 65 | 28 | 6 | 1 | **20,64** |
| TA1203140100660 | **6,6** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100670 | **6,7** | 6 | 101 | 65 | 28 | 6 | 1 | **21,55** |
| TA1203140100680 | **6,8** | 8 | 109 | 73 | 31 | 6 | 1 | **21,55** |
| TA1203140100690 | **6,9** | 8 | 109 | 73 | 31 | 6 | 1 | **21,55** |
| TA1203140100700 | **7** | 8 | 109 | 73 | 31 | 6 | 1 | **20,64** |
| TA1203140100710 | **7,1** | 8 | 109 | 73 | 31 | 6 | 1 | **24,18** |
| TA1203140100720 | **7,2** | 8 | 109 | 73 | 31 | 6 | 1 | **24,18** |
| TA1203140100730 | **7,3** | 8 | 109 | 73 | 31 | 6 | 1 | **24,18** |
| TA1203140100740 | **7,4** | 8 | 109 | 73 | 31 | 6 | 1 | **24,18** |
| TA1203140100760 | **7,6** | 8 | 117 | 81 | 33 | 6 | 1 | **25,40** |
| TA1203140100770 | **7,7** | 8 | 117 | 81 | 33 | 6 | 1 | **25,40** |
| TA1203140100780 | **7,8** | 8 | 117 | 81 | 33 | 6 | 1 | **25,40** |
| TA1203140100790 | **7,9** | 8 | 117 | 81 | 33 | 6 | 1 | **25,40** |
| TA1203140100800 | **8** | 8 | 117 | 81 | 33 | 6 | 1 | **21,55** |
| TA1203140100810 | **8,1** | 8 | 117 | 81 | 33 | 6 | 1 | **29,09** |
| TA1203140100820 | **8,2** | 8 | 117 | 81 | 33 | 6 | 1 | **29,09** |
| TA1203140100830 | **8,3** | 8 | 117 | 81 | 33 | 6 | 1 | **29,09** |
| TA1203140100840 | **8,4** | 8 | 117 | 81 | 33 | 6 | 1 | **29,09** |
| TA1203140100850 | **8,5** | 8 | 117 | 81 | 33 | 6 | 1 | **27,09** |
| TA1203140100860 | **8,6** | 10 | 125 | 85 | 36 | 6 | 1 | **27,79** |
| TA1203140100870 | **8,7** | 10 | 125 | 85 | 36 | 6 | 1 | **27,79** |
| TA1203140100880 | **8,8** | 10 | 125 | 85 | 36 | 6 | 1 | **27,79** |
| TA1203140100890 | **8,9** | 10 | 125 | 85 | 36 | 6 | 1 | **27,79** |
| TA1203140100900 | **9** | 10 | 125 | 85 | 36 | 6 | 1 | **24,99** |
| TA1203140100910 | **9,1** | 10 | 125 | 85 | 36 | 6 | 1 | **28,42** |
| TA1203140100920 | **9,2** | 10 | 125 | 85 | 36 | 6 | 1 | **28,42** |
| TA1203140100930 | **9,3** | 10 | 125 | 85 | 36 | 6 | 1 | **28,42** |
| TA1203140100940 | **9,4** | 10 | 125 | 85 | 36 | 6 | 1 | **28,42** |
| TA1203140100950 | **9,5** | 10 | 125 | 85 | 36 | 6 | 1 | **27,79** |

## Alesatore HSS-Co TA1203, tolleranza H7, attacco cilindrico

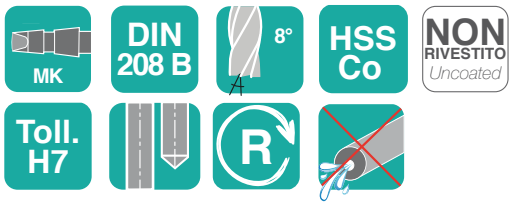


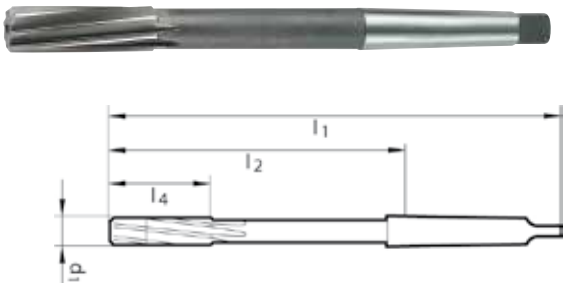




| Codice | d1 | d2 | l1 | l2 | l4 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1203140100960 | **9,6** | 10 | 133 | 93 | 38 | 6 | 1 | **29,09** |
| TA1203140100970 | **9,7** | 10 | 133 | 93 | 38 | 6 | 1 | **29,09** |
| TA1203140100980 | **9,8** | 10 | 133 | 93 | 38 | 6 | 1 | **29,09** |
| TA1203140100990 | **9,9** | 10 | 133 | 93 | 38 | 6 | 1 | **29,09** |
| TA1203140101000 | **10** | 10 | 133 | 93 | 38 | 6 | 1 | **25,40** |
| TA1203140101100 | **11** | 10 | 142 | 102 | 41 | 6 | 1 | **35,70** |
| TA1203140101200 | **12** | 10 | 151 | 111 | 44 | 6 | 1 | **37,08** |
| TA1203140101300 | **13** | 10 | 151 | 111 | 44 | 6 | 1 | **41,70** |
| TA1203140101400 | **14** | 14 | 160 | 115 | 47 | 8 | 1 | **42,98** |
| TA1203140101500 | **15** | 14 | 162 | 117 | 50 | 8 | 1 | **43,71** |
| TA1203140101600 | **16** | 14 | 170 | 125 | 52 | 8 | 1 | **45,63** |
| TA1203140101700 | **17** | 14 | 175 | 130 | 54 | 8 | 1 | **53,56** |
| TA1203140101800 | **18** | 14 | 182 | 137 | 56 | 8 | 1 | **56,21** |
| TA1203140102000 | **20** | 16 | 195 | 147 | 60 | 8 | 1 | **62,84** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Alesatore HSS-Co TA1204, tolleranza H7, attacco conico




| Codice | d1 | l1 | l2 | l4 | CM | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1204140100600 | **6** | 138 | 76 | 26 | 1 | 6 | 1 | **53,72** |
| TA1204140100700 | **7** | 150 | 88 | 31 | 1 | 6 | 1 | **57,36** |
| TA1204140100800 | **8** | 156 | 94 | 33 | 1 | 6 | 1 | **56,71** |
| TA1204140100900 | **9** | 162 | 100 | 36 | 1 | 6 | 1 | **63,99** |
| TA1204140101000 | **10** | 168 | 106 | 38 | 1 | 6 | 1 | **48,28** |
| TA1204140101100 | **11** | 175 | 113 | 41 | 1 | 6 | 1 | **53,72** |
| TA1204140101200 | **12** | 182 | 120 | 44 | 1 | 6 | 1 | **52,47** |
| TA1204140101300 | **13** | 182 | 120 | 44 | 1 | 6 | 1 | **55,56** |
| TA1204140101400 | **14** | 189 | 127 | 47 | 1 | 8 | 1 | **56,13** |
| TA1204140101500 | **15** | 204 | 129 | 50 | 2 | 8 | 1 | **67,65** |
| TA1204140101600 | **16** | 210 | 135 | 52 | 2 | 8 | 1 | **67,65** |
| TA1204140101700 | **17** | 214 | 139 | 54 | 2 | 8 | 1 | **73,66** |
| TA1204140101800 | **18** | 219 | 144 | 56 | 2 | 6 | 1 | **77,27** |
| TA1204140101900 | **19** | 223 | 148 | 58 | 2 | 8 | 1 | **82,11** |
| TA1204140102000 | **20** | 228 | 153 | 60 | 2 | 8 | 1 | **82,11** |
| TA1204140102100 | **21** | 232 | 157 | 62 | 2 | 8 | 1 | **91,75** |
| TA1204140102200 | **22** | 237 | 162 | 64 | 2 | 8 | 1 | **91,75** |
| TA1204140102300 | **23** | 241 | 166 | 66 | 2 | 8 | 1 | **106,26** |
| TA1204140102400 | **24** | 268 | 174 | 68 | 3 | 8 | 1 | **107,46** |
| TA1204140102500 | **25** | 268 | 174 | 68 | 3 | 8 | 1 | **112,27** |
| TA1204140102600 | **26** | 273 | 179 | 70 | 3 | 8 | 1 | **119,55** |
| TA1204140102700 | **27** | 277 | 183 | 71 | 3 | 10 | 1 | **132,78** |
| TA1204140102800 | **28** | 277 | 183 | 71 | 3 | 10 | 1 | **131,64** |
| TA1204140102900 | **29** | 281 | 187 | 73 | 3 | 10 | 1 | **149,76** |
| TA1204140103000 | **30** | 281 | 187 | 73 | 3 | 10 | 1 | **136,47** |
| TA1204140103100 | **31** | 285 | 191 | 75 | 3 | 10 | 1 | **178,72** |
| TA1204140103200 | **32** | 317 | 199,5 | 77 | 4 | 10 | 1 | **177,48** |
| TA1204140103400 | **34** | 321 | 203,5 | 78 | 4 | 10 | 1 | **200,43** |
| TA1204140103500 | **35** | 321 | 203,5 | 78 | 4 | 10 | 1 | **200,43** |
| TA1204140103600 | **36** | 325 | 207,5 | 79 | 4 | 10 | 1 | **219,73** |
| TA1204140103800 | **38** | 329 | 211,5 | 81 | 4 | 10 | 1 | **241,46** |
| TA1204140104000 | **40** | 329 | 211,5 | 81 | 4 | 10 | 1 | **240,27** |

## Svasatore a 90° HSS TA1230, DIN 335 C, 3 taglienti, codolo cilindrico



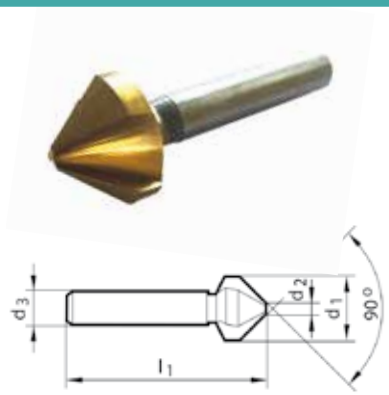



| Codice | d1 | d2 | d3 | l1 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1230140900430 | **4,3** | 1.30 | 4 | 40 | 3 | 1 | **12,97** |
| TA1230140900500 | **5** | 1,5 | 4 | 40 | 3 | 1 | **12,97** |
| TA1230140900530 | **5,3** | 1,5 | 4 | 40 | 3 | 1 | **12,97** |
| TA1230140900580 | **5,8** | 1,5 | 5 | 45 | 3 | 1 | **12,97** |
| TA1230140900600 | **6** | 1,5 | 5 | 45 | 3 | 1 | **12,97** |
| TA1230140900630 | **6,3** | 1,5 | 5 | 45 | 3 | 1 | **12,97** |
| TA1230140900700 | **7** | 1,8 | 6 | 50 | 3 | 1 | **13,88** |
| TA1230140900730 | **7,3** | 1,8 | 6 | 50 | 3 | 1 | **13,88** |
| TA1230140900800 | **8** | 2 | 6 | 50 | 3 | 1 | **13,96** |
| TA1230140900830 | **8,3** | 2 | 6 | 50 | 3 | 1 | **13,96** |
| TA1230140900940 | **9,4** | 2,2 | 6 | 50 | 3 | 1 | **13,96** |
| TA1230140901000 | **10** | 2,5 | 6 | 50 | 3 | 1 | **14,20** |
| TA1230140901040 | **10,4** | 2,5 | 6 | 50 | 3 | 1 | **14,92** |
| TA1230140901150 | **11,5** | 2,8 | 8 | 56 | 3 | 1 | **16,15** |
| TA1230140901240 | **12,4** | 2,9 | 8 | 56 | 3 | 1 | **16,46** |
| TA1230140901340 | **13,4** | 2,9 | 8 | 56 | 3 | 1 | **17,71** |
| TA1230140901500 | **15** | 3,2 | 10 | 60 | 3 | 1 | **18,12** |
| TA1230140901650 | **16,5** | 3,2 | 10 | 60 | 3 | 1 | **19,29** |
| TA1230140901900 | **19** | 3,5 | 10 | 63 | 3 | 1 | **28,24** |
| TA1230140902050 | **20,5** | 3,5 | 10 | 63 | 3 | 1 | **27,82** |
| TA1230140902300 | **23** | 3,8 | 10 | 67 | 3 | 1 | **34,58** |
| TA1230140902500 | **25** | 3,8 | 10 | 67 | 3 | 1 | **36,27** |
| TA1230140903000 | **30** | 4,2 | 12 | 71 | 3 | 1 | **53,90** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Svasatore a 90° HSS TA1231, DIN 335 C, 3 taglienti, rivestito TiN, codolo cilindrico

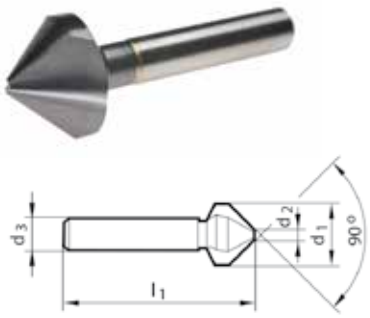



| Codice | d1 | d2 | d3 | l1 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1231140900430 | **4,3** | 1,3 | 4 | 40 | 3 | 1 | **17,63** |
| TA1231140900500 | **5** | 1,5 | 4 | 40 | 3 | 1 | **17,63** |
| TA1231140900530 | **5,3** | 1,5 | 4 | 40 | 3 | 1 | **17,63** |
| TA1231140900580 | **5,8** | 1,5 | 5 | 45 | 3 | 1 | **17,63** |
| TA1231140900600 | **6** | 1,5 | 5 | 45 | 3 | 1 | **17,63** |
| TA1231140900630 | **6,3** | 1,5 | 5 | 45 | 3 | 1 | **17,63** |
| TA1231140900700 | **7** | 1,8 | 6 | 50 | 3 | 1 | **21,97** |
| TA1231140900730 | **7,3** | 1,8 | 6 | 50 | 3 | 1 | **21,97** |
| TA1231140900800 | **8** | 2 | 6 | 50 | 3 | 1 | **22,05** |
| TA1231140900830 | **8,3** | 2 | 6 | 50 | 3 | 1 | **22,05** |
| TA1231140900940 | **9,4** | 2,2 | 6 | 50 | 3 | 1 | **22,05** |
| TA1231140901000 | **10** | 2,5 | 6 | 50 | 3 | 1 | **22,26** |
| TA1231140901040 | **10,4** | 2,5 | 6 | 50 | 3 | 1 | **23,40** |
| TA1231140901150 | **11,5** | 2,8 | 8 | 56 | 3 | 1 | **24,60** |
| TA1231140901240 | **12,4** | 2,9 | 8 | 56 | 3 | 1 | **24,93** |
| TA1231140901500 | **15** | 3,2 | 10 | 60 | 3 | 1 | **26,83** |
| TA1231140901650 | **16,5** | 3,2 | 10 | 60 | 3 | 1 | **33,18** |
| TA1231140901900 | **19** | 3,5 | 10 | 63 | 3 | 1 | **42,12** |
| TA1231140902050 | **20,5** | 3,5 | 10 | 63 | 3 | 1 | **41,76** |
| TA1231140902300 | **23** | 3,8 | 10 | 67 | 3 | 1 | **54,08** |
| TA1231140902500 | **25** | 3,8 | 10 | 67 | 3 | 1 | **61,33** |
| TA1231140903000 | **30** | 4,2 | 12 | 71 | 3 | 1 | **80,73** |

## Svasatore a 90° HSS TA1201, DIN 335 C, 3 taglienti, rivestito TiAIN, codolo cilindrico

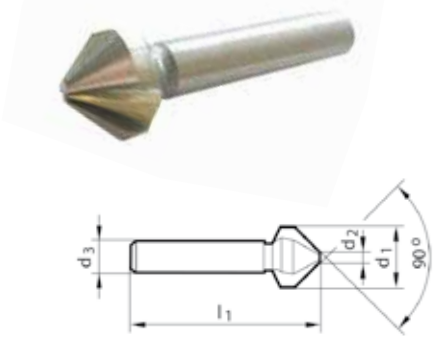



| Codice | d1 | d2 | d3 | l1 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1201140100830 | **8,3** | 2 | 6 | 50 | 3 | 1 | **22,17** |
| TA1201140101000 | **10** | 2,5 | 6 | 50 | 3 | 1 | **23,12** |
| TA1201140101240 | **12,4** | 2,8 | 8 | 56 | 3 | 1 | **27,04** |
| TA1201140101650 | **16,5** | 3,2 | 10 | 60 | 3 | 1 | **30,82** |
| TA1201140102050 | **20,5** | 3,5 | 10 | 63 | 3 | 1 | **41,07** |
| TA1201140102500 | **25** | 3,8 | 10 | 67 | 3 | 1 | **50,75** |
| TA1201140103100 | **31** | 4,2 | 12 | 71 | 3 | 1 | **67,83** |

## Svasatore a 90° HSS-Co TA1240, DIN 335 C, 3 taglienti, codolo cilindrico




| Codice | d1 | d2 | d3 | l1 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1240140900630 | **6,3** | 1,5 | 5 | 45 | 3 | 1 | **13,26** |
| TA1240140900830 | **8,3** | 2 | 6 | 50 | 3 | 1 | **15,76** |
| TA1240140901040 | **10,4** | 2,5 | 6 | 50 | 3 | 1 | **18,69** |
| TA1240140901240 | **12,4** | 2,9 | 8 | 56 | 3 | 1 | **19,81** |
| TA1240140901650 | **16,5** | 3,2 | 10 | 60 | 3 | 1 | **27,07** |
| TA1240140902050 | **20,5** | 3,5 | 10 | 63 | 3 | 1 | **31,36** |
| TA1240140902500 | **25** | 3,8 | 10 | 67 | 3 | 1 | **44,54** |
| TA1240140903000 | **30** | 4,2 | 12 | 71 | 3 | 1 | **58,29** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Svasatore a 90° HSS-Co TA1241, DIN 335 C, 3 taglienti, rivestito TiAlN, codolo cilindrico







| Codice | d1 | d2 | d3 | l1 | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA1241140900630 | **6,3** | 1,5 | 5 | 45 | 3 | 1 | **16,43** |
| TA1241140900830 | **8,3** | 2 | 6 | 50 | 3 | 1 | **21,92** |
| TA1241140901040 | **10,4** | 2,5 | 6 | 50 | 3 | 1 | **26,03** |
| TA1241140901240 | **12,4** | 2,9 | 8 | 56 | 3 | 1 | **27,87** |
| TA1241140901650 | **16,5** | 3,2 | 10 | 60 | 3 | 1 | **37,88** |
| TA1241140902050 | **20,5** | 3,5 | 10 | 63 | 3 | 1 | **44,72** |
| TA1241140902500 | **25** | 3,8 | 10 | 67 | 3 | 1 | **66,30** |
| TA1241140903000 | **30** | 4,2 | 12 | 71 | 3 | 1 | **84,50** |

## Serie di svasatori a 90° HSS TA1230 - DIN 335 C

NON RIVESTITO *Uncoated*



### Caratteristiche

Set composto da 6 svasatori, 1 pz. per tipo Ø 8,3-10,4-12,4-16,5-20,5-25

| Codice | Rivestimento | | € / cad. |
|---|---|---|---|
| TA12301409KIT01 | senza rivestimento | 1 | **140,60** |

## Serie di svasatori a 90° HSS TA1231 - DIN 335 C

TiN



### Caratteristiche

Set composto da 6 svasatori, 1 pz. per tipo Ø 8,3-10,4-12,4-16,5-20,5-25

| Codice | Rivestimento | | € / cad. |
|---|---|---|---|
| TA12311409KIT02 | TiN | 1 | **201,00** |

## Serie di svasatori a 90° HSS TA1201 rivestiti, TiAlN, DIN 335

TiAlN



### Caratteristiche

Set composto da 5 svasatori, 1 pz. per tipo Ø 8,3-10,4-12,4-16,5-20,5-25 (cod. KIT01) e 1 pz. per tipo Ø 12,4-16,5-20,5-25-31

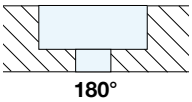
| Codice | Rivestimento | Composizione | | € / cad. |
|---|---|---|---|---|
| TA12011401KIT01 | TiAlN | Ø 8,3-10,4-12,4-16,5-20,5-25 | 1 | **174,35** |
| TA12011401KIT03 | TiAlN | Ø 12,4-16,5-20,5-25-31 | 1 | **218,44** |

## Fresa TA1075 per sedi viti a 180°, con guide HSS-Co5, DIN 373, 3 taglienti, codolo cilindrico

HA

DIN 373

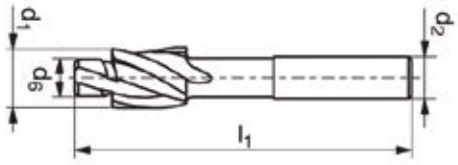
R




HSS Co

NON RIVESTITO *Uncoated*





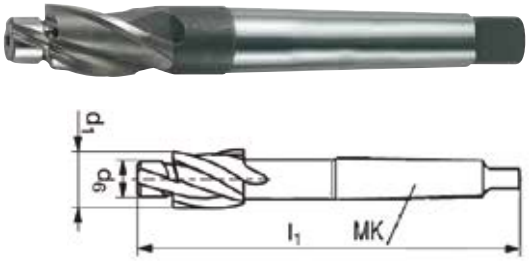

| Codice | Ø | D | d | d1 | L | l | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1075070900300 | **M3** | 6 | 3.2 | 5.0 | 71 | 14 | 1 | **25,66** |
| TA1075070900400 | **M4** | 8 | 4,3 | 5 | 71 | 14 | 1 | **26,73** |
| TA1075070900500 | **M5** | 10 | 5,3 | 8 | 80 | 18 | 1 | **29,48** |
| TA1075070900600 | **M6** | 11 | 6,4 | 8 | 80 | 18 | 1 | **31,20** |
| TA1075070900800 | **M8** | 15 | 8,4 | 12,5 | 100 | 22 | 1 | **40,77** |
| TA1075070901000 | **M10** | 18 | 10,5 | 12,5 | 100 | 22 | 1 | **48,98** |
| TA1075070901200 | **M12** | 20 | 13 | 12,5 | 100 | 22 | 1 | **61,28** |
| TA1075070901400 | **M14** | 24 | 15 | 16 | 130 | 30 | 1 | **79,43** |
| TA1075070901600 | **M16** | 26 | 17 | 16 | 130 | 30 | 1 | **113,59** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## ASPORTAZIONE TRUCIOLO

### Fresa TA1076 per sedi viti a 180°, con guide HSS-Co5, DIN 375, 3 taglienti, codolo cono morse




| Codice | Ø | CM | D | d | L | l | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1076070900800 | **M8** | 2 | 15 | 8.4 | 132 | 22 | 1 | **59,18** |
| TA1076070901000 | **M10** | 2 | 18 | 10,5 | 140 | 25 | 1 | **65,31** |
| TA1076070901200 | **M12** | 2 | 20 | 13 | 140 | 25 | 1 | **78,49** |
| TA1076070901400 | **M14** | 2 | 24 | 15 | 150 | 30 | 1 | **107,02** |
| TA1076070901600 | **M16** | 3 | 26 | 17 | 180 | 35 | 1 | **122,36** |
| TA1076070901800 | **M18** | 3 | 30 | 19 | 180 | 35 | 1 | **167,15** |
| TA1076070902000 | **M20** | 3 | 33 | 21 | 190 | 40 | 1 | **221,13** |
| TA1076070902200 | **M22** | 3 | 36 | 23 | 190 | 40 | 1 | **292,29** |
| TA1076070902400 | **M24** | 3 | 40 | 25 | 190 | 40 | 1 | **316,91** |
| TA1076070902700 | **M27** | 4 | 43 | 28 | 236 | 50 | 1 | **353,39** |



# 2 UTENSILITAGLIOFISSAGGIOMECCANICO



Utensili di tornitura ad inserti negativi  174-189

Utensili di tornitura ad inserti positivi  190-231

Utensili di filettatura, scanalatura e taglio  232-234

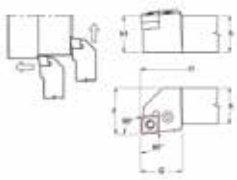
Utensili per foratura  235-241

Utensili per fresatura ad inserti  242-284

Inserti  285-340

## Utensile di tornitura esterna PCLN R/L TA5011, stelo in acciaio





| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PCLNL 1616 H12 | TA50110108L1612 | 16 | 16 | 100 | 26,1 | 20 | 1 | **109,38** |
| PCLNL 2020 K 12 | TA50110108L2012 | 20 | 20 | 125 | 28 | 25 | 1 | **107,81** |
| PCLNL 2525 M12 | TA50110108L2512 | 25 | 25 | 150 | 33 | 32 | 1 | **90,76** |
| PCLNL 2525 M16 | TA50110108L2516 | 25 | 25 | 150 | 33 | 32 | 1 | **94,10** |
| PCLNL 2525 M19 | TA50110108L2519 | 25 | 25 | 150 | 36 | 32 | 1 | **94,10** |
| PCLNL 3232 P12 | TA50110108L3212 | 32 | 32 | 170 | 30 | 40 | 1 | **120,06** |
| PCLNL 3232 P16 | TA50110108L3216 | 32 | 32 | 170 | 33 | 40 | 1 | **120,06** |
| PCLNL 3232 P19 | TA50110108L3219 | 32 | 32 | 170 | 40 | 40 | 1 | **120,06** |
| PCLNL 4040 S19 | TA50110108L4019 | 40 | 40 | 250 | 40 | 50 | 1 | **181,39** |
| PCLNR 1616 H12 | TA50110108R1612 | 16 | 16 | 100 | 26,1 | 20 | 1 | **109,38** |
| PCLNR 2020 K12 | TA50110108R2012 | 20 | 20 | 125 | 28 | 25 | 1 | **86,68** |
| PCLNR 2525 M12 | TA50110108R2512 | 25 | 25 | 150 | 33 | 32 | 1 | **90,76** |
| PCLNR 2525 M16 | TA50110108R2516 | 25 | 25 | 150 | 33 | 32 | 1 | **94,10** |
| PCLNR 2525 M19 | TA50110108R2519 | 25 | 25 | 150 | 36 | 32 | 1 | **94,10** |
| PCLNR 3232 P12 | TA50110108R3212 | 32 | 32 | 170 | 30 | 40 | 1 | **120,06** |
| PCLNR 3232 P16 | TA50110108R3216 | 32 | 32 | 170 | 33 | 40 | 1 | **120,06** |
| PCLNR 3232 P19 | TA50110108R3219 | 32 | 32 | 170 | 40 | 40 | 1 | **120,06** |
| PCLNR 4040 S19 | TA50110108R4019 | 40 | 40 | 250 | 40 | 50 | 1 | **181,39** |

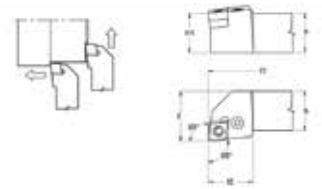
## Utensile di tornitura esterna PCLN R/L TA5015, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso



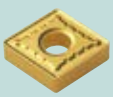




incluso

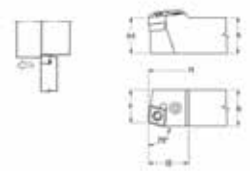


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PCLNL 1616 H12-IK G1/8 | TA50150108L1612 | 16 | 16 | 100 | 26,1 | 20 | 1 | **259,38** |
| PCLNL 2020 K12-IK G1/8 | TA50150108L2012 | 20 | 20 | 125 | 27,4 | 25 | 1 | **271,88** |
| PCLNL 2525 M12-IK G1/8 | TA50150108L2512 | 25 | 25 | 150 | 28 | 32 | 1 | **292,19** |
| PCLNR 1616 H12-IK G1/8 | TA50150108R1612 | 16 | 16 | 100 | 26,1 | 20 | 1 | **259,38** |
| PCLNR 2020 K12-IK G1/8 | TA50150108R2012 | 20 | 20 | 125 | 27,4 | 25 | 1 | **271,88** |
| PCLNR 2525 M12-IK G1/8 | TA50150108R2512 | 25 | 25 | 150 | 28 | 32 | 1 | **292,19** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| CN.. 1204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA15PN010800000 | TA09SN010800000 | TA12ES010800000 |
| CN.. 1606.. | TA17PN010800000 | TA02PN010800000 | TA03SP010800000 | TA16PN010800000 | TA17SN010800000 | TA15ES010800000 |
| CN.. 1906.. | TA20PN010800000 | TA03PN010800000 | TA11SP010800000 | TA19PN010800000 | TA22SN010800000 | TA11ES010800000 |

## Utensile di tornitura esterna PCLN R/L TA5010, stelo in acciaio

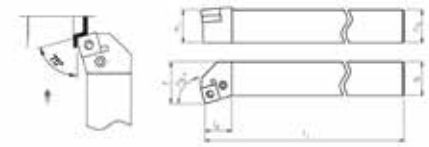




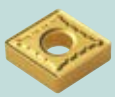
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PCBNL 2020 K12 | TA50100108L2012 | 20 | 20 | 125 | 28 | 17 | 1 | **86,68** |
| PCBNL 2525 M12 | TA50100108L2512 | 25 | 25 | 150 | 29 | 22 | 1 | **94,10** |
| PCBNL 2525 M16 | TA50100108L2516 | 25 | 25 | 150 | 29 | 22 | 1 | **98,18** |
| PCBNL 3225 P12 | TA50100108L3212 | 32 | 32 | 170 | 32 | 22 | 1 | **112,52** |
| PCBNL 3232 P16 | TA50100108L3216 | 32 | 32 | 170 | 35 | 27 | 1 | **120,06** |
| PCBNL 3232 P19 | TA50100108L3219 | 32 | 32 | 170 | 35 | 27 | 1 | **120,06** |
| PCBNL 4040 S19 | TA50100108L4019 | 40 | 40 | 250 | 37 | 35 | 1 | **181,39** |
| PCBNR 2020 K12 | TA50100108R2012 | 20 | 20 | 125 | 28 | 17 | 1 | **86,68** |
| PCBNR 2525 M12 | TA50100108R2512 | 25 | 25 | 150 | 29 | 22 | 1 | **94,10** |
| PCBNR 2525 M16 | TA50100108R2516 | 25 | 25 | 150 | 29 | 22 | 1 | **98,18** |
| PCBNR 3225 P12 | TA50100108R3212 | 32 | 32 | 170 | 32 | 22 | 1 | **112,52** |
| PCBNR 3232 P16 | TA50100108R3216 | 32 | 32 | 170 | 35 | 27 | 1 | **120,06** |
| PCBNR 3232 P19 | TA50100108R3219 | 32 | 32 | 170 | 35 | 27 | 1 | **120,06** |
| PCBNR 4040 S19 | TA50100108R4019 | 40 | 40 | 250 | 37 | 35 | 1 | **181,39** |

## Utensile di tornitura esterna PCKN R/L TA5012, stelo in acciaio



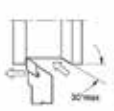


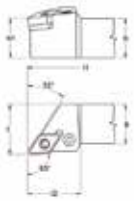
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PCKNL 2020 K12 | TA50120208L2012 | 20 | 20 | 125 | 28 | 17 | 1 | **115,63** |
| PCKNL 2525 M12 | TA50120208L2512 | 25 | 25 | 150 | 29 | 22 | 1 | **115,63** |
| PCKNR 2525 M12 | TA50120208R2512 | 25 | 25 | 150 | 29 | 22 | 1 | **115,63** |
| PCKNR 2020 K12 | TA50120208R2012 | 20 | 20 | 125 | 28 | 17 | 1 | **115,63** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| CN.. 1204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA15PN010800000 | TA09SN010800000 | TA12ES010800000 |
| CN.. 1606.. | TA17PN010800000 | TA02PN010800000 | TA03SP010800000 | TA16PN010800000 | TA17SN010800000 | TA15ES010800000 |
| CN.. 1906.. | TA20PN010800000 | TA03PN010800000 | TA11SP010800000 | TA19PN010800000 | TA22SN010800000 | TA11ES010800000 |

## Utensile di tornitura esterna PDJN R/L TA5020, stelo in acciaio







| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PDJNL 1616 H11 | TA50200108L1611 | 16 | 16 | 100 | 30 | 20 | 1 | **100,90** |
| PDJNL 2020 K11 | TA50200108L2011 | 20 | 20 | 125 | 30 | 25 | 1 | **105,72** |
| PDJNL 2020 K15 | TA50200108L2015 | 20 | 20 | 125 | 35 | 25 | 1 | **96,82** |
| PDJNL 2525 M11 | TA50200108L2511 | 25 | 25 | 150 | 30 | 32 | 1 | **98,18** |
| PDJNL 2525 M15 | TA50200108L2515 | 25 | 25 | 150 | 35 | 32 | 1 | **98,18** |
| PDJNL 3232 P15 | TA50200108L3215 | 32 | 32 | 170 | 36 | 40 | 1 | **127,60** |
| PDJNR 1616 H11 | TA50200108R1611 | 16 | 16 | 100 | 30 | 20 | 1 | **100,90** |
| PDJNR 2020 K11 | TA50200108R2011 | 20 | 20 | 125 | 30 | 25 | 1 | **105,72** |
| PDJNR 2020 K15 | TA50200108R2015 | 20 | 20 | 125 | 35 | 25 | 1 | **96,82** |
| PDJNR 2525 M11 | TA50200108R2511 | 25 | 25 | 150 | 30 | 32 | 1 | **98,18** |
| PDJNR 2525 M15 | TA50200108R2515 | 25 | 25 | 150 | 35 | 32 | 1 | **98,18** |
| PDJNR 3232 P15 | TA50200108R3215 | 32 | 32 | 170 | 36 | 40 | 1 | **127,60** |

## Utensile di tornitura esterna PDJN R/L TA5025, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso







incluso



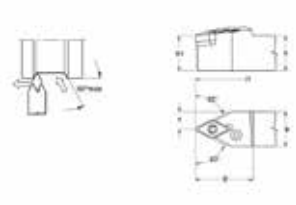


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PDJNL 1616 H11-IK G1/8 | TA50250108L1611 | 16 | 16 | 100 | 30 | 20 | 1 | **259,38** |
| PDJNL 2020 K15-IK G1/8 | TA50250108L2015 | 20 | 20 | 125 | 30 | 25 | 1 | **271,88** |
| PDJNL 2525 M15-IK G1/8 | TA50250108L2515 | 25 | 25 | 150 | 30 | 32 | 1 | **292,19** |
| PDJNR 1616 H11-IK G1/8 | TA50250108R1611 | 16 | 16 | 100 | 30 | 20 | 1 | **259,38** |
| PDJNR 2020 K15-IK G1/8 | TA50250108R2015 | 20 | 20 | 125 | 30 | 25 | 1 | **271,88** |
| PDJNR 2525 M15-IK G1/8 | TA50250108R2515 | 25 | 25 | 150 | 30 | 32 | 1 | **292,19** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| DN.. 1104.. | TA04PN010800000 | TA06PN010800000 | TA09SP010800000 | TA10SN010800000 | TA63SN010800000 | TA10ES010800000 |
| DN.. 1506.. | TA22PN010800000 | TA25PN010800000 | TA03SP010800000 | TA23SN010800000 | TA09SN010800000 | TA12ES010800000 |

## Utensile di tornitura esterna PDNN R/L TA5021, stelo in acciaio



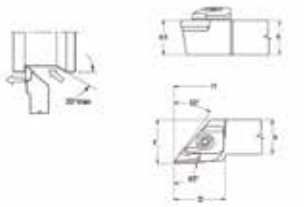


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PDNNL 2020 K15 | TA50210108L2015 | 20 | 20 | 125 | 35 | 12 | 1 | **100,90** |
| PDNNL 2525 M15 | TA50210108L2515 | 25 | 25 | 150 | 37 | 12 | 1 | **112,52** |
| PDNNL 3232 P15 | TA50210108L3215 | 32 | 32 | 170 | 37 | 16,8 | 1 | **131,69** |
| PDNNR 2020 K15 | TA50210108R2015 | 20 | 20 | 125 | 35 | 12 | 1 | **100,90** |
| PDNNR 2525 M15 | TA50210108R2515 | 25 | 25 | 150 | 37 | 12 | 1 | **112,52** |
| PDNNR 3232 P15 | TA50210108R3215 | 32 | 32 | 170 | 37 | 16,8 | 1 | **131,69** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| DN.. 1104.. | TA04PN010800000 | TA06PN010800000 | TA09SP010800000 | TA10SN010800000 | TA63SN010800000 | TA10ES010800000 |
| DN.. 1506.. | TA22PN010800000 | TA25PN01080000 | TA03SP010800000 | TA23SN010800000 | TA09SN010800000 | TA12ES010800000 |

## Utensile di tornitura esterna CKJN R/L TA5130, stelo in acciaio





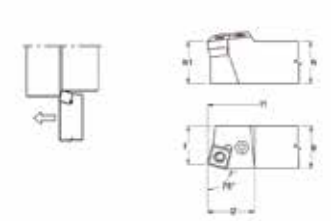
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| CKJNL 2020 K16 | TA51300208L2016 | 20 | 20 | 125 | 34 | 30 | 1 | **112,52** |
| CKJNL 2525 M16 | TA51300208L2516 | 25 | 25 | 150 | 34 | 32 | 1 | **124,88** |
| CKJNL 3232 P16 | TA51300208L3216 | 32 | 32 | 170 | 34 | 40 | 1 | **163,71** |
| CKJNR 2020 K16 | TA51300208R2016 | 20 | 20 | 125 | 34 | 30 | 1 | **112,52** |
| CKJNR 2525 M16 | TA51300208R2516 | 25 | 25 | 150 | 34 | 32 | 1 | **124,88** |
| CKJNR 3232 P16 | TA51300208R3216 | 32 | 32 | 170 | 34 | 40 | 1 | **163,71** |

|  Inserto |  Staffa |  Sede |  Spina |
|---|---|---|---|
| KNUX.. 1604.. R | TA51300208R0001 | TA51300208R0002 | TA06SN010800000 |
| KNUX.. 1604.. L | TA51300208L0001 | TA51300208L0002 | TA06SN010800000 |

|  Vite staffa |  Molla |  Spina |  Chiave |
|---|---|---|---|
| TA5130020800004 | TA5130020800005 | TA5130020800006 | TA5130020800007 |
| TA5130020800004 | TA5130020800005 | TA5130020800006 | TA5130020800007 |

## Utensile di tornitura esterna PSBN R/L TA5040, stelo in acciaio

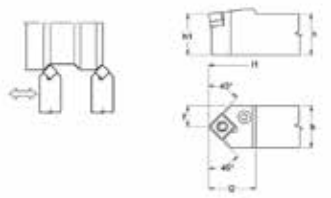




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PSBNL 2020 K12 | TA50400108L2012 | 20 | 20 | 125 | 28 | 17 | 1 | **86,68** |
| PSBNL 2525 M12 | TA50400108L2512 | 25 | 25 | 150 | 29 | 22 | 1 | **94,10** |
| PSBNL 3232 P19 | TA50400108L3219 | 32 | 32 | 170 | 39 | 27 | 1 | **120,06** |
| PSBNL 4040 S19 | TA50400108L4019 | 40 | 40 | 250 | 39 | 35 | 1 | **181,39** |
| PSBNR 2020 K12 | TA50400108R2012 | 20 | 20 | 125 | 28 | 17 | 1 | **86,68** |
| PSBNR 2525 M12 | TA50400108R2512 | 25 | 25 | 150 | 29 | 22 | 1 | **94,10** |
| PSBNR 3232 P19 | TA50400108R3219 | 32 | 32 | 170 | 39 | 27 | 1 | **120,06** |
| PSBNR 4040 S19 | TA50400108R4019 | 40 | 40 | 250 | 39 | 35 | 1 | **181,39** |

## Utensile di tornitura esterna PSDNN TA5041, stelo in acciaio



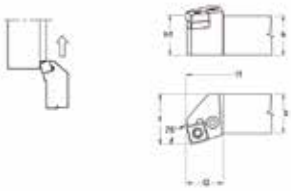


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PSDNN 2020 K12 | TA50410108N2012 | 20 | 20 | 125 | 28 | 10,3 | 1 | **98,18** |
| PSDNN 2525 M12 | TA50410108N2512 | 25 | 25 | 150 | 29 | 12,8 | 1 | **105,72** |
| PSDNN 3232 P19 | TA50410108N3219 | 32 | 32 | 170 | 40 | 16,5 | 1 | **120,06** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| SN.. 1204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA11PN010800000 | TA09SN010800000 | TA12ES010800000 |
| SN.. 1906.. | TA20PN010800000 | TA03PN010800000 | TA11SP010800000 | TA12PN010800000 | TA22SN010800000 | TA11ES010800000 |

## Utensile di tornitura esterna PSKN R/L TA5042, stelo in acciaio

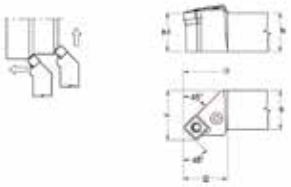




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PSKNL 2020 K12 | TA50420108L2012 | 20 | 20 | 125 | 26 | 25 | 1 | **86,68** |
| PSKNL 2525 M12 | TA50420108L2512 | 25 | 25 | 150 | 26 | 32 | 1 | **94,10** |
| PSKNL 3232 P19 | TA50420108L3219 | 32 | 32 | 170 | 34 | 40 | 1 | **120,06** |
| PSKNL 4040 S19 | TA50420108L4019 | 40 | 40 | 250 | 38 | 50 | 1 | **181,39** |
| PSKNR 2020 K12 | TA50420108R2012 | 20 | 20 | 125 | 26 | 25 | 1 | **86,68** |
| PSKNR 2525 M12 | TA50420108R2512 | 25 | 25 | 150 | 26 | 32 | 1 | **94,10** |
| PSKNR 3232 P19 | TA50420108R3219 | 32 | 32 | 170 | 34 | 40 | 1 | **120,06** |
| PSKNR 4040 S19 | TA50420108R4019 | 40 | 40 | 250 | 38 | 50 | 1 | **181,39** |

## Utensile di tornitura esterna PSSN R/L TA5043, stelo in acciaio



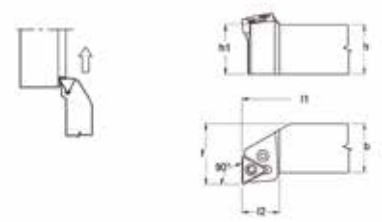


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PSSNL 2020 K12 | TA50430108L2012 | 20 | 20 | 125 | 29 | 25 | 1 | **86,68** |
| PSSNL 2525 M12 | TA50430108L2512 | 25 | 25 | 150 | 29 | 32 | 1 | **90,76** |
| PSSNL 3225 P12 | TA50430108L3212 | 32 | 32 | 170 | 29 | 32 | 1 | **105,72** |
| PSSNL 3232 P19 | TA50430108L3219 | 32 | 32 | 170 | 40 | 40 | 1 | **120,06** |
| PSSNL 4040 S19 | TA50430108L4019 | 40 | 40 | 250 | 40 | 50 | 1 | **181,39** |
| PSSNR 2020 K12 | TA50430108R2012 | 20 | 20 | 125 | 29 | 25 | 1 | **86,68** |
| PSSNR 2525 M12 | TA50430108R2512 | 25 | 25 | 150 | 29 | 32 | 1 | **90,76** |
| PSSNR 3225 P12 | TA50430108R3212 | 32 | 25 | 170 | 29 | 32 | 1 | **105,72** |
| PSSNR 3232 P19 | TA50430108R3219 | 32 | 32 | 170 | 40 | 40 | 1 | **120,06** |
| PSSNR 4040 S19 | TA50430108R4019 | 40 | 40 | 250 | 40 | 50 | 1 | **181,39** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| SN.. 1204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA11PN010800000 | TA09SN010800000 | TA12ES010800000 |
| SN.. 1906.. | TA20PN010800000 | TA03PN010800000 | TA11SP010800000 | TA12PN010800000 | TA22SN010800000 | TA11ES010800000 |

## Utensile di tornitura esterna PTFN R/L TA5050, stelo in acciaio

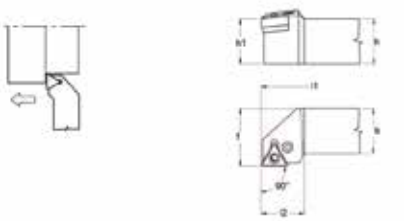




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PTFNL 2020 K16 | TA50500108L2016 | 20 | 20 | 125 | 20 | 25 | 1 | **86,68** |
| PTFNL 2525 M16 | TA50500108L2516 | 25 | 25 | 150 | 21 | 32 | 1 | **94,10** |
| PTFNL 2525 M22 | TA50500108L2522 | 25 | 25 | 150 | 27 | 32 | 1 | **100,90** |
| PTFNL 3232 P22 | TA50500108L3222 | 32 | 32 | 170 | 25 | 40 | 1 | **124,88** |
| PTFNR 2020 K16 | TA50500108R2016 | 20 | 20 | 125 | 20 | 25 | 1 | **86,68** |
| PTFNR 2525 M16 | TA50500108R2516 | 25 | 25 | 150 | 21 | 32 | 1 | **94,10** |
| PTFNR 2525 M22 | TA50500108R2522 | 25 | 25 | 150 | 27 | 32 | 1 | **100,90** |
| PTFNR 3232 P22 | TA50500108R3222 | 32 | 32 | 170 | 25 | 40 | 1 | **124,88** |

## Utensile di tornitura esterna PTGN R/L TA5051, stelo in acciaio



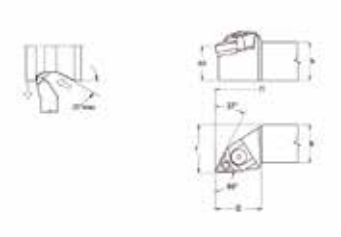


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PTGNL 2020 K16 | TA50510108L2016 | 20 | 20 | 125 | 20 | 25 | 1 | **86,68** |
| PTGNL 2525 M16 | TA50510108L2516 | 25 | 25 | 150 | 21 | 32 | 1 | **94,10** |
| PTGNL 2525 M22 | TA50510108L2522 | 25 | 25 | 150 | 27 | 32 | 1 | **100,90** |
| PTGNL 3232 P22 | TA50510108L3222 | 32 | 32 | 170 | 29 | 40 | 1 | **124,88** |
| PTGNR 2020 K16 | TA50510108R2016 | 20 | 20 | 125 | 20 | 25 | 1 | **86,68** |
| PTGNR 2525 M16 | TA50510108R2516 | 25 | 25 | 150 | 21 | 32 | 1 | **94,10** |
| PTGNR 2525 M22 | TA50510108R2522 | 25 | 25 | 150 | 27 | 32 | 1 | **100,90** |
| PTGNR 3232 P22 | TA50510108R3222 | 32 | 32 | 170 | 29 | 40 | 1 | **124,88** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| TN.. 1604.. | TA26PN010800000 | TA06PN010800000 | TA09SP010800000 | TA29PN010800000 | TA08SN010800000 | TA10ES010800000 |
| TN.. 2204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA30PN010800000 | TA09SN010800000 | TA12ES010800000 |

## Utensile di tornitura esterna MTJN R/L TA5055, stelo in acciaio

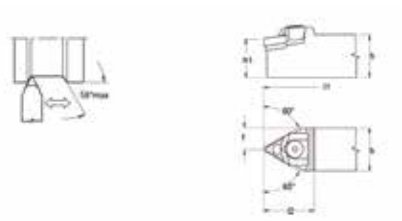




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MTJNL 2020 K16 | TA50550108L2016 | 20 | 20 | 125 | 31 | 25 | 1 | **96,82** |
| MTJNL 2525 M16 | TA50550108L2516 | 25 | 25 | 150 | 36 | 32 | 1 | **98,18** |
| MTJNL 2525 M22 | TA50550108L2522 | 25 | 25 | 150 | 36 | 32 | 1 | **112,52** |
| MTJNL 3225 P16 | TA50550108L3216 | 32 | 25 | 170 | 35 | 32 | 1 | **112,52** |
| MTJNL 3232 P22 | TA50550108L3222 | 32 | 32 | 170 | 36 | 40 | 1 | **127,60** |
| MTJNR 2020 K16 | TA50550108R2016 | 20 | 20 | 125 | 31 | 25 | 1 | **96,82** |
| MTJNR 2525 M16 | TA50550108R2516 | 25 | 25 | 150 | 36 | 32 | 1 | **98,18** |
| MTJNR 2525 M22 | TA50550108R2522 | 25 | 25 | 150 | 36 | 32 | 1 | **112,52** |
| MTJNR 3225 P16 | TA50550108R3216 | 32 | 25 | 170 | 35 | 32 | 1 | **112,52** |
| MTJNR 3232 P22 | TA50550108R3222 | 32 | 32 | 170 | 36 | 40 | 1 | **127,60** |

## Utensile di tornitura esterna MTENN TA5056, stelo in acciaio





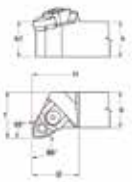
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MTENN 2020 K16 | TA50560108N2016 | 20 | 20 | 125 | 35 | 10,5 | 1 | **98,18** |
| MTENN 2525 M16 | TA50560108N2516 | 25 | 25 | 150 | 37 | 13 | 1 | **99,54** |
| MTENN 2525 M22 | TA50560108N2522 | 25 | 25 | 150 | 37 | 13 | 1 | **112,52** |
| MTENN 3232 P22 | TA50560108N3222 | 32 | 32 | 170 | 37 | 16,5 | 1 | **127,60** |

|  Inserto |  Staffa |  Chiave |  Sede |  Perno |  Grano |  Chiave |
|---|---|---|---|---|---|---|
| TN.. 1604.. | TA01ST010800000 | TA09SP010800000 | TA22SC010800000 | TA12SN010800000 | TA15SN010800000 | TA03SP010800000 |
| TN.. 2204.. | TA02ST010800000 | TA03SP010800000 | TA06SC010800000 | TA04SN010800000 | TA15SN010800000 | - |

## Utensile di tornitura esterna MWLN R/L TA5060, stelo in acciaio







| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MWLNL 2020 K06 | TA50600108L2006 | 20 | 20 | 125 | 31 | 25 | 1 | **96,82** |
| MWLNL 2020 K08 | TA50600108L2008 | 20 | 20 | 125 | 28 | 25 | 1 | **96,82** |
| MWLNL 2525 M06 | TA50600108L2506 | 25 | 25 | 150 | 25 | 32 | 1 | **98,18** |
| MWLNL 2525 M08 | TA50600108L2508 | 25 | 25 | 150 | 31 | 32 | 1 | **98,18** |
| MWLNL 3232 P08 | TA50600108L3208 | 32 | 32 | 170 | 31 | 40 | 1 | **127,60** |
| MWLNR 2020 K06 | TA50600108R2006 | 20 | 20 | 125 | 31 | 25 | 1 | **96,82** |
| MWLNR 2020 K08 | TA50600108R2008 | 20 | 20 | 125 | 28 | 25 | 1 | **96,82** |
| MWLNR 2525 M06 | TA50600108R2506 | 25 | 25 | 150 | 25 | 32 | 1 | **98,18** |
| MWLNR 2525 M08 | TA50600108R2508 | 25 | 25 | 150 | 31 | 32 | 1 | **98,18** |
| MWLNR 3232 P08 | TA50600108R3208 | 32 | 32 | 170 | 31 | 40 | 1 | **127,60** |

|  Inserto |  Staffa |  Chiave |  Sede |  Spina |  Grano |  Chiave |
|---|---|---|---|---|---|---|
| WN.. 0604.. | TA04ST010800000 | TA19SP010800000 | TA09SC010800000 | TA19SN010800000 | TA005G010800000 | - |
| WN.. 0804.. | TA03ST010800000 | TA09SP010800000 | TA10SC010800000 | TA04SN010800000 | TA15SN010800000 | TA03SP010800000 |

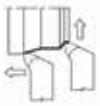
## Utensile di tornitura esterna PWLN R/L TA5065, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso

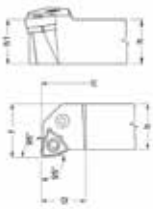






incluso



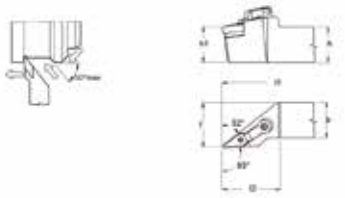


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| PWLNL 2020 K08-IK G1/8 | TA50650108L2008 | 20 | 20 | 125 | 25 | 25 | 1 | **271,88** |
| PWLNR 2525 M08-IK G1/8 | TA50650108L2508 | 25 | 25 | 150 | 25 | 32 | 1 | **292,19** |
| PWLNL 2020 K08-IK G1/8 | TA50650108R2008 | 20 | 20 | 125 | 25 | 25 | 1 | **271,88** |
| PWLNR 2525 M08-IK G1/8 | TA50650108R2508 | 25 | 25 | 150 | 25 | 32 | 1 | **292,19** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| WN.. 0804.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA10SC010800000 | TA09SN010800000 | TA12ES010800000 |

## Utensile di tornitura esterna MVJN R/L TA5140, stelo in acciaio

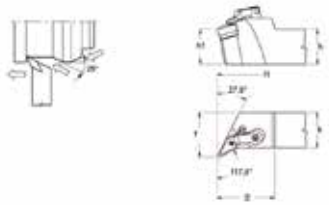




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MVJNL 2020 K16 | TA51400108L2016 | 20 | 20 | 125 | 32 | 25 | 1 | **109,18** |
| MVJNL 2525 M16 | TA51400108L2516 | 25 | 25 | 150 | 32 | 32 | 1 | **118,21** |
| MVJNL 3232 P16 | TA51400108L3216 | 32 | 25 | 170 | 32 | 32 | 1 | **134,16** |
| MVJNR 2020 K16 | TA51400108R2016 | 20 | 20 | 125 | 32 | 25 | 1 | **109,18** |
| MVJNR 2525 M16 | TA51400108R2516 | 25 | 25 | 150 | 32 | 32 | 1 | **118,21** |
| MVJNR 3232 P16 | TA51400108R3216 | 32 | 25 | 170 | 32 | 32 | 1 | **134,16** |

## Utensile di tornitura esterna MVPN R/L TA5141, stelo in acciaio



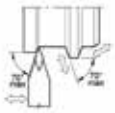


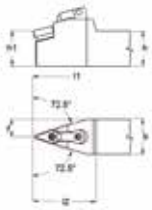
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MVPNL 2020 K16 | TA51410108L2016 | 20 | 20 | 125 | 41 | 25 | 1 | **109,18** |
| MVPNL 2525 M16 | TA51410108L2516 | 25 | 25 | 150 | 41 | 32 | 1 | **118,21** |
| MVPNL 3232 P16 | TA51410108L3216 | 32 | 25 | 170 | 32 | 32 | 1 | **134,16** |
| MVPNR 2020 K16 | TA51410108R2016 | 20 | 20 | 125 | 41 | 25 | 1 | **109,18** |
| MVPNR 2525 M16 | TA51410108R2516 | 25 | 25 | 150 | 41 | 32 | 1 | **118,21** |
| MVPNR 3232 P16 | TA51410108R3216 | 32 | 25 | 170 | 32 | 32 | 1 | **134,16** |

|  Inserto |  Sede |  Perno |  Chiave |  Staffa |  Vite |  Chiave |  Bussola |
|---|---|---|---|---|---|---|---|
| VN.. 1604.. | TA10TB010800000 | TA18PN010800000 | TA11TB010800000 | TA012L010800000 | TA016L010800000 | TA15SP010800000 | TA019L010800000 |

## Utensile di tornitura esterna MVVNN R/L TA5142, stelo in acciaio







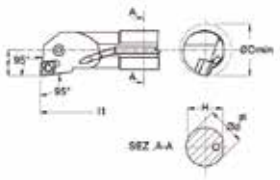
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MVVNN 2020 K16 | TA51420108N2016 | 20 | 20 | 125 | 45 | -- | 1 | **109,18** |
| MVVNN 2525 M16 | TA51420108N2516 | 25 | 25 | 150 | 45 | -- | 1 | **118,21** |
| MVVNN 3232 V16 | TA51420108N3216 | 32 | 25 | 170 | 45 | -- | 1 | **134,16** |

|  Inserto |  Sede |  Perno |  Chiave |  Staffa |  Vite |  Chiave |  Bussola |
|---|---|---|---|---|---|---|---|
| VN.. 1604.. | TA10TB010800000 | TA18PN010800000 | TA11TB010800000 | TA012L010800000 | TA016L010800000 | TA15SP010800000 | TA019L010800000 |

## Utensile di tornitura interna A..PCLN R/L TA6010, stelo in acciao







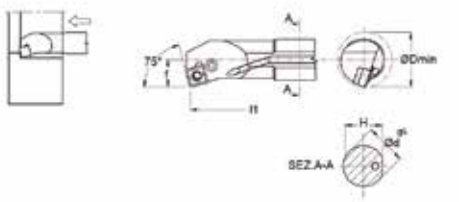
| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R PCLNL 12 | TA60100108L2512 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PCLNL 12 | TA60100108L3212 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PCLNL 12 | TA60100108L4012 | 50 | 40 | 38,5 | 300 | 27 | 1 | **270,17** |
| A40T PCLNL 16 | TA60100108L4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **299,97** |
| A50U PCLNL 12 | TA60100108L5012 | 63 | 50 | 48 | 350 | 35 | 1 | **403,34** |
| A50U PCLNL 16 | TA60100108L5016 | 63 | 50 | 48 | 350 | 35 | 1 | **419,17** |
| A50U PCLNL 19 | TA60100108L5019 | 63 | 50 | 48 | 350 | 35 | 1 | **441,79** |
| A25R PCLNR 12 | TA60100108R2512 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PCLNR 12 | TA60100108R3212 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PCLNR 12 | TA60100108R4012 | 50 | 40 | 38,5 | 300 | 27 | 1 | **270,17** |
| A40T PCLNR 16 | TA60100108R4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **299,97** |
| A50U PCLNR 12 | TA60100108R5012 | 63 | 50 | 48 | 350 | 35 | 1 | **403,34** |
| A50U PCLNR 16 | TA60100108R5016 | 63 | 50 | 48 | 350 | 35 | 1 | **419,17** |
| A50U PCLNR 19 | TA60100108R5019 | 63 | 50 | 48 | 350 | 35 | 1 | **441,79** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| CN.. 1204.. | TA10PN010800000 | TA01PN010800000<br>TA16SC010800000 * | TA03SP010800000 | TA15PN010800000 | TA09SN010800000 | TA12ES010800000 |
| CN.. 1606.. | TA17PN010800000 | TA02PN010800000 | TA03SP010800000 | TA16SN010800000 | TA17SN010800000 | TA15ES010800000 |
| CN.. 1906.. | TA20PN010800000 | TA03PN010800000 | TA11SP010800000 | TA19PN010800000 | TA22SN010800000 | TA11ES010800000 |

* per utensile 2512

## Utensile di tornitura interna A..PSKN R/L TA6040, stelo in acciaio





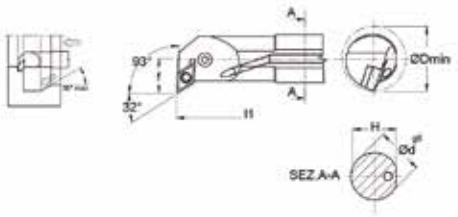

| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R PSKNL 12 | TA60400108L2512 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PSKNL 12 | TA60400108L3212 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PSKNL 12 | TA60400108L4012 | 50 | 40 | 38,5 | 300 | 27 | 1 | **284,14** |
| A25R PSKNR 12 | TA60400108R2512 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PSKNR 12 | TA60400108R3212 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PSKNR 12 | TA60400108R4012 | 50 | 40 | 38,5 | 300 | 27 | 1 | **284,14** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| SN.. 1204.. | TA10PN010800000 | TA16SC010800000<br>TA01PN010800000 ** | TA03SP010800000 | TA11PN010800000 | TA09SN010800000 | TA12ES010800000 |

**per utensile 4012

## Utensile di tornitura interna A..PDUN R/L TA6020, stelo in acciaio





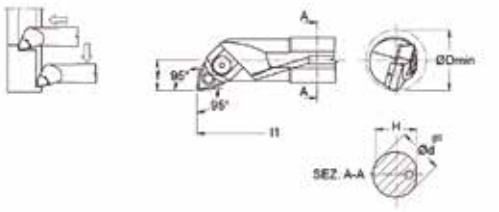

| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A20Q PDUNL 11 | TA60200108L2011 | 27 | 20 | 18 | 180 | 16 | 1 | **210,57** |
| A25R PDUNL 11 | TA60200108L2511 | 32 | 25 | 23 | 200 | 17 | 1 | **233,08** |
| A32S PDUNL 11 | TA60200108L3211 | 40 | 32 | 30 | 250 | 22 | 1 | **276,85** |
| A32S PDUNL 15 | TA60200108L3215 | 40 | 32 | 31 | 250 | 22 | 1 | **247,05** |
| A40T PDUNL 15 | TA60200108L4015 | 50 | 40 | 38,5 | 300 | 27 | 1 | **299,97** |
| A50U PDUNL 15 | TA60200108L5015 | 63 | 50 | 48 | 350 | 35 | 1 | **441,79** |
| A20Q PDUNR 11 | TA60200108R2011 | 27 | 20 | 18 | 180 | 16 | 1 | **210,57** |
| A25R PDUNR 11 | TA60200108R2511 | 32 | 25 | 23 | 200 | 17 | 1 | **233,08** |
| A32S PDUNR 11 | TA60200108R3211 | 40 | 32 | 30 | 250 | 22 | 1 | **276,85** |
| A32S PDUNR 15 | TA60200108R3215 | 40 | 32 | 31 | 250 | 22 | 1 | **247,05** |
| A40T PDUNR 15 | TA60200108R4015 | 50 | 40 | 38,5 | 300 | 27 | 1 | **299,97** |
| A50U PDUNR 15 | TA60200108R5015 | 63 | 50 | 48 | 350 | 35 | 1 | **441,79** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| DN.. 1104.. | TA04PN010800000 - TA08PN010800000 * | TA06PN010800000 - TA05PN010800000 * | TA09SP010800000 | TA10SN010800000 | TA63SN010800000 | TA10ES010800000 |
| DN.. 1506.. | TA22PN010800000 | TA25PN010800000 | TA03SP010800000 | TA23PN010800000 | TA09SN010800000 | TA12ES010800000 - TA15ES010800000 ** |

* per utensile 2011 | ** per utensile 5015

## Utensile di tornitura interna A..MWLN R/L TA6060, stelo in acciaio





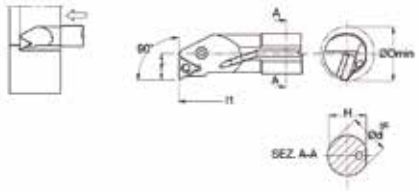

| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A20Q MWLNL 06 | TA60600108L2006 | 25 | 20 | 19 | 180 | 13 | 1 | **201,92** |
| A25R MWLNL 06 | TA60600108L2506 | 32 | 25 | 24 | 200 | 17 | 1 | **216,88** |
| A25R MWLNL 08 | TA60600108L2508 | 32 | 25 | 24 | 200 | 17 | 1 | **216,88** |
| A32S MWLNL 06 | TA60600108L3206 | 40 | 32 | 31 | 250 | 22 | 1 | **261,89** |
| A32T MWLNL 08 | TA60600108L3208 | 40 | 32 | 31 | 250 | 22 | 1 | **261,89** |
| A40T MWLNL 08 | TA60600108L4008 | 50 | 40 | 38,5 | 300 | 27 | 1 | **324,95** |
| A20Q MWLNR 06 | TA60600108R2006 | 25 | 20 | 19 | 180 | 13 | 1 | **201,92** |
| A25R MWLNR 06 | TA60600108R2506 | 32 | 25 | 24 | 200 | 17 | 1 | **216,88** |
| A25R MWLNR 08 | TA60600108R2508 | 32 | 25 | 24 | 200 | 17 | 1 | **216,88** |
| A32S MWLNR 06 | TA60600108R3206 | 40 | 32 | 31 | 250 | 22 | 1 | **261,89** |
| A32T MWLNR 08 | TA60600108R3208 | 40 | 32 | 31 | 250 | 22 | 1 | **261,89** |
| A40T MWLNR 08 | TA60600108R4008 | 50 | 40 | 38,5 | 300 | 27 | 1 | **324,95** |

|  Inserto |  Staffa |  Chiave |  Sede |  Perno |  Grano |
|---|---|---|---|---|---|
| WN.. 0604.. | TA04ST010800000 | TA19SP010800000 | TA09SC010800000 | TA13SN010800000 *<br>TA19SN010800000 **<br>TA20SN010800000 *** | - |
| WN.. 0804.. | TA03ST010800000 | TA09SP010800000 | TA10SC010800000 | TA11SN010800000<br>TA19SN010800000 **** | TA004G010800000 |

* per utensile 2006
** per utensile 2506
*** per utensile 3206
**** per utensile 2508

## Utensile di tornitura interna A..PTFN R/L TA6050, stelo in acciaio



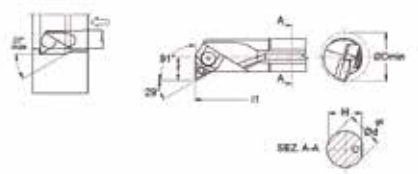


| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R PTFNL 16 | TA60500108L2516 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PTFNL 16 | TA60500108L3216 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PTFNL 22 | TA60500108L4022 | 50 | 40 | 38,5 | 300 | 27 | 1 | **284,14** |
| A25R PTFNR 16 | TA60500108R2516 | 32 | 25 | 24 | 200 | 17 | 1 | **187,45** |
| A32S PTFNR 16 | TA60500108R3216 | 40 | 32 | 31 | 250 | 22 | 1 | **224,54** |
| A40T PTFNR 22 | TA60500108R4022 | 50 | 40 | 38,5 | 300 | 27 | 1 | **284,14** |

|  Inserto |  Leva |  Vite leva |  Chiave |  Sede |  Spina |  Punzone |
|---|---|---|---|---|---|---|
| TN.. 1604.. | TA26PN010800000 | TA06PN010800000 | TA09SP010800000 | TA29PN010800000 | TA08SN010800000 | TA10ES010800000 |
| TN.. 2204.. | TA10PN010800000 | TA01PN010800000 | TA03SP010800000 | TA30PN010800000 | TA09SN010800000 | TA12ES010800000 |

## Utensile di tornitura interna A..MTFN R/L TA6051, stelo in acciaio





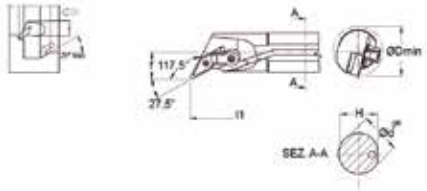
| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R MTFNL 16 | TA60510108L2516 | 32 | 25 | 24 | 200 | 17 | 1 | **201,92** |
| A32S MTFNL 16 | TA60510108L3216 | 40 | 32 | 31 | 250 | 22 | 1 | **247,67** |
| A40T MTFNL 16 | TA60510108L4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **309,00** |
| A40T MTFNL 22 | TA60510108L4022 | 50 | 40 | 38,5 | 300 | 27 | 1 | **309,00** |
| A50U MTFNL 16 | TA60510108L5016 | 63 | 50 | 48 | 350 | 35 | 1 | **478,15** |
| A50U MTFNL 22 | TA60510108L5022 | 63 | 50 | 48 | 350 | 35 | 1 | **478,15** |
| A25R MTFNR 16 | TA60510108R2516 | 32 | 25 | 24 | 200 | 17 | 1 | **201,92** |
| A32S MTFNR 16 | TA60510108R3216 | 40 | 32 | 31 | 250 | 22 | 1 | **247,67** |
| A40T MTFNR 16 | TA60510108R4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **309,00** |
| A40T MTFNR 22 | TA60510108R4022 | 50 | 40 | 38,5 | 300 | 27 | 1 | **309,00** |
| A50U MTFNR 16 | TA60510108R5016 | 63 | 50 | 48 | 350 | 35 | 1 | **478,15** |
| A50U MTFNR 22 | TA60510108R5022 | 63 | 50 | 48 | 350 | 35 | 1 | **478,15** |

|  Inserto |  Staffa |  Sede |  Perno |  Grano |  Chiave |  Punzone |
|---|---|---|---|---|---|---|
| TN.. 1604.. | TA01ST010800000 | TA22SC010800000 | TA19SN010800000<br>TA16SN010800000 * | TA003G010800000 | TA09SP010800000 | - |
| TN.. 2204.. | TA02ST010800000 | TA06SC010800000 | TA11SN010800000 | TA004G010800000 | TA03SP010800000 | - |

* per utensile 2516

## Utensile di tornitura interna A..MVPN R/L TA6140, stelo in acciaio

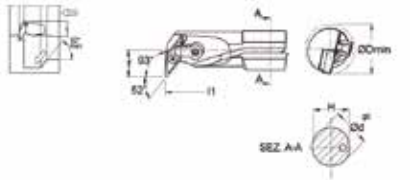




| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R MVPNL 16 | TA61400108L2516 | 32 | 25 | 24 | 200 | 17 | 1 | **235,67** |
| A32S MVPNL 16 | TA61400108L3216 | 40 | 32 | 31 | 250 | 22 | 1 | **283,65** |
| A40T MVPNL 16 | TA61400108L4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **346,34** |
| A25R MVPNR 16 | TA61400108R2516 | 32 | 25 | 24 | 200 | 17 | 1 | **235,67** |
| A32S MVPNR 16 | TA61400108R3216 | 40 | 32 | 31 | 250 | 22 | 1 | **283,65** |
| A40T MVPNR 16 | TA61400108R4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **346,34** |

## Utensile di tornitura interna A..MVUN R/L TA6141, stelo in acciaio

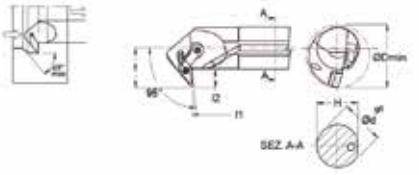




| ISO | Codice | ØDmin | Ød | H | l1 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A25R MVUNL 16 | TA61410108L2516 | 32 | 25 | 24 | 200 | 17 | 1 | **235,67** |
| A32S MVUNL 16 | TA61410108L3216 | 40 | 32 | 31 | 250 | 22 | 1 | **283,65** |
| A40T MVUNL 16 | TA61410108L4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **346,34** |
| A25R MVUNR 16 | TA61410108R2516 | 32 | 25 | 24 | 200 | 17 | 1 | **235,67** |
| A32S MVUNR 16 | TA61410108R3216 | 40 | 32 | 31 | 250 | 22 | 1 | **283,65** |
| A40T MVUNR 16 | TA61410108R4016 | 50 | 40 | 38,5 | 300 | 27 | 1 | **346,34** |

## Utensile di tornitura interna A..MVZN R/L TA6142, stelo in acciaio





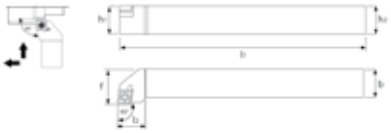
| ISO | Codice | ØDmin | Ød | H | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A32S MVZNL 16 | TA61420108L3216 | 48 | 32 | 31 | 250 | 14 | 30 | 1 | **283,65** |
| A40T MVZNL 16 | TA61420108L4016 | 57 | 40 | 38,5 | 300 | 45 | 35 | 1 | **346,34** |
| A32S MVZNR 16 | TA61420108R3216 | 48 | 32 | 31 | 250 | 14 | 30 | 1 | **283,65** |
| A40T MVZNR 16 | TA61420108R4016 | 57 | 40 | 38,5 | 300 | 45 | 35 | 1 | **346,34** |

|  Inserto |  Sede |  Perno |  Chiave |  Staffa |  Vite |  Chiave |  Bussola |
|---|---|---|---|---|---|---|---|
| VN.. 1604.. | TA10TB010800000 | TA18PN010800000 | TA11TB010800000 | TA012L010800000 * TA011L010800000 * | TA015L010800000 TA016L010800000 ** | TA15SP010800000 | TA019L010800000 |

* per utensile 2516 | ** per utensile 4016

## Utensile di tornitura esterna SCLC R/L TA5070, stelo in acciaio





| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SCLCL 0808 D06 | TA50700208L0806 | 8 | 8 | 8 | 70 | 9 | 12 | 1 | **76,56** |
| SCLCL 1010 E06 | TA50700208L1006 | 10 | 10 | 10 | 80 | 15 | 16 | 1 | **76,56** |
| SCLCL 1212 F09 | TA50700208L1209 | 12 | 12 | 12 | 100 | 17 | 20 | 1 | **76,56** |
| SCLCL 1616 H09 | TA50700208L1609 | 16 | 16 | 16 | 125 | 17 | 25 | 1 | **90,63** |
| SCLCL 1616 H12 | TA50700208L1612 | 16 | 16 | 16 | 125 | 20 | 25 | 1 | **90,63** |
| SCLCL 2020 K09 | TA50700208L2009 | 20 | 20 | 20 | 150 | 20 | 32 | 1 | **92,19** |
| SCLCL 2020 K12 | TA50700208L2012 | 20 | 20 | 20 | 150 | 20 | 32 | 1 | **92,19** |
| SCLCL 2525 M09 | TA50700208L2509 | 25 | 25 | 25 | 100 | 20 | 20 | 1 | **103,13** |
| SCLCL 2525 M12 | TA50700208L2512 | 25 | 25 | 25 | 70 | 5,5 | 12 | 1 | **103,13** |
| SCLCR 0808 D06 | TA50700208R0806 | 8 | 8 | 8 | 70 | 9 | 12 | 1 | **76,56** |
| SCLCR 1010 E06 | TA50700208R1006 | 10 | 10 | 10 | 80 | 15 | 16 | 1 | **76,56** |
| SCLCR 1212 F09 | TA50700208R1209 | 12 | 12 | 12 | 100 | 17 | 20 | 1 | **76,56** |
| SCLCR 1616 H09 | TA50700208R1609 | 16 | 16 | 16 | 125 | 17 | 25 | 1 | **90,63** |
| SCLCR 1616 H12 | TA50700208R1612 | 16 | 16 | 16 | 125 | 20 | 25 | 1 | **90,63** |
| SCLCR 2020 K09 | TA50700208R2009 | 20 | 20 | 20 | 150 | 20 | 32 | 1 | **92,19** |
| SCLCR 2020 K12 | TA50700208R2012 | 20 | 20 | 20 | 150 | 20 | 32 | 1 | **92,19** |
| SCLCR 2525 M09 | TA50700208R2509 | 25 | 25 | 25 | 100 | 20 | 20 | 1 | **103,13** |
| SCLCR 2525 M12 | TA50700208R2512 | 25 | 25 | 25 | 70 | 5,5 | 12 | 1 | **103,13** |

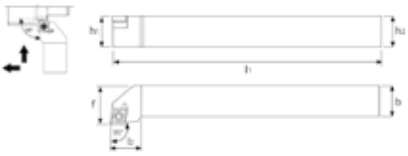
## Utensile di tornitura esterna SCLC R/L TA5075, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso







incluso



| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SCLCL 1616 H09-IK G 1/8 | TA50750208L1609 | 16 | 16 | 16 | 100 | 17 | 20 | 1 | **256,25** |
| SCLCL 2020 K09-IK G 1/8 | TA50750208L2009 | 20 | 20 | 20 | 125 | 17 | 25 | 1 | **264,06** |
| SCLCL 2525 M12-IK G 1/8 | TA50750208L2512 | 25 | 25 | 25 | 150 | 20 | 32 | 1 | **276,56** |
| SCLCR 1616 H09-IK G 1/8 | TA50750208R1609 | 16 | 16 | 16 | 100 | 17 | 20 | 1 | **256,25** |
| SCLCR 2020 K09-IK G 1/8 | TA50750208R2009 | 20 | 20 | 20 | 125 | 17 | 25 | 1 | **264,06** |
| SCLCR 2525 M12-IK G 1/8 | TA50750208R2512 | 25 | 25 | 25 | 150 | 20 | 32 | 1 | **276,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| CC.. 0602.. | - | - | TA003P020800000 | TA08CP020800000 |
| CC.. 09T3.. | TA04ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |
| CC.. 1204.. | TA01ST020800000 | TA11VS020800000 | TA001P020800000 | TA20CP020800000 |

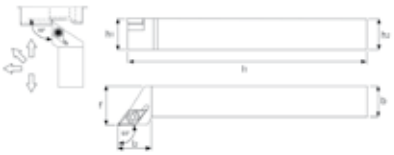
## Utensile di tornitura esterna SDJC R/L TA5085, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso







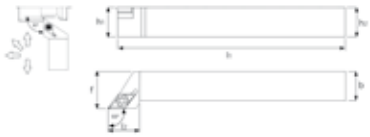
incluso



| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SDJCL 1616 H11-IK G 1/8 | TA50850208L1611 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **253,13** |
| SDJCL 2020 H11-IK G 1/8 | TA50850208L2011 | 20 | 20 | 20 | 125 | 20,5 | 25 | 1 | **264,06** |
| SDJCL 2525 M11-IK G 1/8 | TA50850208L2511 | 25 | 25 | 25 | 150 | 21,5 | 32 | 1 | **276,56** |
| SDJCR 1616 K11-IK G 1/8 | TA50850208R1611 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **253,13** |
| SDJCR 2020 K11-IK G 1/8 | TA50850208R2011 | 20 | 20 | 20 | 125 | 20,5 | 25 | 1 | **264,06** |
| SDJCR 2525 M11-IK G 1/8 | TA50850208R2511 | 25 | 25 | 25 | 150 | 21,5 | 32 | 1 | **276,56** |

## Utensile di tornitura esterna SDJC R/L TA5080, stelo in acciaio



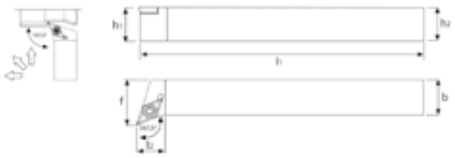


| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SDJCL 0808 D07 | TA50800208L0807 | 8 | 8 | 8 | 60 | 13 | 10 | 1 | **76,56** |
| SDJCL 1010 E07 | TA50800208L1007 | 10 | 10 | 10 | 70 | 13 | 12 | 1 | **76,56** |
| SDJCL 1212 F07 | TA50800208L1207 | 12 | 12 | 12 | 80 | 14,5 | 16 | 1 | **76,56** |
| SDJCL 1212 F11 | TA50800208L1211 | 12 | 12 | 12 | 80 | 21 | 16 | 1 | **78,15** |
| SDJCL 1616 H11 | TA50800208L1611 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **90,63** |
| SDJCL 2020 K11 | TA50800208L2011 | 20 | 20 | 20 | 125 | 20,5 | 25 | 1 | **92,19** |
| SDJCL 2525 M11 | TA50800208L2511 | 25 | 25 | 25 | 150 | 21,5 | 32 | 1 | **103,13** |
| SDJCR 0808 D07 | TA50800208R0807 | 8 | 8 | 8 | 60 | 13 | 10 | 1 | **76,56** |
| SDJCR 1010 E07 | TA50800208R1007 | 10 | 10 | 10 | 70 | 13 | 12 | 1 | **76,56** |
| SDJCR 1212 F07 | TA50800208R1207 | 12 | 12 | 12 | 80 | 14,5 | 16 | 1 | **76,56** |
| SDJCR 1212 F11 | TA50800208R1211 | 12 | 12 | 12 | 80 | 21 | 16 | 1 | **78,15** |
| SDJCR 1616 H11 | TA50800208R1611 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **90,63** |
| SDJCR 2020 K11 | TA50800208R2011 | 20 | 20 | 20 | 125 | 20,5 | 25 | 1 | **92,19** |
| SDJCR 2525 M11 | TA50800208R2511 | 25 | 25 | 25 | 150 | 21,5 | 32 | 1 | **103,13** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| DC.. 0702.. | - | - | TA003P020800000 | TA08CP020800000 |
| DC.. 11T3.. | TA02ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SDHC R/L TA5081, stelo in acciaio

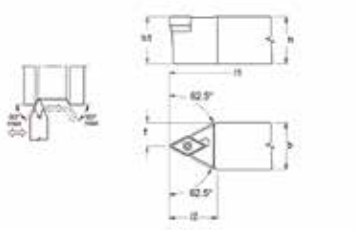




| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SDHCL 1010 E07 | TA50810208L1007 | 10 | 10 | 10 | 70 | 5,5 | 12 | 1 | **76,56** |
| SDHCL 1212 F07 | TA50810208L1207 | 12 | 12 | 12 | 80 | 12 | 16 | 1 | **76,56** |
| SDHCL 1616 H11 | TA50810208L1611 | 16 | 16 | 16 | 100 | 10,4 | 20 | 1 | **90,63** |
| SDHCL 2020 K11 | TA50810208L2011 | 20 | 20 | 20 | 125 | 14 | 25 | 1 | **92,19** |
| SDHCL 2525 M11 | TA50810208L2511 | 25 | 25 | 25 | 150 | 20 | 32 | 1 | **103,13** |
| SDHCR 1010 E07 | TA50810208R1007 | 10 | 10 | 10 | 70 | 5,5 | 12 | 1 | **76,56** |
| SDHCR 1212 F07 | TA50810208R1207 | 12 | 12 | 12 | 80 | 12 | 16 | 1 | **76,56** |
| SDHCR 1616 H11 | TA50810208R1611 | 16 | 16 | 16 | 100 | 10,4 | 20 | 1 | **90,63** |
| SDHCR 2020 K11 | TA50810208R2011 | 20 | 20 | 20 | 125 | 14 | 25 | 1 | **92,19** |
| SDHCR 2525 M11 | TA50810208R2511 | 25 | 25 | 25 | 150 | 20 | 32 | 1 | **103,13** |

## Utensile di tornitura esterna SDNCN TA5082, stelo in acciaio



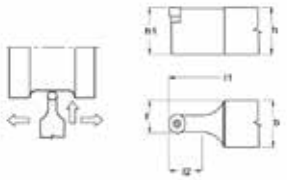


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SDNCN 0808 D07 | TA50820208N0807 | 8 | 8 | 60 | 9 | 4 | 1 | **79,69** |
| SDNCN 1010 E07 | TA50820208N1007 | 10 | 10 | 70 | 11 | 5 | 1 | **79,69** |
| SDNCN 1212 F07 | TA50820208N1207 | 12 | 12 | 80 | 13 | 6 | 1 | **79,69** |
| SDNCN 1616 H11 | TA50820208N1611 | 16 | 16 | 100 | 16 | 8 | 1 | **93,75** |
| SDNCN 2020 K11 | TA50820208N2011 | 20 | 20 | 125 | 20 | 10 | 1 | **95,31** |
| SDNCN 2525 M11 | TA50820208N2511 | 25 | 25 | 150 | 25 | 12,5 | 1 | **106,25** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| DC.. 0702.. | - | - | TA003P020800000 | TA08CP020800000 |
| DC.. 11T3.. | TA02ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SRDCN TA5030, stelo in acciaio





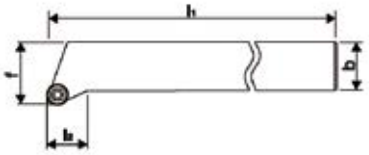
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SRDCN 1212 F06 | TA50300208N1206 | 12 | 12 | 80 | 12,5 | 9 | 1 | **87,50** |
| SRDCN 1616 H06 | TA50300208N1606 | 16 | 16 | 100 | 12,5 | 11 | 1 | **98,44** |
| SRDCN 1616 H08 | TA50300208N1608 | 16 | 16 | 100 | 16,5 | 12 | 1 | **98,44** |
| SRDCN 1616 H10 | TA50300208N1610 | 16 | 16 | 100 | 16,5 | 13 | 1 | **98,44** |
| SRDCN 2020 K06 | TA50300208N2006 | 20 | 20 | 125 | 12,5 | 13 | 1 | **115,63** |
| SRDCN 2020 K08 | TA50300208N2008 | 20 | 20 | 125 | 16,5 | 14 | 1 | **115,63** |
| SRDCN 2020 K10 | TA50300208N2010 | 20 | 20 | 125 | 20,5 | 15 | 1 | **115,63** |
| SRDCN 2020 K12 | TA50300208N2012 | 20 | 20 | 125 | 20,3 | 12,5 | 1 | **115,63** |
| SRDCN 2525 M06 | TA50300208N2506 | 25 | 25 | 150 | 12,5 | 15,5 | 1 | **126,56** |
| SRDCN 2525 M08 | TA50300208N2508 | 25 | 25 | 150 | 16,5 | 16,5 | 1 | **126,56** |
| SRDCN 2525 M10 | TA50300208N2510 | 25 | 25 | 150 | 20,5 | 17,5 | 1 | **126,56** |
| SRDCN 2525 M12 | TA50300208N2512 | 25 | 25 | 150 | 20,3 | 12,5 | 1 | **126,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| RC.. 0602MO.. | - | - | TA003P020800000 | TA08CP020800000 |
| RC.. 0803MO.. | - | - | TA008P020800000 | TA15CP020800000 |
| RC.. 1003MO.. | TA08ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |
| RC.. 1204MO.. | TA13ST020800000 | TA13VS020800000 | TA013VS02080000 | TA15TB060400000 |

## Utensile di tornitura esterna SRGC R/L TA5031, stelo in acciaio





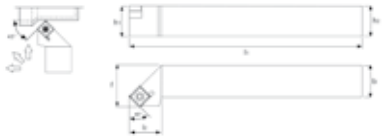



| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SRGCL 1212 F06 | TA50310208L1206 | 12 | 12 | 80 | 13,6 | 16 | 1 | **90,63** |
| SRGCL 1616 H06 | TA50310208L1606 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCL 1616 H08 | TA50310208L1608 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCL 1616 H10 | TA50310208L1610 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCL 2020 K06 | TA50310208L2006 | 20 | 20 | 125 | 15,3 | 25 | 1 | **115,63** |
| SRGCL 2020 K08 | TA50310208L2008 | 20 | 20 | 125 | 15,3 | 25 | 1 | **120,31** |
| SRGCL 2020 K10 | TA50310208L2010 | 20 | 20 | 125 | 15,3 | 25 | 1 | **120,31** |
| SRGCL 2525 M06 | TA50310208L2506 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |
| SRGCL 2525 M08 | TA50310208L2508 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |
| SRGCL 2525 M10 | TA50310208L2510 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |
| SRGCR 1212 F06 | TA50310208R1206 | 12 | 12 | 80 | 13,6 | 16 | 1 | **90,63** |
| SRGCR 1616 H06 | TA50310208R1606 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCR 1616 H08 | TA50310208R1608 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCR 1616 H10 | TA50310208R1610 | 16 | 16 | 100 | 13,6 | 20 | 1 | **103,13** |
| SRGCR 2020 K06 | TA50310208R2006 | 20 | 20 | 125 | 15,3 | 25 | 1 | **115,63** |
| SRGCR 2020 K08 | TA50310208R2008 | 20 | 20 | 125 | 15,3 | 25 | 1 | **120,31** |
| SRGCR 2020 K10 | TA50310208R2010 | 20 | 20 | 125 | 15,3 | 25 | 1 | **120,31** |
| SRGCR 2525 M06 | TA50310208R2506 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |
| SRGCR 2525 M08 | TA50310208R2508 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |
| SRGCR 2525 M10 | TA50310208R2510 | 25 | 25 | 150 | 18,8 | 32 | 1 | **132,81** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| RC.. 0602MO.. | - | - | TA003P020800000 | TA08CP020800000 |
| RC.. 0803MO.. | - | - | TA008P020800000 | TA15CP020800000 |
| RC.. 1003MO.. | TA08ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |
| RC.. 1204MO.. | TA13ST020800000 | TA13VS020800000 | TA013VS02080000 | TA15TB060400000 |

## Utensile di tornitura esterna SSSC R/L TA5090, stelo in acciaio

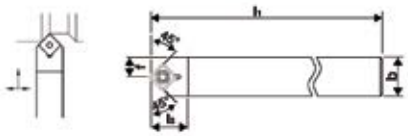




| ISO | Codice | h1 | h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SSSCL 1212 F09 | TA50900208L1209 | 12 | 12 | 12 | 80 | 18 | 16 | 1 | **76,56** |
| SSSCL 1616 H09 | TA50900208L1609 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **90,63** |
| SSSCL 2020 K09 | TA50900208L1612 | 20 | 20 | 20 | 125 | 20 | 25 | 1 | **90,63** |
| SSSCL 1616 H12 | TA50900208L2009 | 16 | 16 | 16 | 100 | 25 | 20 | 1 | **92,19** |
| SSSCL 2020 K12 | TA50900208L2012 | 20 | 20 | 20 | 125 | 25 | 25 | 1 | **92,19** |
| SSSCL 2525 M12 | TA50900208L2512 | 25 | 25 | 25 | 150 | 25 | 32 | 1 | **103,13** |
| SSSCR 1212 F09 | TA50900208R1209 | 12 | 12 | 12 | 80 | 18 | 16 | 1 | **76,56** |
| SSSCR 1616 H09 | TA50900208R1609 | 16 | 16 | 16 | 100 | 20 | 20 | 1 | **90,63** |
| SSSCR 2020 K09 | TA50900208R1612 | 20 | 20 | 20 | 125 | 20 | 25 | 1 | **90,63** |
| SSSCR 1616 H12 | TA50900208R2009 | 16 | 16 | 16 | 100 | 25 | 20 | 1 | **92,19** |
| SSSCR 2020 K12 | TA50900208R2012 | 20 | 20 | 20 | 125 | 25 | 25 | 1 | **92,19** |
| SSSCR 2525 M12 | TA50900208R2512 | 25 | 25 | 25 | 150 | 25 | 32 | 1 | **103,13** |

## Utensile di tornitura esterna SSDCN TA5095, stelo in acciaio





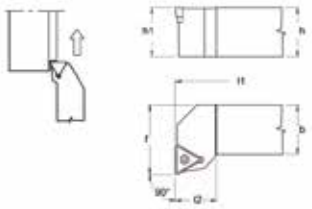
| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SSDCN 1212 F09 | TA50950208N1209 | 12 | 12 | 80 | 16 | 6 | 1 | **78,13** |
| SSDCN 1616 H09 | TA50950208N1609 | 16 | 16 | 100 | 20 | 8 | 1 | **90,63** |
| SSDCN 1616 H12 | TA50950208N1612 | 16 | 16 | 100 | 25 | 8 | 1 | **96,88** |
| SSDCN 2020 K09 | TA50950208N2009 | 20 | 20 | 125 | 20 | 10 | 1 | **103,13** |
| SSDCN 2020 K12 | TA50950208N2012 | 20 | 20 | 125 | 25 | 10 | 1 | **103,13** |
| SSDCN 2525 M12 | TA50950208N2512 | 25 | 25 | 150 | 25 | 12,5 | 1 | **109,38** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| SC.. 09T3.. | TA05ST020800000 | TA22VS020800000 | TA022P020800000<br>TA002P020800000* | TA08CP020800000 |
| SC.. 1204.. | TA06ST020800000 | TA11VS020800000 | TA001P020800000 | TA15CP020800000 |

* per utensile 1616

## Utensile di tornitura esterna STFC R/L TA5100, stelo in acciaio



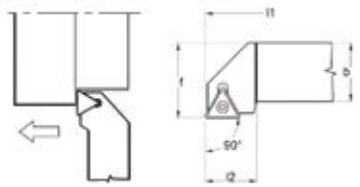


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| STFCL 0808 D09 | TA51000208L0809 | 8 | 8 | 60 | 10 | 10 | 1 | **78,15** |
| STFCL 1010 E09 | TA51000208L1009 | 10 | 10 | 70 | 10 | 12 | 1 | **78,15** |
| STFCL 1212 F11 | TA51000208L1211 | 12 | 12 | 80 | 14 | 16 | 1 | **78,15** |
| STFCL 1616 H11 | TA51000208L1611 | 16 | 16 | 100 | 15 | 20 | 1 | **85,44** |
| STFCL 1616 H16 | TA51000208L1616 | 16 | 16 | 100 | 20 | 20 | 1 | **85,44** |
| STFCL 2020 K16 | TA51000208L2016 | 20 | 20 | 125 | 23 | 25 | 1 | **88,04** |
| STFCL 2525 M16 | TA51000208L2516 | 25 | 25 | 150 | 23 | 32 | 1 | **95,33** |
| STFCR 0808 D09 | TA51000208R0809 | 8 | 8 | 60 | 10 | 10 | 1 | **78,15** |
| STFCR 1010 E09 | TA51000208R1009 | 10 | 10 | 70 | 10 | 12 | 1 | **78,15** |
| STFCR 1212 F11 | TA51000208R1211 | 12 | 12 | 80 | 14 | 16 | 1 | **78,15** |
| STFCR 1616 H11 | TA51000208R1611 | 16 | 16 | 100 | 15 | 20 | 1 | **85,44** |
| STFCR 1616 H16 | TA51000208R1616 | 16 | 16 | 100 | 20 | 20 | 1 | **85,44** |
| STFCR 2020 K16 | TA51000208R2016 | 20 | 20 | 125 | 23 | 25 | 1 | **88,04** |
| STFCR 2525 M16 | TA51000208R2516 | 25 | 25 | 150 | 23 | 32 | 1 | **95,33** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| TC.. 0902.. | - | - | TA009P020800000 | TA07CP020800000 |
| TC.. 1102.. | - | - | TA003P020800000 | TA08CP020800000 |
| TC.. 16T3.. | TA09ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna STGC R/L TA5101, stelo in acciaio



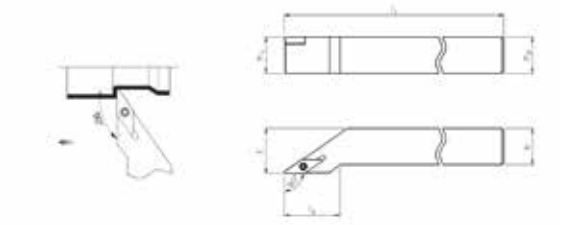


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| STGCL 0808 D09 | TA51010208L0809 | 8 | 8 | 60 | 10 | 10 | 1 | **78,15** |
| STGCL 1010 E09 | TA51010208L1009 | 10 | 10 | 70 | 10 | 12 | 1 | **78,15** |
| STGCL 1212 F11 | TA51010208L1211 | 12 | 12 | 80 | 15 | 16 | 1 | **78,15** |
| STGCL 1616 H11 | TA51010208L1611 | 16 | 16 | 100 | 15 | 20 | 1 | **85,44** |
| STGCL 1616 H16 | TA51010208L1616 | 16 | 16 | 100 | 20 | 20 | 1 | **85,44** |
| STGCL 2020 K16 | TA51010208L2016 | 20 | 20 | 125 | 20 | 25 | 1 | **103,13** |
| STGCL 2525 M16 | TA51010208L2516 | 25 | 25 | 150 | 20 | 32 | 1 | **109,38** |
| STGCR 0808 D09 | TA51010208R0809 | 8 | 8 | 60 | 10 | 10 | 1 | **78,15** |
| STGCR 1010 E09 | TA51010208R1009 | 10 | 10 | 70 | 10 | 12 | 1 | **78,15** |
| STGCR 1212 F11 | TA51010208R1211 | 12 | 12 | 80 | 15 | 16 | 1 | **78,15** |
| STGCR 1616 H11 | TA51010208R1611 | 16 | 16 | 100 | 15 | 20 | 1 | **85,44** |
| STGCR 1616 H16 | TA51010208R1616 | 16 | 16 | 100 | 20 | 20 | 1 | **85,44** |
| STGCR 2020 K16 | TA51010208R2016 | 20 | 20 | 125 | 20 | 25 | 1 | **103,13** |
| STGCR 2525 M16 | TA51010208R2516 | 25 | 25 | 150 | 20 | 32 | 1 | **109,38** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| TC.. 0902.. | - | - | TA009P020800000 | TA07CP020800000 |
| TC.. 1102... | - | - | TA003P020800000 | TA08CP020800000 |
| TC.. 16T3.. | TA09ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SVGC R/L TA5118, stelo in acciaio, mini tool

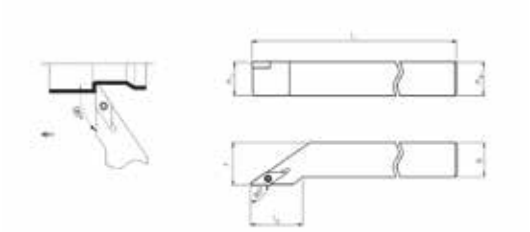




| ISO | Codice | h1=h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVGCL 0808 K07 | TA51180208L0807 | 8 | 8 | 125 | 60 | 8,5 | 1 | **68,75** |
| SVGCL 1010 M07 | TA51180208L1007 | 10 | 10 | 150 | 70 | 10,5 | 1 | **73,44** |
| SVGCL 1212 M07 | TA51180208L1207 | 12 | 12 | 150 | 80 | 12,5 | 1 | **78,13** |
| SVGCR 0808 K07 | TA51180208R0807 | 8 | 8 | 125 | 60 | 8,5 | 1 | **68,75** |
| SVGCR 1010 M07 | TA51180208R1007 | 10 | 10 | 150 | 70 | 10,5 | 1 | **73,44** |
| SVGCR 1212 M07 | TA51180208R1207 | 12 | 12 | 150 | 80 | 12,5 | 1 | **78,13** |

## Utensile di tornitura esterna SVLC R/L TA5113, stelo in acciaio, mini tool



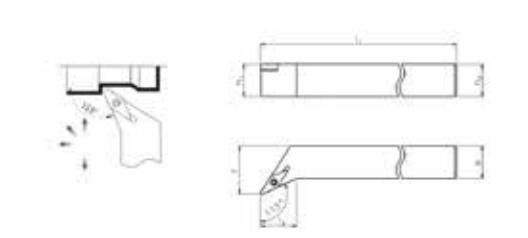


| ISO | Codice | h1=h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVLCL 0808 D07 | TA51130208L0807 | 8 | 8 | 60 | 15 | 10 | 1 | **68,75** |
| SVLCL 1010 E07 | TA51130208L1007 | 10 | 10 | 70 | 15 | 12 | 1 | **73,44** |
| SVLCL 1212 F07 | TA51130208L1207 | 12 | 12 | 80 | 18 | 16 | 1 | **78,13** |
| SVLCR 0808 D07 | TA51130208R0807 | 8 | 8 | 60 | 15 | 10 | 1 | **68,75** |
| SVLCR 1010 E07 | TA51130208R1007 | 10 | 10 | 70 | 15 | 12 | 1 | **73,44** |
| SVLCR 1212 F07 | TA51130208R1207 | 12 | 12 | 80 | 18 | 16 | 1 | **78,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |

## Utensile di tornitura esterna SVXC R/L TA5114, stelo in acciaio, mini tool

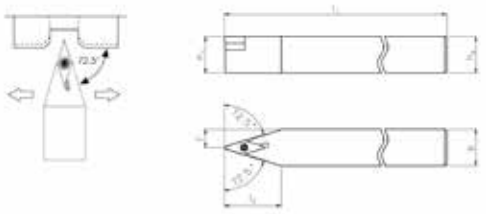




| ISO | Codice | h1=h2 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVXCL 0808 D07 | TA51140208L0807 | 8 | 8 | 60 | 15 | 10 | 1 | **68,75** |
| SVXCL 1010 E07 | TA51140208L1007 | 10 | 10 | 70 | 15 | 12 | 1 | **73,44** |
| SVXCL 1212 F07 | TA51140208L1207 | 12 | 12 | 80 | 18 | 16 | 1 | **78,13** |
| SVXCR 0808 D07 | TA51140208R0807 | 8 | 8 | 60 | 15 | 10 | 1 | **68,75** |
| SVXCR 1010 E07 | TA51140208R1007 | 10 | 10 | 70 | 15 | 12 | 1 | **73,44** |
| SVXCR 1212 F07 | TA51140208R1207 | 12 | 12 | 80 | 18 | 16 | 1 | **78,13** |

## Utensile di tornitura esterna SVVCN TA5111, stelo in acciaio, mini tool



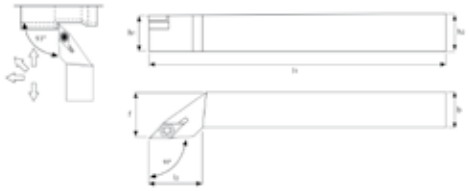


| ISO | Codice | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVVCN 0808 K07 | TA51110208N0807 | 8 | 8 | 125 | 15 | 4 | 1 | **68,75** |
| SVVCN 1010 M07 | TA51110208N1007 | 10 | 10 | 150 | 16 | 5 | 1 | **73,44** |
| SVVCN 1212 M07 | TA51110208N1207 | 12 | 12 | 150 | 19 | 6 | 1 | **78,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |

## Utensile di tornitura esterna SVJC R/L TA5110, stelo in acciaio

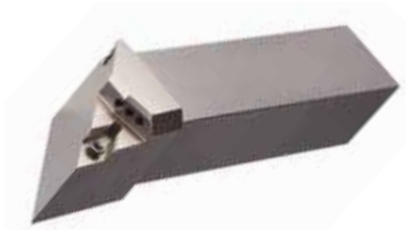




| ISO | Codice | h1 | h2 | b | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVJCL 1212 F11 | TA51100208L1211 | 12 | 12 | 12 | 80 | 21,5 | 1 | **93,75** |
| SVJCL 1616 H11 | TA51100208L1611 | 16 | 16 | 16 | 100 | 21,5 | 1 | **93,75** |
| SVJCL 2020 K11 | TA51100208L2011 | 20 | 20 | 20 | 125 | 23 | 1 | **101,56** |
| SVJCL 2020 K16 | TA51100208L2016 | 20 | 20 | 20 | 125 | 29,5 | 1 | **101,56** |
| SVJCL 2525 M11 | TA51100208L2511 | 25 | 25 | 25 | 150 | 25,5 | 1 | **112,50** |
| SVJCL 2525 M16 | TA51100208L2516 | 25 | 25 | 25 | 150 | 32,5 | 1 | **112,50** |
| SVJCR 1212 F11 | TA51100208R1211 | 12 | 12 | 12 | 80 | 21,5 | 1 | **93,75** |
| SVJCR 1616 H11 | TA51100208R1611 | 16 | 16 | 16 | 100 | 21,5 | 1 | **93,75** |
| SVJCR 2020 K11 | TA51100208R2011 | 20 | 20 | 20 | 125 | 23 | 1 | **101,56** |
| SVJCR 2020 K16 | TA51100208R2016 | 20 | 20 | 20 | 125 | 29,5 | 1 | **101,56** |
| SVJCR 2525 M11 | TA51100208R2511 | 25 | 25 | 25 | 150 | 25,5 | 1 | **112,50** |
| SVJCR 2525 M16 | TA51100208R2516 | 25 | 25 | 25 | 150 | 32,5 | 1 | **112,50** |

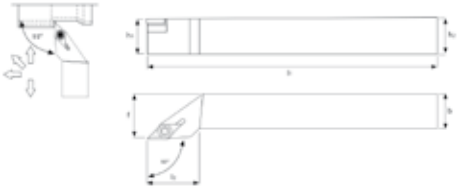
## Utensile di tornitura esterna SVJC R/L TA5120, stelo in acciaio, con fori di refrigerazione e raccordo G 1/8 incluso







incluso

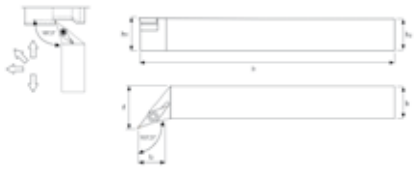


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVJCL 1616 H11-IK G1/8 | TA51200208L1611 | 16 | 16 | 100 | 21,5 | 20 | 1 | **253,13** |
| SVJCL 2020 K11-IK G1/8 | TA51200208L2011 | 20 | 20 | 125 | 23 | 25 | 1 | **264,06** |
| SVJCL 2020 K16-IK G1/8 | TA51200208L2016 | 20 | 20 | 125 | 29,5 | 25 | 1 | **264,06** |
| SVJCL 2525 M11-IK G1/8 | TA51200208L2516 | 25 | 25 | 150 | 32,5 | 32 | 1 | **276,56** |
| SVJCR 1616 H11-IK G1/8 | TA51200208R1611 | 16 | 16 | 100 | 21,5 | 20 | 1 | **253,13** |
| SVJCR 2020 K11-IK G1/8 | TA51200208R2011 | 20 | 20 | 125 | 23 | 25 | 1 | **264,06** |
| SVJCR 2020 K16-IK G1/8 | TA51200208R2016 | 20 | 20 | 125 | 29,5 | 25 | 1 | **264,06** |
| SVJCR 2525 M11-IK G1/8 | TA51200208R2516 | 25 | 25 | 150 | 32,5 | 32 | 1 | **276,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VC.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VC.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SVHC R/L TA5112, stelo in acciaio

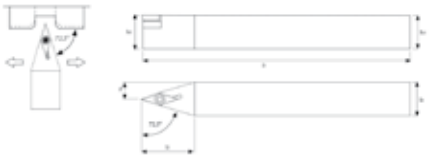




| ISO | Codice | h1 | h2 | b | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVHCL 1212 F11 | TA51120204L1211 | 12 | 12 | 12 | 80 | 11,4 | 1 | **93,75** |
| SVHCL 1616 H11 | TA51120208L1611 | 16 | 16 | 16 | 100 | 11,4 | 1 | **93,75** |
| SVHCL 2020 K11 | TA51120208L2011 | 20 | 20 | 20 | 125 | 14,6 | 1 | **101,56** |
| SVHCL 2020 K16 | TA51120208L2016 | 20 | 20 | 20 | 125 | 13,2 | 1 | **112,50** |
| SVHCL 2525 M11 | TA51120208L2511 | 25 | 25 | 25 | 150 | 20,9 | 1 | **112,50** |
| SVHCL 2525 M16 | TA51120208L2516 | 25 | 25 | 25 | 150 | 19,6 | 1 | **126,56** |
| SVHCR 1212 F11 | TA51120204R1211 | 12 | 12 | 12 | 80 | 11,4 | 1 | **93,75** |
| SVHCR 1616 H11 | TA51120208R1611 | 16 | 16 | 16 | 100 | 11,4 | 1 | **93,75** |
| SVHCR 2020 K11 | TA51120208R2011 | 20 | 20 | 20 | 125 | 14,6 | 1 | **101,56** |
| SVHCR 2525 M16 | TA51120208R2516 | 25 | 25 | 25 | 150 | 19,6 | 1 | **126,56** |
| SVHCR 2020 K16 | TA51120208R2016 | 20 | 20 | 20 | 125 | 13,2 | 1 | **112,50** |
| SVHCR 2525 M11 | TA51120208R2511 | 25 | 25 | 25 | 150 | 20,9 | 1 | **112,50** |

## Utensile di tornitura esterna SVVCN TA5111, stelo in acciaio



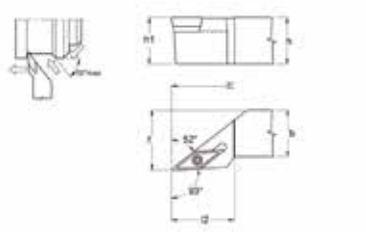


| ISO | Codice | h1 | h2 | b | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVVCN 1212 F11 | TA51110208N1211 | 12 | 12 | 12 | 80 | 19 | 1 | **84,38** |
| SVVCN 1616 H11 | TA51110208N1611 | 16 | 16 | 16 | 100 | 25 | 1 | **90,63** |
| SVVCN 2020 K11 | TA51110208N2011 | 20 | 20 | 20 | 125 | 32 | 1 | **92,19** |
| SVVCN 2525 M11 | TA51110208N2016 | 25 | 25 | 25 | 150 | 40 | 1 | **101,56** |
| SVVCN 2020 K16 | TA51110208N2511 | 20 | 20 | 20 | 125 | 32 | 1 | **103,13** |
| SVVCN 2525 M16 | TA51110208N2516 | 25 | 25 | 25 | 150 | 40 | 1 | **112,50** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VC.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VC.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SVJB R/L TA5115, stelo in acciaio

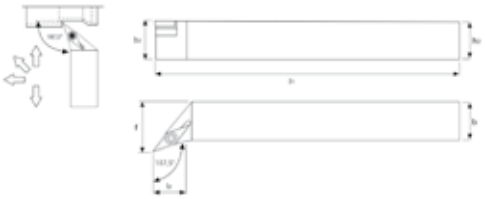




| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVJBL 1616 H11 | TA51150208L1611 | 16 | 16 | 100 | 21,5 | 20 | 1 | **93,75** |
| SVJBL 1616 H16 | TA51150208L1616 | 16 | 16 | 100 | 30 | 20 | 1 | **102,63** |
| SVJBL 2020 K11 | TA51150208L2011 | 20 | 20 | 125 | 23 | 25 | 1 | **101,56** |
| SVJBL 2020 K16 | TA51150208L2016 | 20 | 20 | 125 | 30 | 25 | 1 | **101,56** |
| SVJBL 2525 M16 | TA51150208L2516 | 25 | 25 | 150 | 33 | 32 | 1 | **127,85** |
| SVJBR 1616 H11 | TA51150208R1611 | 16 | 16 | 100 | 21,5 | 20 | 1 | **93,75** |
| SVJBR 1616 H16 | TA51150208R1616 | 16 | 16 | 100 | 30 | 20 | 1 | **102,63** |
| SVJBR 2020 K11 | TA51150208R2011 | 20 | 20 | 125 | 23 | 25 | 1 | **101,56** |
| SVJBR 2020 K16 | TA51150208R2016 | 20 | 20 | 125 | 30 | 25 | 1 | **101,56** |
| SVJBR 2525 M16 | TA51150208R2516 | 25 | 25 | 150 | 33 | 32 | 1 | **127,85** |

## Utensile di tornitura esterna SVHB R/L TA5117, stelo in acciaio



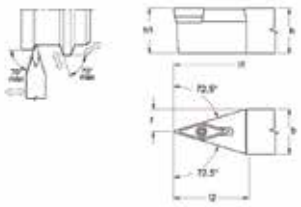


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVHBL 1212 F11 | TA51170208L1211 | 12 | 12 | 80 | 13,4 | 16 | 1 | **93,75** |
| SVHBL 1616 H11 | TA51170208L1611 | 16 | 16 | 100 | 13,4 | 20 | 1 | **93,75** |
| SVHBL 2020 K11 | TA51170208L2011 | 20 | 20 | 125 | 16,6 | 25 | 1 | **101,56** |
| SVHBL 2020 K16 | TA51170208L2016 | 20 | 20 | 125 | 15,9 | 25 | 1 | **112,50** |
| SVHBL 2525 M16 | TA51170208L2516 | 25 | 25 | 150 | 20,6 | 32 | 1 | **126,56** |
| SVHBR 1212 F11 | TA51170208R1211 | 12 | 12 | 80 | 13,4 | 16 | 1 | **93,75** |
| SVHBR 1616 H11 | TA51170208R1611 | 16 | 16 | 100 | 13,4 | 20 | 1 | **93,75** |
| SVHBR 2020 K11 | TA51170208R2011 | 20 | 20 | 125 | 16,6 | 25 | 1 | **101,56** |
| SVHBR 2020 K16 | TA51170208R2016 | 20 | 20 | 125 | 15,9 | 25 | 1 | **112,50** |
| SVHBR 2525 M16 | TA51170208R2516 | 25 | 25 | 150 | 20,6 | 32 | 1 | **126,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VB.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VB.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura esterna SVVBN TA5116, stelo in acciaio



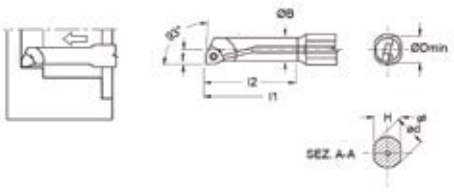


| ISO | Codice | h=h1 | b | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SVVBN 1212 F11 | TA51160208N1211 | 12 | 12 | 80 | 18,5 | 6 | 1 | **84,38** |
| SVVBN 1616 H11 | TA51160208N1611 | 16 | 16 | 100 | 24,7 | 8 | 1 | **90,63** |
| SVVBN 2020 K11 | TA51160208N2011 | 20 | 20 | 125 | 32 | 10 | 1 | **92,19** |
| SVVBN 2020 K 16 | TA51160208N2016 | 20 | 20 | 125 | 34 | 10 | 1 | **101,56** |
| SVVBN 2525 M11 | TA51160208N2511 | 25 | 25 | 150 | 38,9 | 12,5 | 1 | **103,13** |
| SVVBN 2525 M16 | TA51160208N2516 | 25 | 25 | 150 | 42 | 12,5 | 1 | **127,85** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VB.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VB.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000 | TA15CP020800000 |

## Utensile di tornitura interna A..SWUC R/L TA6120, stelo in acciaio



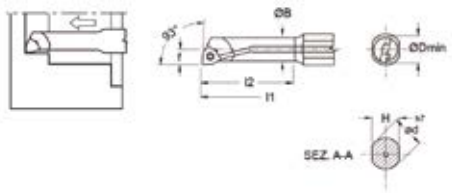



| ISO | Codice | ØDmin | Ød | ØB | f | H | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| A 0508H SWUCL 02 | TA61200208L0508 | 5,8 | 8 | 5 | 2,9 | 7 | 100 | 16 | 1 | **84,38** |
| A 0608H SWUCL 02 | TA61200208L0608 | 7,8 | 8 | 6 | 3,9 | 7 | 100 | 24 | 1 | **84,38** |
| A 0508H SWUCR 02 | TA61200208R0508 | 5,8 | 8 | 5 | 2,9 | 7 | 100 | 16 | 1 | **84,38** |
| A 0608H SWUCR 02 | TA61200208R0608 | 7,8 | 8 | 6 | 3,9 | 7 | 100 | 24 | 1 | **84,38** |

## Utensile di tornitura interna E..SWUC R/L TA8120, stelo in metallo duro

MD



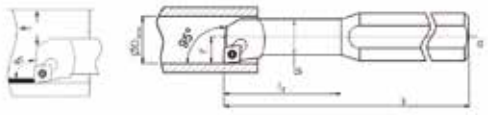



| ISO | Codice | ØDmin | Ød | ØB | f | H | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| E 0508H SWUCL 02 | TA81200208L0508 | 5,8 | 8 | 5 | 2,9 | 7 | 100 | 24 | 1 | **246,88** |
| E 0608H SWUCL 02 | TA81200208L0608 | 7,8 | 8 | 6 | 3,9 | 7 | 100 | 30 | 1 | **246,88** |
| E 0508H SWUCR 02 | TA81200208R0508 | 5,8 | 8 | 5 | 2,9 | 7 | 100 | 24 | 1 | **246,88** |
| E 0608H SWUCR 02 | TA81200208R0608 | 7,8 | 8 | 6 | 3,9 | 7 | 100 | 30 | 1 | **246,88** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| WC.. 0201.. | TA180V020800000 | TA06TB060400000 |

## Utensile di tornitura interna A..SCLD R/L TA6075, stelo in acciaio, mini tool



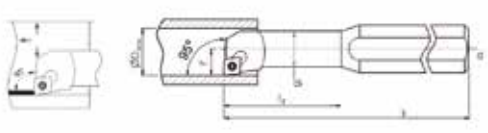


| ISO | Codice | d | l1 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|
| A 0408H SCLDL 04 | TA60750204L0408 | 8 | 4 | 100 | 16 | 1 | **73,44** |
| A 0508H SCLDL 04 | TA60750204L0508 | 8 | 5 | 100 | 20 | 1 | **73,44** |
| A 0608H SCLDL 04 | TA60750204L0608 | 8 | 6 | 100 | 24 | 1 | **73,44** |
| A 0408H SCLDR 04 | TA60750204R0408 | 8 | 4 | 100 | 16 | 1 | **73,44** |
| A 0508H SCLDR 04 | TA60750204R0508 | 8 | 5 | 100 | 20 | 1 | **73,44** |
| A 0608H SCLDR 04 | TA60750204R0608 | 8 | 6 | 100 | 24 | 1 | **73,44** |

## Utensile di tornitura interna E..SCLD R/L TA8075, stelo in metallo duro, mini tool

MD



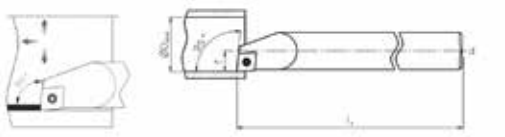


| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 0408H SCLDL 04 | TA80750204L0408 | 8 | 4 | 100 | 24 | 2,4 | 4,8 | 1 | **204,69** |
| E 0508H SCLDL 04 | TA80750204L0508 | 8 | 5 | 100 | 30 | 2,9 | 5,8 | 1 | **204,69** |
| E 0608H SCLDL 04 | TA80750204L0608 | 8 | 6 | 100 | 36 | 3,4 | 6,8 | 1 | **204,69** |
| E 0408H SCLDR 04 | TA80750204R0408 | 8 | 4 | 100 | 24 | 2,4 | 4,8 | 1 | **204,69** |
| E 0508H SCLDR 04 | TA80750204R0508 | 8 | 5 | 100 | 30 | 2,9 | 5,8 | 1 | **204,69** |
| E 0608H SCLDR 04 | TA80750204R0608 | 8 | 6 | 100 | 36 | 3,4 | 6,8 | 1 | **204,69** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CD.. 0401.. | TA180V020800000 | TA06TB060400000 |

## Utensile di tornitura interna A..SCLD R/L TA6075, stelo in acciaio, mini tool



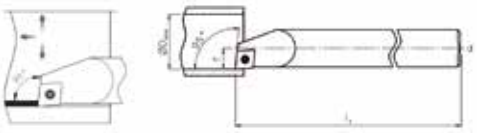


| ISO | Codice | d | l1 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|
| A 04E SCLDL 04 | TA60750204L0040 | 4 | 70 | 2,4 | 4,8 | 1 | **78,13** |
| A 05E SCLDL 04 | TA60750204L0050 | 5 | 70 | 2,9 | 5,8 | 1 | **78,13** |
| A 06F SCLDL 04 | TA60750204L0060 | 6 | 80 | 3,4 | 6,8 | 1 | **81,25** |
| A 04E SCLDR 04 | TA60750204R0040 | 4 | 70 | 2,4 | 4,8 | 1 | **78,13** |
| A 05E SCLDR 04 | TA60750204R0050 | 5 | 70 | 2,9 | 5,8 | 1 | **78,13** |
| A 06F SCLDR 04 | TA60750204R0060 | 6 | 80 | 3,4 | 6,8 | 1 | **81,25** |

## Utensile di tornitura interna E..SCLD R/L TA8075, stelo in metallo duro, mini tool

MD



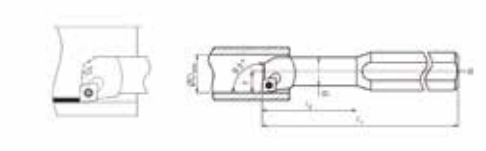


| ISO | Codice | d | l1 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|
| E 04F SCLDL 04 | TA80750204L0040 | 4 | 80 | 2,4 | 4,8 | 1 | **159,38** |
| E 05F SCLDL 04 | TA80750204L0050 | 5 | 80 | 2,9 | 5,8 | 1 | **159,38** |
| E 06G SCLDL 04 | TA80750204L0060 | 6 | 95 | 3,4 | 6,8 | 1 | **159,38** |
| E 04F SCLDR 04 | TA80750204R0040 | 4 | 80 | 2,4 | 4,8 | 1 | **159,38** |
| E 05F SCLDR 04 | TA80750204R0050 | 5 | 80 | 2,9 | 5,8 | 1 | **159,38** |
| E 06G SCLDR 04 | TA80750204R0060 | 6 | 95 | 3,4 | 6,8 | 1 | **159,38** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CD.. 0401.. | TA180V020800000 | TA06TB060400000 |

## Utensile di tornitura interna A..SCUP R/L TA6077, stelo in acciaio, mini tool



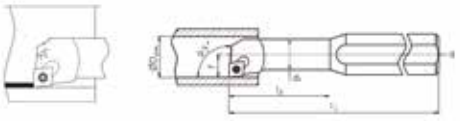


| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 0608H SCUPL 05 | TA60770204L0608 | 8 | 6 | 100 | 20 | 4,5 | 8 | 1 | **73,44** |
| A 0810J SCUPL 05 | TA60770204L0810 | 10 | 8 | 110 | 26 | 6 | 11 | 1 | **76,56** |
| A 1012K SCUPL 05 | TA60770204L1012 | 12 | 10 | 125 | 32 | 7 | 13 | 1 | **78,13** |
| A 1216M SCUPL 05 | TA60770204L1216 | 16 | 12 | 150 | 40 | 9 | 16 | 1 | **92,19** |
| A 0608H SCUPR 05 | TA60770204R0608 | 8 | 6 | 100 | 20 | 4,5 | 8 | 1 | **73,44** |
| A 0810J SCUPR 05 | TA60770204R0810 | 10 | 8 | 110 | 26 | 6 | 11 | 1 | **76,56** |
| A 1012K SCUPR 05 | TA60770204R1012 | 12 | 10 | 125 | 32 | 7 | 13 | 1 | **78,13** |
| A 1216M SCUPR 05 | TA60770204R1216 | 16 | 12 | 150 | 40 | 9 | 16 | 1 | **92,19** |

## Utensile di tornitura interna E..SCUP R/L TA8077, stelo in metallo duro, mini tool

MD

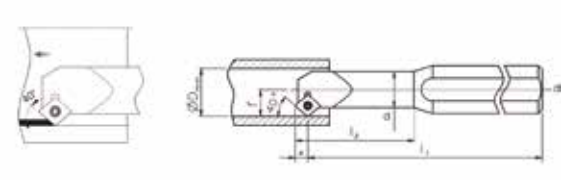




| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 0608H SCUPL 05 | TA80770204L0608 | 8 | 6 | 100 | 28 | 4,5 | 8 | 1 | **204,69** |
| E 0810J SCUPL 05 | TA80770204L0810 | 10 | 8 | 110 | 36 | 6 | 11 | 1 | **223,44** |
| E 1012K SCUPL 05 | TA80770204L1012 | 12 | 10 | 125 | 44 | 7 | 13 | 1 | **289,06** |
| E 1216M SCUPL 05 | TA80770204L1216 | 16 | 12 | 150 | 55 | 9 | 16 | 1 | **465,63** |
| E 0608H SCUPR 05 | TA80770204R0608 | 8 | 6 | 100 | 28 | 4,5 | 8 | 1 | **204,69** |
| E 0810J SCUPR 05 | TA80770204R0810 | 10 | 8 | 110 | 36 | 6 | 11 | 1 | **223,44** |
| E 1012K SCUPR 05 | TA80770204R1012 | 12 | 10 | 125 | 44 | 7 | 13 | 1 | **289,06** |
| E 1216M SCUPL 05 | TA80770204R1216 | 16 | 12 | 150 | 55 | 9 | 16 | 1 | **465,63** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CP.. 05T1.. | TA005V060400000 | TA06TB060400000 |

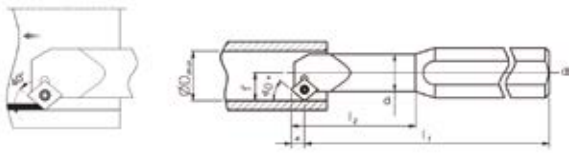
## Utensile di tornitura interna A..SCXP R/L TA6078, stelo in acciaio, mini tool



| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 0608H SCXPL 05 | TA60780204L0608 | 8 | 6 | 100 | 20 | 4,5 | 8,5 | 1 | **73,44** |
| A 0810J SCXPL 05 | TA60780204L0810 | 10 | 8 | 110 | 26 | 6 | 11 | 1 | **76,56** |
| A 1012K SCXPL 05 | TA60780204L1012 | 12 | 10 | 125 | 32 | 7 | 13 | 1 | **78,13** |
| A 1216M SCXPL 05 | TA60780204L1216 | 16 | 12 | 150 | 40 | 9 | 16 | 1 | **92,19** |
| A 0608H SCXPR 05 | TA60780204R0608 | 8 | 6 | 100 | 20 | 4,5 | 8,5 | 1 | **73,44** |
| A 0810J SCXPR 05 | TA60780204R0810 | 10 | 8 | 110 | 26 | 6 | 11 | 1 | **76,56** |
| A 1012K SCXPR 05 | TA60780204R1012 | 12 | 10 | 125 | 32 | 7 | 13 | 1 | **78,13** |
| A 1216M SCXPR 05 | TA60780204R1216 | 16 | 12 | 150 | 40 | 9 | 16 | 1 | **92,19** |

## Utensile di tornitura interna E..SCXP R/L TA8078, stelo in metallo duro, mini tool

MD

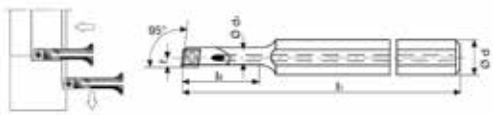


| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 0608H SCXPL 05 | TA80780204L0608 | 8 | 6 | 100 | 28 | 4,5 | 8,5 | 1 | **204,69** |
| E 0810J SCXPL 05 | TA80780204L0810 | 10 | 8 | 110 | 36 | 6 | 11 | 1 | **223,44** |
| E 1012K SCXPL 05 | TA80780204L1012 | 12 | 10 | 125 | 44 | 7 | 13 | 1 | **289,06** |
| E 1216M SCXPL 05 | TA80780204L1216 | 16 | 12 | 150 | 55 | 9 | 16 | 1 | **465,63** |
| E 0608H SCXPR 05 | TA80780204R0608 | 8 | 6 | 100 | 28 | 4,5 | 8,5 | 1 | **204,69** |
| E 0810J SCXPR 05 | TA80780204R0810 | 10 | 8 | 110 | 36 | 6 | 11 | 1 | **223,44** |
| E 1012K SCXPR 05 | TA80780204R1012 | 12 | 10 | 125 | 44 | 7 | 13 | 1 | **289,06** |
| E 1216M SCXPR 05 | TA80780204R1216 | 16 | 12 | 150 | 55 | 9 | 16 | 1 | **465,63** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CP.. 05T1.. | TA005V060400000 | TA06TB060400000 |

## Utensile di tornitura interna A..SCLC R/L TA6070, stelo in acciaio





| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 0608H SCLCL 06 | TA60700208L0608 | 8 | 6 | 100 | 25 | 4 | 8 | 1 | **90,63** |
| A 0810J SCLCL 06 | TA60700208L0810 | 10 | 8 | 110 | 32 | 6 | 12 | 1 | **90,63** |
| A 1012K SCLCL 06 | TA60700208L1012 | 12 | 10 | 125 | 38 | 7 | 14 | 1 | **90,63** |
| A 1216M SCLCL 06 | TA60700208L1216 | 16 | 12 | 150 | 50 | 9 | 18 | 1 | **90,63** |
| A 0608H SCLCR 06 | TA60700208R0608 | 8 | 6 | 100 | 25 | 4 | 8 | 1 | **90,63** |
| A 0810J SCLCR 06 | TA60700208R0810 | 10 | 8 | 110 | 32 | 6 | 12 | 1 | **90,63** |
| A 1012K SCLCR 06 | TA60700208R1012 | 12 | 10 | 125 | 38 | 7 | 14 | 1 | **90,63** |
| A 1216M SCLCR 06 | TA60700208R1216 | 16 | 12 | 150 | 50 | 9 | 18 | 1 | **90,63** |

## Set di 4 utensili di tornitura interna SCLC R/L, con fori di refrigerazione



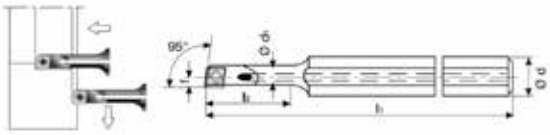
| Codice | Inserto | Descrizione | | € / cad. |
|---|---|---|---|---|
| TA60700208L4SET | CC..0602.. | Set composto da 1 pz. per tipo: A0608H SCLCL 06, A0810J SCLCL 06, A1012K, SCLCL 06, A1216M SCLCL 06 | 1 | **278,13** |
| TA60700208R4SET | CC..0602.. | Set composto da 1 pz. per tipo: A0608H SCLCR 06, A0810J SCLCR 06, A1012K, SCLCR 06, A1216M SCLCR 06 | 1 | **278,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0602.. | TA100P020800000 | TA07CP020800000 |

## Utensile di tornitura interna AH..SCLC R/L TA7070, stelo in HSS

HSS



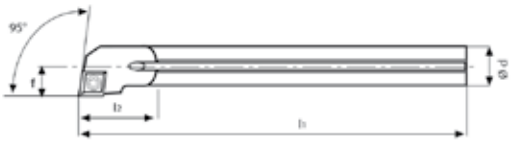


| ISO | Codice | d | d1 | l1 | l2 | f | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 0608H SCLCL 06 | TA70700204L0608 | 8 | 6 | 100 | 25 | 8 | 1 | **115,63** |
| AH 0810J SCLCL 06 | TA70700204L0810 | 10 | 8 | 110 | 32 | 12 | 1 | **120,31** |
| AH 1012K SCLCL 06 | TA70700204L1012 | 12 | 10 | 125 | 38 | 14 | 1 | **126,56** |
| AH 1216M SCLCL 06 | TA70700204L1216 | 16 | 12 | 150 | 50 | 18 | 1 | **160,94** |
| AH 0608H SCLCR 06 | TA70700204R0608 | 8 | 6 | 100 | 25 | 8 | 1 | **115,63** |
| AH 0810J SCLCR 06 | TA70700204R0810 | 10 | 8 | 110 | 32 | 12 | 1 | **120,31** |
| AH 1012K SCLCR 06 | TA70700204R1012 | 12 | 10 | 125 | 38 | 14 | 1 | **126,56** |
| AH 1216M SCLCR 06 | TA70700204R1216 | 16 | 12 | 150 | 50 | 18 | 1 | **160,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |

## Utensile di tornitura interna A..SCLC R/L TA6070, stelo in acciaio






| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 08H SCLCL 06 | TA60700208L0080 | 8 | 100 | 12 | 6 | 12 | 1 | **90,63** |
| A 10K SCLCL 06 | TA60700208L0100 | 10 | 125 | 16 | 7 | 14 | 1 | **90,63** |
| A 12L SCLCL 06 | TA60700208L0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q SCLCL 09 | TA60700208L0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SCLCL 09 | TA60700208L0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SCLCL 12 | TA60700208L0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SCLCL 12 | TA60700208L0320 | 32 | 250 | 22 | 22 | 40 | 1 | **268,75** |
| A 40T SCLCL 12 | TA60700208L0400 | 40 | 300 | 22 | 27 | 49 | 1 | **326,56** |
| A 08H SCLCR 06 | TA60700208R0080 | 8 | 100 | 12 | 6 | 12 | 1 | **90,63** |
| A 10K SCLCR 06 | TA60700208R0100 | 10 | 125 | 16 | 7 | 14 | 1 | **90,63** |
| A 12L SCLCR 06 | TA60700208R0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q SCLCR 09 | TA60700208R0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SCLCR 09 | TA60700208R0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SCLCR 12 | TA60700208R0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SCLCR 12 | TA60700208R0320 | 32 | 250 | 22 | 22 | 40 | 1 | **268,75** |
| A 40T SCLCR 12 | TA60700208R0400 | 40 | 300 | 22 | 27 | 49 | 1 | **326,56** |

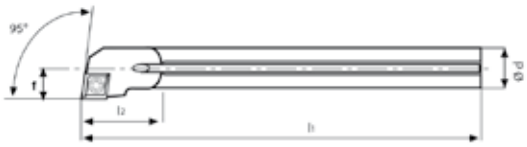
|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| CC.. 0602.. | - | - | TA100P020800000 | TA08CP020800000<br>TA07CP020800000** |
| CC.. 09T3.. | - | - | TA022P020800000 | TA15CP020800000 |
| CC.. 1204.. | TA01ST020800000 | TA11VS020800000 | TA001P020800000<br>TA024V020800000* | TA20CP020800000<br>TA20CX020800000* |

* per utensile A 25R
** per utensile A 08H

## Utensile di tornitura interna AH..SCLC R/L TA7070, stelo in HSS

HSS





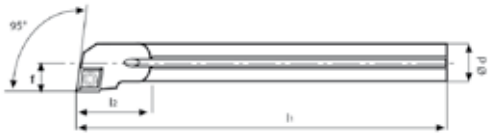

| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 0410H SCLCL 03 | TA70700204L0040 | 10 | 100 | 24 | 2,5 | 5 | 1 | **185,94** |
| AH 0610H SCLCL 03 | TA70700204L0060 | 10 | 100 | 24 | 2,5 | 7 | 1 | **189,06** |
| AH 08K SCLCL 06 | TA70700204L0080 | 8 | 125 | 20 | 5 | 10 | 1 | **137,50** |
| AH 10K SCLCL 06 | TA70700204L0100 | 10 | 125 | 20 | 6 | 12 | 1 | **139,06** |
| AH 12M SCLCL 06 | TA70700204L0120 | 12 | 150 | 20 | 7 | 14 | 1 | **160,94** |
| AH 16Q SCLCL 09 | TA70700204L0160 | 16 | 180 | 27 | 11 | 18 | 1 | **235,94** |
| AH 20R SCLCL 09 | TA70700204L0200 | 20 | 200 | 27 | 13 | 23 | 1 | **259,38** |
| AH 25R SCLCL 12 | TA70700204L0250 | 25 | 200 | 40 | 15,5 | 28 | 1 | **357,81** |
| AH 0410H SCLCR 03 | TA70700204R0040 | 10 | 100 | 24 | 2,5 | 5 | 1 | **185,94** |
| AH 0610H SCLCR 03 | TA70700204R0060 | 10 | 100 | 24 | 2,5 | 7 | 1 | **189,06** |
| AH 08K SCLCR 06 | TA70700204R0080 | 8 | 125 | 20 | 5 | 10 | 1 | **137,50** |
| AH 10K SCLCR 06 | TA70700204R0100 | 10 | 125 | 20 | 6 | 12 | 1 | **139,06** |
| AH 12M SCLCR 06 | TA70700204R0120 | 12 | 150 | 20 | 7 | 14 | 1 | **160,94** |
| AH 16Q SCLCR 09 | TA70700204R0160 | 16 | 180 | 27 | 11 | 18 | 1 | **235,94** |
| AH 20R SCLCR 09 | TA70700204R0200 | 20 | 200 | 27 | 13 | 23 | 1 | **259,38** |
| AH 25R SCLCR 12 | TA70700204R0250 | 25 | 200 | 40 | 15,5 | 28 | 1 | **357,81** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0301.. | TA014V020400000 | TA06TB060400000 |
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |
| CC.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Utensile di tornitura interna E..SCLC R/L TA8070, stelo in metallo duro

MD






| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| C 04G SCLCL 03 | TA80700204L0040 | 4 | 90 | 10 | 2,5 | 5 | 1 | **246,88** |
| C 05H SCLCL 03 | TA80700204L0050 | 5 | 100 | 10 | 3 | 6 | 1 | **246,88** |
| E 06J SCLCL 03 | TA80700204L0060 | 6 | 110 | 10 | 3,5 | 7 | 1 | **253,13** |
| E 08K SCLCL 06 | TA80700204L0080 | 8 | 125 | 12 | 6 | 9 | 1 | **215,63** |
| E 10K SCLCL 06 | TA80700204L0100 | 10 | 125 | 16 | 7 | 11 | 1 | **215,63** |
| E 12M SCLCL 06 | TA80700204L0120 | 12 | 150 | 20 | 9 | 13 | 1 | **239,06** |
| E 16R SCLCL 09 | TA80700204L0160 | 16 | 180 | 25 | 11 | 18 | 1 | **418,75** |
| E 20S SCLCL 09 | TA80700204L0200 | 20 | 200 | 32 | 13 | 22 | 1 | **910,94** |
| E 25S SCLCL 12 | TA80700204L0250 | 25 | 200 | 40 | 17 | 30 | 1 | **1.510,94** |
| E 32U SCLCL 12 | TA80700204L0320 | 32 | 250 | 22 | 22 | 40 | 1 | **2.740,63** |
| C 04G SCLCR 03 | TA80700204R0040 | 4 | 90 | 10 | 2,5 | 5 | 1 | **246,88** |
| C 05H SCLCR 03 | TA80700204R0050 | 5 | 100 | 10 | 3 | 6 | 1 | **246,88** |
| E 06J SCLCR 03 | TA80700204R0060 | 6 | 110 | 10 | 3,5 | 7 | 1 | **253,13** |
| E 08K SCLCR 06 | TA80700204R0080 | 8 | 125 | 12 | 6 | 9 | 1 | **215,63** |
| E 10K SCLCR 06 | TA80700204R0100 | 10 | 125 | 16 | 7 | 11 | 1 | **215,63** |
| E 12M SCLCR 06 | TA80700204R0120 | 12 | 150 | 20 | 9 | 13 | 1 | **239,06** |
| E 16R SCLCR 09 | TA80700204R0160 | 16 | 180 | 25 | 11 | 18 | 1 | **418,75** |
| E 20S SCLCR 09 | TA80700204R0200 | 20 | 200 | 32 | 13 | 22 | 1 | **910,94** |
| E 25S SCLCR 12 | TA80700204R0250 | 25 | 200 | 40 | 17 | 30 | 1 | **1.510,94** |
| E 32U SCLCR 12 | TA80700204R0320 | 32 | 250 | 22 | 22 | 40 | 1 | **2.740,63** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0301.. | TA014V020400000 | TA06TB060400000 |
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |
| CC.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Set di 3 utensili di tornitura interna SCLC R/L, stelo in metallo duro, con fori di lubrificazione



| Codice | Inserto | Descrizione | | € / cad. |
|---|---|---|---|---|
| TA80700208L6SET | CC.. 0602.. | Set composto da 1 pz. per tipo: E08K SCLCL 06, E10K SCLCL 06, E12M SCLCL 06 | 1 | **559,38** |
| TA80700208R6SET | CC.. 0602.. | Set composto da 1 pz. per tipo: E08K SCLCR 06, E10K SCLCR 06, E12M SCLCR 06 | 1 | **559,38** |

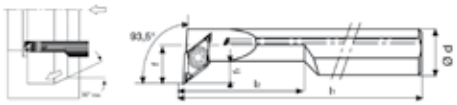
## Set di 3 utensili mini di tornitura interna SCLC R/L, stelo in metallo duro



| Codice | Inserto | Descrizione | | € / cad. |
|---|---|---|---|---|
| TA80700204L1SET | CC.. 0301.. L | Set composto da 1 pz. per tipo: C04G SCLCL 03, C05H SCLCL 03, E06J SCLCL 03 | 1 | **715,63** |
| TA80700204R1SET | CC.. 0301.. R | Set composto da 1 pz. per tipo: C04G SCLCR 03, C05H SCLCR 03, E06J SCLCR 03 | 1 | **715,63** |

## Utensile di tornitura interna A..SDUC R/L TA6080, stelo in acciaio





| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 0810H SDUCL 07 | TA60800208L0810 | 10 | 7 | 5 | 100 | 22 | 1 | **90,63** |
| A 1012K SDUCL 07 | TA60800208L1012 | 12 | 9 | 5 | 125 | 28 | 1 | **90,63** |
| A 1216M SDUCL 07 | TA60800208L1216 | 16 | 11 | 5 | 150 | 36 | 1 | **103,13** |
| A 0810H SDUCR 07 | TA60800208R0810 | 10 | 7 | 5 | 100 | 22 | 1 | **90,63** |
| A 1012K SDUCR 07 | TA60800208R1012 | 12 | 9 | 5 | 125 | 28 | 1 | **90,63** |
| A 1216M SDUCR 07 | TA60800208R1216 | 16 | 11 | 5 | 150 | 36 | 1 | **103,13** |

## Set di 3 utensili di tornitura interna SDUC R/L, stelo in acciaio, con fori di lubrificazione



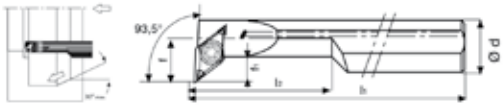
| Codice | Inserto | Descrizione | | € / cad. |
|---|---|---|---|---|
| TA60800208L3SET | DC.. 0702.. | Set composto da 1 pz. per tipo: A0810H SDUCL 07, A1012K SDUCL 07, A1216M, SDUCL 07 | 1 | **278,13** |
| TA60800208R3SET | DC.. 0702.. | Set composto da 1 pz. per tipo: A0810H SDUCR 07, A1012K SDUCR 07, A1216M, SDUCR 07 | 1 | **278,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100P020800000 | TA07CP020800000 |

## Utensile di tornitura interna AH..SDUC R/L TA7080, stelo in HSS

HSS





| ISO | Codice | d | f | f1 | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 0810H SDUCL 07 | TA70800204L0810 | 10 | 7 | 5 | 100 | 12,5 | 1 | **132,81** |
| AH 1012K SDUCL 07 | TA70800204L1012 | 12 | 9 | 5 | 125 | 15,5 | 1 | **148,44** |
| AH 1216M SDUCL 07 | TA70800204L1216 | 16 | 11 | 5 | 150 | 19,5 | 1 | **167,19** |
| AH 0810H SDUCR 07 | TA70800204R0810 | 10 | 7 | 5 | 100 | 12,5 | 1 | **132,81** |
| AH 1012K SDUCR 07 | TA70800204R1012 | 12 | 9 | 5 | 125 | 15,5 | 1 | **148,44** |
| AH 1216M SDUCR 07 | TA70800204R1216 | 16 | 11 | 5 | 150 | 19,5 | 1 | **167,19** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100P020800000 | TA07CP020800000 |

## Utensile di tornitura interna A..SDUC R/L TA6080, stelo in acciaio





| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 10H SDUCL 07 | TA60800208L0100 | 10 | 100 | 15 | 8 | 14 | 1 | **90,63** |
| A 12L SDUCL 07 | TA60800208L0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q SDUCL 07 | TA60800208L0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SDUCL 11 | TA60800208L0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SDUCL 11 | TA60800208L0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SDUCL 11 | TA60800208L0320 | 32 | 250 | 50 | 22 | 40 | 1 | **268,75** |
| A 40T SDUCL 11 | TA60800208L0400 | 40 | 300 | 50 | 27 | 49 | 1 | **326,56** |
| A 10H SDUCR 07 | TA60800208R0100 | 10 | 100 | 15 | 8 | 14 | 1 | **90,63** |
| A 12L SDUCR 07 | TA60800208R0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16U SDUCR 07 | TA60800208R0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SDUCR 11 | TA60800208R0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SDUCR 11 | TA60800208R0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SDUCR 11 | TA60800208R0320 | 32 | 250 | 50 | 22 | 40 | 1 | **268,75** |
| A 40T SDUCR 11 | TA60800208R0400 | 40 | 300 | 50 | 27 | 49 | 1 | **326,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| DC.. 0702.. | - | - | TA101P020800000 | TA08CP020800000 |
| DC.. 11T3.. | TA02ST020800000 | TA22VS020800000 | TA002P020800000<br>TA022P020800000*<br>TA023P020800000** | TA15CP020800000 |

* per utensile A 20R | ** per utensile A 25R

## Utensile di tornitura interna AH..SDUC R/L TA7080, stelo in HSS

HSS





| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 08K SDUCL 07 | TA70800204L0080 | 8 | 125 | 20 | 8 | 13,5 | 1 | **137,50** |
| AH 10K SDUCL 07 | TA70800204L0100 | 10 | 125 | 20 | 8,3 | 14 | 1 | **139,06** |
| AH 12M SDUCL 07 | TA70800204L0120 | 12 | 150 | 25 | 9,3 | 16 | 1 | **160,94** |
| AH 16Q SDUCL 07 | TA70800204L0160 | 16 | 180 | 25 | 11,3 | 20 | 1 | **235,94** |
| AH 20R SDUCL 11 | TA70800204L0200 | 20 | 200 | 30 | 16,1 | 26 | 1 | **259,38** |
| AH 25R SDUCL 11 | TA70800204L0250 | 25 | 200 | 40 | 18,6 | 32 | 1 | **357,81** |
| AH 08K SDUCR 07 | TA70800204R0080 | 8 | 125 | 20 | 8 | 13,5 | 1 | **137,50** |
| AH 10K SDUCR 07 | TA70800204R0100 | 10 | 125 | 20 | 8,3 | 14 | 1 | **139,06** |
| AH 12M SDUCR 07 | TA70800204R0120 | 12 | 150 | 25 | 9,3 | 16 | 1 | **160,94** |
| AH 16Q SDUCR 07 | TA70800204R0160 | 16 | 180 | 25 | 11,3 | 20 | 1 | **235,94** |
| AH 20R SDUCR 11 | TA70800204R0200 | 20 | 200 | 30 | 16,1 | 26 | 1 | **259,38** |
| AH 25R SDUCR 11 | TA70800204R0250 | 25 | 200 | 40 | 18,6 | 32 | 1 | **357,81** |

## Utensile di tornitura interna E..SDUC R/L TA8080, stelo in metallo duro



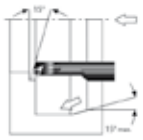


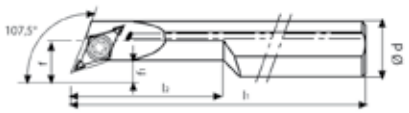
| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| E 08K SDUCL 07 | TA80800204L0080 | 8 | 125 | 10 | 7,5 | 12 | 1 | **228,13** |
| E 10K SDUCL 07 | TA80800204L0100 | 10 | 125 | 10 | 7 | 12 | 1 | **228,13** |
| E 12M SDUCL 07 | TA80800204L0120 | 12 | 150 | 12,5 | 9 | 15 | 1 | **253,13** |
| E 16R SDUCL 07 | TA80800204L0160 | 16 | 200 | 16,5 | 11 | 19 | 1 | **418,75** |
| E 20S SDUCL 11 | TA80800204L0200 | 20 | 250 | 20,5 | 13 | 23,5 | 1 | **910,94** |
| E 25S SDUCL 11 | TA80800204L0250 | 25 | 250 | 26 | 17 | 30 | 1 | **1.510,94** |
| E 08K SDUCR 07 | TA80800204R0080 | 8 | 125 | 10 | 7,5 | 12 | 1 | **228,13** |
| E 10K SDUCR 07 | TA80800204R0100 | 10 | 125 | 10 | 7 | 12 | 1 | **228,13** |
| E 12M SDUCR 07 | TA80800204R0120 | 12 | 150 | 12,5 | 9 | 15 | 1 | **253,13** |
| E 16R SDUCR 07 | TA80800204R0160 | 16 | 200 | 16,5 | 11 | 19 | 1 | **418,75** |
| E 20S SDUCR 11 | TA80800204R0200 | 20 | 250 | 20,5 | 13 | 23,5 | 1 | **910,94** |
| E 25S SDUCR 11 | TA80800204R0250 | 25 | 250 | 26 | 17 | 30 | 1 | **1.510,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100V060400000 | TA08TB060400000 |
| DC.. 11T3.. | TA160V060400000 | TA15TB060400000 |

## Utensile di tornitura interna A..SDQC R/L TA6081, stelo in acciaio








| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 0810H SDQCL 07 | TA60810208L0810 | 10 | 100 | 22 | 7 | 12,5 | 1 | **90,63** |
| A 1012K SDQCL 07 | TA60810208L1012 | 12 | 125 | 28 | 9 | 15,5 | 1 | **90,63** |
| A 1216M SDQCL 07 | TA60810208L1216 | 16 | 150 | 36 | 11 | 19,5 | 1 | **103,13** |
| A 0810H SDQCR 07 | TA60810208R0810 | 10 | 100 | 22 | 7 | 12,5 | 1 | **90,63** |
| A 1012K SDQCR 07 | TA60810208R1012 | 12 | 125 | 28 | 9 | 15,5 | 1 | **90,63** |
| A 1216M SDQCR 07 | TA60810208R1216 | 16 | 150 | 36 | 11 | 19,5 | 1 | **103,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100P020800000 | TA07CP020800000 |

## Utensile di tornitura interna A..SDQC R/L TA6081, stelo in acciaio






| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 10H SDQCL 07 | TA60810208L0100 | 10 | 100 | 16 | 7 | 14 | 1 | **90,63** |
| A 12K SDQCL 07 | TA60810208L0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q SDQCL 07 | TA60810208L0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SDQCL 11 | TA60810208L0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SDQCL 11 | TA60810208L0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SDQCL 11 | TA60810208L0320 | 32 | 250 | 33,5 | 22 | 40 | 1 | **268,75** |
| A 10H SDQCR 07 | TA60810208R0100 | 10 | 100 | 16 | 7 | 14 | 1 | **90,63** |
| A 12L SDQCR 07 | TA60810208R0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q SDQCR 07 | TA60810208R0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R SDQCR 11 | TA60810208R0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R SDQCR 11 | TA60810208R0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S SDQCR 11 | TA60810208R0320 | 32 | 250 | 33,5 | 22 | 40 | 1 | **268,75** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| DC.. 0702.. | - | - | TA101P020800000 | TA08CP020800000 |
| DC.. 11T3.. | TA02ST020800000 | TA22VS020800000 | TA002P020800000<br>TA022P020800000*<br>TA023P020800000** | TA15CP020800000 |

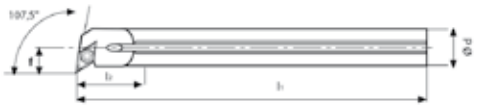
* per utensile A 20R

** per utensile A 25R

## Utensile di tornitura interna AH..SDQC R/L TA7081, stelo in HSS

HSS



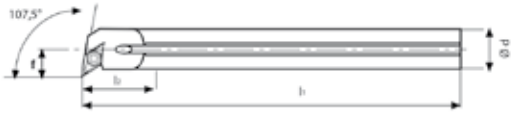


| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 08K SDQCL 07 | TA70810204L0080 | 8 | 125 | 20 | 7,5 | 13,5 | 1 | **137,50** |
| AH 10K SDQCL 07 | TA70810204L0100 | 10 | 125 | 20 | 8 | 13 | 1 | **139,06** |
| AH 12M SDQCL 07 | TA70810204L0120 | 12 | 150 | 20 | 9,5 | 16 | 1 | **160,94** |
| AH 16Q SDQCL 07 | TA70810204L0160 | 16 | 180 | 30 | 12 | 20 | 1 | **235,94** |
| AH 20R SDQCL 11 | TA70810204L0200 | 20 | 200 | 40 | 14,5 | 25 | 1 | **259,38** |
| AH 25R SDQCL 11 | TA70810204L0250 | 25 | 200 | 40 | 17 | 32 | 1 | **357,81** |
| AH 08K SDQCR 07 | TA70810204R0080 | 8 | 125 | 20 | 7,5 | 13,5 | 1 | **137,50** |
| AH 10K SDQCR 07 | TA70810204R0100 | 10 | 125 | 20 | 8 | 13 | 1 | **139,06** |
| AH 12M SDQCR 07 | TA70810204R0120 | 12 | 150 | 20 | 9,5 | 16 | 1 | **160,94** |
| AH 16Q SDQCR 07 | TA70810204R0160 | 16 | 180 | 30 | 12 | 20 | 1 | **235,94** |
| AH 20R SDQCR 11 | TA70810204R0200 | 20 | 200 | 40 | 14,5 | 25 | 1 | **259,38** |
| AH 25R SDQCR 11 | TA70810204R0250 | 25 | 200 | 40 | 17 | 32 | 1 | **357,81** |

## Utensile di tornitura interna E..SDQC R/L TA8081, stelo in metallo duro

MD



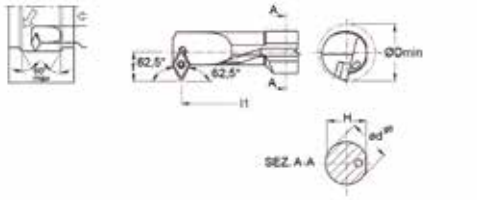


| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| E 08K SDQCL 07 | TA80810204L0080 | 8 | 125 | 10 | 7,5 | 12 | 1 | **228,13** |
| E 10K SDQCL 07 | TA80810204L0100 | 10 | 125 | 10 | 7 | 12 | 1 | **228,13** |
| E 12M SDQCL 07 | TA80810204L0120 | 12 | 150 | 12,5 | 9 | 15 | 1 | **253,13** |
| E 16R SDQCL 07 | TA80810204L0160 | 16 | 200 | 16,5 | 11 | 19 | 1 | **418,75** |
| E 20S SDQCL 11 | TA80810204L0200 | 20 | 250 | 13 | 13 | 23,5 | 1 | **910,94** |
| E 25S SDQCL 11 | TA80810204L0250 | 25 | 250 | 17 | 17 | 30 | 1 | **1.510,94** |
| E 08K SDQCR 07 | TA80810204R0080 | 8 | 125 | 10 | 7,5 | 12 | 1 | **228,13** |
| E 10K SDQCR 07 | TA80810204R0100 | 10 | 125 | 10 | 7 | 12 | 1 | **228,13** |
| E 12M SDQCR 07 | TA80810204R0120 | 12 | 150 | 12,5 | 9 | 15 | 1 | **253,13** |
| E 16R SDQCR 07 | TA80810204R0160 | 16 | 200 | 16,5 | 11 | 19 | 1 | **418,75** |
| E 20S SDQCR 11 | TA80810204R0200 | 20 | 250 | 13 | 13 | 23,5 | 1 | **910,94** |
| E 25S SDQCR 11 | TA80810204R0250 | 25 | 250 | 17 | 17 | 30 | 1 | **1.510,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100V060400000 | TA08TB060400000 |
| DC.. 11T3.. | TA160V060400000 | TA15TB060400000 |

## Utensile di tornitura interna A..SDNC R/L TA6082, stelo in acciaio

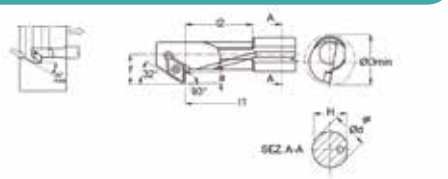





| ISO | Codice | ØDmin | Ød | f | H | l1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16M SDNCL 07 | TA60820208L0160 | 20 | 16 | 11 | 15,25 | 150 | 1 | **127,85** |
| A 20Q SDNCL 11 | TA60820208L0200 | 25 | 20 | 15 | 19 | 180 | 1 | **142,44** |
| A 25R SDNCL 11 | TA60820208L0250 | 32 | 25 | 17 | 24 | 200 | 1 | **166,18** |
| A 16M SDNCR 07 | TA60820208R0160 | 20 | 16 | 11 | 15,25 | 150 | 1 | **127,85** |
| A 20Q SDNCR 11 | TA60820208R0200 | 25 | 20 | 15 | 19 | 180 | 1 | **142,44** |
| A 25R SDNCR 11 | TA60820208R0250 | 32 | 25 | 17 | 24 | 200 | 1 | **166,18** |

## Utensile di tornitura interna A..SDXC R/L TA6083, stelo in acciaio



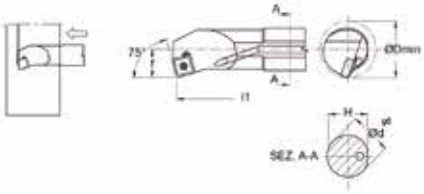



| ISO | Codice | ØDmin | Ød | f | a | H | l1 | l2 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| A 12K SDXCL 07 | TA60830208L0120 | 16 | 16 | 11 | 5 | 11,5 | 125 | 25 | 1 | **121,17** |
| A 16M SDXCL 07 | TA60830208L0160 | 20 | 20 | 13 | 5 | 15,25 | 150 | 35 | 1 | **127,85** |
| A 20Q SDXCL 11 | TA60830208L0200 | 25 | 25 | 16,5 | 6,5 | 19 | 180 | 40 | 1 | **142,44** |
| A 25R SDXCL 11 | TA60830208L0250 | 32 | 32 | 19 | 6,5 | 24 | 200 | 50 | 1 | **166,18** |
| A 12K SDXCR 07 | TA60830208R0120 | 16 | 16 | 11 | 5 | 11,5 | 125 | 25 | 1 | **121,17** |
| A 16M SDXCR 07 | TA60830208R0160 | 20 | 20 | 13 | 5 | 15,25 | 150 | 35 | 1 | **127,85** |
| A 20Q SDXCR 11 | TA60830208R0200 | 25 | 25 | 16,5 | 6,5 | 19 | 180 | 40 | 1 | **142,44** |
| A 25R SDXCR 11 | TA60830208R0250 | 32 | 32 | 19 | 6,5 | 24 | 200 | 50 | 1 | **166,18** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| DC.. 0702.. | TA100V060400000 | TA08TB060400000 |
| DC.. 11T3.. | TA160V060400000 | TA15TB060400000 |

## Utensile di tornitura interna A..SSKC R/L TA6090, stelo in acciaio



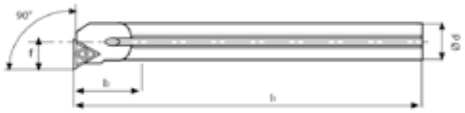


| ISO | Codice | ØDmin | Ød | f | H | l1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16M SSKCL 09 | TA60900208L0160 | 20 | 16 | 11 | 15,25 | 150 | 1 | **121,17** |
| A 20Q SSKCL 09 | TA60900208L0200 | 25 | 20 | 13 | 19 | 180 | 1 | **135,15** |
| A 25R SSKCL 12 | TA60900208L0250 | 32 | 25 | 17 | 24 | 200 | 1 | **166,18** |
| A 16M SSKCR 09 | TA60900208R0160 | 20 | 16 | 11 | 15,25 | 150 | 1 | **121,17** |
| A 20Q SSKCR 09 | TA60900208R0200 | 25 | 20 | 13 | 19 | 180 | 1 | **135,15** |
| A 25R SSKCR 12 | TA60900208R0250 | 32 | 25 | 17 | 24 | 200 | 1 | **166,18** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| SC.. 09T3.. | TA022P020800000 | TA15CP020800000 |
| SC.. 1204.. | TA024V020800000 | TA20CX020800000 |

## Utensile di tornitura interna A..STFC R/L TA6100, stelo in acciaio





| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 10K STFCL 11 | TA61000208L0100 | 10 | 125 | 16 | 7 | 14 | 1 | **90,63** |
| A 12L STFCL 11 | TA61000208L0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q STFCL 16 | TA61000208L0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R STFCL 16 | TA61000208L0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R STFCL 16 | TA61000208L0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S STFCL 16 | TA61000208L0320 | 32 | 250 | 21 | 22 | 40 | 1 | **268,75** |
| A 40T STFCL 16 | TA61000208L0400 | 40 | 300 | 21 | 27 | 49 | 1 | **326,56** |
| A 10K STFCR 11 | TA61000208R0100 | 10 | 125 | 16 | 7 | 14 | 1 | **90,63** |
| A 12L STFCR 11 | TA61000208R0120 | 12 | 140 | 20 | 9 | 18 | 1 | **90,63** |
| A 16Q STFCR 16 | TA61000208R0160 | 16 | 180 | 25 | 11 | 22 | 1 | **114,06** |
| A 20R STFCR 16 | TA61000208R0200 | 20 | 200 | 32 | 13 | 26 | 1 | **128,13** |
| A 25R STFCR 16 | TA61000208R0250 | 25 | 200 | 40 | 17 | 34 | 1 | **162,50** |
| A 32S STFCR 16 | TA61000208R0320 | 32 | 250 | 21 | 22 | 40 | 1 | **268,75** |
| A 40T STFCR 16 | TA61000208R0400 | 40 | 300 | 21 | 27 | 49 | 1 | **326,56** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| TC.. 1102.. | - | - | TA101P020800000 | TA08CP020800000 |
| TC.. 16T3.. | TA09ST020800000 | TA22VS020800000 | TA023P020800000<br>TA002P020800000* | TA15CP020800000 |

* per utensili A 32S e A 40T

## Utensile di tornitura interna AH..STFC R/L TA7100, stelo in HSS

HSS



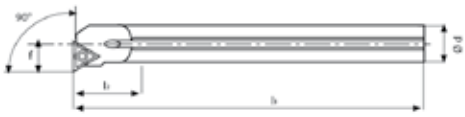


| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 10K STFCL 11 | TA71000204L0100 | 10 | 125 | 16 | 7 | 12 | 1 | **139,06** |
| AH 12M STFCL 11 | TA71000204L0120 | 12 | 140 | 20 | 9 | 14 | 1 | **160,94** |
| AH 16Q STFCL 11 | TA71000204L0160 | 16 | 180 | 25 | 11 | 18 | 1 | **235,94** |
| AH 20R STFCL 11 | TA71000204L0200 | 20 | 200 | 32 | 13 | 23 | 1 | **259,38** |
| AH 25R STFCL 16 | TA71000204L0250 | 25 | 200 | 40 | 17 | 28 | 1 | **357,81** |
| AH 10K STFCR 11 | TA71000204R0100 | 10 | 125 | 16 | 7 | 12 | 1 | **139,06** |
| AH 12M STFCR 11 | TA71000204R0120 | 12 | 140 | 20 | 9 | 14 | 1 | **160,94** |
| AH 16Q STFCR 11 | TA71000204R0160 | 16 | 180 | 25 | 11 | 18 | 1 | **235,94** |
| AH 20R STFCR 11 | TA71000204R0200 | 20 | 200 | 32 | 13 | 23 | 1 | **259,38** |
| AH 25R STFCR 16 | TA71000204R0250 | 25 | 200 | 40 | 17 | 28 | 1 | **357,81** |

## Utensile di tornitura interna E..STFC R/L TA8100, stelo in metallo duro

MD



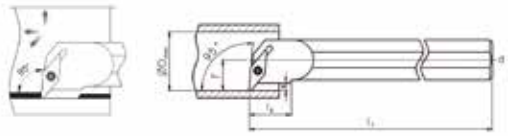


| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| E 10K STFCL 11 | TA81000204L0100 | 10 | 125 | 16 | 7 | 11 | 1 | **239,06** |
| E 12M STFCL 11 | TA81000204L0120 | 12 | 150 | 20 | 9 | 13 | 1 | **253,13** |
| E 16R STFCL 11 | TA81000204L0160 | 16 | 200 | 25 | 11 | 18 | 1 | **418,75** |
| E 20S STFCL 16 | TA81000204L0200 | 20 | 250 | 32 | 13 | 23 | 1 | **910,94** |
| E 25S STFCL 16 | TA81000204L0250 | 25 | 250 | 40 | 17 | 27 | 1 | **1.510,94** |
| E 10K STFCR 11 | TA81000204R0100 | 10 | 125 | 16 | 7 | 11 | 1 | **239,06** |
| E 12M STFCR 11 | TA81000204R0120 | 12 | 150 | 20 | 9 | 13 | 1 | **253,13** |
| E 16R STFCR 11 | TA81000204R0160 | 16 | 200 | 25 | 11 | 18 | 1 | **418,75** |
| E 20S STFCR 16 | TA81000204R0200 | 20 | 250 | 32 | 13 | 23 | 1 | **910,94** |
| E 25S STFCR 16 | TA81000204R0250 | 25 | 250 | 40 | 17 | 27 | 1 | **1.510,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| TC.. 1102.. | TA100V060400000 | TA08TB060400000 |
| TC.. 16T3.. | TA160V060400000 | TA15TB060400000 |

## Utensile di tornitura interna A..SVLC R/L TA6114, stelo in acciaio, mini tool



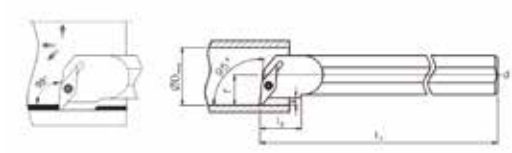


| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 08F SVLCL 05 | TA61140204L0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SVLCL 07 | TA61140204L0100 | 10 | 5 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SVLCL 07 | TA61140204L0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVLCL 07 | TA61140204L0160 | 16 | 5 | 150 | 36 | 11 | 19,5 | 1 | **92,19** |
| A 08F SVLCR 05 | TA61140204R0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SVLCR 07 | TA61140204R0100 | 10 | 5 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SVLCR 07 | TA61140204R0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVLCR 07 | TA61140204R0160 | 16 | 5 | 150 | 36 | 11 | 19,5 | 1 | **92,19** |

## Utensile di tornitura interna E..SVLC R/L TA8114, stelo in metallo duro, mini tool

MD





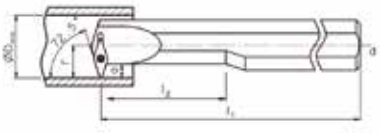
| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 08F SVLCL 05 | TA81140204L0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SVLCL 07 | TA81140204L0100 | 10 | 5 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SVLCL 07 | TA81140204L0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVLCL 07 | TA81140204L0160 | 16 | 5 | 150 | 55 | 11 | 19,5 | 1 | **481,25** |
| E 08F SVLCR 05 | TA81140204R0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SVLCR 07 | TA81140204R0100 | 10 | 5 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SVLCR 07 | TA81140204R0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVLCR 07 | TA81140204R0160 | 16 | 5 | 150 | 55 | 11 | 19,5 | 1 | **481,25** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |
| VC.. 0501.. | TA555V020400000 | TA05TB020400000 |

## Utensile di tornitura interna A..SVVC R/L TA6117, stelo in acciaio, mini tool







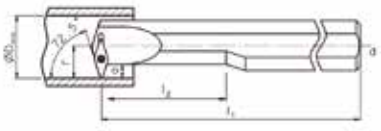
| ISO | Codice | d | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 08F SVVCL 05 | TA61170204L0080 | 8 | 3,5 | 80 | 15 | 5,5 | 9,7 | 1 | **73,44** |
| A 10H SVVCL 07 | TA61170204L0100 | 10 | 5 | 100 | 22 | 8 | 13,5 | 1 | **73,44** |
| A 12K SVVCL 07 | TA61170204L0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVVCL 07 | TA61170204L0160 | 16 | 5 | 150 | 36 | 11 | 17,5 | 1 | **92,19** |
| A 08F SVVCR 05 | TA61170204R0080 | 8 | 3,5 | 80 | 15 | 5,5 | 9,7 | 1 | **73,44** |
| A 10H SVVCR 07 | TA61170204R0100 | 10 | 5 | 100 | 22 | 8 | 13,5 | 1 | **73,44** |
| A 12K SVVCR 07 | TA61170204R0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVVCR 07 | TA61170204R0160 | 16 | 5 | 150 | 36 | 11 | 17,5 | 1 | **92,19** |

## Utensile di tornitura interna E..SVVC R/L TA8117, stelo in metallo duro, mini tool

MD







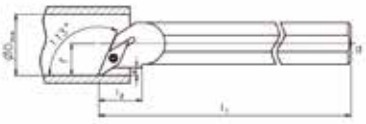
| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 08F SVVCL 05 | TA81170204L0080 | 8 | 3,5 | 80 | 26 | 5,5 | 9,7 | 1 | **217,19** |
| E 10H SVVCL 07 | TA81170204L0100 | 10 | 5 | 100 | 32 | 8 | 13,5 | 1 | **217,19** |
| E 12K SVVCL 07 | TA81170204L0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVVCL 07 | TA81170204L0160 | 16 | 5 | 150 | 55 | 11 | 17,5 | 1 | **481,25** |
| E 08F SVVCR 05 | TA81170204R0080 | 8 | 3,5 | 80 | 26 | 5,5 | 9,7 | 1 | **217,19** |
| E 10H SVVCR 07 | TA81170204R0100 | 10 | 5 | 100 | 32 | 8 | 13,5 | 1 | **217,19** |
| E 12K SVVCR 07 | TA81170204R0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVVCR 07 | TA81170204R0160 | 16 | 5 | 150 | 55 | 11 | 17,5 | 1 | **481,25** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |
| VC.. 0501.. | TA555V020400000 | TA05TB020400000 |

## Utensile di tornitura interna A..SVXC R/L TA6118, stelo in acciaio, mini tool







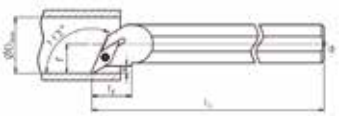
| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 08F SVXCL 05 | TA61180204L0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SVXCL 07 | TA61180204L0100 | 10 | 3 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SVXCL 07 | TA61180204L0120 | 12 | 3 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVXCL 07 | TA61180204L0160 | 16 | 3 | 150 | 36 | 11 | 19,5 | 1 | **92,19** |
| A 08F SVXCR 05 | TA61180204R0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SVXCR 07 | TA61180204R0100 | 10 | 3 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SVXCR 07 | TA61180204R0120 | 12 | 3 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SVXCR 07 | TA61180204R0160 | 16 | 3 | 150 | 36 | 11 | 19,5 | 1 | **92,19** |

## Utensile di tornitura interna E..SVXC R/L TA8118, stelo in metallo duro, mini tool

MD





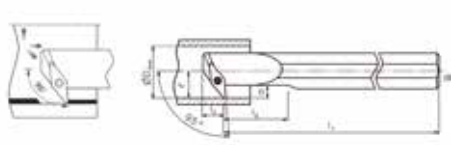


| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 08F SVXCL 05 | TA81180204L0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SVXCL 07 | TA81180204L0100 | 10 | 3 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SVXCL 07 | TA81180204L0120 | 12 | 3 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVXCL 07 | TA81180204L0160 | 16 | 3 | 150 | 55 | 11 | 19,5 | 1 | **481,25** |
| E 08F SVXCR 05 | TA81180204R0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SVXCR 07 | TA81180204R0100 | 10 | 3 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SVXCR 07 | TA81180204R0120 | 12 | 3 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SVXCR 07 | TA81180204R0160 | 16 | 3 | 150 | 55 | 11 | 19,5 | 1 | **481,25** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |
| VC.. 0501.. | TA555V020400000 | TA05TB020400000 |

## Utensile di tornitura interna A..SV95C R/L TA6113, stelo in acciaio, mini tool



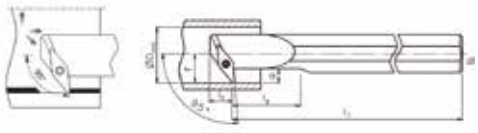


| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| A 08F SV95CL 05 | TA61130204L0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SV95CL 07 | TA61130204L0100 | 10 | 5 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SV95CL 07 | TA61130204L0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SV95CL 07 | TA61130204L0160 | 16 | 5 | 150 | 36 | 11 | 17,5 | 1 | **92,19** |
| A 08F SV95CR 05 | TA61130204R0080 | 8 | 3 | 80 | 15 | 5 | 9,2 | 1 | **73,44** |
| A 10H SV95CR 07 | TA61130204R0100 | 10 | 5 | 100 | 22 | 7 | 12,5 | 1 | **73,44** |
| A 12K SV95CR 07 | TA61130204R0120 | 12 | 5 | 125 | 28 | 9 | 15,5 | 1 | **78,13** |
| A 16M SV95CR 07 | TA61130204R0160 | 16 | 5 | 150 | 36 | 11 | 17,5 | 1 | **92,19** |

## Utensile di tornitura interna E..SV95C R/L TA8113, stelo in acciaio, mini tool

MD



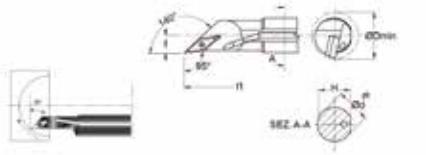


| ISO | Codice | d | a | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| E 08F SV95CL 05 | TA81130204L0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SV95CL 07 | TA81130204L0100 | 10 | 5 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SV95CL 07 | TA81130204L0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SV95CL 07 | TA81130204L0160 | 16 | 5 | 150 | 55 | 11 | 17,5 | 1 | **481,25** |
| E 08F SV95CR 05 | TA81130204R0080 | 8 | 3 | 80 | 26 | 5 | 9,2 | 1 | **217,19** |
| E 10H SV95CR 07 | TA81130204R0100 | 10 | 5 | 100 | 32 | 7 | 12,5 | 1 | **217,19** |
| E 12K SV95CR 07 | TA81130204R0120 | 12 | 5 | 125 | 40 | 9 | 15,5 | 1 | **289,06** |
| E 16M SV95CR 07 | TA81130204R0160 | 16 | 5 | 150 | 55 | 11 | 17,5 | 1 | **481,25** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |
| VC.. 0501.. | TA555V020400000 | TA05TB020400000 |

## Utensile di tornitura interna A..SVOC R/L TA6110, stelo in acciaio



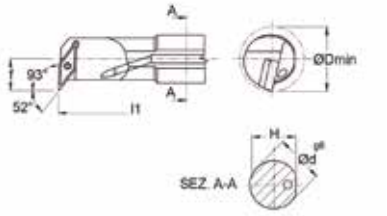


| ISO | Codice | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 08F SVOCL 05 | TA61100204L0080 | 8 | 80 | 15 | 1 | 8 | 1 | **126,56** |
| A 10K SVOCL 07 | TA61100208L0100 | 10 | 125 | 18 | 1,5 | 13 | 1 | **126,56** |
| A 12L SVOCL 07 | TA61100208L0120 | 12 | 140 | 18 | 1,5 | 13 | 1 | **126,56** |
| A 16M SVOCL 11 | TA61100208L0160 | 16 | 150 | 30 | 11 | 20 | 1 | **126,56** |
| A 20Q SVOCL 16 | TA61100208L0200 | 20 | 180 | 38 | 12,5 | 23 | 1 | **173,48** |
| A 25R SVOCL 16 | TA61100208L0250 | 25 | 200 | 44 | 16,5 | 30 | 1 | **157,81** |
| A 08F SVOCR 05 | TA61100204R0080 | 8 | 80 | 15 | 1 | 8 | 1 | **126,56** |
| A 10K SVOCR 07 | TA61100208R0100 | 10 | 125 | 18 | 1,5 | 13 | 1 | **126,56** |
| A 12L SVOCR 07 | TA61100208R0120 | 12 | 140 | 18 | 1,5 | 13 | 1 | **126,56** |
| A 16M SVOCR 11 | TA61100208R0160 | 16 | 150 | 30 | 11 | 20 | 1 | **126,56** |
| A 20Q SVOCR 16 | TA61100208R0200 | 20 | 180 | 38 | 12,5 | 23 | 1 | **173,48** |
| A 25R SVOCR 16 | TA61100208R0250 | 25 | 200 | 44 | 16,5 | 30 | 1 | **157,81** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 1103.. | TA003P020800000 | TA08CP020800000 |
| VC.. 1604.. | TA022P020800000 | TA15CP020800000 |
| VC.. 0702.. | TA091V060400000 | TA06TB060400000 |
| VC.. 0501.. | TA555V020400000 | TA05TB020400000 |

## Utensile di tornitura interna A..SVUC R/L TA6111, stelo in acciaio






| ISO | Codice | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16Q SVUCL 11 | TA61110208L0160 | 16 | 180 | 16,5 | 11 | 21 | 1 | **126,56** |
| A 20R SVUCL 11 | TA61110208L0200 | 20 | 200 | 20,5 | 13 | 25 | 1 | **132,81** |
| A 25R SVUCL 16 | TA61110208L0250 | 25 | 200 | 25,5 | 17 | 31,5 | 1 | **157,81** |
| A 32S SVUCL 16 | TA61110208L0320 | 32 | 250 | 33,5 | 22 | 40 | 1 | **260,94** |
| A 40T SVUCL 16 | TA61110208L0400 | 40 | 300 | 40 | 27 | 49 | 1 | **315,63** |
| A 16Q SVUCR 11 | TA61110208R0160 | 16 | 180 | 16,5 | 11 | 21 | 1 | **126,56** |
| A 20R SVUCR 11 | TA61110208R0200 | 20 | 200 | 20,5 | 13 | 25 | 1 | **132,81** |
| A 25R SVUCR 16 | TA61110208R0250 | 25 | 200 | 25,5 | 17 | 31,5 | 1 | **157,81** |
| A 32S SVUCR 16 | TA61110208R0320 | 32 | 250 | 33,5 | 22 | 40 | 1 | **260,94** |
| A 40T SVUCR 16 | TA61110208R0400 | 40 | 300 | 40 | 27 | 49 | 1 | **315,63** |

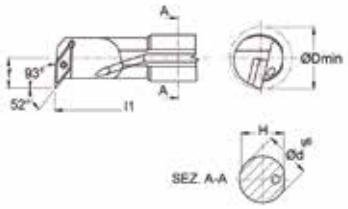
|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VC.. 1103.. | - | - | TA101P020800000 | TA08CP020800000 |
| VC.. 1604.. | TA03ST020800000 | TA03ST020800000 | TA002P020800000<br>TA023P020800000* | TA15CP020800000 |

* per utensile A 25R

## Utensile di tornitura interna AH..SVUC R/L TA7111, stelo in HSS

HSS



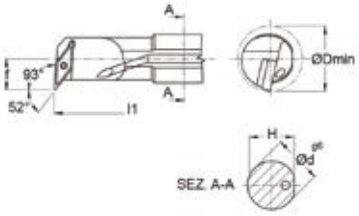



| ISO | Codice | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AH 16Q SVUCL 11 | TA71110204L0160 | 16 | 180 | 20 | 11 | 21 | 1 | **312,50** |
| AH 20R SVUCL 11 | TA71110204L0200 | 20 | 200 | 24 | 13 | 25 | 1 | **425,00** |
| AH 25R SVUCL 16 | TA71110204L0250 | 25 | 200 | 25,5 | 17 | 31,5 | 1 | **470,31** |
| AH 16Q SVUCR 11 | TA71110204R0160 | 16 | 180 | 20 | 11 | 21 | 1 | **312,50** |
| AH 20R SVUCR 11 | TA71110204R0200 | 20 | 200 | 24 | 13 | 25 | 1 | **425,00** |
| AH 25R SVUCR 16 | TA71110204R0250 | 25 | 200 | 25,5 | 17 | 31,5 | 1 | **470,31** |

## Utensile di tornitura interna E..SVUC R/L TA8111, stelo in metallo duro

MD



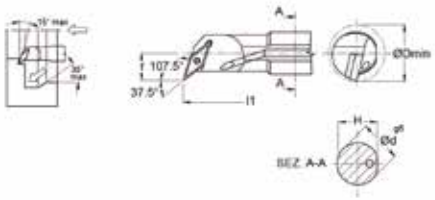



| ISO | Codice | d1 | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| E 16R SVUCL 11 | TA81110204L0160 | 16 | 200 | 16,5 | 11 | 21 | 1 | **418,75** |
| E 20S SVUCL 11 | TA81110204L0200 | 20 | 250 | 20,5 | 13 | 25 | 1 | **910,94** |
| E 25S SVUCL 11 | TA81110204L0250 | 25 | 250 | 25,5 | 17 | 31,5 | 1 | **1.510,94** |
| E 16R SVUCR 11 | TA81110204R0160 | 16 | 200 | 16,5 | 11 | 21 | 1 | **418,75** |
| E 20S SVUCR 11 | TA81110204R0200 | 20 | 250 | 20,5 | 13 | 25 | 1 | **910,94** |
| E 25S SVUCR 11 | TA81110204R0250 | 25 | 250 | 25,5 | 17 | 31,5 | 1 | **1.510,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| VC.. 1103.. | TA100V060400000 | TA08TB060400000 |
| VC.. 1604.. | TA160V060400000 | TA15TB060400000 |

## Utensile di tornitura interna A..SVQC R/L TA6112, stelo in acciaio

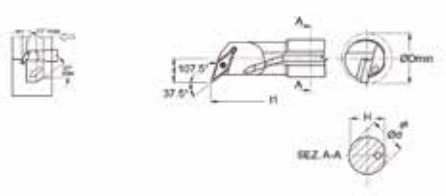




| ISO | Codice | ØDmin | Ød | f | H | l1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16Q SVQCL 11 | TA61120208L0160 | 20 | 16 | 11 | 15,25 | 180 | 1 | **126,56** |
| A 20Q SVQCL 11 | TA61120208L0200 | 25 | 20 | 13 | 19 | 180 | 1 | **132,81** |
| A 25R SVQCL 16 | TA61120208L0250 | 32 | 25 | 17 | 24 | 200 | 1 | **157,81** |
| A 32S SVQCL 16 | TA61120208L0320 | 40 | 32 | 22 | 31 | 250 | 1 | **235,67** |
| A 40T SVQCL 16 | TA61120208L0400 | 50 | 40 | 27 | 38,5 | 300 | 1 | **283,65** |
| A 16Q SVQCR 11 | TA61120208R0160 | 20 | 16 | 11 | 15,25 | 180 | 1 | **126,56** |
| A 20Q SVQCR 11 | TA61120208R0200 | 25 | 20 | 13 | 19 | 180 | 1 | **132,81** |
| A 25R SVQCR 16 | TA61120208R0250 | 32 | 25 | 17 | 24 | 200 | 1 | **157,81** |
| A 32S SVQCR 16 | TA61120208R0320 | 40 | 32 | 22 | 31 | 250 | 1 | **235,67** |
| A 40T SVQCR 16 | TA61120208R0400 | 50 | 40 | 27 | 38,5 | 300 | 1 | **283,65** |

## Utensile di tornitura interna A..SVQB R/L TA6115, stelo in acciaio





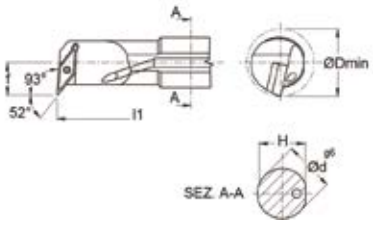
| ISO | Codice | ØDmin | Ød | f | H | l1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16Q SVQBL 11 | TA61150204L0160 | 21 | 16 | 11 | 16,5 | 180 | 1 | **126,56** |
| A 20R SVQBL 11 | TA61150204L0200 | 25 | 20 | 13 | 20,5 | 200 | 1 | **132,81** |
| A 25R SVQBL 16 | TA61150208L0250 | 32 | 25 | 17 | 24 | 200 | 1 | **157,81** |
| A 32S SVQBL 16 | TA61150208L0320 | 40 | 32 | 22 | 31 | 250 | 1 | **235,67** |
| A 40T SVQBL 16 | TA61150208L0400 | 50 | 40 | 27 | 38,5 | 300 | 1 | **283,65** |
| A 16Q SVQBR 11 | TA61150204R0160 | 21 | 16 | 11 | 16,5 | 180 | 1 | **126,56** |
| A 20R SVQBR 11 | TA61150204R0200 | 25 | 20 | 13 | 20,5 | 200 | 1 | **132,81** |
| A 25R SVQBR 16 | TA61150208R0250 | 32 | 25 | 17 | 24 | 200 | 1 | **157,81** |
| A 32S SVQBR 16 | TA61150208R0320 | 40 | 32 | 22 | 31 | 250 | 1 | **235,67** |
| A 40T SVQBR 16 | TA61150208R0400 | 50 | 40 | 27 | 38,5 | 300 | 1 | **283,65** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VB.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VB.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000<br>TA023P020800000* | TA15CP020800000 |

* per utensile A 25R

## Utensile di tornitura interna A..SVUB R/L TA6116, stelo in acciaio





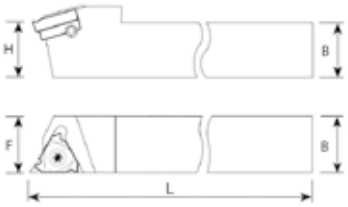

| ISO | Codice | ØDmin | Ød | f | H | l1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| A 16Q SVUBL 11 | TA61160204L0160 | 21 | 16 | 11 | 16,5 | 180 | 1 | **126,56** |
| A 20R SVUBL 11 | TA61160204L0200 | 24 | 20 | 13 | 20,5 | 200 | 1 | **132,81** |
| A 25R SVUBL 16 | TA61160204L0250 | 32 | 25 | 17 | 25,5 | 200 | 1 | **157,81** |
| A 32S SVUBL 16 | TA61160204L0320 | 40 | 32 | 22 | 33,5 | 250 | 1 | **260,94** |
| A 40T SVUBL 16 | TA61160204L0400 | 49 | 40 | 27 | 40 | 300 | 1 | **315,63** |
| A 16Q SVUBR 11 | TA61160204R0160 | 21 | 16 | 11 | 16,5 | 180 | 1 | **126,56** |
| A 20R SVUBR 11 | TA61160204R0200 | 24 | 20 | 13 | 20,5 | 200 | 1 | **132,81** |
| A 25R SVUBR 16 | TA61160204R0250 | 32 | 25 | 17 | 25,5 | 200 | 1 | **157,81** |
| A 32S SVUBR 16 | TA61160204R0320 | 40 | 32 | 22 | 33,5 | 250 | 1 | **260,94** |
| A 40T SVUBR 16 | TA61160204R0400 | 49 | 40 | 27 | 40 | 300 | 1 | **315,63** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| VB.. 1103.. | - | - | TA003P020800000 | TA08CP020800000 |
| VB.. 1604.. | TA03ST020800000 | TA22VS020800000 | TA002P020800000<br>TA023P020800000* | TA15CP020800000 |

* per utensile A 25R

## Portautensili per filettatura esterna TA1444






| Codice | Utensile | L inserto | B | H | L | F | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1444040500025 | UER 1616 H16 | 16 | 16 | 16 | 100 | 16 | 1 | **132,80** |
| TA1444040500026 | UER 2020 K16 | 16 | 20 | 20 | 125 | 20 | 1 | **132,80** |
| TA1444040500027 | UER 2525 M16 | 16 | 25 | 25 | 150 | 25 | 1 | **140,46** |
| TA1444040500028 | UER 2525 M22 | 16 | 32 | 25 | 170 | 25 | 1 | **171,75** |
| TA1444040500033 | UER 3225 P16 | 22 | 25 | 25 | 150 | 25 | 1 | **194,00** |
| TA1444040500034 | UER 3232 P22 | 22 | 32 | 32 | 170 | 32 | 1 | **210,70** |

## Portautensili per filettatura interna TA1444





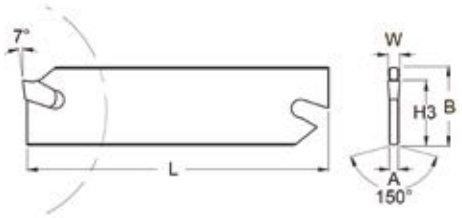

| Codice | Utensile | L inserto | D | D1 | Ø min. foro | L | L1 | F | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1444040500103 | UIR 0010 K11 | 11 | 16 | 10 | 12 | 125 | 25 | 7,4 | 1 | **121,17** |
| TA1444040500104 | UIR 0013 L11 | 11 | 16 | 13 | 15 | 140 | 32 | 8,9 | 1 | **127,85** |
| TA1444040500106 | UIR 0016 P16 | 16 | 20 | 16 | 19 | 170 | 40 | 11,7 | 1 | **135,15** |
| TA1444040500107 | UIR 0020 Q16 | 16 | 20 | 20 | 24 | 170 | -- | 13,7 | 1 | **166,18** |
| TA1444040500109 | UIR 0025 R16 | 16 | 25 | 25 | 29 | 200 | -- | 16,2 | 1 | **187,45** |
| TA1444040500111 | UIR 0032 S16 | 16 | 32 | 32 | 36 | 250 | -- | 19,7 | 1 | **224,54** |
| TA1444040500112 | UIR 0032 S22 | 22 | 32 | 32 | 38 | 250 | -- | 21,6 | 1 | **270,18** |

|  Inserto |  Sede |  Vite sede |  Vite inserto |  Chiave |
|---|---|---|---|---|
| 11 IR... | - | - | TA100P020800000 | TA07CP020800000 |
| 16 IR... | TA1444040500061 | TA1444040500048 | TA1444040500044 | TA19SP010800000<br>TA15CP020800000* |
| 22 IR... | TA1444040500062 | TA1444040500049 | TA1444040500045 | TA20CX020800000 |

* per utensile UIR 0016 M16

## Lama per scanaltura e troncatura TA1612






| Codice | Utensile | W +/- 0,1 | B | A | L | H3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA1612040800262 | TGIH 26-2 | 2,2-2,4 | 26 | 1,6 | 110 | 21,4 | 1 | **131,69** |
| TA1612040800263 | TGIH 26-3 | 3,1 | 26 | 2,4 | 110 | 21,4 | 1 | **131,69** |
| TA1612040800264 | TGIH 26-4 | 4,1 | 26 | 3,2 | 110 | 21,4 | 1 | **131,69** |
| TA1612040800265 | TGIH 26-5 | 4,8-5,1 | 26 | 4 | 110 | 21,4 | 1 | **146,65** |
| TA1612040800322 | TGIH 32-2 | 2,2-2,4 | 32 | 1,6 | 150 | 25 | 1 | **139,10** |
| TA1612040800323 | TGIH 32-3 | 3,1 | 32 | 2,4 | 150 | 25 | 1 | **146,65** |
| TA1612040800324 | TGIH 32-4 | 4,1 | 32 | 3,2 | 150 | 25 | 1 | **146,65** |
| TA1612040800325 | TGIH 32-5 | 4,8-5,1 | 32 | 4 | 150 | 25 | 1 | **163,71** |

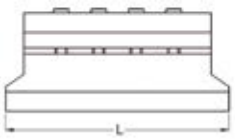


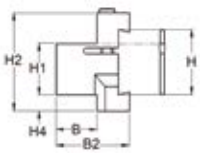


| Inserto | Chiave |
|---|---|
| TTN 2... | TA1612040800KEY |
| TTN 3... | TA1612040800KEY |
| TTN 4... | TA1612040800KEY |
| TTN 5... | TA1612040800KEY |

## Blocco portalama per scanalatura esterna TA1613






| Codice | Utensile | H1 | H | L | B | B2 | H2 | H4 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA1613040800205 | TGTBU 20-5 | 20 | 26 | 87 | 19 | 33 | 38 | 8 | 1 | **203,03** |
| TA1613040800256 | TGTBU 25-6 | 25 | 32 | 110 | 20 | 36 | 48 | 8 | 1 | **210,70** |
| TA1613040800326 | TGTBU 32-6 | 32 | 32 | 120 | 28 | 44 | 48 | 3 | 1 | **228,50** |



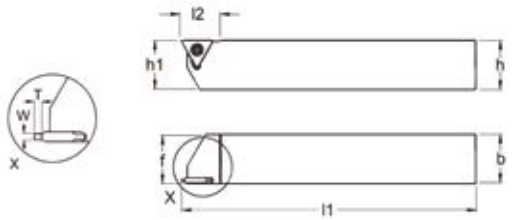




| Lama | Chiave | Vite |
|---|---|---|
| TGIH 26... | TA161C030800000 | TA162V030800000 |
| TGIH 32... | TA161C030800000 | TA162V030800000 |

## Portautensili per scanalatura esterna TA1610

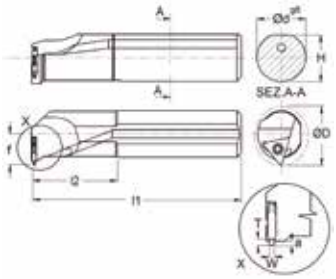





| Codice | Utensile | H=h1 | b | l1 | f | l2 | W | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA16100408L2020 | STGL 2020 K16 | 20 | 20 | 125 | 20 | 20 | 1,1 - 3,15 | 1 | **111,41** |
| TA16100408L2525 | STGL 2525 M16 | 25 | 25 | 150 | 20 | 20 | 1,1 - 3,15 | 1 | **111,41** |
| TA16100408R2020 | STGR 2020 K16 | 20 | 20 | 125 | 25 | 20 | 1,1 - 3,15 | 1 | **111,41** |
| TA16100408R2525 | STGR 2525 M16 | 25 | 25 | 150 | 25 | 20 | 1,1 - 3,15 | 1 | **111,41** |

## Portautensili per scanalatura interna TA1611



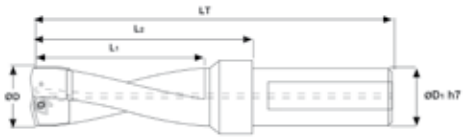



| Codice | Utensile | Ød | ØDmin | l1 | f | l2 | H | W | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA16110408L1600 | A16M STIL 16 | 16 | 20 | 150 | 11 | 35 | 15,25 | 1,1 - 3,15 | 1 | **195,98** |
| TA16110408L2000 | A20Q STIL 16 | 20 | 25 | 180 | 11 | 35 | 15,25 | 1,1 - 3,15 | 1 | **195,98** |
| TA16110408L2500 | A25R STIL 16 | 25 | 32 | 200 | 13 | 40 | 19 | 1,1 - 3,15 | 1 | **210,57** |
| TA16110408L3200 | A32S STIL 16 | 32 | 40 | 250 | 17 | 50 | 24 | 1,1 - 3,15 | 1 | **240,37** |
| TA16110408R1600 | A16M STIR 16 | 16 | 20 | 150 | 22 | 55 | 31 | 1,1 - 3,15 | 1 | **195,98** |
| TA16110408R2000 | A20Q STIR 16 | 20 | 25 | 180 | 13 | 40 | 19 | 1,1 - 3,15 | 1 | **195,98** |
| TA16110408R2500 | A25R STIR 16 | 25 | 32 | 200 | 17 | 50 | 24 | 1,1 - 3,15 | 1 | **210,57** |
| TA16110408R3200 | A32S STIR 16 | 32 | 40 | 250 | 22 | 55 | 31 | 1,1 - 3,15 | 1 | **240,37** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| 154.3-16... | TA161V030800000 | TA15CP020800000 |

## Punta ad inserti TA8899, 3xD, con fori di refrigerazione, 4 taglienti utili per inserto



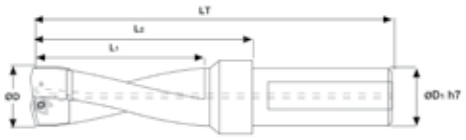



| Codice | ØD | $ØD_1$ | LT | L1 | L2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA88990504D3140 | 14 | 20 | 104 | 45 | 60 | 1 | **415,63** |
| TA88990504D3150 | 15 | 20 | 107 | 48 | 63 | 1 | **415,63** |
| TA88990504D3160 | 16 | 20 | 110 | 51 | 66 | 1 | **415,63** |
| TA88990504D3170 | 17 | 20 | 113 | 54 | 69 | 1 | **415,63** |
| TA88990504D3180 | 18 | 20 | 128 | 57 | 72 | 1 | **415,63** |
| TA88990504D3190 | 19 | 20 | 131 | 60 | 75 | 1 | **415,63** |
| TA88990504D3200 | 20 | 20 | 134 | 63 | 78 | 1 | **415,63** |
| TA88990504D3210 | 21 | 25 | 137 | 66 | 81 | 1 | **415,63** |
| TA88990504D3220 | 22 | 25 | 140 | 69 | 84 | 1 | **415,63** |
| TA88990504D3230 | 23 | 25 | 146 | 72 | 90 | 1 | **431,25** |
| TA88990504D3240 | 24 | 25 | 149 | 75 | 93 | 1 | **448,44** |
| TA88990504D3250 | 25 | 25 | 152 | 78 | 96 | 1 | **448,44** |
| TA88990504D3260 | 26 | 25 | 161 | 81 | 101 | 1 | **448,44** |
| TA88990504D3270 | 27 | 25 | 164 | 84 | 104 | 1 | **448,44** |
| TA88990504D3280 | 28 | 25 | 167 | 87 | 107 | 1 | **448,44** |
| TA88990504D3290 | 29 | 25 | 172 | 91 | 112 | 1 | **448,44** |
| TA88990504D3300 | 30 | 32 | 188 | 94 | 118 | 1 | **485,94** |
| TA88990504D3310 | 31 | 32 | 191 | 97 | 121 | 1 | **485,94** |
| TA88990504D3320 | 32 | 32 | 194 | 100 | 124 | 1 | **485,94** |
| TA88990504D3330 | 33 | 32 | 197 | 103 | 127 | 1 | **485,94** |
| TA88990504D3340 | 34 | 32 | 200 | 106 | 130 | 1 | **485,94** |
| TA88990504D3350 | 35 | 32 | 203 | 109 | 133 | 1 | **509,38** |
| TA88990504D3360 | 36 | 32 | 206 | 112 | 136 | 1 | **568,75** |
| TA88990504D3370 | 37 | 32 | 216 | 116 | 146 | 1 | **568,75** |
| TA88990504D3380 | 38 | 32 | 219 | 119 | 149 | 1 | **568,75** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| XPMT 042004... | da Ø14 a Ø15 | TA14VF050400000 | TA06TB060400000 |
| XPMT 052804... | da Ø16 a Ø18 | TA16VF050400000 | TA06TB060400000 |
| XPMT 063306... | da Ø19 a Ø22 | TA19VF050400000 | TA07TB060400000 |
| XPMT 074006... | da Ø23 a Ø28 | TA23VF050400000 | TA08TB060400000 |
| XPMT 094508... | da Ø29 a Ø36 | TA29VF050400000 | TA15TB060400000 |
| XPMT 125812... | da Ø37 a Ø45 | TA37VF050400000 | TA20TB060400000 |
| XPMT 156812... | da Ø46 a Ø55 | TA46VF050400000 | TA25TB060400000 |

## Punta ad inserti TA8899, 3xD, con fori di refrigerazione, 4 taglienti utili per inserto



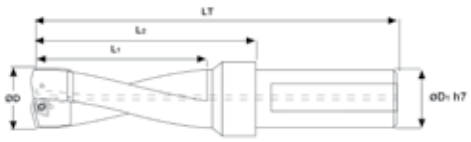



| Codice | ØD | $ØD_1$ | LT | L1 | L2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA88990504D3390 | 39 | 32 | 222 | 122 | 152 | 1 | **568,75** |
| TA88990504D3400 | 40 | 32 | 225 | 125 | 155 | 1 | **568,75** |
| TA88990504D3410 | 41 | 32 | 228 | 128 | 158 | 1 | **568,75** |
| TA88990504D3420 | 42 | 40 | 231 | 131 | 161 | 1 | **568,75** |
| TA88990504D3430 | 43 | 40 | 234 | 134 | 164 | 1 | **568,75** |
| TA88990504D3440 | 44 | 40 | 237 | 137 | 167 | 1 | **612,50** |
| TA88990504D3450 | 45 | 40 | 240 | 140 | 170 | 1 | **612,50** |
| TA88990504D3460 | 46 | 40 | 243 | 143 | 173 | 1 | **612,50** |
| TA88990504D3470 | 47 | 40 | 246 | 146 | 176 | 1 | **612,50** |
| TA88990504D3480 | 48 | 40 | 249 | 149 | 179 | 1 | **640,63** |
| TA88990504D3490 | 49 | 40 | 252 | 152 | 182 | 1 | **640,63** |
| TA88990504D3500 | 50 | 40 | 255 | 155 | 185 | 1 | **640,63** |
| TA88990504D3510 | 51 | 40 | 258 | 158 | 188 | 1 | **640,63** |
| TA88990504D3520 | 52 | 40 | 261 | 161 | 191 | 1 | **640,63** |
| TA88990504D3530 | 53 | 40 | 264 | 164 | 194 | 1 | **640,63** |
| TA88990504D3540 | 54 | 40 | 267 | 167 | 197 | 1 | **640,63** |
| TA88990504D3550 | 55 | 40 | 270 | 170 | 200 | 1 | **640,63** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| XPMT 042004... | da Ø14 a Ø15 | TA14VF050400000 | TA06TB060400000 |
| XPMT 052804... | da Ø16 a Ø18 | TA16VF050400000 | TA06TB060400000 |
| XPMT 063306... | da Ø19 a Ø22 | TA19VF050400000 | TA07TB060400000 |
| XPMT 074006... | da Ø23 a Ø28 | TA23VF050400000 | TA08TB060400000 |
| XPMT 094508... | da Ø29 a Ø36 | TA29VF050400000 | TA15TB060400000 |
| XPMT 125812... | da Ø37 a Ø45 | TA37VF050400000 | TA20TB060400000 |
| XPMT 156812... | da Ø46 a Ø55 | TA46VF050400000 | TA25TB060400000 |

## Punta ad inserti TA8899, 5xD, con fori di refrigerazione, 4 taglienti utili per inserto



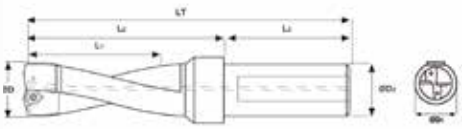



| Codice | ØD | $ØD_1$ | LT | L1 | L2 | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA88990504D5140 | 14 | 20 | 132 | 73 | 88 | 1 | **476,56** |
| TA88990504D5150 | 15 | 20 | 137 | 78 | 93 | 1 | **476,56** |
| TA88990504D5160 | 16 | 20 | 142 | 83 | 98 | 1 | **476,56** |
| TA88990504D5170 | 17 | 20 | 147 | 88 | 103 | 1 | **476,56** |
| TA88990504D5180 | 18 | 20 | 164 | 93 | 108 | 1 | **476,56** |
| TA88990504D5190 | 19 | 20 | 169 | 98 | 113 | 1 | **476,56** |
| TA88990504D5200 | 20 | 20 | 174 | 103 | 118 | 1 | **476,56** |
| TA88990504D5210 | 21 | 25 | 179 | 108 | 123 | 1 | **476,56** |
| TA88990504D5220 | 22 | 25 | 184 | 113 | 128 | 1 | **476,56** |
| TA88990504D5230 | 23 | 25 | 192 | 118 | 136 | 1 | **492,19** |
| TA88990504D5240 | 24 | 25 | 197 | 123 | 141 | 1 | **514,06** |
| TA88990504D5250 | 25 | 25 | 202 | 128 | 146 | 1 | **514,06** |
| TA88990504D5260 | 26 | 25 | 213 | 133 | 153 | 1 | **514,06** |
| TA88990504D5270 | 27 | 25 | 218 | 138 | 158 | 1 | **514,06** |
| TA88990504D5280 | 28 | 25 | 223 | 143 | 163 | 1 | **514,06** |
| TA88990504D5290 | 29 | 25 | 230 | 149 | 170 | 1 | **514,06** |
| TA88990504D5300 | 30 | 32 | 248 | 154 | 178 | 1 | **557,81** |
| TA88990504D5310 | 31 | 32 | 253 | 159 | 183 | 1 | **557,81** |
| TA88990504D5320 | 32 | 32 | 258 | 164 | 188 | 1 | **557,81** |
| TA88990504D5330 | 33 | 32 | 263 | 169 | 193 | 1 | **557,81** |
| TA88990504D5340 | 34 | 32 | 268 | 174 | 198 | 1 | **557,81** |
| TA88990504D5350 | 35 | 32 | 273 | 179 | 203 | 1 | **579,69** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| XPMT 042004... | da Ø14 a Ø15 | TA14VF050400000 | TA06TB060400000 |
| XPMT 052804... | da Ø16 a Ø18 | TA16VF050400000 | TA06TB060400000 |
| XPMT 063306... | da Ø19 a Ø22 | TA19VF050400000 | TA07TB060400000 |
| XPMT 074006... | da Ø23 a Ø28 | TA23VF050400000 | TA08TB060400000 |
| XPMT 094508... | da Ø29 a Ø35 | TA29VF050400000 | TA15TB060400000 |

## Punta ad inserti TA8877, 3xD, con fori di refrigerazione



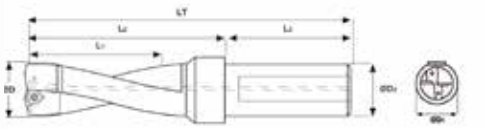


| Codice | ØD | $ØD_1$ | $ØD_2$ | LT | L1 | L2 | L3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA88770504D3150 | 15 | 37 | 20 | 115 | 45 | 65 | 50 | 1 | **360,00** |
| TA88770504D3155 | 15,5 | 37 | 20 | 120 | 50 | 70 | 50 | 1 | **360,00** |
| TA88770504D3160 | 16 | 37 | 20 | 120 | 50 | 70 | 50 | 1 | **360,00** |
| TA88770504D3170 | 17 | 37 | 20 | 125 | 55 | 75 | 50 | 1 | **360,00** |
| TA88770504D3175 | 17,5 | 37 | 20 | 130 | 60 | 80 | 50 | 1 | **360,00** |
| TA88770504D3180 | 18 | 32 | 25 | 140 | 56 | 86 | 54 | 1 | **409,88** |
| TA88770504D3185 | 18,5 | 32 | 25 | 141,5 | 57,5 | 87,5 | 54 | 1 | **409,88** |
| TA88770504D3190 | 19 | 32 | 25 | 143 | 59 | 89 | 54 | 1 | **409,88** |
| TA88770504D3195 | 19,5 | 32 | 25 | 144,5 | 60,5 | 90,5 | 54 | 1 | **409,88** |
| TA88770504D3200 | 20 | 32 | 25 | 146 | 62 | 92 | 54 | 1 | **409,88** |
| TA88770504D3210 | 21 | 32 | 25 | 149 | 65 | 95 | 54 | 1 | **409,88** |
| TA88770508D3215 | 21,5 | 32 | 25 | 150,5 | 66,5 | 96,5 | 54 | 1 | **409,88** |
| TA88770504D3220 | 22 | 32 | 25 | 152 | 68 | 98 | 54 | 1 | **409,88** |
| TA88770504D3230 | 23 | 32 | 25 | 155 | 71 | 101 | 54 | 1 | **409,88** |
| TA88770504D3240 | 24 | 32 | 25 | 158 | 74 | 104 | 54 | 1 | **418,90** |
| TA88770504D3250 | 25 | 32 | 25 | 161 | 77 | 107 | 54 | 1 | **418,90** |
| TA88770504D3260 | 26 | 32 | 25 | 164 | 80 | 110 | 54 | 1 | **418,90** |
| TA88770504D3270 | 27 | 32 | 25 | 167 | 83 | 113 | 54 | 1 | **418,90** |
| TA88770504D3280 | 28 | 32 | 25 | 170 | 86 | 116 | 54 | 1 | **418,90** |
| TA88770504D3290 | 29 | 32 | 25 | 173 | 89 | 119 | 54 | 1 | **418,90** |
| TA88770504D3300 | 30 | 49 | 32 | 180 | 92 | 122 | 58 | 1 | **456,49** |
| TA88770504D3310 | 31 | 49 | 32 | 183 | 95 | 125 | 58 | 1 | **456,49** |
| TA88770504D3320 | 32 | 49 | 32 | 186 | 98 | 128 | 58 | 1 | **456,49** |
| TA88770504D3330 | 33 | 49 | 32 | 189 | 101 | 131 | 58 | 1 | **456,49** |
| TA88770504D3340 | 34 | 49 | 32 | 192 | 104 | 134 | 58 | 1 | **456,49** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| WC.. 0302.. | da Ø15 a Ø20 | TA030V050400000 | TA07TB060400000 |
| WC.. 0402.. | da Ø21 a Ø25 | TA040V050400000 | TA07TB060400000 |
| WC.. 0503.. | da Ø26 a Ø30 | TA050V050400000 | TA09TB050400000 |
| WC.. 06T3.. | da Ø31 a Ø41 | TA060V050400000 | TA15TB060400000 |
| WC.. 0804.. | da Ø42 a Ø58 | TA080V050400000 | TA15TB060400000 |

## Punta ad inserti TA8877, 3xD, con fori di refrigerazione



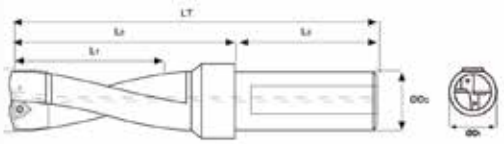


| Codice | ØD | $ØD_1$ | $ØD_2$ | LT | L1 | L2 | L3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA88770504D3350 | 35 | 49 | 32 | 195 | 107 | 137 | 58 | 1 | **533,36** |
| TA88770504D3360 | 36 | 49 | 32 | 198 | 110 | 140 | 58 | 1 | **560,26** |
| TA88770504D3370 | 37 | 49 | 32 | 201 | 113 | 143 | 58 | 1 | **485,07** |
| TA88770504D3380 | 38 | 49 | 32 | 204 | 116 | 146 | 58 | 1 | **485,07** |
| TA88770504D3390 | 39 | 49 | 32 | 207 | 119 | 149 | 58 | 1 | **485,07** |
| TA88770504D3400 | 40 | 49 | 32 | 210 | 122 | 152 | 58 | 1 | **485,07** |
| TA88770504D3410 | 41 | 49 | 32 | 213 | 125 | 155 | 58 | 1 | **494,09** |
| TA88770504D3420 | 42 | 49 | 32 | 216 | 128 | 158 | 58 | 1 | **494,09** |
| TA88770504D3430 | 43 | 49 | 32 | 219 | 131 | 161 | 58 | 1 | **494,09** |
| TA88770504D3440 | 44 | 49 | 32 | 222 | 134 | 164 | 58 | 1 | **494,09** |
| TA88770504D3450 | 45 | 59 | 40 | 240 | 137 | 172 | 68 | 1 | **533,36** |
| TA88770504D3460 | 46 | 59 | 40 | 243 | 140 | 175 | 68 | 1 | **533,36** |
| TA88770504D3470 | 47 | 59 | 40 | 246 | 143 | 178 | 68 | 1 | **533,36** |
| TA88770504D3480 | 48 | 59 | 40 | 249 | 146 | 181 | 68 | 1 | **533,36** |
| TA88770504D3490 | 49 | 59 | 40 | 252 | 149 | 184 | 68 | 1 | **570,95** |
| TA88770504D3500 | 50 | 59 | 40 | 255 | 152 | 187 | 68 | 1 | **570,95** |
| TA88770504D3510 | 51 | 59 | 40 | 258 | 155 | 190 | 68 | 1 | **570,95** |
| TA88770504D3520 | 52 | 59 | 40 | 261 | 158 | 193 | 68 | 1 | **570,95** |
| TA88770504D3530 | 53 | 59 | 40 | 264 | 161 | 196 | 68 | 1 | **570,95** |
| TA88770504D3540 | 54 | 59 | 40 | 267 | 164 | 199 | 68 | 1 | **656,84** |
| TA88770504D3550 | 55 | 59 | 40 | 270 | 167 | 202 | 68 | 1 | **656,84** |
| TA88770504D3560 | 56 | 59 | 40 | 273 | 170 | 205 | 68 | 1 | **656,84** |
| TA88770504D3570 | 57 | 59 | 40 | 276 | 173 | 208 | 68 | 1 | **656,84** |
| TA88770504D3580 | 58 | 59 | 40 | 279 | 176 | 211 | 68 | 1 | **656,84** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| WC.. 0302.. | da Ø15 a Ø20 | TA030V050400000 | TA07TB060400000 |
| WC.. 0402.. | da Ø21 a Ø25 | TA040V050400000 | TA07TB060400000 |
| WC.. 0503.. | da Ø26 a Ø30 | TA050V050400000 | TA09TB050400000 |
| WC.. 06T3.. | da Ø31 a Ø41 | TA060V050400000 | TA15TB060400000 |
| WC.. 0804.. | da Ø42 a Ø58 | TA080V050400000 | TA15TB060400000 |

## Punta ad inserti TA8877, 4xD, con fori di refrigerazione





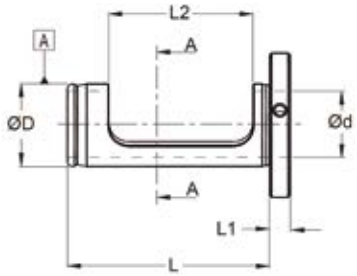
| Codice | ØD | $ØD_1$ | $ØD_2$ | LT | L1 | L2 | L3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA88770504D4180 | 18 | 32 | 25 | 158 | 74 | 104 | 52 | 1 | **513,64** |
| TA88770504D4190 | 19 | 32 | 25 | 162 | 78 | 108 | 52 | 1 | **513,64** |
| TA88770504D4200 | 20 | 32 | 25 | 166 | 82 | 112 | 52 | 1 | **513,64** |
| TA88770504D4210 | 21 | 32 | 25 | 170 | 86 | 116 | 52 | 1 | **513,64** |
| TA88770504D4220 | 22 | 32 | 25 | 174 | 90 | 120 | 52 | 1 | **513,64** |
| TA88770504D4230 | 23 | 32 | 25 | 178 | 94 | 124 | 52 | 1 | **513,64** |
| TA88770504D4240 | 24 | 32 | 25 | 182 | 98 | 128 | 52 | 1 | **551,24** |
| TA88770504D4250 | 25 | 32 | 25 | 186 | 102 | 132 | 52 | 1 | **551,24** |
| TA88770504D4260 | 26 | 32 | 25 | 190 | 106 | 136 | 52 | 1 | **551,24** |
| TA88770504D4270 | 27 | 32 | 25 | 194 | 110 | 140 | 52 | 1 | **551,24** |
| TA88770504D4280 | 28 | 32 | 25 | 198 | 114 | 144 | 52 | 1 | **551,24** |
| TA88770504D4290 | 29 | 32 | 25 | 202 | 118 | 148 | 52 | 1 | **551,24** |
| TA88770504D4300 | 30 | 49 | 32 | 210 | 122 | 152 | 58 | 1 | **608,55** |
| TA88770504D4310 | 31 | 49 | 32 | 214 | 126 | 156 | 58 | 1 | **608,55** |
| TA88770504D4320 | 32 | 49 | 32 | 218 | 130 | 160 | 58 | 1 | **608,55** |
| TA88770504D4330 | 33 | 49 | 32 | 222 | 134 | 164 | 58 | 1 | **608,55** |
| TA88770504D4340 | 34 | 49 | 32 | 226 | 138 | 168 | 58 | 1 | **608,55** |
| TA88770504D4350 | 35 | 49 | 32 | 230 | 142 | 172 | 58 | 1 | **608,55** |
| TA88770504D4360 | 36 | 49 | 32 | 234 | 146 | 176 | 58 | 1 | **608,55** |
| TA88770504D4370 | 37 | 49 | 32 | 238 | 150 | 180 | 58 | 1 | **608,55** |
| TA88770504D4380 | 38 | 49 | 32 | 242 | 154 | 184 | 58 | 1 | **665,86** |
| TA88770504D4390 | 39 | 49 | 32 | 246 | 158 | 188 | 58 | 1 | **665,86** |
| TA88770504D4400 | 40 | 49 | 32 | 250 | 162 | 192 | 58 | 1 | **665,86** |

|  Inserto | |  Vite inserto |  Chiave |
|---|---|---|---|
| WC.. 0302.. | da Ø15 a Ø20 | TA030V050400000 | TA07TB060400000 |
| WC.. 0402.. | da Ø21 a Ø25 | TA040V050400000 | TA07TB060400000 |
| WC.. 0503.. | da Ø26 a Ø30 | TA050V050400000 | TA09TB050400000 |
| WC.. 06T3.. | da Ø31 a Ø40 | TA060V050400000 | TA15TB060400000 |

## Boccola disassatrice TA8888 regolabile, per punte ad inserti





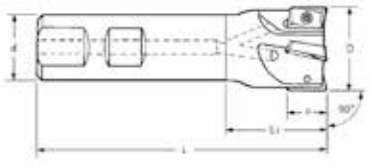



| Codice | ØD | Ød | L2 | L1 | L | Campo regolazione Ø | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA88880408D2016 | 20 | 16 | 35 | 5 | 49 | +0,4 / -0,2 | 1 | **171,77** |
| TA88880408D2520 | 25 | 20 | 30 | 4 | 43 | +0,4 / -0,2 | 1 | **180,79** |
| TA88880408D3225 | 32 | 25 | 33 | 6 | 48 | +0,4 / -0,2 | 1 | **199,51** |
| TA88880408D4032 | 40 | 32 | 35 | 6 | 53 | +0,4 / -0,2 | 1 | **262,17** |

**N.B: Istruzioni d'uso su www.ttake.it**

## Fresa per spallamenti retti (90°) TA9006, con fori di refrigerazione, attacco weldon

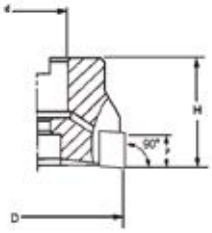




| Code | D | d | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA90060604W0100 | 10 | 10 | 100 | 28 | 5,2 | 2 | 1 | **128,13** |
| TA90060604W0120 | 12 | 12 | 100 | 30 | 5,2 | 3 | 1 | **157,81** |
| TA90060604W0140 | 14 | 12 | 120 | 32 | 5,2 | 3 | 1 | **157,81** |
| TA90060604W0160 | 16 | 16 | 120 | 32 | 5,2 | 4 | 1 | **206,25** |
| TA90060604W0180 | 18 | 16 | 120 | 32 | 5,2 | 4 | 1 | **206,25** |
| TA90060604W0200 | 20 | 20 | 150 | 35 | 5,2 | 5 | 1 | **237,50** |
| TA90060604W0250 | 25 | 20 | 150 | 35 | 5,2 | 7 | 1 | **262,50** |
| TA90060604W0320 | 32 | 25 | 150 | 35 | 5,2 | 8 | 1 | **279,69** |

## Fresa per spallamenti retti (90°) TA9006, con fori di refrigerazione, attacco a manicotto



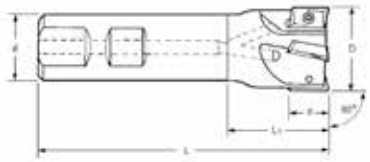


| Code | D | d | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA90060604M0320 | 32 | 16 | 40 | 5,2 | 8 | 1 | **290,63** |
| TA90060604M0400 | 40 | 16 | 40 | 5,2 | 10 | 1 | **328,13** |
| TA90060604M0500 | 50 | 22 | 40 | 5,2 | 11 | 1 | **353,13** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 060204.. | TA106V060400000 | TA06TB060400000 |

## Fresa per spallamenti retti (90°) TA9010, con fori di refrigerazione, attacco weldon



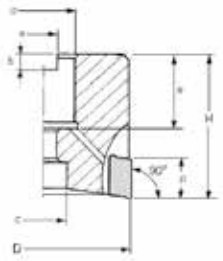


| Code | Serie | D | d | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90100604W0100 | standard | 10 | 16 | 80 | 24 | 10 | 1 | 1 | **90,63** |
| TA90100604W0110 | standard | 11 | 16 | 80 | 24 | 10 | 1 | 1 | **115,63** |
| TA90100604W0120 | standard | 12 | 16 | 80 | 24 | 10 | 1 | 1 | **90,63** |
| TA90100604W0130 | standard | 13 | 16 | 80 | 24 | 10 | 1 | 1 | **115,63** |
| TA90100604W0140 | standard | 14 | 16 | 80 | 25 | 10 | 1 | 1 | **115,63** |
| TA90100604W0150 | standard | 15 | 16 | 85 | 25 | 10 | 2 | 1 | **118,75** |
| TA90100604W0157 | standard | 15,7 | 16 | 85 | 25 | 10 | 2 | 1 | **118,75** |
| TA90100604W0160 | standard | 16 | 16 | 85 | 25 | 10 | 2 | 1 | **109,38** |
| TA90100604W0170 | standard | 17 | 16 | 85 | 25 | 10 | 2 | 1 | **120,31** |
| TA90100604W0180 | standard | 18 | 20 | 85 | 25 | 10 | 2 | 1 | **115,63** |
| TA90100604W0195 | standard | 19,5 | 20 | 90 | 25 | 10 | 3 | 1 | **157,81** |
| TA90100604W0197 | standard | 19,7 | 20 | 90 | 25 | 10 | 3 | 1 | **157,81** |
| TA90100604W0200 | standard | 20 | 20 | 90 | 25 | 10 | 3 | 1 | **145,31** |
| TA90100604W0220 | standard | 22 | 25 | 95 | 25 | 10 | 3 | 1 | **151,56** |
| TA90100604W0247 | standard | 24,7 | 25 | 95 | 25 | 10 | 4 | 1 | **212,50** |
| TA90100604W0253 | standard | 25 | 25 | 95 | 25 | 10 | 3 | 1 | **162,50** |
| TA90100604W0254 | standard | 25 | 25 | 95 | 25 | 10 | 4 | 1 | **178,13** |
| TA90100604W0280 | standard | 28 | 25 | 95 | 25 | 10 | 4 | 1 | **184,38** |
| TA90100604W0300 | standard | 30 | 25 | 95 | 26 | 10 | 4 | 1 | **201,56** |
| TA90100604W0317 | standard | 31,7 | 25 | 95 | 26 | 10 | 5 | 1 | **231,25** |
| TA90100604W0320 | standard | 32 | 25 | 95 | 24 | 10 | 5 | 1 | **206,25** |
| TA90100604L0100 | lunga | 10 | 16 | 150 | 24 | 10 | 1 | 1 | **120,31** |
| TA90100604L0120 | lunga | 12 | 16 | 150 | 24 | 10 | 1 | 1 | **120,31** |
| TA90100604L0160 | lunga | 16 | 16 | 150 | 24 | 10 | 2 | 1 | **139,06** |
| TA90100604L0180 | lunga | 18 | 16 | 150 | 25 | 10 | 2 | 1 | **187,50** |
| TA90100604L0200 | lunga | 20 | 20 | 150 | 25 | 10 | 3 | 1 | **175,00** |
| TA90100604L0250 | lunga | 25 | 20 | 150 | 25 | 10 | 4 | 1 | **200,00** |
| TA90100604L0320 | lunga | 32 | 25 | 150 | 26 | 10 | 5 | 1 | **235,94** |

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

## Fresa per spallamenti retti (90°) TA9010, con fori di refrigerazione, attacco a manicotto



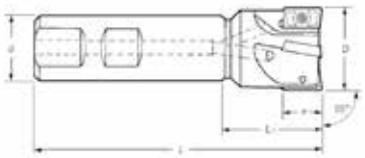


| Code | D | d | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA90100604M0400 | 40 | 16 | 17 | 21 | 10,4 | 6,3 | 40 | 10 | 6 | 1 | **248,44** |
| TA90100604M0500 | 50 | 22 | 17 | 21 | 10,4 | 6,3 | 40 | 10 | 7 | 1 | **285,94** |
| TA90100604M0630 | 63 | 22 | 17 | 21 | 10,4 | 6,3 | 40 | 10 | 8 | 1 | **395,31** |
| TA90100604M0800 | 80 | 27 | 20 | 22 | 12,4 | 7 | 50 | 10 | 11 | 1 | **546,88** |
| TA90100604M1000 | 100 | 32 | 26 | 26 | 14,4 | 8 | 50 | 10 | 12 | 1 | **571,88** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

## Fresa per spallamenti retti (90°) TA9016, con fori di refrigerazione, attacco weldon





| Code | Serie | D | d | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90160604W0250 | standard | 25 | 25 | 100 | 44 | 17 | 2 | 1 | **146,88** |
| TA90160604W0320 | standard | 32 | 32 | 110 | 50 | 17 | 3 | 1 | **168,75** |
| TA90160604W0400 | standard | 40 | 32 | 115 | 45 | 17 | 4 | 1 | **217,19** |
| TA90160604L0220 | lunga | 22 | 20 | 200 | 60 | 17 | 2 | 1 | **256,25** |
| TA90160604L0250 | lunga | 25 | 25 | 200 | 60 | 17 | 2 | 1 | **265,63** |
| TA90160604L0320 | lunga | 32 | 32 | 200 | 60 | 17 | 3 | 1 | **293,75** |
| TA90160604L0400 | lunga | 40 | 32 | 200 | 60 | 17 | 4 | 1 | **346,88** |

## Fresa per spallamenti retti (90°) TA9016, con fori di refrigerazione, attacco a manicotto





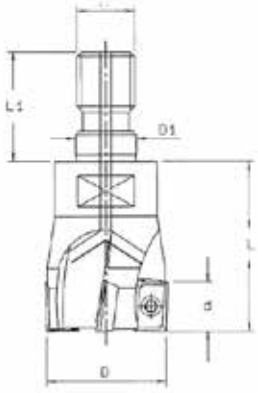
| Code | D | d | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA90160604M0400 | 40 | 16 | 12 | 8 | 8,4 | 5,6 | 40 | 17 | 4 | 1 | **195,31** |
| TA90160604M0500 | 50 | 22 | 18 | 21 | 10,4 | 6,3 | 40 | 17 | 5 | 1 | **217,19** |
| TA90160604M0630 | 63 | 22 | 18 | 21 | 10,4 | 6,3 | 40 | 17 | 6 | 1 | **225,00** |
| TA90160604M0800 | 80 | 27 | 20 | 22 | 12,4 | 7 | 50 | 17 | 7 | 1 | **290,63** |
| TA90160604M1000 | 100 | 32 | 45 | 26 | 14,4 | 8 | 50 | 17 | 8 | 1 | **364,06** |
| TA90160604M1250 | 125 | 40 | 56 | 38 | 16,4 | 9 | 63 | 17 | 9 | 1 | **425,00** |
| TA90160604M1600* | 160 | 40 | 87 | 32 | 16,4 | 9 | 63 | 17 | 10 | 1 | **660,94** |
| TA90160604M2000* | 200 | 60 | - | 32 | 16,4 | 9 | 63 | 17 | 13 | 1 | **1.001,56** |
| TA90160604M2500* | 250 | 60 | - | 32 | 16,4 | 9 | 63 | 17 | 16 | 1 | **1.539,06** |

* senza fori di refrigerazione

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| AP.. 1604.. | TA160V060400000 | TA150C060400000 |

## Fresa per spallamenti retti (90°) TA9006, con fori di refrigerazione, attacco filettato






| Code | D | D1 | d | L | L1 | M | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90060604F0100 | 10 | 6,5 | 5,2 | 16 | 14,5 | M6 | 2 | 1 | **164,06** |
| TA90060604F0120 | 12 | 6,5 | 5,2 | 16 | 14,5 | M6 | 3 | 1 | **212,50** |
| TA90060604F0160 | 16 | 8,5 | 5,2 | 21 | 17,5 | M8 | 4 | 1 | **248,44** |
| TA90060604F0200 | 20 | 10,5 | 5,2 | 26 | 20 | M10 | 5 | 1 | **268,75** |
| TA90060604F0250 | 25 | 12,5 | 5,2 | 30 | 22 | M12 | 7 | 1 | **292,19** |

## Fresa per spallamenti retti (90°) TA9010, con fori di refrigerazione, attacco filettato

| Code | D | D1 | d | L | L1 | M | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90100604F0100 | 10 | 6,5 | 10 | 20 | 14,5 | M6 | 1 | 1 | **140,63** |
| TA90100604F0120 | 12 | 6,5 | 10 | 20 | 14,5 | M6 | 1 | 1 | **140,63** |
| TA90100604F0160 | 16 | 8,5 | 10 | 25 | 17,5 | M8 | 2 | 1 | **164,06** |
| TA90100604F0200 | 20 | 10,5 | 10 | 30 | 20 | M10 | 3 | 1 | **200,00** |
| TA90100604F0253 | 25 | 12,5 | 10 | 35 | 22 | M12 | 3 | 1 | **210,94** |
| TA90100604F0254 | 25 | 12,5 | 16 | 35 | 22 | M12 | 4 | 1 | **253,13** |
| TA90100604F0320 | 32 | 17 | 10 | 43 | 24 | M16 | 5 | 1 | **279,69** |

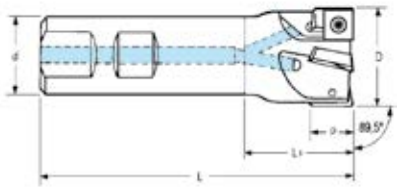
## Fresa per spallamenti retti (90°) TA9016, con fori di refrigerazione, attacco filettato

| Code | D | D1 | d | L | L1 | M | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90160604F0320 | 32 | 17 | 16 | 46 | 24 | M16 | 3 | 1 | **179,69** |
| TA90160604F0400 | 40 | 17 | 16 | 46 | 24 | M16 | 4 | 1 | **229,69** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| APKT 060204.. | TA106V060400000 | TA06TB060400000 |
| AP.. 10.. | TA100V060400000 | TA08TB060400000 |
| AP.. 16.. | TA160V060400000 | TA15TB060400000 |

## Fresa per spallamenti retti (89-50°) TA9406, con fori di refrigerazione, 4 taglienti utili per inserto, attacco weldon

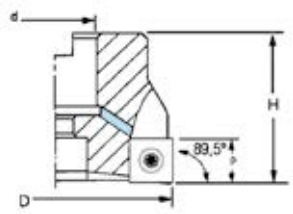





| Code | Serie | D | d | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA94060406W1006 | standard | 10 | 16 | 80 | 24 | 6 | 1 | 1 | **90,63** |
| TA94060406W1206 | standard | 12 | 16 | 80 | 24 | 6 | 1 | 1 | **90,63** |
| TA94060406W1606 | standard | 16 | 16 | 85 | 25 | 6 | 2 | 1 | **120,31** |
| TA94060406W2006 | standard | 20 | 20 | 90 | 25 | 6 | 3 | 1 | **156,25** |
| TA94060406W2506 | standard | 25 | 25 | 95 | 25 | 6 | 4 | 1 | **192,19** |
| TA94060406W3206 | standard | 32 | 32 | 95 | 26 | 6 | 5 | 1 | **217,19** |
| TA94060406L1606 | lunga | 16 | 16 | 150 | 100 | 6 | 2 | 1 | **143,75** |
| TA94060406L2006 | lunga | 20 | 20 | 150 | 98 | 6 | 3 | 1 | **192,19** |
| TA94060406L2506 | lunga | 25 | 20 | 150 | 98 | 6 | 4 | 1 | **229,69** |
| TA94060406L3206 | lunga | 32 | 25 | 150 | 92 | 6 | 5 | 1 | **253,13** |

## Fresa per spallamenti retti (89-50°) TA9406, con fori di refrigerazione, 4 taglienti utili per inserto, attacco a manicotto



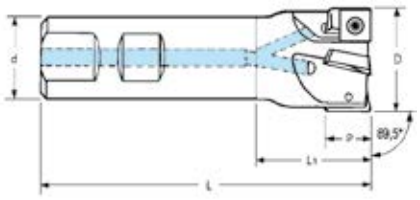



| Code | D | d | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA94060406M4006 | 40 | 16 | 40 | 6 | 6 | 1 | **254,69** |
| TA94060406M5006 | 50 | 22 | 40 | 6 | 7 | 1 | **285,94** |
| TA94060406M6306 | 63 | 22 | 40 | 6 | 8 | 1 | **395,31** |

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| SP.. 060304.. | TA100V060400000 | TA08TB060400000 |

## Fresa per spallamenti retti (89-50°) TA9409, con fori di refrigerazione, 4 taglienti utili per inserto, attacco weldon

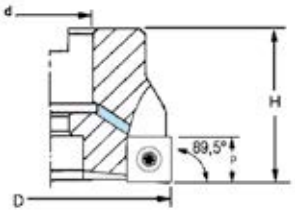





| Code | D | d | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA94090406W2509 | 25 | 25 | 100 | 44 | 9 | 2 | 1 | **157,81** |
| TA94090406W3209 | 32 | 32 | 110 | 50 | 9 | 3 | 1 | **187,50** |
| TA94090406W4009 | 40 | 32 | 115 | 45 | 9 | 4 | 1 | **242,19** |

## Fresa per spallamenti retti (89-50°) TA9409, con fori di refrigerazione, 4 taglienti utili per inserto, attacco a manicotto



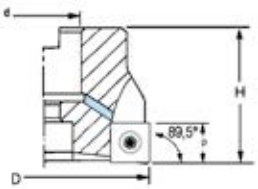



| Code | D | d | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA94090406M4009 | 40 | 16 | 40 | 9 | 4 | 1 | **212,50** |
| TA94090406M5009 | 50 | 22 | 40 | 9 | 5 | 1 | **235,94** |
| TA94090406M6309 | 63 | 22 | 40 | 9 | 6 | 1 | **267,19** |
| TA94090406M8009 | 80 | 27 | 50 | 9 | 7 | 1 | **290,63** |
| TA94090406M1009 | 100 | 32 | 50 | 9 | 8 | 1 | **364,06** |

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| SP.. 09T308.. | TA122V060400000 | TA15TB060400000 |

## Fresa per spallamenti retti (89-50°) TA9412, con fori di refrigerazione, 4 taglienti utili per inserto, attacco a manicotto



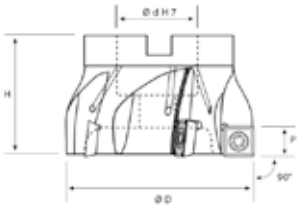



| Code | D | d | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA94120604M5012 | 50 | 22 | 40 | 12 | 5 | 1 | **303,13** |
| TA94120604M6312 | 63 | 22 | 40 | 12 | 6 | 1 | **328,13** |
| TA94120604M8012 | 80 | 27 | 50 | 12 | 6 | 1 | **376,56** |
| TA94120604M1012 | 100 | 32 | 50 | 12 | 8 | 1 | **462,50** |
| TA94120604M1212 | 125 | 40 | 63 | 12 | 9 | 1 | **559,38** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| SP.. 120408.. | TA121V060400000 | TA20TB060400000 |

## Fresa per spallamenti retti (90°) TA9012, con fori di refrigerazione, attacco a manicotto



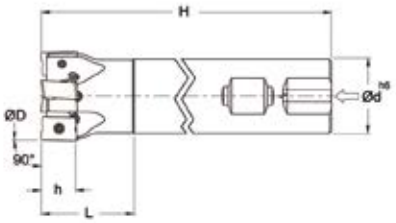



| Code | ØD | ØdH7 | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA90120406M0400 | 40 | 16 | 40 | 10,5 | 4 | 1 | **309,38** |
| TA90120406M0500 | 50 | 22 | 40 | 10,5 | 5 | 1 | **309,38** |
| TA90120406M0630 | 63 | 22 | 40 | 10,5 | 6 | 1 | **342,19** |
| TA90120406M0800 | 80 | 27 | 50 | 10,5 | 6 | 1 | **401,56** |
| TA90120406M1000 | 100 | 32 | 50 | 10,5 | 8 | 1 | **523,44** |
| TA90120406M1250 | 125 | 40 | 63 | 10,5 | 9 | 1 | **610,94** |

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SD.. 1205.. | TA120V060400000 | TA150C060400000 |

## Fresa per spallamenti retti (90°) TA9410, con fori di refrigerazione e inserto bilaterale a 4 taglienti utili, attacco weldon

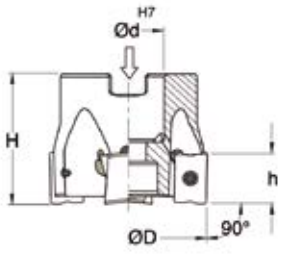





| Code | Serie | ØD | Ød | H | h | L | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA94100608W0202 | standard | 20 | 20 | 100 | 9 | 30 | 4° | 2 | 1 | **205,02** |
| TA94100608W0203 | standard | 20 | 20 | 100 | 9 | 30 | 4° | 3 | 1 | **168,75** |
| TA94100608W0252 | standard | 25 | 25 | 115 | 9 | 35 | 3,5° | 2 | 1 | **224,57** |
| TA94100608W0253 | standard | 25 | 25 | 115 | 9 | 35 | 3,5° | 3 | 1 | **209,38** |
| TA94100608W0323 | standard | 32 | 32 | 125 | 9 | 42 | 3° | 3 | 1 | **274,50** |
| TA94100608W0324 | standard | 32 | 25 | 115 | 9 | 40 | 3° | 4 | 1 | **235,94** |
| TA94100608W0404 | standard | 40 | 32 | 130 | 9 | 42 | 2° | 4 | 1 | **325,83** |
| TA94100608W0405 | standard | 40 | 32 | 130 | 9 | 42 | 2° | 5 | 1 | **350,89** |
| TA94100608L0203 | lunga | 20 | 20 | 150 | 9 | 50 | 4° | 3 | 1 | **210,94** |
| TA94100608L0253 | lunga | 25 | 25 | 150 | 9 | 50 | 3,5° | 3 | 1 | **256,25** |
| TA94100608L0324 | lunga | 32 | 32 | 200 | 9 | 60 | 3° | 4 | 1 | **287,50** |

## Fresa per spallamenti retti (90°) TA9410, con fori di refrigerazione e inserto bilaterale a 4 taglienti utili, attacco a manicotto



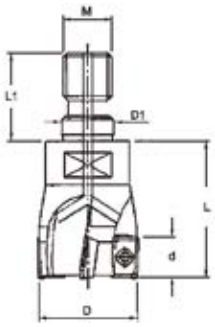



| Code | ØD | Ød | H | h | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA94100608M0404 | 40 | 16 | 40 | 9 | 2° | 4 | 1 | **301,60** |
| TA94100608M0405 | 40 | 16 | 40 | 9 | 2° | 5 | 1 | **278,13** |
| TA94100608M0505 | 50 | 22 | 40 | 9 | 1,5° | 5 | 1 | **343,71** |
| TA94100608M0507 | 50 | 22 | 40 | 9 | 1,5° | 7 | 1 | **300,00** |
| TA94100608M0639 | 63 | 22 | 40 | 9 | 1,5° | 9 | 1 | **325,00** |

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| LN.. 1006.. | TA110P060800000 | TA09CP060800000 |

## Fresa per spallamenti retti (90°) TA9410, con fori di refrigerazione e inserto bilaterale a 4 taglienti utili, attacco filettato



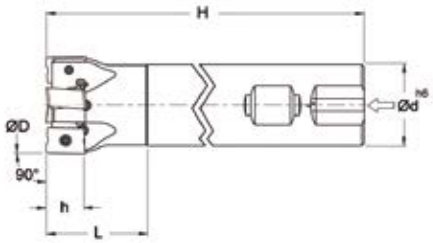



| Code | D | D1 | d | L | L1 | M | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA94100608F0203 | 20 | 10,5 | 10 | 30 | 20 | M10 | 3 | 1 | **193,75** |
| TA94100608F0253 | 25 | 12,5 | 10 | 35 | 22 | M12 | 3 | 1 | **235,94** |
| TA94100608F0324 | 32 | 17 | 10 | 43 | 24 | M16 | 4 | 1 | **273,44** |

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| LN.. 1006.. | TA110P060800000 | TA09CP060400000 |

## Fresa per spallamenti retti (90°) TA9415, con fori di refrigerazione e inserto bilaterale a 4 taglienti utili, attacco weldon

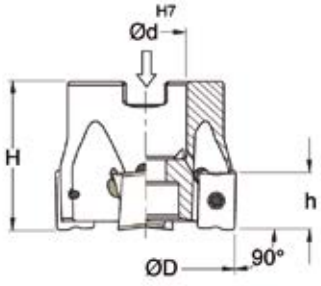





| Code | ØD | Ød | H | h | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA94150608W0322 | 32 | 32 | 125 | 14 | 2,5° | 2 | 1 | **270,35** |
| TA94150608W0323 | 32 | 32 | 125 | 14 | 2,5° | 3 | 1 | **306,95** |
| TA94150608W0403 | 40 | 32 | 130 | 14 | 2° | 3 | 1 | **329,34** |
| TA94150608W0404 | 40 | 32 | 130 | 14 | 2° | 4 | 1 | **361,59** |

## Fresa per spallamenti retti (90°) TA9415, con fori di refrigerazione e inserto bilaterale a 4 taglienti utili, attacco a manicotto



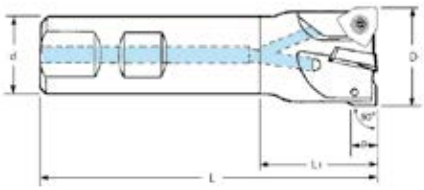



| Code | ØD | Ød | H | h | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA94150608M0503 | 50 | 22 | 40 | 14 | 2° | 3 | 1 | **289,07** |
| TA94150608M0504 | 50 | 22 | 40 | 14 | 2° | 4 | 1 | **325,83** |
| TA94150608M0505 | 50 | 22 | 50 | 14 | 2° | 5 | 1 | **278,13** |
| TA94150608M0634 | 63 | 22 | 40 | 14 | 2° | 4 | 1 | **361,59** |
| TA94150608M0636 | 63 | 22 | 40 | 14 | 2° | 6 | 1 | **300,00** |
| TA94150608M0805 | 80 | 27 | 50 | 14 | 1,5° | 5 | 1 | **456,49** |
| TA94150608M0807 | 80 | 27 | 50 | 14 | 1,5° | 7 | 1 | **325,00** |
| TA94150608M1008 | 100 | 32 | 50 | 14 | 1,5° | 8 | 1 | **389,06** |
| TA94150608M1251 | 125 | 40 | 63 | 14 | 1,5° | 10 | 1 | **681,25** |

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| LN.. 1510.. | TA160P060800000 | TA16CP060400000 |

## Fresa per spallamenti retti (90°) TA9004, con fori di refrigerazione, attacco weldon o cilindrico

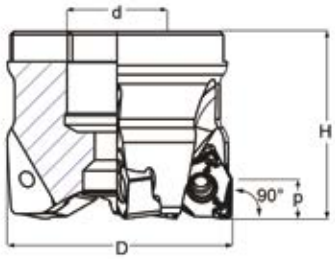





| Code | D | d | L | L1 | z | p | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA90040604W0200 | 20 | 20 | 100 | 30 | 3 | 4 | 1 | **182,81** |
| TA90040604W0250 | 25 | 25 | 115 | 35 | 4 | 4 | 1 | **223,44** |
| TA90040604W0320 | 32 | 32 | 125 | 40 | 5 | 4 | 1 | **248,44** |
| TA90040604L0200 | 20 | 20 | 150 | 40 | 3 | 4 | 1 | **218,75** |
| TA90040604L0250 | 25 | 25 | 175 | 50 | 4 | 4 | 1 | **267,19** |
| TA90040604L0320 | 32 | 32 | 195 | 70 | 5 | 4 | 1 | **301,56** |

## Fresa per spallamenti retti (90°) TA9004, con fori di refrigerazione, attacco a manicotto



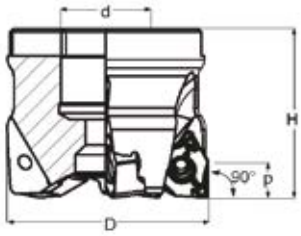



| Code | D | d | H | z | p | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA90040604M0320 | 32 | 16 | 40 | 6 | 4 | 1 | **284,38** |
| TA90040604M0400 | 40 | 16 | 40 | 6 | 4 | 1 | **290,63** |
| TA90040604M0500 | 50 | 22 | 50 | 8 | 4 | 1 | **314,06** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| WNEU.. 040308.. | TA440V060400000 | TA08TB060400000 |

## Fresa per spallamenti retti (90°) TA9008, con fori di refrigerazione, attacco a manicotto



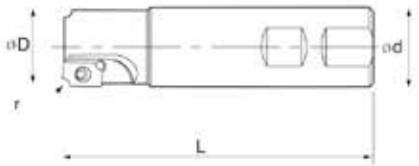



| Code | D | d | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA90080604M0500 | 50 | 22 | 40 | 7 | 5 | 1 | **376,56** |
| TA90080604M0630 | 63 | 22 | 40 | 7 | 6 | 1 | **425,00** |
| TA90080604M0800 | 80 | 27 | 50 | 7 | 7 | 1 | **479,69** |
| TA90080604M1000 | 100 | 32 | 50 | 7 | 8 | 1 | **589,06** |
| TA90080604M1250 | 125 | 40 | 63 | 7 | 10 | 1 | **753,13** |
| TA90080604M1600 | 160 | 40 | 63 | 7 | 11 | 1 | **875,00** |

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| WNEU.. 080608.. | TA160V060400000 | TA15TB060400000 |

## Fresa a raggio concavo TA9019

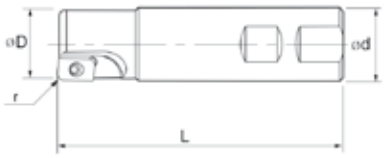




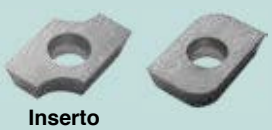

| Code | ØD | Ød | L | r | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA9019060900015 | 19 | 16 | 120 | 1-5 | 1 | 1 | **213,60** |
| TA9019060900057 | 27 | 20 | 120 | 5-7 | 1 | 1 | **249,86** |
| TA9019060900810 | 32 | 20 | 120 | 8-10 | 1 | 1 | **277,24** |

## Fresa torica TA9020



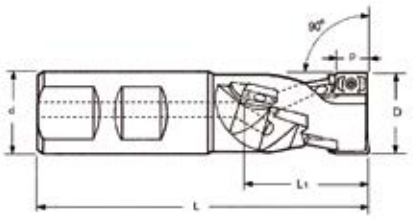



| Code | ØD | Ød | L | r | z | | € / cad. |
|---|---|---|---|---|---|---|---|
| TA9020060900015 | 19 | 16 | 120 | 1-5 | 1 | 1 | **213,60** |
| TA9020060900057 | 27 | 20 | 120 | 5-7 | 1 | 1 | **249,86** |
| TA9020060900810 | 32 | 20 | 120 | 8-10 | 1 | 1 | **319,89** |

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| ADL.. 1503.. (R1-5) | TA910V060900000 | TA150C060400000 |
| APL.. 2004.. (R5-7) | TA912V060900000 | TA200C060400000 |
| SPU.. 1904.. (R8-10) | TA914V060900000 | TA155C060900000 |

## Fresa a riccio (90°) TA9007, con fori di refrigerazione, attacco weldon

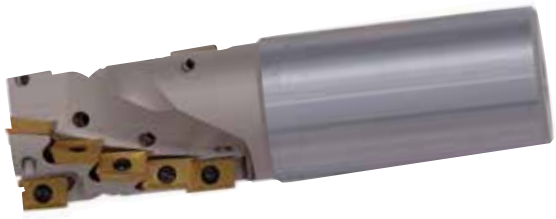


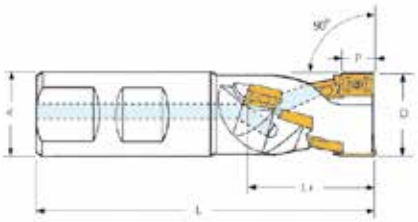



| Code | D | d | L | L1 | z | K | p | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90070604W0160 | 16 | 16 | 80 | 19,8 | 8 | 2 | 5,2 | 1 | **468,75** |
| TA90070604W0200 | 20 | 20 | 90 | 24,6 | 15 | 3 | 5,2 | 1 | **706,25** |
| TA90070604W0250 | 25 | 25 | 100 | 29,4 | 30 | 5 | 5,2 | 1 | **884,38** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| APKT.. 060204.. | TA160V060400000 | TA06TB060400000 |

## Fresa a riccio (90°) TA9011, con fori di refrigerazione, attacco weldon





| Code | D | d | L | L1 | p | K | z° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90110604W0200 | 20 | 20 | 86 | 28 | 10 | 1 | 4 | 1 | **393,75** |
| TA90110604W0250 | 25 | 25 | 100 | 36 | 10 | 2 | 8 | 1 | **476,56** |
| TA90110604W0322 | 32 | 32 | 120 | 45 | 10 | 2 | 12 | 1 | **589,06** |
| TA90110604W0323 | 32 | 32 | 120 | 45 | 10 | 3 | 15 | 1 | **709,38** |
| TA90110604W0400 | 40 | 32 | 130 | 54 | 10 | 3 | 18 | 1 | **812,50** |

## Fresa a riccio TA9011, attacco a manicotto



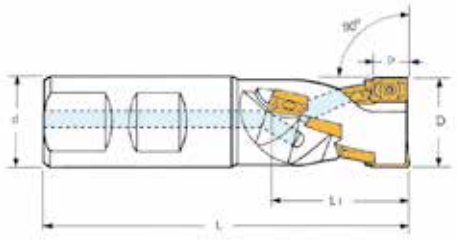


| Code | D | d | L | L1 | p | K | z° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90110604M0400 | 40 | 16 | 50 | 37 | 10 | 3 | 12 | 1 | **712,50** |
| TA90110604M0500 | 50 | 22 | 60 | 46 | 10 | 3 | 15 | 1 | **865,63** |
| TA90110604M0630 | 63 | 27 | 60 | 46 | 10 | 4 | 20 | 1 | **1034,38** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

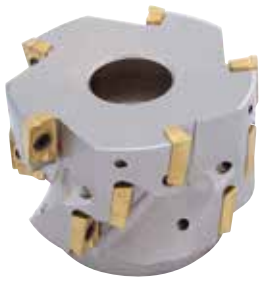
## Fresa a riccio (90°) TA9066, con fori di refrigerazione, attacco weldon

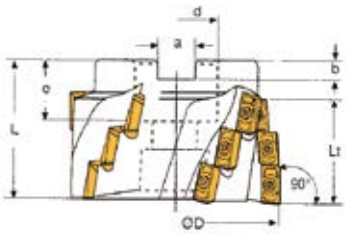




| Code | D | d | L | L1 | p | K | z° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA90660604W0250 | 25 | 25 | 105 | 29 | 17 | 1 | 2 | 1 | **406,25** |
| TA90660604W0320 | 32 | 32 | 115 | 44 | 17 | 2 | 6 | 1 | **543,75** |
| TA90660604W0400 | 40 | 32 | 130 | 58 | 17 | 2 | 8 | 1 | **632,81** |

## Fresa a riccio (90°) TA9066, con fori di refrigerazione, attacco a manicotto



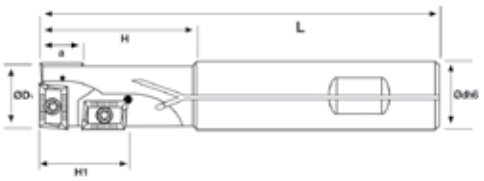


| Code | ØD | d | L | Lt | e | a | b | K | z° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA90660604M0500 | 50 | 27 | 50 | 30 | 28 | 12,4 | 7 | 3 | 6 | 1 | **471,88** |
| TA90660604M0630 | 63 | 27 | 60 | 44 | 28 | 12,4 | 7 | 4 | 12 | 1 | **632,81** |
| TA90660604M0800 | 80 | 32 | 60 | 44 | 28 | 12,4 | 8 | 5 | 15 | 1 | **846,88** |
| TA90660604M1000 | 100 | 40 | 60 | 44 | 30 | 16,4 | 9 | 6 | 18 | 1 | **1.118,75** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 1604.. | TA160V060400000 | TA15TB060400000 |

## Fresa forante TA9061, con fori di refrigerazione, attacco weldon



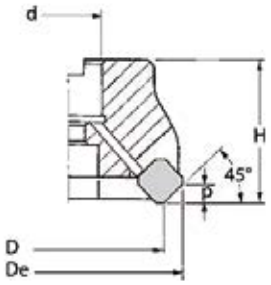



| Code | Serie | ØD1 | Ødh6 | L | H | H1 | a | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA90610604W0200 | standard | 20 | 20 | 90 | 35 | 17 | 9 | 3 | 1 | **212,50** |
| TA90610604W0250 | standard | 25 | 25 | 110 | 50 | 19 | 9 | 3 | 1 | **254,69** |
| TA90610604W0320 | standard | 32 | 32 | 130 | 50 | 30 | 15 | 3 | 1 | **273,44** |
| TA90610604L0200 | lunga | 20 | 20 | 150 | 30 | 17 | 9 | 3 | 1 | **235,94** |
| TA90610604L0250 | lunga | 25 | 25 | 150 | 50 | 19 | 9 | 3 | 1 | **275,00** |
| TA90610604X0200 | extra lunga | 20 | 20 | 180 | 30 | 17 | 9 | 3 | 1 | **254,69** |
| TA90610604X0250 | extra lunga | 25 | 25 | 200 | 50 | 19 | 9 | 3 | 1 | **279,69** |
| TA90610604X0320 | extra lunga | 32 | 32 | 220 | 50 | 30 | 15 | 3 | 1 | **300,00** |

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |
| AP.. 1604.. | TA160V060400000 | TA15TB060400000 |

## Fresa per spianatura (45°) TA4513, con fori di refrigerazione, attacco manicotto





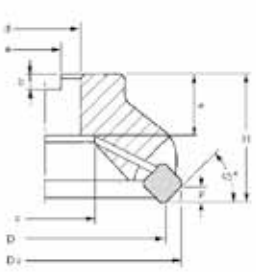

| Code | Passo | D | De | dH7 | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA45130604M0500 | standard | 50 | 63 | 22 | 40 | 6 | 4 | 1 | **235,94** |
| TA45130604M0630 | standard | 63 | 76 | 22 | 40 | 6 | 5 | 1 | **279,69** |
| TA45130604M0800 | standard | 80 | 93 | 27 | 50 | 6 | 6 | 1 | **334,38** |
| TA45130604M1000 | standard | 100 | 113 | 32 | 50 | 6 | 7 | 1 | **395,31** |
| TA45130604M1250 | standard | 125 | 138 | 40 | 63 | 6 | 8 | 1 | **462,50** |
| TA45130604M1600* | standard | 160 | 173 | 40 | 63 | 6 | 10 | 1 | **851,56** |
| TA45130604M2000* | standard | 200 | 213 | 60 | 63 | 6 | 12 | 1 | **1.276,56** |
| TA45130604M2500* | standard | 250 | 263 | 60 | 63 | 6 | 16 | 1 | **1.642,19** |
| TA45130604F0500 | fine | 50 | 63 | 22 | 40 | 6 | 5 | 1 | **290,63** |
| TA45130604F0630 | fine | 63 | 76 | 22 | 40 | 6 | 6 | 1 | **346,88** |
| TA45130604F0800 | fine | 80 | 93 | 27 | 50 | 6 | 8 | 1 | **412,50** |
| TA45130604F1000 | fine | 100 | 113 | 32 | 50 | 6 | 10 | 1 | **492,19** |
| TA45130604F1250 | fine | 125 | 138 | 40 | 63 | 6 | 12 | 1 | **578,13** |
| TA45130604F1600* | fine | 160 | 173 | 40 | 63 | 6 | 16 | 1 | **1.064,06** |

*senza fori di refrigerazione

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SE.. 13T3.. | TA130V060400000 | TA150C060400000 |

## Fresa per spianatura (45°) TA4512, con fori di refrigerazione, attacco manicotto





| Code | D | De | dH7 | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA45120604M0500 | 50 | 63 | 22 | 17 | 21 | 10,4 | 6,3 | 1 | **260,94** |
| TA45120604M0630 | 63 | 76 | 22 | 19 | 21 | 10,4 | 6,3 | 1 | **307,81** |
| TA45120604M0800 | 80 | 93 | 27 | 38 | 24 | 12,4 | 7 | 1 | **368,75** |
| TA45120604M1000 | 100 | 113 | 32 | 45 | 26 | 14,4 | 8 | 1 | **435,94** |
| TA45120604M1250 | 125 | 138 | 40 | 56 | 32 | 16,4 | 9 | 1 | **509,38** |
| TA45120604M1600 | 160 | 173 | 40 | - | - | - | 9 | 1 | **939,06** |
| TA45120604M2000* | 200 | 213 | 60 | - | - | - | 13,5 | 1 | **1.409,38** |
| TA45120604M2500* | 250 | 263 | 60 | - | - | - | 13,5 | 1 | **1.810,94** |

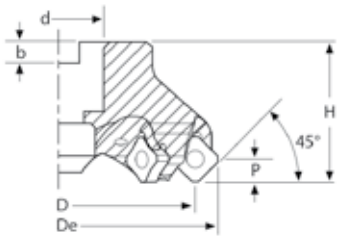
*senza fori di refrigerazione

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SD.. 1204.. | TA124V060400000 | TA200C060400000 |

**Fresa per spianatura (45°) TA4506, con fori di refrigerazione e inserto bilaterale, attacco a manicotto. Doppio utilizzo: inserti quadrati e ottagonali sulla stessa fresa**








| Code | Passo | D | De | dH7 | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA45060604M0500 | standard | 50 | 63 | 22 | 6,3 | 40 | 6 | 4 | 1 | **223,44** |
| TA45060604M0630 | standard | 63 | 76 | 22 | 6,3 | 40 | 6 | 6 | 1 | **242,19** |
| TA45060604M0800 | standard | 80 | 93 | 27 | 7 | 50 | 6 | 7 | 1 | **312,50** |
| TA45060604M1000 | standard | 100 | 113 | 32 | 8 | 50 | 6 | 8 | 1 | **340,63** |
| TA45060604M1250 | standard | 125 | 138 | 40 | 9 | 63 | 6 | 10 | 1 | **401,56** |
| TA45060604M1600 | standard | 160 | 173 | 40 | 9 | 63 | 6 | 12 | 1 | **668,75** |
| TA45060604M2000* | standard | 200 | 213 | 60 | 13,5 | 63 | 6 | 14 | 1 | **1.210,94** |
| TA45060604M2500* | standard | 250 | 263 | 60 | 13,5 | 63 | 6 | 16 | 1 | **1.520,31** |
| TA45060604F0500 | fine | 50 | 63 | 22 | 6,3 | 40 | 6 | 6 | 1 | **254,69** |
| TA45060604F0630 | fine | 63 | 76 | 22 | 6,3 | 40 | 6 | 8 | 1 | **290,63** |
| TA45060604F0800 | fine | 80 | 93 | 27 | 7 | 50 | 6 | 10 | 1 | **351,56** |
| TA45060604F1000 | fine | 100 | 113 | 32 | 8 | 50 | 6 | 12 | 1 | **412,50** |
| TA45060604F1250 | fine | 125 | 138 | 40 | 9 | 63 | 6 | 16 | 1 | **668,75** |
| TA45060604F1600 | fine | 160 | 173 | 40 | 9 | 63 | 6 | 20 | 1 | **1.004,69** |

*senza fori di refrigerazione

|  **Inserto** |  **Vite inserto** |  **Chiave** |
|---|---|---|
| SN.. 1206..<br>ONMU 1205.. | TA126V060400000 | TA20TB060400000 |

## Fresa per spianatura (45°) TA4501, con fori di refrigerazione, attacco weldon



| Code | D | De | dH7 | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA45010604W0250 | 25 | 38 | 25 | 100 | 44 | 6 | 2 | 1 | **214,06** |
| TA45010604W0320 | 32 | 45 | 25 | 110 | 54 | 6 | 3 | 1 | **270,31** |
| TA45010604W0400 | 40 | 53 | 32 | 115 | 55 | 6 | 4 | 1 | **331,25** |

## Fresa per spianatura (45°) TA4501, con fori di refrigerazione, attacco a manicotto



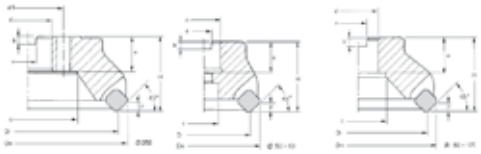
| Code | Passo | D | De | dH7 | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA45010604M0400 | standard | 40 | 53 | 16 | 14 | 18 | 8,4 | 5,6 | 40 | 6 | 3 | 1 | **181,25** |
| TA45010604M0500 | standard | 50 | 63 | 22 | 17 | 21 | 10,4 | 6,3 | 48 | 6 | 4 | 1 | **206,25** |
| TA45010604M0630 | standard | 63 | 76 | 22 | 19 | 21 | 10,4 | 6,3 | 48 | 6 | 5 | 1 | **242,19** |
| TA45010604M0800 | standard | 80 | 93 | 27 | 38 | 24 | 12,4 | 7 | 50 | 6 | 6 | 1 | **290,63** |
| TA45010604M1000 | standard | 100 | 113 | 32 | 45 | 26 | 14,4 | 8 | 50 | 6 | 6 | 1 | **340,63** |
| TA45010604M1250 | standard | 125 | 138 | 40 | 56 | 32 | 16,4 | 9 | 63 | 6 | 7 | 1 | **401,56** |
| TA45010604M1600 | standard | 160 | 173 | 40 | - | - | - | 9 | 63 | 6 | 8 | 1 | **668,75** |
| TA45010604M2000* | standard | 200 | 213 | 60 | - | - | - | 13,5 | 63 | 6 | 12 | 1 | **1.325,00** |
| TA45010604M2500* | standard | 250 | 263 | 60 | - | - | - | 13,5 | 63 | 6 | 16 | 1 | **1.673,44** |
| TA45010604F0400 | fine | 40 | 53 | 16 | 14 | 18 | 8,4 | 5,6 | 40 | 6 | 4 | 1 | **242,19** |
| TA45010604F0500 | fine | 50 | 63 | 22 | 17 | 21 | 10,4 | 6,3 | 48 | 6 | 5 | 1 | **254,69** |
| TA45010604F0630 | fine | 63 | 76 | 22 | 19 | 21 | 10,4 | 6,3 | 48 | 6 | 6 | 1 | **290,63** |
| TA45010604F0800 | fine | 80 | 93 | 27 | 38 | 24 | 12,4 | 7 | 50 | 6 | 7 | 1 | **351,56** |
| TA45010604F1000 | fine | 100 | 113 | 32 | 45 | 26 | 14,4 | 8 | 50 | 6 | 8 | 1 | **412,50** |
| TA45010604F1250 | fine | 125 | 138 | 40 | 56 | 32 | 16,4 | 9 | 63 | 6 | 9 | 1 | **485,94** |
| TA45010604F1600 | fine | 160 | 173 | 40 | - | - | - | 9 | 63 | 6 | 10 | 1 | **851,56** |

*senza fori di refrigerazione

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SE.. 1204.. | TA121V060400000 | TA200C060400000 |

## Fresa per spianatura (45°) TA4503, senza fori di refrigerazione, attacco a manicotto



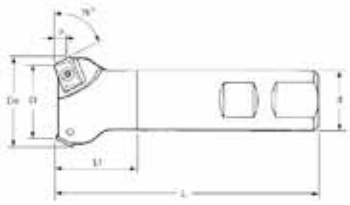


| Code | D | De | d | d1 | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA45030604M0500 | 50 | 63 | 22 | - | 17 | 21 | 10,4 | 6,3 | 48 | 6 | 4 | 1 | **335,94** |
| TA45030604M0630 | 63 | 76 | 22 | - | 19 | 21 | 10,4 | 6,3 | 40 | 6 | 5 | 1 | **384,38** |
| TA45030604M0800 | 80 | 93 | 27 | - | 38 | 24 | 12,4 | 7 | 50 | 6 | 6 | 1 | **425,00** |
| TA45030604M1000 | 100 | 113 | 32 | - | 45 | 26 | 14,4 | 8 | 50 | 6 | 6 | 1 | **489,06** |
| TA45030604M1250 | 125 | 138 | 40 | - | 56 | 32 | 16,4 | 9 | 63 | 6 | 7 | 1 | **607,81** |
| TA45030604M1600 | 160 | 173 | 40 | 66,7 | 86 | 32 | 16,4 | 9 | 63 | 6 | 7 | 1 | **859,38** |
| TA45030604M2000 | 200 | 213 | 60 | 101,7 | 129 | 32 | 25,7 | 14 | 63 | 6 | 10 | 1 | **1.523,44** |
| TA45030604M2500 | 250 | 263 | 60 | 101,7 | 178 | 32 | 25,7 | 14 | 63 | 6 | 13 | 1 | **1.923,44** |

|  Inserto |  Vite inserto |  Vite bloccaggio |  Sede |  Chiave |
|---|---|---|---|---|
| SE.. 1203.. | TA12VP060400000 | TA12VS060400000 | TA12ST060400000 | TA02TT060400000<br>TA02ES060400000 |

## Fresa per spianatura (75°) TA7510, con fori di refrigerazione, attacco weldon



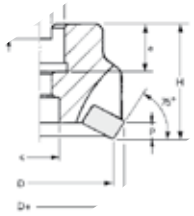


| Code | D | De | dH7 | L | L1 | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA75100604W0250 | 25 | 28,6 | 20 | 95 | 25 | 4 | 2 | 1 | **173,44** |
| TA75100604W0320 | 32 | 35,6 | 25 | 95 | 25 | 4 | 3 | 1 | **214,06** |
| TA75100604W0400 | 40 | 43,6 | 25 | 100 | 25 | 4 | 4 | 1 | **260,94** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

## Fresa per spianatura (75°) TA7510, con fori di refrigerazione, attacco a manicotto



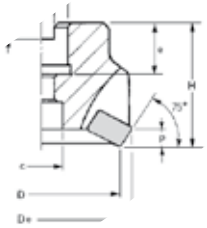


| Code | D | De | d | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA75100604M0500 | 50 | 54 | 22 | 17 | 21 | 10,4 | 6,3 | 40 | 6,5 | 5 | 1 | **267,19** |
| TA75100604M0630 | 63 | 67 | 22 | 14 | 21 | 10,4 | 6,3 | 40 | 6,5 | 6 | 1 | **301,56** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

## Fresa per spianatura (75°) TA7516, con fori di refrigerazione, attacco a manicotto





| Code | D | De | d | c | e | a | b | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA75160604M0630 | 50 | 54 | 16 | 14 | 21 | 8,4 | 5,6 | 40 | 6,5 | 3 | 1 | **217,19** |
| TA75160604M0800 | 63 | 67 | 22 | 17 | 21 | 10,4 | 6,3 | 40 | 6,5 | 4 | 1 | **246,88** |
| TA75160604M1000 | 80 | 84 | 27 | 20 | 22 | 12,4 | 7 | 50 | 6,5 | 5 | 1 | **287,50** |
| TA75160604M1250 | 100 | 104 | 32 | 45 | 26 | 14,4 | 8 | 50 | 6,5 | 6 | 1 | **328,13** |
| TA75160604M1600 | 125 | 129 | 40 | 56 | 32 | 16,4 | 9 | 63 | 6,5 | 7 | 1 | **395,31** |

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| AP.. 1604.. | TA160V060400000 | TA150C060400000 |

## Fresa per smussi, scanalature a V e centrature (45°) TA1645, con fori di refrigerazione



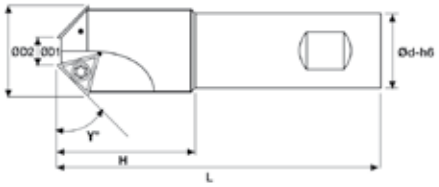



| Code | Serie | Ødh6 | L | L1 | y° | z | ØDmin | ØDmax | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA16450604W0200 | standard | 20 | 115 | 40 | 45° | 1 | 0,8 | 20 | 1 | **207,81** |
| TA16450604L0200 | lunga | 20 | 150 | 60 | 45° | 1 | 0,8 | 20 | 1 | **234,38** |
| TA16450604X0200 | extra lunga | 20 | 200 | 80 | 45° | 1 | 0,8 | 20 | 1 | **267,19** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| TCGX 16T308.. | TA160V060400000 | TA15TB060400000 |

## Fresa per smussi e svasature (45°-60°30°) TA4511-TA6011-TA3011, con fori di refrigerazione, attacco weldon






| Code | Inclinazione | ØD1 | ØD2 | L | H | Ødh6 | Y° | z | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA45110604W0160 | 45° | 1,2 | 16 | 70 | 20 | 12 | 45° | 1 | TC.. 1102.. | 1 | **106,25** |
| TA45110604W0210 | 45° | 6,2 | 21 | 90 | 35 | 20 | 45° | 2 | TC.. 1102.. | 1 | **139,06** |
| TA45110604W0320 | 45° | 10,4 | 32,5 | 100 | 42 | 25 | 45° | 2 | TC.. 16T3.. | 1 | **235,94** |
| | | | | | | | | | | | |
| TA60110604W0160 | 60° | 5,4 | 16 | 70 | 20 | 12 | 60° | 1 | TC.. 1102.. | 1 | **106,25** |
| TA60110604W0270 | 60° | 15,8 | 26 | 90 | 35 | 20 | 60° | 2 | TC.. 1102.. | 1 | **145,31** |
| TA60110604W0320 | 60° | 20 | 35 | 100 | 39 | 25 | 60° | 2 | TC.. 16T3.. | 1 | **235,94** |
| | | | | | | | | | | | |
| TA30110604W0320 | 30° | 6 | 32 | 100 | 38 | 25 | 30° | 2 | TC.. 16T3.. | 1 | **214,06** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| TC.. 1102.. | TA100V060400000 | TA08TB060400000 |
| TC.. 16T3.. | TA160V060400000 | TA15TB060400000 |

## Set frese per smussi e svasature (45°) TA4511, con fori di refrigerazione



| Code | Composizione | | € / cad. |
|---|---|---|---|
| TA45110604SET01 | Set composto da una fresa TA45110604W0160<br>e una fresa TA45110604W0210 | 1 | **284,38** |

## Set frese per smussi e svasature (60°) TA6011, con fori di refrigerazione



| Code | Composizione | | € / cad. |
|---|---|---|---|
| TA60110604SET01 | Set composto da una fresa TA60110604W0160<br>e una fresa TA60110604W0270 | 1 | **284,38** |

## Fresa per smussi, retrosmussi e svasature (45°) TA4504-TA4505, con fori di refrigerazione, attacco weldon






dis. 1




dis. 2

| Code | Serie | Disegno | ØD1 | ØD2 | L | H | Ødh6 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA45040604W0040 | standard | 1 | 4 | 10 | 80 | 28 | 12 | 1 | 1 | **140,63** |
| TA45040604W0110 | standard | 2 | 11 | 20 | 80 | 32 | 12 | 2 | 1 | **206,25** |
| TA45040604W0120 | standard | 1 | 12 | 23,7 | 100 | 37 | 20 | 1 | 1 | **117,19** |
| TA45040604W0160 | standard | 2 | 16 | 28,8 | 100 | 32 | 16 | 2 | 1 | **184,38** |
| TA45040604W0250 | standard | 2 | 30 | 42,3 | 100 | 32 | 20 | 3 | 1 | **214,06** |
| TA45040604L0120 | lunga | 1 | 12 | 23,7 | 200 | 37 | 20 | 1 | 1 | **168,75** |
| TA45040604L0160 | lunga | 2 | 16 | 28,8 | 200 | 32 | 16 | 2 | 1 | **198,44** |
| TA45040604L0250 | lunga | 2 | 30 | 42,3 | 200 | 32 | 20 | 3 | 1 | **265,63** |

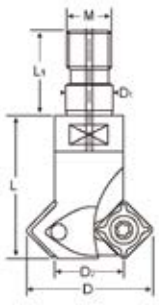
|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| SC.. 09T3 | TA160V060400000 | TA15TB060400000 |

| Code | Serie | Disegno | ØD1 | ØD2 | L | H | Ødh6 | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA45050604W0040 | standard | 1 | 4 | 10 | 80 | 28 | 12 | 1 | 1 | **146,88** |
| TA45050604W0110 | standard | 2 | 11 | 20 | 80 | 32 | 12 | 2 | 1 | **214,06** |
| TA45050604W0120 | standard | 1 | 12 | 23,7 | 100 | 37 | 20 | 1 | 1 | **120,31** |
| TA45050604W0160 | standard | 2 | 16 | 28,8 | 100 | 32 | 16 | 2 | 1 | **192,19** |
| TA45050604W0300 | standard | 2 | 30 | 42,3 | 100 | 32 | 20 | 3 | 1 | **221,88** |

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SD.. 0603.. | TA100V060400000 | TA08TB060400000 |
| SD.. 09T3.. | TA122V060400000 | TA15TB060400000 |

## Fresa per smussi, retrosmussi e svasature (45°) TA4505, con fori di refrigerazione, attacco filettato



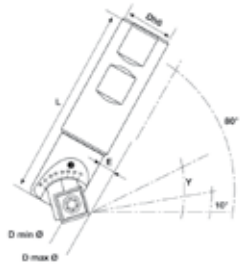


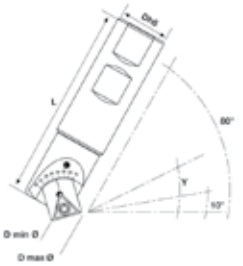

| Code | D | D1 | D2 | L | L1 | M | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA45050604F0120 | 23,7 | 8,5 | 12 | 30 | 17,5 | M8 | 1 | 1 | **134,38** |
| TA45050604F0160 | 28,8 | 10,5 | 16 | 30 | 20 | M10 | 2 | 1 | **164,06** |
| TA45050604F0300 | 42,3 | 17 | 30 | 35 | 24 | M16 | 3 | 1 | **212,50** |

|  **Inserto** |  **Vite inserto** |  **Giravite** |
|---|---|---|
| SP.. 09T3.. | TA122V060400000 | TA15TB060400000 |

## Fresa per smussi e svasature registrabile da 10° a 80° TA8010, senza fori di refrigerazione, attacco weldon







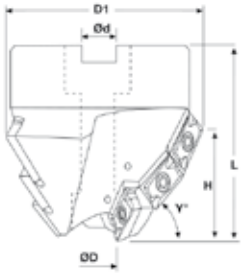
| Code | Serie | Ødh6 | L | | € / cad. |
|---|---|---|---|---|---|
| TA80100604W0200 | standard | 20 | 100 | 1 | **364,06** |
| TA80100604W0250 | standard | 25 | 100 | 1 | **364,06** |
| TA80100604L0250 | lunga | 25 | 150 | 1 | **395,31** |
| TA80100604X0250 | extra lunga | 25 | 200 | 1 | **425,00** |

| Inserto | Y | Ø min | Ø max | Portainserto | Vite inserto | Vite staffa | Chiave |
|---|---|---|---|---|---|---|---|
| TC.. 16T3.. | 10° | 5 | 32 | TA16RC060400000 | TA160V060400000 | TA16VP060400000 | TA15TB060400000 |
| | 20° | 6 | 33 | | | | |
| | 30° | 7 | 34 | | | | |
| | 40° | 10 | 33 | | | | |
| | 45° | 11 | 33 | | | | |
| | 50° | 13 | 32 | | | | |
| | 60° | 16 | 31 | | | | |
| | 70° | 19 | 29 | | | | |
| | 80° | 23 | 27 | | | | |

| Inserto | Y | Ø min | Ø max | E | Portainserto | Vite inserto | Vite staffa | Chiave |
|---|---|---|---|---|---|---|---|---|
| SC.. 1204.. | 10° | 7,5 | 30 | 2,7 | TA12RC060400000 | TA126V060400000 | TA16VP060400000 | TA20TB060400000 |
| | 20° | 10 | 32 | 3,6 | | | | |
| | 30° | 13 | 32,5 | 4,3 | | | | |
| | 40° | 16,5 | 33,5 | 4,5 | | | | |
| | 45° | 17,5 | 33,5 | 4,6 | | | | |
| | 50° | 19 | 33,5 | 4,6 | | | | |
| | 60° | 22 | 33,5 | 4,3 | | | | |
| | 70° | 24,5 | 33,5 | 3,8 | | | | |
| | 80° | 27 | 31 | 3 | | | | |

## Fresa per smussi (15°-30°-40°-60°-75°) TA1575, con fori di refrigerazione, attacco a manicotto






| Code | ØD | ØD1 | d | L | H | Y° | K | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA15750604M1015 | 17 | 70 | 22 | 50 | 7 | 15° | 3 | 9 | 1 | **668,75** |
| TA15750604M1020 | 19 | 69 | 22 | 50 | 9 | 20° | 3 | 9 | 1 | **668,75** |
| TA15750604M1030 | 17 | 65 | 22 | 50 | 13 | 30° | 3 | 9 | 1 | **668,75** |
| TA15750604M1040 | 17 | 60 | 22 | 50 | 17 | 40° | 3 | 9 | 1 | **668,75** |
| TA15750604M1045 | 17 | 56 | 22 | 50 | 19 | 45° | 3 | 9 | 1 | **668,75** |
| TA15750604M1060 | 17 | 45 | 16 | 50 | 24 | 60° | 3 | 9 | 1 | **668,75** |
| TA15750604M1075 | 19 | 33 | 16 | 60 | 27 | 75° | 3 | 9 | 1 | **668,75** |



**Inserto**



**Vite inserto**

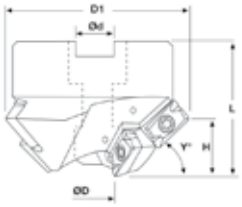


**Chiave**

| | | |
|---|---|---|
| AP.. 1003.. | TA100V060400000 | TA08TB060400000 |

## Fresa per smussi (15°-30°-40°-45°-60°-75°) TA1579, con fori di refrigerazione, attacco a manicotto






| Code | ØD | ØD1 | d | L | H | Y° | K | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA15790604M1615 | 35 | 94 | 27 | 50 | 8 | 15° | 3 | 6 | 1 | **668,75** |
| TA15790604M1620 | 35 | 91 | 27 | 50 | 10 | 20° | 3 | 6 | 1 | **668,75** |
| TA15790604M1630 | 35 | 88 | 27 | 50 | 15 | 30° | 3 | 6 | 1 | **668,75** |
| TA15790604M1640 | 35 | 84 | 27 | 50 | 19 | 40° | 3 | 6 | 1 | **668,75** |
| TA15790604M1645 | 35 | 77,8 | 27 | 50 | 21,5 | 45° | 3 | 6 | 1 | **668,75** |
| TA15790604M1650 | 35 | 73 | 27 | 50 | 23 | 50° | 3 | 6 | 1 | **668,75** |
| TA15790604M1660 | 35 | 65 | 27 | 50 | 26,5 | 60° | 3 | 6 | 1 | **668,75** |
| TA15790604M1675 | 35 | 50,7 | 22 | 60 | 29,5 | 75° | 3 | 6 | 1 | **668,75** |



**Inserto**



**Vite inserto**

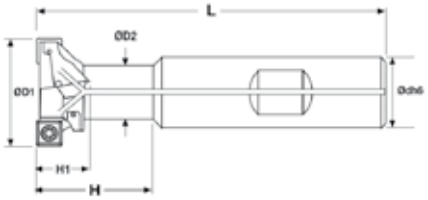


**Chiave**

| | | |
|---|---|---|
| AP.. 1604.. | TA160V060400000 | TA15TB060400000 |

## Fresa per cave a «T» TA2500, con fori di refrigerazione, attacco weldon



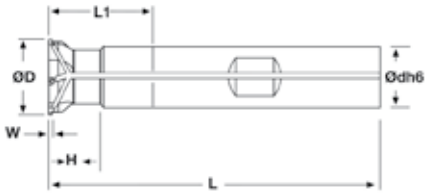



| Code | ØD1 | ØD2 | L | H | H1 | Ødh6 | K | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA25000604W0210 | 21 | 11 | 76 | 31 | 9 | 16 | 1 | 2 | 1 | **295,31** |
| TA25000604W0250 | 25 | 13 | 82 | 38 | 11 | 16 | 2 | 4 | 1 | **351,56** |
| TA25000604W0320 | 32 | 17 | 88 | 50 | 14 | 20 | 2 | 4 | 1 | **379,69** |
| TA25000604W0400 | 40 | 21 | 108 | 56 | 17 | 25 | 2 | 4 | 1 | **406,25** |
| TA25000604W0500 | 50 | 27 | 120 | 35 | 22 | 32 | 2 | 4 | 1 | **464,06** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| SP.. 0603.. | TA100V060400000 | TA08TB060400000 |
| SP.. 09T3.. | TA122V060400000 | TA15TB060400000 |
| SP.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Fresa per canalini TA2510, con fori di refrigerazione, attacco weldon

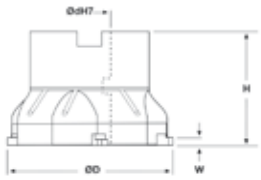





| Code | ØD | Ødh6 | L | H | L1 | Tmax | z | W | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA25100604W0190 | 19 | 16 | 100 | 20 | 52 | 1,5-4 | 1 | 1,1 - 3,15 | 154.3-16 | 1 | **223,07** |
| TA25100604W0340 | 34 | 20 | 125 | 25 | 75 | 1,5-4 | 3 | 1,1 - 3,15 | 154.3-16 | 1 | **360,92** |

## Fresa per canalini TA2510, con fori di refrigerazione, attacco a manicotto



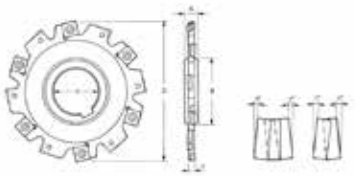



| Code | ØD | Ødh7 | H | Tmax | z | W | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA25100604M0480 | 48 | 16 | 40 | 1,5-4 | 4 | 1,1 - 3,15 | 1 | **486,24** |
| TA25100604M0630 | 63 | 22 | 40 | 1,5-4 | 5 | 1,1 - 3,15 | 1 | **498,77** |

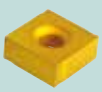
|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| 154.3-16.. | TA154V060400000 | TA15CP020800000 |

## Fresa per scanalatura e taglio TA1112, senza fori di refrigerazione



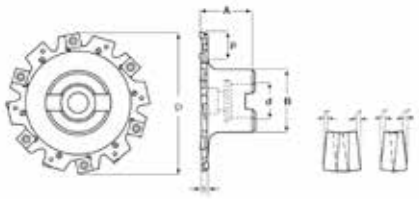


| Code | D | d | s | A | B | z | K | Prof. max taglio | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA11120604D0634 | 63 | 22 | 4 | 8 | 34 | 8 | 4 | 14 | SNHX 1102... | 1 | **713,31** |
| TA11120604D0635 | 63 | 22 | 5 | 8 | 34 | 8 | 4 | 14 | SNHX 1103... | 1 | **713,31** |
| TA11120604D0636 | 63 | 22 | 6 | 8 | 34 | 6 | 3 | 14 | SNHX 1203... | 1 | **713,31** |
| TA11120604D0804 | 80 | 22 | 4 | 8 | 34 | 10 | 5 | 22 | SNHX 1102... | 1 | **812,57** |
| TA11120604D0805 | 80 | 22 | 5 | 8 | 34 | 10 | 5 | 22 | SNHX 1103... | 1 | **812,57** |
| TA11120604D0806 | 80 | 22 | 6 | 8 | 34 | 8 | 4 | 22 | SNHX 1203... | 1 | **812,57** |
| TA11120604D1004 | 100 | 27 | 4 | 12 | 45 | 12 | 6 | 27 | SNHX 1102... | 1 | **979,99** |
| TA11120604D1005 | 100 | 27 | 5 | 12 | 45 | 12 | 6 | 27 | SNHX 1103... | 1 | **1.087,43** |
| TA11120604D1006 | 100 | 27 | 6 | 12 | 45 | 10 | 5 | 27 | SNHX 1203... | 1 | **979,99** |
| TA11120604D1010 | 100 | 27 | 10 | 12 | 45 | 10 | 5 | 27 | SNHX 1205... | 1 | **986,18** |
| TA11120604D1204 | 125 | 32 | 4 | 12 | 58 | 14 | 7 | 33 | SNHX 1102... | 1 | **1.405,07** |
| TA11120604D1205 | 125 | 32 | 5 | 12 | 58 | 14 | 7 | 33 | SNHX 1103... | 1 | **1.445,18** |
| TA11120604D1206 | 125 | 32 | 6 | 12 | 58 | 12 | 6 | 33 | SNHX 1203... | 1 | **1.414,93** |
| TA11120604D1210 | 125 | 32 | 10 | 12 | 58 | 12 | 6 | 33 | SNHX 1205... | 1 | **1.454,37** |
| TA11120604D1604 | 160 | 40 | 4 | 12 | 68 | 18 | 9 | 45 | SNHX 1102... | 1 | **1.332,81** |
| TA11120604D1605 | 160 | 40 | 5 | 12 | 68 | 18 | 9 | 45 | SNHX 1103... | 1 | **1.332,81** |
| TA11120604D1606 | 160 | 40 | 6 | 12 | 68 | 16 | 8 | 45 | SNHX 1203... | 1 | **1.332,81** |
| TA11120604D1610 | 160 | 40 | 10 | 12 | 68 | 16 | 8 | 45 | SNHX 1205... | 1 | **1.332,81** |
| TA11120604D1614 | 160 | 40 | 14 | 14 | 68 | 15 | 5 | 45 | SNHX 1205... | 1 | **1.502,66** |
| TA11120604D2004 | 200 | 50 | 4 | 12 | 72 | 18 | 9 | 63 | SNHX 1102... | 1 | **1.799,75** |
| TA11120604D2005 | 200 | 50 | 5 | 12 | 72 | 18 | 9 | 63 | SNHX 1103... | 1 | **1.818,46** |
| TA11120604D2006 | 200 | 50 | 6 | 12 | 72 | 18 | 9 | 63 | SNHX 1203... | 1 | **1.839,18** |
| TA11120604D2010 | 200 | 50 | 10 | 12 | 72 | 18 | 9 | 63 | SNHX 1205... | 1 | **1.898,16** |
| TA11120604D2014 | 200 | 50 | 14 | 14 | 72 | 18 | 6 | 63 | SNHX 1205... | 1 | **1.958,15** |
| TA11120604D2510 | 250 | 50 | 10 | 12 | 72 | 24 | 12 | 88 | SNHX 1205... | 1 | **2.074,44** |

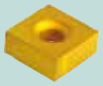
|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SNHX 1102.. | TA112V060400000 | TA090C060400000 |
| SNHX 1103.. | TA113V060400001 | TA090C060400000 |
| SNHX 1203.. | TA123V060400002 | TA150C060400000 |
| SNHX 1205.. | TA124V060400003 | TA150C060400000 |

## Fresa per scanalatura e taglio TA1111, senza fori di refrigerazione, attacco a manicotto



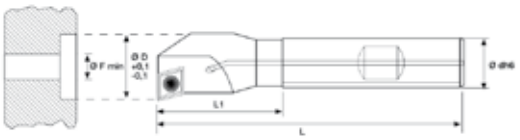


| Code | D | d | s | A | B | z | K | Prof. max taglio | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA11110604M0504 | 50 | 16 | 4 | 50 | 32 | 4 | 2 | 8,5 | SNHX 1102.. | 1 | **801,56** |
| TA11110604M0505 | 50 | 16 | 5 | 50 | 32 | 4 | 2 | 8,5 | SNHX 1103.. | 1 | **801,56** |
| TA11110604M0506 | 50 | 16 | 6 | 50 | 32 | 4 | 2 | 8,5 | SNHX 1203.. | 1 | **801,56** |
| TA11110604M0501 | 50 | 16 | 10 | 50 | 32 | 4 | 2 | 8,5 | SNHX 1205.. | 1 | **848,44** |
| TA11110604M0634 | 63 | 22 | 4 | 50 | 40 | 6 | 3 | 10,5 | SNHX 1102.. | 1 | **801,56** |
| TA11110604M0635 | 63 | 22 | 5 | 50 | 40 | 6 | 3 | 10,5 | SNHX 1103.. | 1 | **801,56** |
| TA11110604M0636 | 63 | 22 | 6 | 50 | 40 | 6 | 3 | 10,5 | SNHX 1203.. | 1 | **801,56** |
| TA11110604M0610 | 63 | 22 | 10 | 50 | 40 | 8 | 3 | 10,5 | SNHX 1205.. | 1 | **848,44** |
| TA11110604M0614 | 63 | 22 | 14 | 50 | 40 | 8 | 3 | 10,5 | SNHX 1205.. | 1 | **848,44** |
| TA11110604M0804 | 80 | 22 | 4 | 50 | 40 | 4 | 4 | 20,2 | SNHX 1102.. | 1 | **935,94** |
| TA11110604M0805 | 80 | 22 | 5 | 50 | 40 | 4 | 4 | 20,2 | SNHX 1103.. | 1 | **935,94** |
| TA11110604M0806 | 80 | 22 | 6 | 50 | 40 | 4 | 4 | 20,2 | SNHX 1203.. | 1 | **935,94** |
| TA11110604M0810 | 80 | 22 | 10 | 50 | 40 | 8 | 4 | 20,2 | SNHX 1205.. | 1 | **946,88** |
| TA11110604M0814 | 80 | 22 | 14 | 50 | 40 | 6 | 2 | 20,2 | SNHX 1205.. | 1 | **946,88** |
| TA11110604M1004 | 100 | 27 | 4 | 50 | 48 | 6 | 6 | 24,2 | SNHX 1102.. | 1 | **1.156,25** |
| TA11110604M1005 | 100 | 27 | 5 | 50 | 48 | 6 | 6 | 24,2 | SNHX 1103.. | 1 | **1.156,25** |
| TA11110604M1006 | 100 | 27 | 6 | 50 | 48 | 5 | 5 | 24,2 | SNHX 1203.. | 1 | **1.156,25** |
| TA11110604M1010 | 100 | 27 | 10 | 50 | 48 | 5 | 5 | 24,2 | SNHX 1205.. | 1 | **1.156,25** |
| TA11110604M1014 | 100 | 27 | 14 | 50 | 48 | 9 | 3 | 24,2 | SNHX 1205.. | 1 | **1.156,25** |
| TA11110604M1204 | 125 | 40 | 4 | 50 | 70 | 12 | 6 | 23,7 | SNHX 1102.. | 1 | **1.276,56** |
| TA11110604M1205 | 125 | 40 | 5 | 50 | 70 | 12 | 6 | 23,7 | SNHX 1103.. | 1 | **1.276,56** |
| TA11110604M1206 | 125 | 40 | 6 | 50 | 70 | 12 | 6 | 23,7 | SNHX 1203.. | 1 | **1.276,56** |
| TA11110604M1210 | 125 | 40 | 10 | 50 | 70 | 12 | 6 | 23,7 | SNHX 1205.. | 1 | **1.276,56** |
| TA11110604M1214 | 125 | 40 | 14 | 50 | 70 | 12 | 4 | 23,7 | SNHX 1205.. | 1 | **1.276,56** |
| TA11110604M1604 | 160 | 40 | 4 | 50 | 70 | 16 | 8 | 41,2 | SNHX 1102.. | 1 | **1.471,88** |
| TA11110604M1605 | 160 | 40 | 5 | 50 | 70 | 16 | 8 | 41,2 | SNHX 1103.. | 1 | **1.471,88** |
| TA11110604M1606 | 160 | 40 | 6 | 50 | 70 | 16 | 8 | 41,2 | SNHX 1203.. | 1 | **1.575,00** |
| TA11110604M1610 | 160 | 40 | 10 | 50 | 70 | 16 | 8 | 41,2 | SNHX 1205.. | 1 | **1.575,00** |
| TA11110604M1614 | 160 | 40 | 14 | 50 | 70 | 15 | 5 | 41,2 | SNHX 1205.. | 1 | **1.584,38** |

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| SNHX 1102.. | TA112V060400000 | TA090C060400000 |
| SNHX 1103.. | TA113V060400001 | TA090C060400000 |
| SNHX 1203.. | TA123V060400002 | TA150C060400000 |
| SNHX 1205.. | TA124V060400003 | TA150C060400000 |

## Fresa per lamatura TA5010, con fori di refrigerazione, attacco weldon



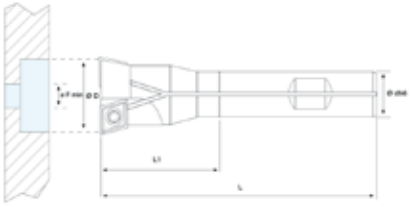


| Code | ØD | L | L1 | Ødh6 | ØFmin | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA50100604W0100 | 10 | 85 | 15 | 12 | 4 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0110 | 11 | 85 | 15 | 12 | 4 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0120 | 12 | 85 | 18 | 12 | 4 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0130 | 13 | 85 | 23 | 12 | 5 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0140 | 14 | 85 | 23 | 12 | 5 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0150 | 15 | 85 | 30 | 12 | 5 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0160 | 16 | 85 | 30 | 12 | 5 | CC.. 0602.. | 1 | **98,44** |
| TA50100604W0170 | 17 | 95 | 30 | 16 | 6 | CC.. 09T3.. | 1 | **98,44** |
| TA50100604W0180 | 18 | 95 | 40 | 16 | 6 | CC.. 09T3.. | 1 | **109,38** |
| TA50100604W0190 | 19 | 95 | 40 | 16 | 6 | CC.. 09T3.. | 1 | **109,38** |
| TA50100604W0200 | 20 | 95 | 40 | 16 | 5 | CC.. 09T3.. | 1 | **109,38** |
| TA50100604W0210 | 21 | 95 | 42 | 16 | 5 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0220 | 22 | 95 | 42 | 16 | 6 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0230 | 23 | 95 | 42 | 16 | 6 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0240 | 24 | 95 | 42 | 16 | 6 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0250 | 25 | 95 | 42 | 16 | 8 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0260 | 26 | 120 | 56 | 20 | 8 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0270 | 27 | 120 | 56 | 20 | 8 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0280 | 28 | 120 | 56 | 20 | 10 | CC.. 09T3.. | 1 | **132,81** |
| TA50100604W0290 | 29 | 120 | 56 | 20 | 10 | CC.. 09T3.. | 1 | **139,06** |
| TA50100604W0300 | 30 | 120 | 56 | 20 | 10 | CC.. 09T3.. | 1 | **139,06** |
| TA50100604W0310 | 31 | 120 | 56 | 20 | 12 | CC.. 09T3.. | 1 | **139,06** |
| TA50100604W0320 | 32 | 120 | 56 | 20 | 12 | CC.. 09T3.. | 1 | **139,06** |
| TA50100604W0330 | 33 | 120 | 56 | 20 | 12 | CC.. 09T3.. | 1 | **139,06** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |

## Fresa per lamatura (180°) TA5020, con fori di refrigerazione, attacco weldon

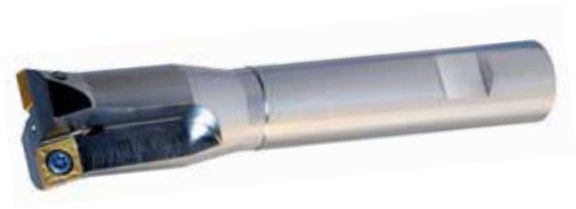


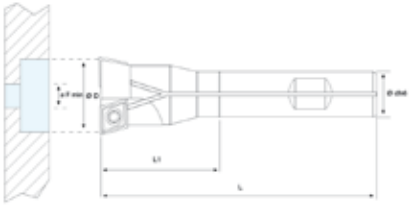


| Code | ØD | L | L1 | Ødh6 | ØFmin | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA50200604W0150 | 15 | 92 | 30 | 12 | 5 | 2 | 1 | **175,00** |
| TA50200604W0160 | 16 | 92 | 30 | 12 | 5 | 2 | 1 | **175,00** |
| TA50200604W0170 | 17 | 94 | 32 | 16 | 6 | 2 | 1 | **175,00** |
| TA50200604W0175 | 17,5 | 96 | 40 | 16 | 6,5 | 2 | 1 | **181,25** |
| TA50200604W0180 | 18 | 97 | 41 | 16 | 7 | 2 | 1 | **181,25** |
| TA50200604W0190 | 19 | 100 | 41 | 16 | 8 | 2 | 1 | **181,25** |
| TA50200604W0200 | 20 | 102 | 41 | 16 | 9 | 2 | 1 | **206,25** |
| TA50200604W0210 | 21 | 105 | 41 | 16 | 10 | 2 | 1 | **206,25** |
| TA50200604W0220 | 22 | 110 | 41 | 16 | 11 | 2 | 1 | **218,75** |
| TA50200604W0230 | 23 | 112 | 41 | 16 | 12 | 2 | 1 | **218,75** |
| TA50200604W0240 | 24 | 115 | 41 | 16 | 13 | 2 | 1 | **218,75** |
| TA50200604W0250 | 25 | 120 | 40 | 16 | 8 | 2 | 1 | **242,19** |
| TA50200604W0260 | 26 | 125 | 55 | 20 | 9 | 2 | 1 | **242,19** |
| TA50200604W0270 | 27 | 128 | 55 | 20 | 10 | 2 | 1 | **242,19** |
| TA50200604W0280 | 28 | 130 | 55 | 20 | 11 | 2 | 1 | **242,19** |
| TA50200604W0290 | 29 | 132 | 55 | 20 | 12 | 2 | 1 | **254,69** |
| TA50200604W0300 | 30 | 134 | 55 | 20 | 13 | 2 | 1 | **254,69** |
| TA50200604W0310 | 31 | 136 | 55 | 20 | 14 | 2 | 1 | **254,69** |
| TA50200604W0320 | 32 | 138 | 55 | 20 | 15 | 2 | 1 | **254,69** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |
| CC.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Fresa per lamatura (180°) TA5020, con fori di refrigerazione, attacco weldon



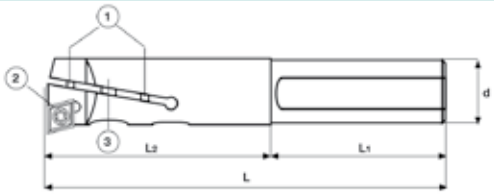


| Code | ØD | L | L1 | Ødh6 | ØFmin | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA50200604W0330 | 33 | 140 | 55 | 20 | 16 | 2 | 1 | **254,69** |
| TA50200604W0340 | 34 | 140 | 60 | 25 | 16 | 2 | 1 | **254,69** |
| TA50200604W0350 | 35 | 140 | 60 | 25 | 17 | 2 | 1 | **254,69** |
| TA50200604W0360 | 36 | 140 | 60 | 25 | 18 | 2 | 1 | **254,69** |
| TA50200604W0370 | 37 | 140 | 60 | 25 | 19 | 2 | 1 | **254,69** |
| TA50200604W0380 | 38 | 140 | 60 | 25 | 20 | 2 | 1 | **254,69** |
| TA50200604W0390 | 39 | 140 | 60 | 25 | 21 | 2 | 1 | **279,69** |
| TA50200604W0400 | 40 | 140 | 60 | 25 | 22 | 2 | 1 | **279,69** |
| TA50200604W0410 | 41 | 140 | 60 | 25 | 23 | 2 | 1 | **279,69** |
| TA50200604W0420 | 42 | 140 | 60 | 25 | 24 | 2 | 1 | **279,69** |
| TA50200604W0430 | 43 | 150 | 70 | 25 | 24 | 2 | 1 | **328,13** |
| TA50200604W0440 | 44 | 150 | 70 | 25 | 25 | 2 | 1 | **328,13** |
| TA50200604W0450 | 45 | 150 | 70 | 25 | 26 | 2 | 1 | **328,13** |
| TA50200604W0460 | 46 | 150 | 70 | 25 | 27 | 2 | 1 | **339,06** |
| TA50200604W0471 | 47 | 150 | 70 | 25 | 28 | 2 | 1 | **339,06** |
| TA50200604W0480 | 48 | 150 | 70 | 25 | 29 | 2 | 1 | **339,06** |

|  Inserto |  Vite inserto |  Chiave |
|---|---|---|
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |
| CC.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Bareno registrabile per alesatura TA5088, senza fori di refrigerazione, attacco weldon

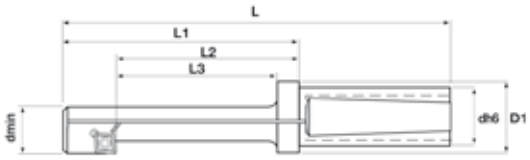





| Code | L | L1 | L2 | d | Dmin | Dmax | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA50880604W0100 | 100 | 70 | 30 | 10 | 10 | 12 | CC.. 0602.. | 1 | **248,44** |
| TA50880604W0120 | 105 | 70 | 30 | 12 | 12 | 15 | CC.. 0602.. | 1 | **268,75** |
| TA50880604W0150 | 110 | 60 | 50 | 15 | 16 | 20 | CC.. 0602.. | 1 | **287,50** |
| TA50880604W0200 | 120 | 60 | 60 | 20 | 20 | 25 | CC.. 0602.. | 1 | **290,63** |
| TA50880604W0250 | 140 | 70 | 70 | 25 | 25 | 30 | CC.. 09T3.. | 1 | **312,50** |
| TA50880604W0300 | 160 | 70 | 90 | 30 | 25 | 35 | CC.. 09T3.. | 1 | **320,31** |
| TA50880604W0350 | 170 | 70 | 100 | 35 | 32 | 40 | CC.. 09T3.. | 1 | **354,69** |
| TA50880604W0400 | 190 | 70 | 120 | 40 | 32 | 45 | CC.. 09T3.. | 1 | **400,00** |
| TA50880604W0450 | 220 | 70 | 150 | 45 | 32 | 50 | CC.. 09T3.. | 1 | **446,88** |

## Bareno per lamatura a tirare (180°) TA5030, con fori di refrigerazione, attacco weldon





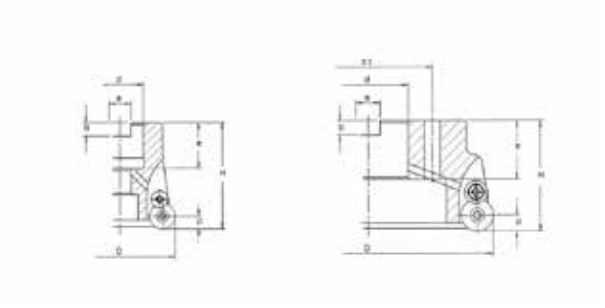

| Code | D | dmin | L | L1 | L2 | L3 | dh6 | D1 | e | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA50300604W0150 | 15 | 8,5 | 105 | 55 | 42 | 35 | 20 | 25 | 3,5 | CP.. 05T104 | 1 | **243,75** |
| TA50300604W0180 | 18 | 10,5 | 112 | 62 | 47 | 40 | 20 | 25 | 4 | CC.. 060204 | 1 | **215,63** |
| TA50300604W0200 | 20 | 13 | 117 | 67 | 52 | 45 | 20 | 25 | 3,75 | CC.. 060204 | 1 | **243,75** |
| TA50300604W0240 | 24 | 15 | 122 | 72 | 57 | 50 | 20 | 25 | 4,75 | CC.. 060204 | 1 | **259,38** |
| TA50300604W0260 | 26 | 17 | 132 | 82 | 67 | 60 | 20 | 25 | 5 | CC.. 060204 | 1 | **275,00** |
| TA50300604W0300 | 30 | 19 | 142 | 92 | 77 | 65 | 20 | 25 | 6 | CC.. 060204 | 1 | **301,56** |
| TA50300604W0330 | 33 | 21 | 152 | 102 | 82 | 75 | 20 | 25 | 6,5 | CC.. 09T304 | 1 | **315,63** |
| TA50300604W0360 | 36 | 23 | 173 | 113 | 93 | 85 | 32 | 40 | 7 | CC.. 09T304 | 1 | **323,44** |
| TA50300604W0400 | 40 | 25 | 183 | 123 | 103 | 95 | 32 | 40 | 8 | CC.. 09T304 | 1 | **354,69** |
| TA50300604W0430 | 43 | 30 | 183 | 123 | 103 | 95 | 32 | 40 | 7 | CC.. 09T304 | 1 | **371,88** |
| TA50300604W0480 | 48 | 33 | 223 | 163 | 143 | 135 | 32 | 40 | 8 | CC.. 09T304 | 1 | **382,81** |
| TA50300604W0530 | 53 | 36 | 210 | 140 | - | 110 | 40 | - | 9 | CC.. 120404 | 1 | **392,19** |
| TA50300604W0570 | 57 | 39 | 220 | 150 | - | 120 | 40 | - | 9,5 | CC.. 120404 | 1 | **406,25** |
| TA50300604W0660 | 66 | 45 | 245 | 165 | - | 135 | 50 | - | 11 | CC.. 120404 | 1 | **437,50** |
| TA50300604W0760 | 76 | 52 | 265 | 185 | - | 155 | 50 | - | 12,5 | CC.. 120404 | 1 | **484,38** |



| Inserto | Vite inserto | Chiave |
|---|---|---|
| CP.. 05T1.. | TA005V060400000 | TA06TB060400000 |
| CC.. 0602.. | TA100V060400000 | TA08TB060400000 |
| CC.. 09T3.. | TA160V060400000 | TA15TB060400000 |
| CC.. 1204.. | TA121V060400000 | TA20TB060400000 |

## Fresa per copiatura TA3333, con fori di refrigerazione, attacco a manicotto



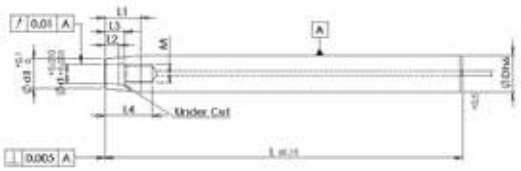


| Code | D | d | d1 | e | a | b | H | p | z | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA33330604M4210 | 42 | 16 | - | 22 | 10,4 | 6,3 | 44 | 5 | 6 | RD.. 1003 MOT | 1 | **290,63** |
| TA33330604M5212 | 52 | 22 | - | 22 | 10,4 | 6,3 | 50 | 6 | 5 | RD.. 12T3 MOT | 1 | **290,63** |
| TA33330604M5216 | 52 | 22 | - | 22 | 10,4 | 6,3 | 50 | 8 | 4 | RD.. 1604 MOT | 1 | **285,94** |
| TA33330604M6612 | 66 | 27 | - | 28 | 12,4 | 7 | 50 | 6 | 6 | RD.. 12T3 MOT | 1 | **334,38** |
| TA33330604M6616 | 66 | 27 | - | 28 | 12,4 | 7 | 50 | 8 | 5 | RD.. 1604 MOT | 1 | **321,88** |
| TA33330604M8012 | 80 | 27 | - | 28 | 12,4 | 7 | 50 | 6 | 7 | RD.. 12T3 MOT | 1 | **418,75** |
| TA33330604M8016 | 80 | 27 | - | 28 | 12,4 | 7 | 50 | 8 | 6 | RD.. 1604 MOT | 1 | **412,50** |
| TA33330604M1016 | 100 | 32 | - | 31 | 14,4 | 8 | 55 | 8 | 7 | RD.. 1604 MOT | 1 | **462,50** |
| TA33330604M1216 | 125 | 40 | - | 41 | 16,4 | 9 | 55 | 8 | 8 | RD.. 1604 MOT | 1 | **582,81** |
| TA33330604M1616 | 160 | 40 | 66,7 | 41 | 16,4 | 9 | 55 | 8 | 9 | RD.. 1604 MOT | 1 | **900,00** |

|  Inserto |  Vite inserto |  Staffa |  Giravite |
|---|---|---|---|
| RD.. 1003 MOT | TA090V060400000 | - | TA150C060400000 |
| RD.. 12T3 MOT | TA090V060400000 | TA11ST060400000 | TA150C060400000 |
| RD.. 1604 MOT | TA165V060400000 | TA16ST060400000 | TA200C060400000 |

## Adattatore filettato in metallo duro, con foro di refrigerazione



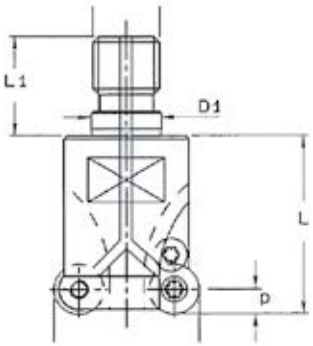



| Code | D | d | d1 | L | L1 | L2 | L3 | L4 | M | Grammi | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA12MD0604M6060 | 12 | 6,5 | 9,7 | 60 | 15 | 5 | 8 | 19 | 6 | 100 | 1 | **456,25** |
| TA12MD0604M6080 | 12 | 6,5 | 9,7 | 80 | 15 | 5 | 8 | 19 | 6 | 140 | 1 | **614,06** |
| TA12MD0604M6100 | 12 | 6,5 | 9,7 | 100 | 15 | 5 | 8 | 19 | 6 | 200 | 1 | **645,31** |
| TA12MD0604M6150 | 12 | 6,5 | 9,7 | 150 | 15 | 5 | 8 | 19 | 6 | 300 | 1 | **750,00** |
| TA16MD0604M8080 | 16 | 8,5 | 12,7 | 80 | 15 | 6 | 9 | 20 | 8 | 350 | 1 | **671,88** |
| TA16MD0604M8100 | 16 | 8,5 | 12,7 | 100 | 15 | 6 | 9 | 20 | 8 | 350 | 1 | **707,81** |
| TA16MD0604M8120 | 16 | 8,5 | 12,7 | 120 | 15 | 6 | 9 | 20 | 8 | 350 | 1 | **853,13** |
| TA16MD0604M8150 | 16 | 8,5 | 12,7 | 150 | 15 | 6 | 9 | 20 | 8 | 350 | 1 | **903,13** |
| TA16MD0604M8200 | 16 | 8,5 | 12,7 | 200 | 15 | 6 | 9 | 20 | 8 | 600 | 1 | **1.009,38** |
| TA20MD0604M1010 | 20 | 10,5 | 17,7 | 100 | 20 | 10 | 13 | 26 | 10 | 500 | 1 | **1.121,88** |
| TA20MD0604M1014 | 20 | 10,5 | 17,7 | 140 | 20 | 10 | 13 | 26 | 10 | 700 | 1 | **1.178,13** |
| TA20MD0604M1020 | 20 | 10,5 | 17,7 | 200 | 20 | 10 | 13 | 26 | 10 | 900 | 1 | **1.739,06** |
| TA25MD0604M1210 | 25 | 12,5 | 20,7 | 100 | 30 | 10 | 13 | 26 | 12 | 500 | 1 | **1.453,13** |
| TA25MD0604M1215 | 25 | 12,5 | 20,7 | 150 | 30 | 10 | 13 | 26 | 12 | 500 | 1 | **1.773,44** |
| TA25MD0604M1220 | 25 | 12,5 | 20,7 | 200 | 30 | 10 | 13 | 26 | 12 | 900 | 1 | **1.887,50** |
| TA25MD0604M1225 | 25 | 12,5 | 20,7 | 250 | 30 | 10 | 13 | 26 | 12 | 1000 | 1 | **2.293,75** |
| TA32MD0604M1610 | 32 | 17 | 28,7 | 100 | 30 | 10 | 14 | 30 | 16 | 1250 | 1 | **2.012,50** |
| TA32MD0604M1615 | 32 | 17 | 28,7 | 150 | 30 | 10 | 14 | 30 | 16 | 1900 | 1 | **2.803,13** |

**N.B: Per prolunghe filettate, in acciaio: www.ttake.it**

## Fresa modulare per copiatura TA3333, con fori di refrigerazione, attacco filettato





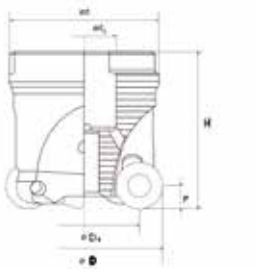

| Code | D | L | M | D1 | L1 | p | z | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA33330604F1025 | 10 | 18 | M6 | 6,5 | 14,5 | 2,5 | 2 | RD.. 0501 MOT | 1 | **170,31** |
| TA33330604F2055 | 20 | 30 | M10 | 10,5 | 20 | 2,5 | 5 | RD.. 0501 MOT | 1 | **303,13** |
| TA33330604F1227 | 12 | 18 | M6 | 6,5 | 14,5 | 3,5 | 2 | RD.. 07T1 MOT | 1 | **160,94** |
| TA33330604F1527 | 15 | 23 | M8 | 8,5 | 17,5 | 3,5 | 2 | RD.. 0702 MOT | 1 | **160,94** |
| TA33330604F1537 | 15 | 23 | M8 | 8,5 | 17,5 | 3,5 | 3 | RD.. 0702 MOT | 1 | **187,50** |
| TA33330604F2047 | 20 | 30 | M10 | 10,5 | 20 | 3,5 | 4 | RD.. 0702 MOT | 1 | **242,19** |
| TA33330604F2557 | 25 | 35 | M12 | 12,5 | 22 | 3,5 | 5 | RD.. 0702 MOT | 1 | **279,69** |
| TA33330604F3057 | 30 | 43 | M16 | 17 | 24 | 3,5 | 5 | RD.. 0702 MOT | 1 | **309,38** |
| TA33330604F2021 | 20 | 30 | M10 | 10,5 | 20 | 5 | 2 | RD.. 1003 MOT | 1 | **160,94** |
| TA33330604F2521 | 25 | 35 | M12 | 12,5 | 22 | 5 | 2 | RD.. 1003 MOT | 1 | **170,31** |
| TA33330604F2531 | 25 | 35 | M12 | 12,5 | 22 | 5 | 3 | RD.. 1003 MOT | 1 | **187,50** |
| TA33330604F3041 | 30 | 43 | M16 | 17 | 24 | 5 | 4 | RD.. 1003 MOT | 1 | **253,13** |
| TA33330604F3541 | 35 | 43 | M16 | 17 | 24 | 5 | 4 | RD.. 1003 MOT | 1 | **257,81** |
| TA33330604F4251 | 42 | 43 | M16 | 17 | 24 | 5 | 5 | RD.. 1003 MOT | 1 | **318,75** |
| TA33330604F2422 | 24 | 35 | M12 | 12,5 | 22 | 6 | 2 | RD.. 12T3 MOT | 1 | **181,25** |
| TA33330604F3532 | 35 | 43 | M16 | 17 | 24 | 6 | 3 | RD.. 12T3 MOT | 1 | **203,13** |
| TA33330604F4242 | 42 | 43 | M16 | 17 | 24 | 6 | 4 | RD.. 12T3 MOT | 1 | **264,06** |
| TA33330604F3226 | 32 | 43 | M16 | 17 | 24 | 8 | 2 | RD.. 1604 MOT | 1 | **203,13** |

|  Inserto |  Vite inserto |  Staffa |  Giravite |
|---|---|---|---|
| RD.. 0501 MOT | TA055V060400000 | - | TA06TB060400000 |
| RD.. 07T1 MOT | TA077V060400000 | - | TA07TB060400000 |
| RD.. 0702 MOT | TA077V060400000 | - | TA15TB060400000 |
| RD.. 1003 MOT | TA090V060400000 | - | TA15TB060400000 |
| RD.. 12T3 MOT | TA090V060400000 | TA11ST060400000 | TA15TB060400000 |
| RD.. 1604 MOT | TA165V060400000 | TA16ST060400000 | TA20TB060400000 |

## Fresa a spianare ad inserto tondo TA3312-3316, con fori di refrigerazione, specifica per la lavorazione di leghe resistenti al calore e acciai inossidabili, attacco a manicotto







| Code | ØD | ØDc | Ød | ØdA | H | p | z | Inserto | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| TA33120604M0400 | 40 | 28 | 38 | 16 | 40 | 6 | 4 | RP.. 1204 MO | 1 | **450,56** |
| TA33120604M0500 | 50 | 38 | 43 | 22 | 40 | 6 | 5 | RP.. 1204 MO | 1 | **479,94** |
| TA33120604M0630 | 63 | 51 | 48 | 22 | 40 | 6 | 6 | RP.. 1204 MO | 1 | **558,30** |
| TA33120604M0800 | 80 | 68 | 58 | 27 | 50 | 6 | 8 | RP.. 1204 MO | 1 | **778,69** |
| TA33160604M0630 | 63 | 47 | 48 | 22 | 40 | 8 | 5 | RP.. 1605 MO | 1 | **863,90** |
| TA33160604M0800 | 80 | 64 | 58 | 27 | 50 | 8 | 6 | RP.. 1605 MO | 1 | **1.048,04** |
| TA33160604M1000 | 100 | 84 | 78 | 32 | 50 | 8 | 7 | RP.. 1605 MO | 1 | **1.224,35** |





**Inserto**



**Vite inserto**



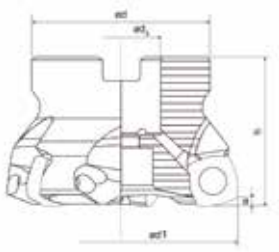
**Giravite**

| | | |
|---|---|---|
| RP.. 1204 MO | TA125V060400000 | TA150C060400000 |
| RP.. 1605 MO | TA116V060400000 | TA200C060400000 |

## Fresa ad alto avanzamento TA4444, specifica per la lavorazione di leghe resistenti al calore, acciai inossidabili e acciai, con fori di refrigerazione, attacco a manicotto







| Code | ØD | Ød | ØdA | H | p | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA44440604M0500 | 50 | 43 | 22 | 40 | 2 | 4 | 1 | **347,71** |
| TA44440604M0630 | 63 | 48 | 22 | 40 | 2 | 5 | 1 | **455,46** |
| TA44440604M0800 | 80 | 58 | 27 | 50 | 2 | 7 | 1 | **621,97** |





**Inserto**



**Vite inserto**

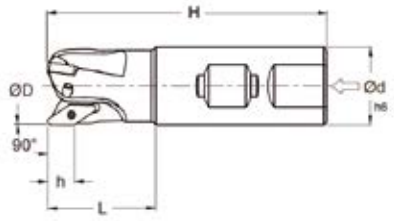


**Giravite**

| | | |
|---|---|---|
| XOLT.. 130410 | TA127V060400000 | TA200C060400000 |

## Fresa per copiatura TA9000, per materiali non ferrosi, con fori di refrigerazione, attacco weldon



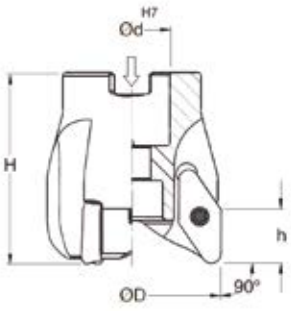



| Code | ØD | Ød | H | h | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA9000060811016 | 16 | 16 | 80 | 8 | 30 | 35° | 1 | **273,86** |
| TA9000060811020 | 20 | 20 | 85 | 8 | 35 | 26° | 1 | **292,58** |
| TA9000060811025 | 25 | 25 | 90 | 8 | 35 | 19,5° | 1 | **338,36** |

|  Inserto |  Vite inserto |  Givite |
|---|---|---|
| VDKT 11T2.. | TA111P060800000 | TA70CP060800000 |

## Fresa per copiatura TA9000, per materiali non ferrosi, con fori di refrigerazione, attacco a manicotto



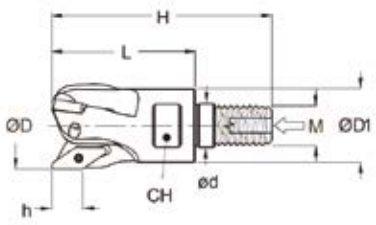



| Code | ØD | Ød | H | h | ß | z | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TA9000060822M42 | 42 | 16 | 55 | 15 | 23° | 3 | 1 | **401,86** |
| TA9000060822M52 | 52 | 22 | 55 | 15 | 17° | 3 | 1 | **456,49** |
| TA9000060822M66 | 66 | 27 | 56 | 15 | 12,5° | 4 | 1 | **511,97** |

|  Inserto |  Vite inserto |  Givite |
|---|---|---|
| VCKT 2205.. | TA112P060800000 | TA20CP060800000 |

## Fresa per copiatura TA9000, per materiali non ferrosi, con fori di refrigerazione, attacco filettato






| Code | ØD | M | Ød | ØD1 | H | h | L | ß | z | CH | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA9000060822F32* | 32 | 16 | 17 | 29 | 71 | 15 | 47 | 35° | 2 | 24 | 1 | **365,10** |
| TA9000060822F42* | 42 | 16 | 17 | 29 | 71 | 15 | 47 | 23° | 3 | 24 | 1 | **420,57** |
| TA9000060811F16 | 16 | 8 | 8,5 | 12,7 | 52 | 8 | 35 | 35° | 2 | 10 | 1 | **246,96** |
| TA9000060811F20 | 20 | 10 | 10,5 | 177 | 54 | 8 | 35 | 26° | 2 | 15 | 1 | **306,95** |
| TA9000060811F25 | 25 | 12 | 12,5 | 20,7 | 57 | 8 | 35 | 19,5° | 3 | 17 | 1 | **347,22** |

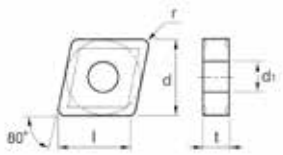
* senza fori di refrigerazione

|  Inserto |  Vite inserto |  Giravite |
|---|---|---|
| VDKT 11T2.. | TA112P060800000 | TA20CP060800000 |
| VCKT 2205.. * | TA111P060800000 | TA70CP060800000 |

* per utensili Ø 32, 42

## Inserto per tornitura CNMG - FF, 80° negativo

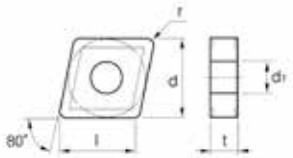





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120404 FF | TT120 | TA1999080900066 | 12,9 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,79** |
| CNMG 120404 FF | TT420 | TA1999080900720 | 12,9 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,79** |
| CNMG 120408 FF | TT120 | TA1999080900067 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120408 FF | TT420 | TA1999080900721 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |

## Inserto per tornitura CNMG - SX, 80° negativo

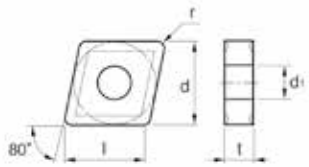





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120408 SX | TT135 | TA1999080900723 | 12 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120408 SX | TT230 | TA1999080900722 | 12 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120412 SX | TT135 | TA1999080900725 | 11,6 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,79** |
| CNMG 120412 SX | TT230 | TA1999080900724 | 11,6 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,79** |

## Inserto per tornitura CNMG - MX, 80° negativo



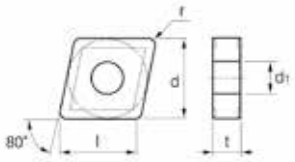



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120404 MX | TT220 | TA1999080900054 | 12,9 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,79** |
| CNMG 120404 MX | TT230 | TA1999080900063 | 12,9 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,79** |
| CNMG 120408 MX | TT220 | TA1999080900055 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120408 MX | TT230 | TA1999080900064 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120408 MX | TT235 | TA1999080900062 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,79** |
| CNMG 120412 MX | TT220 | TA1999080900056 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,79** |
| CNMG 120412 MX | TT235 | TA1999080900065 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,79** |
| CNMG 160612 MX | TT220 | TA1999080900057 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **16,41** |
| CNMG 160616 MX | TT220 | TA1999080900058 | 16,1 | 15,875 | 6,35 | 1,6 | 6,35 | 10 | **16,41** |
| CNMG 190612 MX | TT220 | TA1999080900059 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,69** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura CNMG - MM, 80° negativo

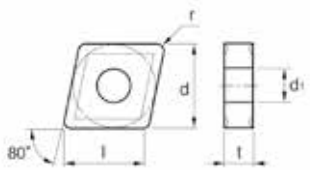





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120404 MM | TT120 | TA1999080900027 | 12,9 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,50** |
| CNMG 120408 MM | TT120 | TA1999080900028 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120408 MM | TT130 | TA1999080900033 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120408 MM | TT235 | TA1999080900037 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120412 MM | TT120 | TA1999080900029 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |
| CNMG 120412 MM | TT130 | TA1999080900034 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |
| CNMG 160608 MM | TT120 | TA1999080900030 | 16,1 | 15,875 | 6,35 | 0,8 | 6,35 | 10 | **15,93** |
| CNMG 160612 MM | TT120 | TA1999080900031 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160612 MM | TT130 | TA1999080900035 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |

## Inserto per tornitura CNMG - SS, 80° negativo

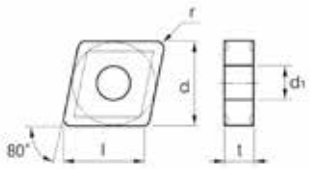





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120408 SS | TT130 | TA1999080900048 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120408 SS | TT135 | TA1999080900726 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120412 SS | TT120 | TA1999080900042 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |
| CNMG 160612 SS | TT120 | TA1999080900043 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160612 SS | TT130 | TA1999080900049 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160616 SS | TT120 | TA1999080900044 | 16,1 | 15,875 | 6,35 | 1,6 | 6,35 | 10 | **15,93** |
| CNMG 160616 SS | TT130 | TA1999080900050 | 16,1 | 15,875 | 6,35 | 1,6 | 6,35 | 10 | **15,93** |
| CNMG 190608 SS | TT120 | TA1999080900045 | 19,3 | 19,05 | 6,35 | 0,8 | 7,93 | 10 | **20,09** |
| CNMG 190612 SS | TT120 | TA1999080900046 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMG 190616 SS | TT120 | TA1999080900047 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| CNMG 190616 SS | TT130 | TA1999080900051 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

## Inserto per tornitura CNMG - SM, 80° negativo

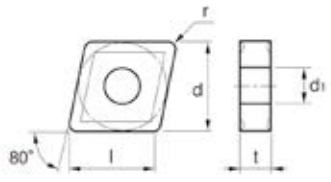





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMG 120408 SM | TT120 | TA1999080900004 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120408 SM | TT130 | TA1999080900014 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120408 SM | TT135 | TA1999080900727 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMG 120412 SM | TT120 | TA1999080900005 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |
| CNMG 120412 SM | TT130 | TA1999080900015 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |
| CNMG 160608 SM | TT120 | TA1999080900007 | 16,1 | 15,875 | 6,35 | 0,8 | 6,35 | 10 | **15,93** |
| CNMG 160612 SM | TT120 | TA1999080900008 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160612 SM | TT130 | TA1999080900017 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160612 SM | TT135 | TA1999080900728 | 16,1 | 15,875 | 6,35 | 1,2 | 6,35 | 10 | **15,93** |
| CNMG 160616 SM | TT120 | TA1999080900009 | 16,1 | 15,875 | 6,35 | 1,6 | 6,35 | 10 | **15,93** |
| CNMG 160616 SM | TT130 | TA1999080900018 | 16,1 | 15,875 | 6,35 | 1,6 | 6,35 | 10 | **15,93** |
| CNMG 190608 SM | TT120 | TA1999080900010 | 19,3 | 19,05 | 6,35 | 0,8 | 7,93 | 10 | **20,09** |
| CNMG 190612 SM | TT120 | TA1999080900011 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMG 190612 SM | TT130 | TA1999080900019 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMG 190616 SM | TT120 | TA1999080900012 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| CNMG 190616 SM | TT130 | TA1999080900020 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

## Inserto per tornitura CNMA, 80° negativo



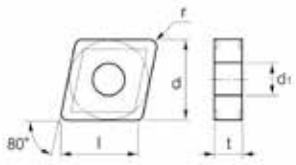



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMA 120408 | TT310 | TA1999080900001 | 12,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,50** |
| CNMA 120412 | TT310 | TA1999080900002 | 12,9 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,50** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura CNMM - SP, 80° negativo

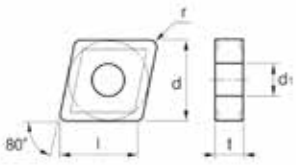





| ISO | Codice | d | l1 | l2 | f | ØDmin | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| CNMM 190616 SP | TA1999080900087 | TT120 | 19,3 | 19,05 | 6,35 | 1,6 | 10 | **20,09** |
| CNMM 190616 SP | TA1999080900086 | TT130 | 19,3 | 19,05 | 6,35 | 1,6 | 10 | **20,09** |
| CNMM 190616 SP | TA1999080900084 | TT225 | 19,3 | 19,05 | 6,35 | 1,6 | 10 | **20,09** |

## Inserto per tornitura CNMM - SH, 80° negativo

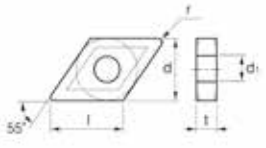





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CNMM 190612 SH | TT120 | TA1999080900072 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMM 190612 SH | TT130 | TA1999080900079 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMM 190612 SH | TT225 | TA1999080900082 | 19,3 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| CNMM 190616 SH | TT120 | TA1999080900073 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| CNMM 190616 SH | TT130 | TA1999080900080 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| CNMM 190616 SH | TT225 | TA1999080900083 | 19,3 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| CNMM 190624 SH | TT130 | TA1999080900081 | 19,3 | 19,05 | 6,35 | 2,4 | 7,93 | 10 | **20,09** |
| CNMM 190624 SH | TT135 | TA1999080900729 | 19,3 | 19,05 | 6,35 | 2,4 | 7,93 | 10 | **20,09** |

## Inserto per tornitura DNMG - FF, 55° negativo

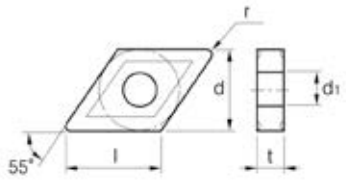





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 150604 FF | TT120 | TA1999080900111 | 15,5 | 12,7 | 6,35 | 0,4 | 5,16 | 10 | **13,46** |
| DNMG 150604 FF | TT420 | TA1999080900730 | 15,5 | 12,7 | 6,35 | 0,4 | 5,16 | 10 | **13,46** |
| DNMG 150608 FF | TT120 | TA1999080900112 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150608 FF | TT420 | TA1999080900731 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |

## Inserto per tornitura DNMG - SX, 55° negativo

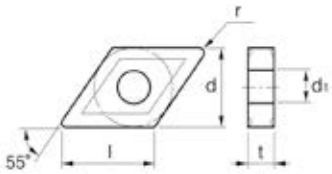





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 150608 SX | TT135 | TA1999080900733 | 14,7 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150608 SX | TT230 | TA1999080900732 | 14,7 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |

## Inserto per tornitura DNMG - MF, 55° negativo

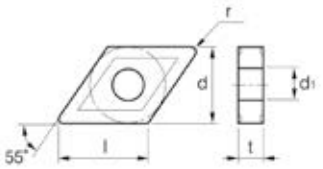





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 110404 MF | TT120 | TA1999080900090 | 11,6 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **9,50** |

## Inserto per tornitura DNMG - MX, 55° negativo



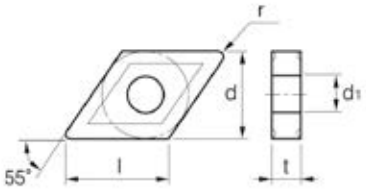



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 150604 MX | TT220 | TA1999080900102 | 15,5 | 12,7 | 6,35 | 0,4 | 5,16 | 10 | **13,46** |
| DNMG 150608 MX | TT220 | TA1999080900103 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150608 MX | TT235 | TA1999080900106 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150612 MX | TT220 | TA1999080900104 | 15,5 | 12,7 | 6,35 | 1,2 | 5,16 | 10 | **13,46** |
| DNMG 150612 MX | TT235 | TA1999080900107 | 15,5 | 12,7 | 6,35 | 1,2 | 5,16 | 10 | **13,46** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura DNMG - MM, 55° negativo

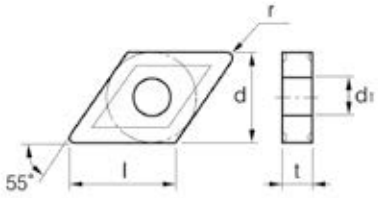





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 150604 MM | TT120 | TA1999080900092 | 15,5 | 12,7 | 6,35 | 0,4 | 5,16 | 10 | **13,46** |
| DNMG 150608 MM | TT120 | TA1999080900093 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150608 MM | TT130 | TA1999080900095 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150612 MM | TT120 | TA1999080900094 | 15,5 | 12,7 | 6,35 | 1,2 | 5,16 | 10 | **13,46** |

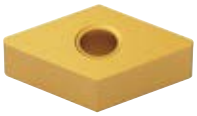
## Inserto per tornitura DNMG - SS, 55° negativo

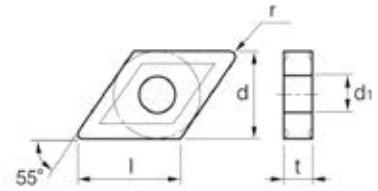





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMG 150608 SS | TT120 | TA1999080900096 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150608 SS | TT130 | TA1999080900100 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMG 150612 SS | TT120 | TA1999080900097 | 15,5 | 12,7 | 6,35 | 1,2 | 5,16 | 10 | **13,46** |

## Inserto per tornitura DNMA, 55° negativo

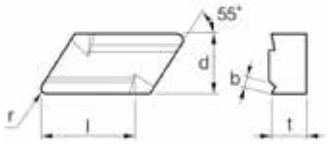





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DNMA 150608 | TT310 | TA1999080900088 | 15,5 | 12,7 | 6,35 | 0,8 | 5,16 | 10 | **13,46** |
| DNMA 150612 | TT310 | TA1999080900089 | 15,5 | 12,7 | 6,35 | 1,2 | 5,16 | 10 | **13,46** |

## Inserto per tornitura KNUX - 11, 55° negativo

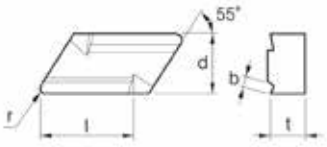





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| KNUX 160405 R11 | TT120 | TA1999080900113 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160405 R11 | TT130 | TA1999080900117 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160405 R11 | TT225 | TA1999080900734 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160410 R11 | TT120 | TA1999080900114 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |
| KNUX 160410 R11 | TT130 | TA1999080900118 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |
| KNUX 160405 L11 | TT120 | TA1999080900115 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160405 L11 | TT130 | TA1999080900119 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160410 L11 | TT120 | TA1999080900116 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |
| KNUX 160410 L11 | TT130 | TA1999080900120 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |

## Inserto per tornitura KNUX - 12, 55° negativo

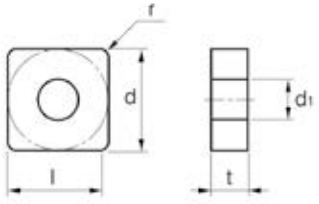





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| KNUX 160405 R12 | TT120 | TA1999080900121 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160405 R12 | TT130 | TA1999080900123 | 16 | 9,52 | 4,76 | 0,5 | 2,2 | 10 | **14,91** |
| KNUX 160410 R12 | TT120 | TA1999080900122 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |
| KNUX 160410 R12 | TT130 | TA1999080900124 | 16 | 9,52 | 4,76 | 1 | 2,2 | 10 | **14,91** |

## Inserto per tornitura SNMG - SX, 90° negativo



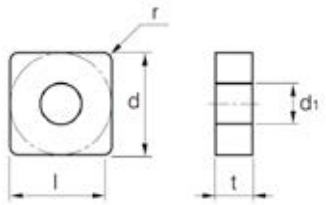



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120408 SX | TT135 | TA1999080900735 | 11,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120408 SX | TT230 | TA1999080900736 | 11,9 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura SNMG - MX, 90° negativo

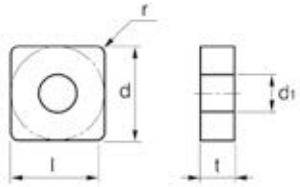





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120408 MX | TT220 | TA1999080900157 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120408 MX | TT235 | TA1999080900159 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120412 MX | TT220 | TA1999080900158 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMG 120412 MX | TT235 | TA1999080900160 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMG 190612 MX | TT235 | TA1999080900163 | 19,05 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| SNMG 190616 MX | TT235 | TA1999080900164 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

## Inserto per tornitura SNMG - MM, 90° negativo

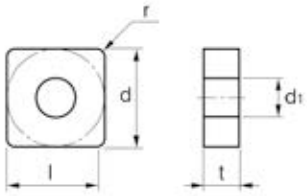





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120404 MM | TT120 | TA1999080900146 | 12,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,34** |
| SNMG 120408 MM | TT120 | TA1999080900147 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120408 MM | TT130 | TA1999080900149 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |

## Inserto per tornitura SNMG - SS, 90° negativo

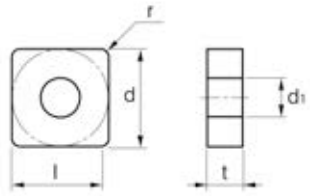





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120408 SS | TT120 | TA1999080900150 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120412 SS | TT120 | TA1999080900151 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMG 190612 SS | TT120 | TA1999080900152 | 19,05 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| SNMG 190616 SS | TT120 | TA1999080900153 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMG 190616 SS | TT130 | TA1999080900155 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

## Inserto per tornitura SNMG - MS, 90° negativo

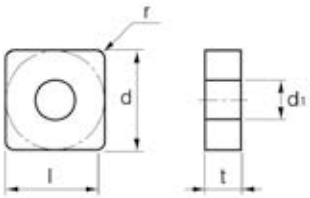





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120404 MS | TT120 | TA1999080900128 | 12,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,34** |
| SNMG 120404 MS | TT130 | TA1999080900134 | 12,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **9,34** |
| SNMG 120408 MS | TT120 | TA1999080900129 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120408 MS | TT130 | TA1999080900135 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |

## Inserto per tornitura SNMG - SM, 90° negativo

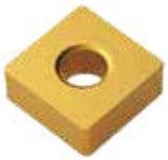


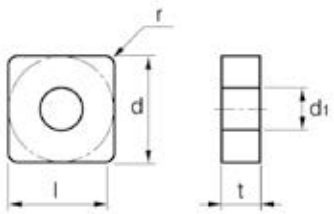



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMG 120408 SM | TT120 | TA1999080900137 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMG 120412 SM | TT120 | TA1999080900138 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMG 120412 SM | TT130 | TA1999080900141 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMG 190612 SM | TT130 | TA1999080900142 | 19,05 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| SNMG 190616 SM | TT120 | TA1999080900139 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMG 190616 SM | TT130 | TA1999080900143 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMG 190616 SM | TT135 | TA1999080900738 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura SNMA, 90° negativo

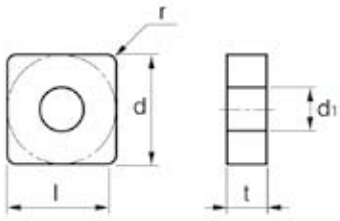





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMA 120412 | TT310 | TA1999080900126 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |

## Inserto per tornitura SNMM - SP, 90° negativo

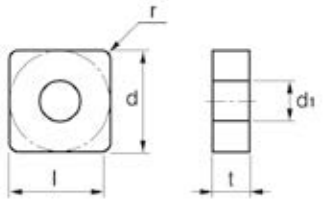





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMM 190616 SP | TT120 | TA1999080900177 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMM 190616 SP | TT130 | TA1999080900178 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMM 190616 SP | TT225 | TA1999080900179 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |

## Inserto per tornitura SNMM - SH, 90° negativo

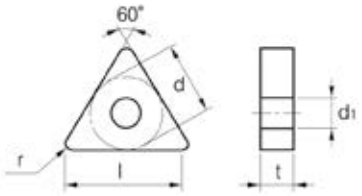





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNMM 120408 SH | TT120 | TA1999080900165 | 12,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **9,34** |
| SNMM 120412 SH | TT120 | TA1999080900166 | 12,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **9,34** |
| SNMM 190612 SH | TT120 | TA1999080900167 | 19,05 | 19,05 | 6,35 | 1,2 | 7,93 | 10 | **20,09** |
| SNMM 190616 SH | TT120 | TA1999080900168 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMM 190616 SH | TT130 | TA1999080900171 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMM 190616 SH | TT135 | TA1999080900739 | 19,05 | 19,05 | 6,35 | 1,6 | 7,93 | 10 | **20,09** |
| SNMM 190624 SH | TT130 | TA1999080900172 | 19,05 | 19,05 | 6,35 | 2,4 | 7,93 | 10 | **20,09** |
| SNMM 190624 SH | TT135 | TA1999080900740 | 19,05 | 19,05 | 6,35 | 2,4 | 7,93 | 10 | **20,09** |

## Inserto per tornitura TNMG - FF, 60° negativo

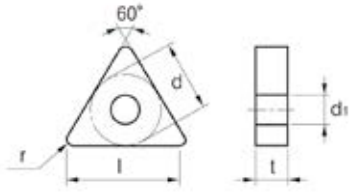





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160404 FF | TT120 | TA1999080900213 | 16,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,25** |
| TNMG 160404 FF | TT420 | TA1999080900741 | 16,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,25** |
| TNMG 160408 FF | TT120 | TA1999080900214 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160408 FF | TT420 | TA1999080900742 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |

## Inserto per tornitura TNMG - SX, 60° negativo

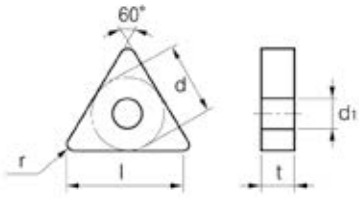





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160408 SX | TT135 | TA1999080900743 | 14,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160408 SX | TT230 | TA1999080900744 | 14,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |

## Inserto per tornitura TNMG - MX, 60° negativo



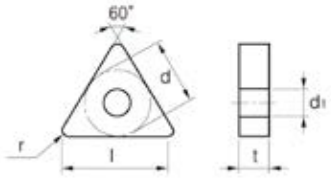



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160404 MX | TT220 | TA1999080900203 | 16,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,25** |
| TNMG 160404 MX | TT235 | TA1999080900209 | 16,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,25** |
| TNMG 160408 MX | TT220 | TA1999080900204 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160408 MX | TT225 | TA1999080900207 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160408 MX | TT235 | TA1999080900210 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 220408 MX | TT235 | TA1999080900211 | 22 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **12,87** |
| TNMG 220412 MX | TT235 | TA1999080900212 | 22 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **12,87** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura TNMG - MM, 60° negativo

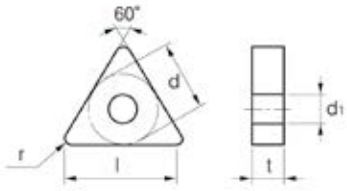





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160404 MM | TT120 | TA1999080900185 | 16,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,25** |
| TNMG 160408 MM | TT120 | TA1999080900186 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160408 MM | TT130 | TA1999080900191 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 220404 MM | TT120 | TA1999080900187 | 22 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **12,87** |
| TNMG 220408 MM | TT120 | TA1999080900188 | 22 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **12,87** |

## Inserto per tornitura TNMG - SS, 60° negativo

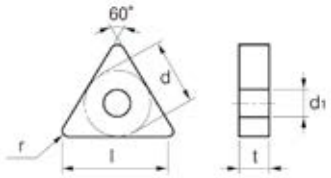





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160408 SS | TT120 | TA1999080900195 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 160412 SS | TT120 | TA1999080900196 | 16,5 | 9,525 | 4,76 | 1,2 | 3,81 | 10 | **8,25** |
| TNMG 160412 SS | TT130 | TA1999080900198 | 16,5 | 9,525 | 4,76 | 1,2 | 3,81 | 10 | **8,25** |
| TNMG 220408 SS | TT120 | TA1999080900197 | 22 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **12,87** |
| TNMG 220412 SS | TT130 | TA1999080900199 | 22 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **12,87** |

## Inserto per tornitura TNMG - MS, 60° negativo

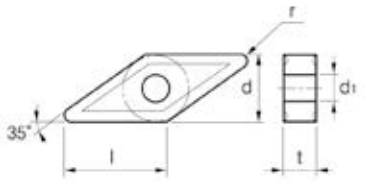





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TNMG 160408 MS | TT130 | TA1999080900183 | 16,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,25** |
| TNMG 220408 MS | TT130 | TA1999080900184 | 22 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **12,87** |

## Inserto per tornitura VNMG - FF, 35° negativo

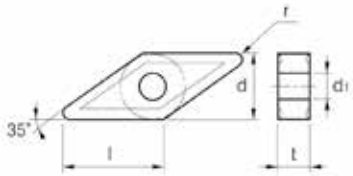





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VNMG 160404 FF | TT120 | TA1999080900220 | 16,6 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **16,56** |
| VNMG 160404 FF | TT420 | TA1999080900745 | 16,6 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **16,56** |
| VNMG 160408 FF | TT120 | TA1999080900221 | 16,6 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **16,56** |
| VNMG 160408 FF | TT420 | TA1999080900746 | 16,6 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **16,56** |

## Inserto per tornitura VNMG - MS, 35° negativo

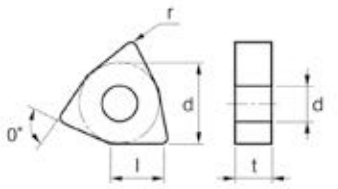





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VNMG 160408 MS | TT120 | TA1999080900216 | 16,6 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **16,56** |

## Inserto per tornitura WNMG - FF, 80° negativo



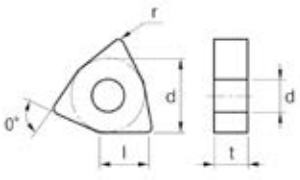



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 080404 FF | TT120 | TA1999080900747 | 8,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **10,82** |
| WNMG 080404 FF | TT420 | TA1999080900748 | 8,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **10,82** |
| WNMG 080408 FF | TT420 | TA1999080900749 | 8,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura WNMG - SX, 80° negativo

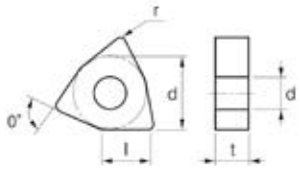





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 080408 SX | TT135 | TA1999080900750 | 8,3 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |
| WNMG 080408 SX | TT230 | TA1999080900751 | 8,3 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |

## Inserto per tornitura WNMG - MX, 80° negativo

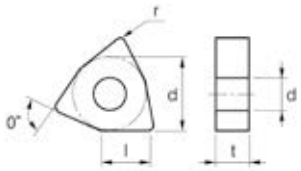





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 060408 MX | TT220 | TA1999080900233 | 6,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,02** |
| WNMG 060408 MX | TT235 | TA1999080900237 | 6,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,02** |
| WNMG 080404 MX | TT220 | TA1999080900234 | 8,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **10,82** |
| WNMG 080404 MX | TT235 | TA1999080900238 | 8,7 | 12,7 | 4,76 | 0,4 | 5,16 | 10 | **10,82** |
| WNMG 080408 MX | TT220 | TA1999080900235 | 8,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |
| WNMG 080408 MX | TT235 | TA1999080900239 | 8,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |
| WNMG 080412 MX | TT220 | TA1999080900236 | 8,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **10,82** |
| WNMG 080412 MX | TT235 | TA1999080900240 | 8,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **10,82** |

## Inserto per tornitura WNMG - MF, 80° negativo

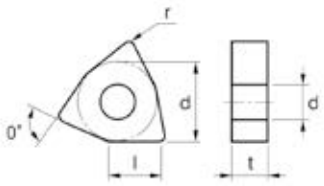





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 060404 MF | TT120 | TA1999080900222 | 6,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **8,02** |
| WNMG 060408 MF | TT120 | TA1999080900223 | 6,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **8,02** |

## Inserto per tornitura WNMG - MM, 80° negativo

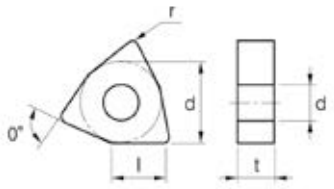





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 080404 MM | TT120 | TA1999080900225 | 6,5 | 9,525 | 4,76 | 0,4 | 3,81 | 10 | **10,82** |
| WNMG 080408 MM | TT120 | TA1999080900226 | 6,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **10,82** |
| WNMG 080408 MM | TT130 | TA1999080900229 | 6,5 | 9,525 | 4,76 | 0,8 | 3,81 | 10 | **10,82** |
| WNMG 080412 MM | TT120 | TA1999080900227 | 6,5 | 9,525 | 4,76 | 1,2 | 3,81 | 10 | **10,82** |
| WNMG 080412 MM | TT130 | TA1999080900230 | 6,5 | 9,525 | 4,76 | 1,2 | 3,81 | 10 | **10,82** |

## Inserto per tornitura WNMG - SS, 80° negativo

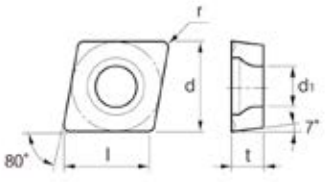





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNMG 080408 SS | TT120 | TA1999080900242 | 8,7 | 12,7 | 4,76 | 0,8 | 5,16 | 10 | **10,82** |
| WNMG 080412 SS | TT120 | TA1999080900243 | 8,7 | 12,7 | 4,76 | 1,2 | 5,16 | 10 | **10,82** |

## Inserto per tornitura CCGT - R/L, 80° positivo



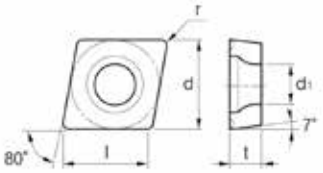



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCGT 030102 L | TT415 | TA1999080900691 | 3,3 | 3,35 | 1,4 | 0,2 | 2,3 | 10 | **27,50** |
| CCGT 030102 R | TT415 | TA1999080900876 | 3,3 | 3,35 | 1,4 | 0,2 | 2,3 | 10 | **27,50** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura CCGT - AL, 80° positivo

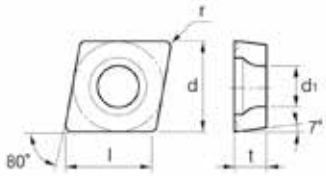





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCGT 060202 AL | TT10 | TA1999080900247 | 6,5 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **10,95** |
| CCGT 060204 AL | TT10 | TA1999080900248 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **10,95** |
| CCGT 060208 AL | TT10 | TA1999080900249 | 6,5 | 6,35 | 2,38 | 0,8 | 2,8 | 10 | **10,95** |
| CCGT 09T302 AL | TT10 | TA1999080900250 | 9,7 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **13,00** |
| CCGT 09T304 AL | TT10 | TA1999080900251 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **13,00** |
| CCGT 09T308 AL | TT10 | TA1999080900252 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **13,00** |
| CCGT 120402 AL | TT10 | TA1999080900253 | 12,9 | 12,7 | 4,76 | 0,2 | 5,5 | 10 | **14,45** |
| CCGT 120404 AL | TT10 | TA1999080900254 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **14,45** |
| CCGT 120408 AL | TT10 | TA1999080900255 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **14,45** |

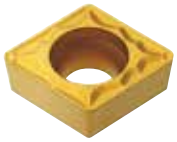
## Inserto per tornitura CCMT - FF, 80° positivo

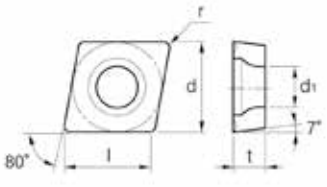





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCMT 060202 FF | TT110 | TA1999080900274 | 6,5 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,45** |
| CCMT 060204 FF | TT110 | TA1999080900275 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 09T302 FF | TT110 | TA1999080900276 | 9,7 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **9,90** |
| CCMT 09T304 FF | TT110 | TA1999080900277 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |

## Inserto per tornitura CCMT - MX, 80° positivo

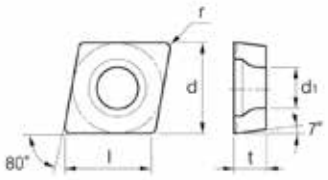





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCMT 060202 MX | TT230 | TA1999080900754 | 6,5 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,45** |
| CCMT 060204 MX | TT120 | TA1999080900280 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060204 MX | TT230 | TA1999080900753 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060208 MX | TT120 | TA1999080900281 | 6,5 | 6,35 | 2,38 | 0,8 | 2,8 | 10 | **8,45** |
| CCMT 09T304 MX | TT120 | TA1999080900282 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T304 MX | TT230 | TA1999080900297 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MX | TT120 | TA1999080900283 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MX | TT230 | TA1999080900298 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 120404 MX | TT120 | TA1999080900284 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120404 MX | TT230 | TA1999080900299 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120404 MX | TT235 | TA1999080900295 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120408 MX | TT120 | TA1999080900285 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |
| CCMT 120408 MX | TT230 | TA1999080900752 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |
| CCMT 120408 MX | TT235 | TA1999080900296 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |

## Inserto per tornitura CCMT - MM, 80° positivo



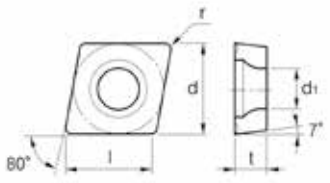



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCMT 060202 MM | TT120 | TA1999080900256 | 6,5 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,45** |
| CCMT 060202 MM | TT420 | TA1999080900755 | 6,5 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,45** |
| CCMT 060204 MM | TT110 | TA1999080900262 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060204 MM | TT120 | TA1999080900257 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060204 MM | TT130 | TA1999080900265 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060204 MM | TT310 | TA1999080900269 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 060204 MM | TT420 | TA1999080900756 | 6,5 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,45** |
| CCMT 09T304 MM | TT110 | TA1999080900263 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T304 MM | TT120 | TA1999080900258 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T304 MM | TT130 | TA1999080900266 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T304 MM | TT310 | TA1999080900270 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura CCMT - MM, 80° positivo

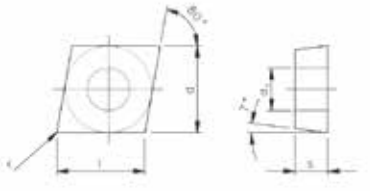





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CCMT 09T304 MM | TT420 | TA1999080900757 | 9,7 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MM | TT110 | TA1999080900264 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MM | TT120 | TA1999080900259 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MM | TT130 | TA1999080900267 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MM | TT310 | TA1999080900271 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 09T308 MM | TT420 | TA1999080900758 | 9,7 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,90** |
| CCMT 120404 MM | TT120 | TA1999080900260 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120404 MM | TT310 | TA1999080900272 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120404 MM | TT420 | TA1999080900759 | 12,9 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,55** |
| CCMT 120408 MM | TT120 | TA1999080900261 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |
| CCMT 120408 MM | TT130 | TA1999080900268 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |
| CCMT 120408 MM | TT310 | TA1999080900273 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |
| CCMT 120408 MM | TT420 | TA1999080900760 | 12,9 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,55** |

## Inserto per tornitura CDGT - FR/FL, 80° positivo

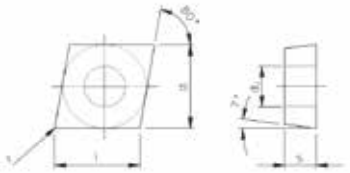




| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CDGT 040102 FR | TT220 | TA1999080900883 | 4,03 | 3,97 | 1 | 0,2 | 2,1 | 10 | **28,01** |
| CDGT 040102 FL | TT220 | TA1999080900884 | 4,03 | 3,97 | 1 | 0,2 | 2,1 | 10 | **28,01** |
| CDGT 040104 FR | TT220 | TA1999080900885 | 4,03 | 3,97 | 1 | 0,4 | 2,1 | 10 | **28,01** |
| CDGT 040104 FL | TT220 | TA1999080900886 | 4,03 | 3,97 | 1 | 0,4 | 2,1 | 10 | **28,01** |

## Inserto per tornitura CDGT - AL, 80° positivo

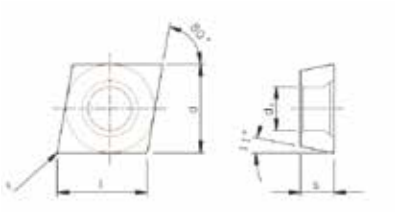




| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CDGT 040101 AL | TT10 | TA1999080900880 | 4,03 | 3,97 | 1 | 0,1 | 2,1 | 10 | **16,38** |
| CDGT 040102 AL | TT10 | TA1999080900881 | 4,03 | 3,97 | 1 | 0,2 | 2,1 | 10 | **16,38** |
| CDGT 040104 AL | TT10 | TA1999080900882 | 4,03 | 3,97 | 1 | 0,4 | 2,1 | 10 | **16,38** |

## Inserto per tornitura CPMT - MM-MX, 80° positivo

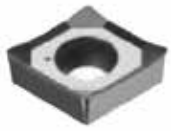


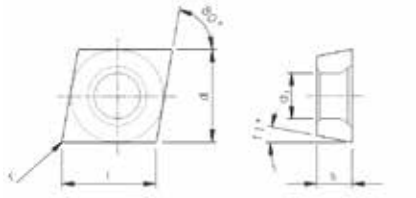


| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CPMT 05T102 MM | TT220 | TA1999080900887 | 5,6 | 5,6 | 1,98 | 0,2 | 2,5 | 10 | **16,47** |
| CPMT 05T104 MM | TT220 | TA1999080900889 | 5,6 | 5,6 | 1,98 | 0,4 | 2,5 | 10 | **16,47** |
| CPMT 05T102 MX | TT120 | TA1999080900888 | 5,6 | 5,6 | 1,98 | 0,2 | 2,5 | 10 | **16,47** |
| CPMT 05T104 MX | TT120 | TA1999080900890 | 5,6 | 5,6 | 1,98 | 0,4 | 2,5 | 10 | **16,47** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura CPGT - AL, 80° positivo

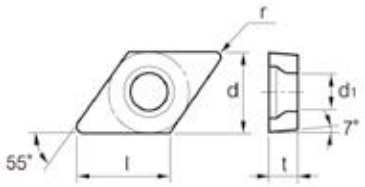




| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CPGT 05T102 AL | TT10 | TA1999080900891 | 5,6 | 5,6 | 1,98 | 0,2 | 2,5 | 10 | **20,15** |
| CPGT 05T104 AL | TT10 | TA1999080900892 | 5,6 | 5,6 | 1,98 | 0,4 | 2,5 | 10 | **20,15** |

## Inserto per tornitura DCGT - AL, 55° positivo

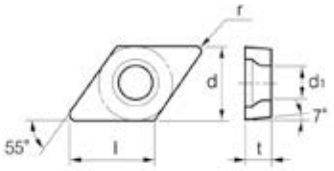





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DCGT 070202 AL | TT10 | TA1999080900328 | 7,8 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **10,95** |
| DCGT 070204 AL | TT10 | TA1999080900329 | 7,8 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **10,95** |
| DCGT 11T302 AL | TT10 | TA1999080900330 | 11,6 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **13,00** |
| DCGT 11T304 AL | TT10 | TA1999080900331 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **13,00** |
| DCGT 11T308 AL | TT10 | TA1999080900332 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **13,00** |

## Inserto per tornitura DCMT - FF, 55° positivo

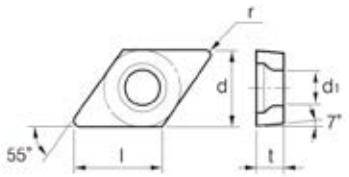





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DCMT 070202 FF | TT110 | TA1999080900311 | 7,8 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **9,50** |
| DCMT 070202 FF | TT120 | TA1999080900307 | 7,8 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **9,50** |
| DCMT 070204 FF | TT110 | TA1999080900312 | 7,8 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **9,50** |
| DCMT 070204 FF | TT120 | TA1999080900308 | 7,8 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **9,50** |
| DCMT 11T302 FF | TT110 | TA1999080900309 | 11,6 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **10,82** |
| DCMT 11T302 FF | TT120 | TA1999080900313 | 11,6 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **10,82** |
| DCMT 11T304 FF | TT110 | TA1999080900310 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T304 FF | TT120 | TA1999080900314 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |

## Inserto per tornitura DCMT - MX, 55° positivo

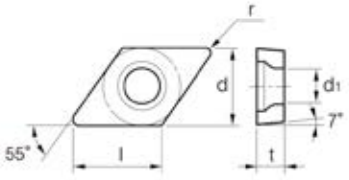





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DCMT 070204 MX | TT220 | TA1999080900320 | 7,8 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **9,50** |
| DCMT 11T304 MX | TT220 | TA1999080900321 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T304 MX | TT230 | TA1999080900326 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MX | TT220 | TA1999080900322 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MX | TT230 | TA1999080900327 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |

## Inserto per tornitura DCMT - MM, 55° positivo



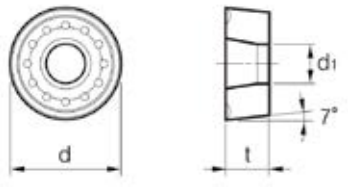



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| DCMT 070202 MM | TT420 | TA1999080900765 | 7,8 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **9,50** |
| DCMT 070204 MM | TT120 | TA1999080900300 | 7,8 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **9,50** |
| DCMT 11T302 MM | TT420 | TA1999080900764 | 11,6 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **10,82** |
| DCMT 11T304 MM | TT120 | TA1999080900301 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T304 MM | TT130 | TA1999080900303 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T304 MM | TT310 | TA1999080900305 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T304 MM | TT420 | TA1999080900762 | 11,6 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MM | TT120 | TA1999080900302 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MM | TT130 | TA1999080900304 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MM | TT310 | TA1999080900306 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |
| DCMT 11T308 MM | TT420 | TA1999080900763 | 11,6 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,82** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura RCGT - AL, R° positivo

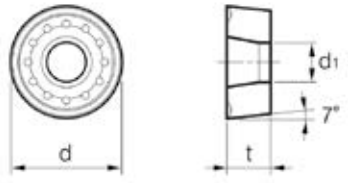





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RCGT 0602MO AL | TT10 | TA1999080900333 | 6 | 2,38 | 2,2 | 10 | **11,38** |
| RCGT 0803MO AL | TT10 | TA1999080900334 | 8 | 3,18 | 3,35 | 10 | **11,61** |
| RCGT 1003MO AL | TT10 | TA1999080900335 | 10 | 3,18 | 4 | 10 | **14,68** |
| RCGT 1204MO AL | TT10 | TA1999080900336 | 12 | 4,76 | 4,4 | 10 | **17,62** |

## Inserto per tornitura RCMX, R° positivo

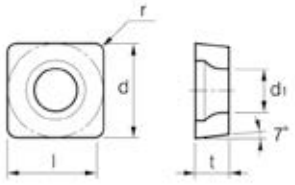





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RCMX 1204MO | TT120 | TA1999080900340 | 12 | 4,76 | 4,4 | 10 | **12,63** |

## Inserto per tornitura SCGT - AL, 90° positivo

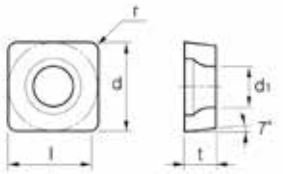





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SCGT 09T304 AL | TT10 | TA1999080900345 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **13,00** |
| SCGT 09T308 AL | TT10 | TA1999080900346 | 9,525 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **13,00** |
| SCGT 120404 AL | TT10 | TA1999080900347 | 12,7 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **14,45** |
| SCGT 120408 AL | TT10 | TA1999080900348 | 12,7 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **14,45** |

## Inserto per tornitura SCMT - MX, 90° positivo

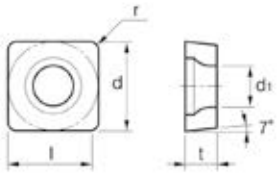





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SCMT 09T304 MX | TT120 | TA1999080900356 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,93** |
| SCMT 09T304 MX | TT235 | TA1999080900360 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,93** |
| SCMT 09T308 MX | TT235 | TA1999080900361 | 9,525 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,93** |
| SCMT 120404 MX | TT120 | TA1999080900358 | 12,7 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,68** |

## Inserto per tornitura SCMT - MM, 90° positivo



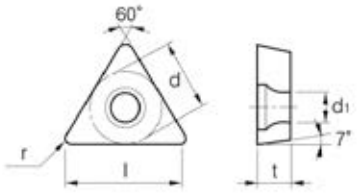



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SCMT 060204 MM | TT130 | TA1999080900679 | 5,9 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **9,93** |
| SCMT 09T304 MM | TT120 | TA1999080900349 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,93** |
| SCMT 09T304 MM | TT130 | TA1999080900353 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,93** |
| SCMT 09T304 MM | TT420 | TA1999080900767 | 9,525 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **9,93** |
| SCMT 09T308 MM | TT120 | TA1999080900350 | 9,525 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,93** |
| SCMT 09T308 MM | TT130 | TA1999080900354 | 9,525 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **9,93** |
| SCMT 120404 MM | TT120 | TA1999080900351 | 12,7 | 12,7 | 4,76 | 0,4 | 5,5 | 10 | **11,68** |
| SCMT 120408 MM | TT120 | TA1999080900352 | 12,7 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,68** |
| SCMT 120408 MM | TT130 | TA1999080900692 | 12,7 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,68** |
| SCMT 120408 MM | TT235 | TA1999080900355 | 12,7 | 12,7 | 4,76 | 0,8 | 5,5 | 10 | **11,68** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura TCGT - AL, 60° positivo

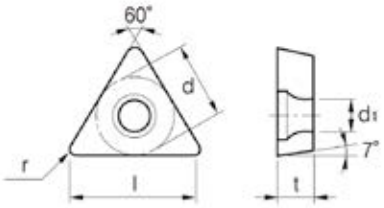





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TCGT 110202 AL | TT10 | TA1999080900362 | 11 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **11,22** |
| TCGT 110204 AL | TT10 | TA1999080900363 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **11,22** |
| TCGT 110208 AL | TT10 | TA1999080900364 | 11 | 6,35 | 2,38 | 0,8 | 2,8 | 10 | **11,22** |
| TCGT 16T302 AL | TT10 | TA1999080900365 | 16,5 | 9,525 | 3,97 | 0,2 | 4,4 | 10 | **14,22** |
| TCGT 16T304 AL | TT10 | TA1999080900366 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **14,22** |
| TCGT 16T308 AL | TT10 | TA1999080900367 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **14,22** |
| TCGT 16T312 AL | TT10 | TA1999080900368 | 16,5 | 9,525 | 3,97 | 1,2 | 4,4 | 10 | **14,22** |

## Inserto per tornitura TCMT - FF, 60° positivo

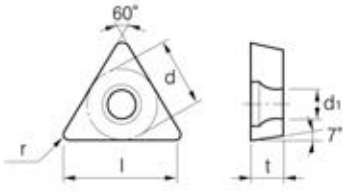





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TCMT 110202 FF | TT120 | TA1999080900382 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,58** |
| TCMT 16T304 FF | TT120 | TA1999080900384 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |

## Inserto per tornitura TCMT - MX, 60° positivo

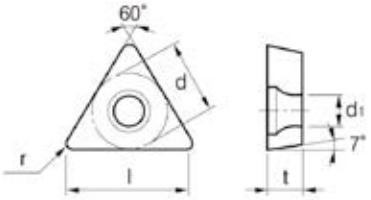





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TCMT 110204 MX | TT220 | TA1999080900391 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,58** |
| TCMT 110204 MX | TT225 | TA1999080900394 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,58** |
| TCMT 16T304 MX | TT220 | TA1999080900392 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T304 MX | TT230 | TA1999080900398 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MX | TT220 | TA1999080900393 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MX | TT230 | TA1999080900399 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |

## Inserto per tornitura TCMT - MM, 60° positivo

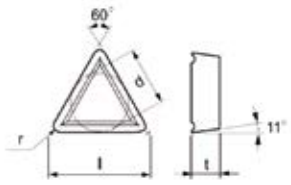





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TCMT 110202 MM | TT120 | TA1999080900369 | 11 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,58** |
| TCMT 110202 MM | TT420 | TA1999080900768 | 11 | 6,35 | 2,38 | 0,2 | 2,8 | 10 | **8,58** |
| TCMT 110204 MM | TT120 | TA1999080900370 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,58** |
| TCMT 110204 MM | TT420 | TA1999080900769 | 11 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **8,58** |
| TCMT 110208 MM | TT120 | TA1999080900371 | 11 | 6,35 | 2,38 | 0,8 | 2,8 | 10 | **8,58** |
| TCMT 110208 MM | TT130 | TA1999080900374 | 11 | 6,35 | 2,38 | 0,8 | 2,8 | 10 | **8,58** |
| TCMT 16T304 MM | TT120 | TA1999080900372 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T304 MM | TT130 | TA1999080900375 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T304 MM | TT310 | TA1999080900380 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T304 MM | TT420 | TA1999080900770 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MM | TT120 | TA1999080900373 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MM | TT130 | TA1999080900376 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MM | TT310 | TA1999080900381 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |
| TCMT 16T308 MM | TT420 | TA1999080900771 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **10,13** |

## Inserto per tornitura TPMR, 60° positivo



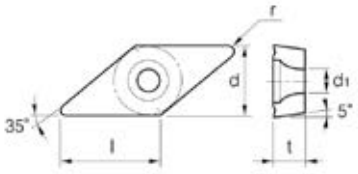



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TPMR 160304 | TT120 | TA1999080900790 | 16,5 | 9,525 | 3,97 | 0,4 | - | 10 | **9,83** |
| TPMR 160304 | TT130 | TA1999080900791 | 16,5 | 9,525 | 3,97 | 0,4 | - | 10 | **9,83** |
| TPMR 160304 | TT220 | TA1999080900792 | 16,5 | 9,525 | 3,97 | 0,4 | - | 10 | **9,83** |
| TPMR 160308 | TT120 | TA1999080900793 | 16,5 | 9,525 | 3,97 | 0,8 | - | 10 | **9,83** |
| TPMR 160308 | TT130 | TA1999080900794 | 16,5 | 9,525 | 3,97 | 0,8 | - | 10 | **9,83** |
| TPMR 160308 | TT220 | TA1999080900795 | 16,5 | 9,525 | 3,97 | 0,8 | - | 10 | **9,83** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per tornitura VBMT - MX, 35° positivo

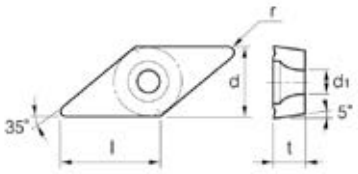





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VBMT 110304 MX | TT120 | TA1999080900400 | 11,1 | 6,35 | 3,18 | 0,4 | 3,4 | 10 | **15,11** |
| VBMT 160404 MX | TT120 | TA1999080900402 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **16,33** |
| VBMT 160404 MX | TT220 | TA1999080900405 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **16,33** |
| VBMT 160408 MX | TT120 | TA1999080900403 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **16,33** |
| VBMT 160408 MX | TT220 | TA1999080900406 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **16,33** |
| VBMT 160408 MX | TT230 | TA1999080900772 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **16,33** |

## Inserto per tornitura VBMT - MM, 35° positivo

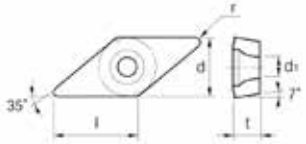





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VBMT 160404 MM | TT120 | TA1999080900408 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **16,33** |
| VBMT 160404 MM | TT420 | TA1999080900773 | 16,5 | 9,525 | 3,97 | 0,4 | 4,4 | 10 | **16,33** |
| VBMT 160408 MM | TT120 | TA1999080900409 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **16,33** |
| VBMT 160408 MM | TT420 | TA1999080900774 | 16,5 | 9,525 | 3,97 | 0,8 | 4,4 | 10 | **16,33** |

## Inserto per tornitura VCGT - AL, 35° positivo

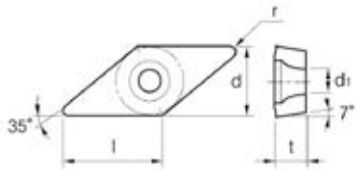





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VCGT 050102 AL | TT10 | TA1999080900960 | 5,4 | 3,10 | 1,59 | 0,2 | 1,7 | 10 | **30,94** |
| VCGT 070201 AL | TT10 | TA1999080900893 | 6,92 | 3,97 | 2,38 | 0,1 | 2,2 | 10 | **20,80** |
| VCGT 070202 AL | TT10 | TA1999080900894 | 6,92 | 3,97 | 2,38 | 0,2 | 2,2 | 10 | **20,80** |
| VCGT 070204 AL | TT10 | TA1999080900895 | 6,92 | 3,97 | 2,38 | 0,4 | 2,2 | 10 | **20,80** |

## Inserto per tornitura VCGT - AL, 35° positivo

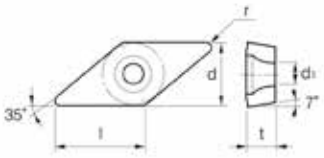





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VCGT 110302 AL | TT10 | TA1999080900412 | 11 | 6,35 | 3,18 | 0,2 | 2,8 | 10 | **13,69** |
| VCGT 110304 AL | TT10 | TA1999080900413 | 11 | 6,35 | 3,18 | 0,4 | 2,8 | 10 | **13,69** |
| VCGT 110308 AL | TT10 | TA1999080900414 | 11 | 6,35 | 3,18 | 0,8 | 2,8 | 10 | **13,69** |
| VCGT 160402 AL | TT10 | TA1999080900415 | 16,5 | 7,94 | 4,76 | 0,2 | 4,4 | 10 | **15,47** |
| VCGT 160404 AL | TT10 | TA1999080900416 | 16,5 | 7,94 | 4,76 | 0,4 | 4,4 | 10 | **15,47** |
| VCGT 160408 AL | TT10 | TA1999080900417 | 16,5 | 7,94 | 4,76 | 0,8 | 4,4 | 10 | **15,47** |
| VCGT 160412 AL | TT10 | TA1999080900418 | 16,5 | 7,94 | 4,76 | 1,2 | 4,4 | 10 | **15,47** |

## Inserto per tornitura VCMT - MX, 35° positivo

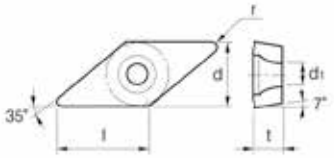





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VCGT 050102 MX | TT230 | TA1999080900961 | 6,92 | 3,97 | 2,38 | 0,2 | 2,2 | 10 | **32,50** |
| VCMT 070202 MX | TT220 | TA1999080900896 | 6,92 | 3,97 | 2,38 | 0,2 | 2,2 | 10 | **21,06** |
| VCMT 070204 MX | TT220 | TA1999080900897 | 6,92 | 3,97 | 2,38 | 0,4 | 2,2 | 10 | **21,06** |

## Inserto per tornitura VCMT - FF, 35° positivo



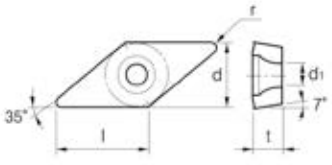



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VCMT 160404 FF | TT120 | TA1999080900425 | 16,5 | 7,94 | 4,76 | 0,4 | 4,4 | 10 | **15,31** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

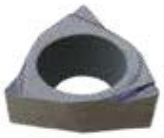
## Inserto per tornitura VCMT - MX, 35° positivo

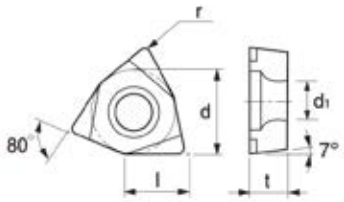





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VCMT 160404 MX | TT120 | TA1999080900419 | 16,5 | 7,94 | 4,76 | 0,4 | 4,4 | 10 | **15,31** |
| VCMT 160404 MX | TT220 | TA1999080900423 | 16,5 | 7,94 | 4,76 | 0,4 | 4,4 | 10 | **15,31** |
| VCMT 160408 MX | TT120 | TA1999080900420 | 16,5 | 7,94 | 4,76 | 0,8 | 4,4 | 10 | **15,31** |
| VCMT 160408 MX | TT220 | TA1999080900424 | 16,5 | 7,94 | 4,76 | 0,8 | 4,4 | 10 | **15,31** |

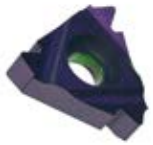
## Inserto per tornitura WCGT - R/L, 80° positivo

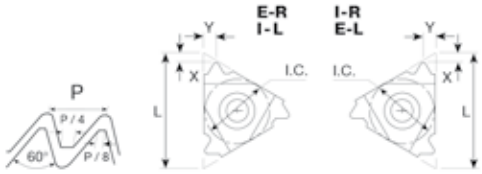





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WCGT 020102 L | TT420 | TA1999080900426 | 3,6 | 3,97 | 1,59 | 0,2 | 2,2 | 10 | **24,84** |
| WCGT 020102 R | TT420 | TA1999080900427 | 3,6 | 3,97 | 1,59 | 0,2 | 2,2 | 10 | **24,84** |

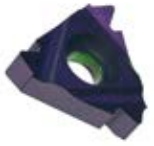
## Inserto per filettatura, profilo parziale a 60°






| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080501000 | 16 ER AG60 TF125 | - | 0,5 ÷ 3,0 | 48 ÷ 8 | 16 | 3/8 | 1,2 | 10 | **23,61** |
| TA1999080501007 | 22 ER N60 TF125 | - | 3,5 ÷ 5 | 7 ÷ 5 | 22 | 1/2 | 1,7 | 10 | **36,73** |
| TA1999080501001 | - | 16 IR AG60 TF125 | 0,5 ÷ 3,0 | 48 ÷ 8 | 16 | 3/8 | 1,2 | 10 | **23,61** |
| TA1999080501005 | - | 22 IR N60 TF125 | 3,5 ÷ 5 | 48 ÷ 8 | 22 | 1/2 | 1,7 | 10 | **36,73** |

## Inserto per filettatura ISO metrico a profilo completo

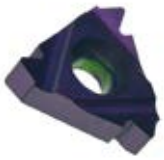





| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500130 | 16 ER 0,50 ISO TF125 | - | 0,5 | 16 | 3/8 | 0,6 | 0,6 | 10 | **19,89** |
| TA1999080500133 | 16 ER 0,75 ISO TF125 | - | 0,75 | 16 | 3/8 | 0,6 | 0,6 | 10 | **19,89** |
| TA1999080500135 | 16 ER 1,00 ISO TF125 | - | 1 | 16 | 3/8 | 0,7 | 0,7 | 10 | **19,89** |
| TA1999080500136 | 16 ER 1,25 ISO TF125 | - | 1,25 | 16 | 3/8 | 0,8 | 0,9 | 10 | **19,89** |
| TA1999080500137 | 16 ER 1,50 ISO TF125 | - | 1,5 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500138 | 16 ER 1,75 ISO TF125 | - | 1,75 | 16 | 3/8 | 0,9 | 1,2 | 10 | **19,89** |
| TA1999080500139 | 16 ER 2,00 ISO TF125 | - | 2 | 16 | 3/8 | 1 | 1,3 | 10 | **19,89** |
| TA1999080500140 | 16 ER 2,50 ISO TF125 | - | 2,5 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500141 | 16 ER 3,00 ISO TF125 | - | 3 | 16 | 3/8 | 1,2 | 1,6 | 10 | **19,89** |
| TA1999080500142 | 16 ER 3,50 ISO TF125 | - | 3,5 | 16 | 3/8 | 1,2 | 1,7 | 10 | **19,89** |
| TA1999080500188 | 22 ER 3,50 ISO TF125 | - | 3,5 | 16 | 3/8 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500189 | 22 ER 4,00 ISO TF125 | - | 4 | 22 | 1/2 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500190 | 22 ER 4,50 ISO TF125 | - | 4,5 | 22 | 1/2 | 1,7 | 2,4 | 10 | **28,25** |
| TA1999080500191 | 22 ER 5,00 ISO TF125 | - | 5 | 22 | 1/2 | 1,7 | 2,5 | 10 | **28,25** |
| TA1999080500192 | 22 ER 5,50 ISO TF125 | - | 5,5 | 22 | 1/2 | 1,7 | 2,6 | 10 | **28,25** |
| TA1999080500193 | 22 ER 6,00 ISO TF125 | - | 6 | 22 | 1/2 | 1,9 | 2,7 | 10 | **28,25** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per filettatura ISO metrico a profilo completo

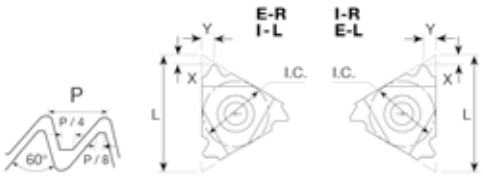





| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500111 | - | 11 IR 0,50 ISO TF125 | 0,5 | 11 | 1/4 | 0,6 | 0,6 | 10 | **22,28** |
| TA1999080500112 | - | 11 IR 0,75 ISO TF125 | 0,75 | 11 | 1/4 | 0,6 | 0,6 | 10 | **22,28** |
| TA1999080500114 | - | 11 IR 1,00 ISO TF125 | 1 | 11 | 1/4 | 0,6 | 0,7 | 10 | **19,89** |
| TA1999080500115 | - | 11 IR 1,25 ISO TF125 | 1,25 | 11 | 1/4 | 0,8 | 0,8 | 10 | **19,89** |
| TA1999080500116 | - | 11 IR 1,50 ISO TF125 | 1,5 | 11 | 1/4 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500117 | - | 11 IR 1,75 ISO TF125 | 1,75 | 11 | 1/4 | 0,8 | 1,1 | 10 | **19,89** |
| TA1999080500118 | - | 11 IR 2,00 ISO TF125 | 2 | 11 | 1/4 | 0,8 | 0,9 | 10 | **19,89** |
| TA1999080500119 | - | 11 IR 2,50 ISO TF125 | 2,5 | 11 | 1/4 | 0,8 | 1,2 | 10 | **19,89** |
| TA1999080500159 | - | 16 IR 0,50 ISO TF125 | 0,5 | 16 | 3/8 | 0,6 | 0,6 | 10 | **19,89** |
| TA1999080500162 | - | 16 IR 0,75 ISO TF125 | 0,75 | 16 | 3/8 | 0,6 | 0,6 | 10 | **19,89** |
| TA1999080500164 | - | 16 IR 1,00 ISO TF125 | 1 | 16 | 3/8 | 0,7 | 0,7 | 10 | **19,89** |
| TA1999080500165 | - | 16 IR 1,25 ISO TF125 | 1,25 | 16 | 3/8 | 0,8 | 0,9 | 10 | **19,89** |
| TA1999080500166 | - | 16 IR 1,50 ISO TF125 | 1,5 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500167 | - | 16 IR 1,75 ISO TF125 | 1,75 | 16 | 3/8 | 0,9 | 1,2 | 10 | **19,89** |
| TA1999080500168 | - | 16 IR 2,00 ISO TF125 | 2 | 16 | 3/8 | 1 | 1,3 | 10 | **19,89** |
| TA1999080500169 | - | 16 IR 2,50 ISO TF125 | 2,5 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500170 | - | 16 IR 3,00 ISO TF125 | 3 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500171 | - | 16 IR 3,50 ISO TF125 | 3,5 | 16 | 3/8 | 1,2 | 1,7 | 10 | **19,89** |
| TA1999080500201 | - | 22 IR 3,50 ISO TF125 | 3,5 | 16 | 3/8 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500202 | - | 22 IR 4,00 ISO TF125 | 4 | 22 | 1/2 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500203 | - | 22 IR 4,50 ISO TF125 | 4,5 | 22 | 1/2 | 1,6 | 2,4 | 10 | **28,25** |
| TA1999080500204 | - | 22 IR 5,00 ISO TF125 | 5 | 22 | 1/2 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500205 | - | 22 IR 5,50 ISO TF125 | 5,5 | 22 | 1/2 | 1,6 | 2,3 | 10 | **28,25** |
| TA1999080500206 | - | 22 IR 6,00 ISO TF125 | 6 | 22 | 1/2 | 1,9 | 2,7 | 10 | **28,25** |

## Inserto per filettatura ISO metrico tipo E a profilo completo di precisione rettificato, con rompitruciolo sinterizzato



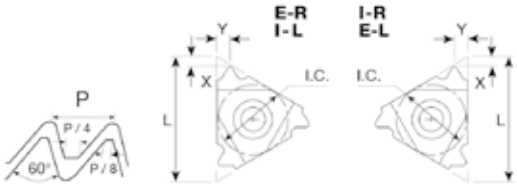



| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500220 | 16 ER E 1,00 ISO TF125 | - | 1 | 16 | 3/8 | 0,7 | 0,7 | 10 | **19,89** |
| TA1999080500221 | 16 ER E 1,25 ISO TF125 | - | 1,25 | 16 | 3/8 | 0,8 | 0,9 | 10 | **19,89** |
| TA1999080500222 | 16 ER E 1,50 ISO TF125 | - | 1,5 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500223 | 16 ER E 1,75 ISO TF125 | - | 1,75 | 16 | 3/8 | 0,9 | 1,2 | 10 | **19,89** |
| TA1999080500224 | 16 ER E 2,00 ISO TF125 | - | 2 | 16 | 3/8 | 1 | 1,3 | 10 | **19,89** |
| TA1999080500225 | 16 ER E 2,50 ISO TF125 | - | 2,5 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500226 | 16 ER E 3,00 ISO TF125 | - | 3 | 16 | 3/8 | 1,2 | 1,5 | 10 | **19,89** |
| TA1999080500227 | - | 16 IR E 1,00 ISO TF125 | 1 | 16 | 3/8 | 0,7 | 0,6 | 10 | **19,89** |
| TA1999080500228 | - | 16 IR E 1,25 ISO TF125 | 1,25 | 16 | 3/8 | 0,8 | 0,9 | 10 | **19,89** |
| TA1999080500229 | - | 16 IR E 1,50 ISO TF125 | 1,5 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500230 | - | 16 IR E 1,75 ISO TF125 | 1,75 | 16 | 3/8 | 0,9 | 1,2 | 10 | **19,89** |
| TA1999080500231 | - | 16 IR E 2,00 ISO TF125 | 2 | 16 | 3/8 | 1 | 1,3 | 10 | **19,89** |
| TA1999080500232 | - | 16 IR E 2,50 ISO TF125 | 2,5 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500233 | - | 16 IR E 3,00 ISO TF125 | 3 | 16 | 3/8 | 1,2 | 1,6 | 10 | **19,89** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Set di 10 inserti per filettatura ISO metrico tipo E per esterno ed interno

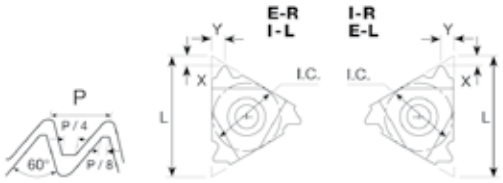





| Codice | Esterno | Interno | Descrizione | L | | € / cad. |
|---|---|---|---|---|---|---|
| TA19990805KT16E | X | - | Set composto da 2 inserti per tipo 16 ER E, passo 1 - 1.5 - 2 - 2.5 - 3 | 16 | 1 | **212,18** |
| TA19990805KT16I | - | X | Set composto da 2 inserti per tipo 16 IR E, passo 1 - 1.5 - 2 - 2.5 - 3 | 16 | 1 | **212,18** |

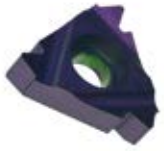
## Inserto per filettatura, profilo parziale a 55°

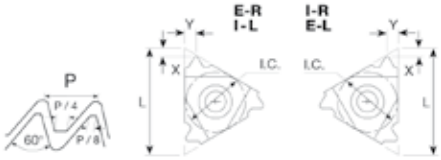





| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080501002 | 16 ER AG55 TF125 | - | 0,5 ÷ 3,0 | 48 ÷ 8 | 16 | 3/8 | 1,2 | 10 | **23,61** |
| TA1999080501006 | 22 ER N55 TF125 | - | 3,5 ÷ 5 | 48 ÷ 8 | 22 | 1/2 | 1,7 | 10 | **36,73** |
| TA1999080501003 | - | 16 IR AG55 TF125 | 0,5 ÷ 3,0 | 48 ÷ 8 | 16 | 3/8 | 1,2 | 10 | **23,61** |
| TA1999080501004 | - | 22 IR N55 TF125 | 3,5 ÷ 5 | 48 ÷ 8 | 22 | 1/2 | 1,7 | 10 | **36,73** |

## Inserto per filettatura Whitworth 55° a profilo completo





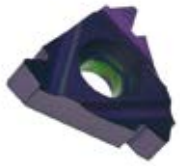

| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500452 | 16 ER 60 W TF125 | - | 60 | 16 | 1/4 | 0,7 | 0,4 | 10 | **28,78** |
| TA1999080500451 | 16 ER 56 W TF125 | - | 56 | 16 | 3/8 | 0,7 | 0,4 | 10 | **28,78** |
| TA1999080500450 | 16 ER 40 W TF125 | - | 40 | 16 | 3/8 | 0,6 | 0,6 | 10 | **28,78** |
| TA1999080500449 | 16 ER 32 W TF125 | - | 32 | 16 | 3/8 | 0,6 | 0,6 | 10 | **22,81** |
| TA1999080500448 | 16 ER 28 W TF125 | - | 28 | 16 | 3/8 | 0,6 | 0,7 | 10 | **22,81** |

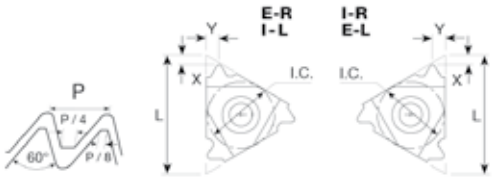
## Inserto per filettatura Whitworth 55° a profilo completo

| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500447 | 16 ER 26 W TF125 | - | 26 | 16 | 3/8 | 0,7 | 0,7 | 10 | **22,81** |
| TA1999080500446 | 16 ER 24 W TF125 | - | 24 | 16 | 3/8 | 0,7 | 0,8 | 10 | **22,81** |
| TA1999080500445 | 16 ER 22 W TF125 | - | 22 | 16 | 3/8 | 0,8 | 0,9 | 10 | **22,81** |
| TA1999080500444 | 16 ER 20 W TF125 | - | 20 | 16 | 3/8 | 0,8 | 0,9 | 10 | **22,81** |
| TA1999080500443 | 16 ER 19 W TF125 | - | 19 | 16 | 3/8 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500442 | 16 ER 18 W TF125 | - | 18 | 16 | 3/8 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500441 | 16 ER 16 W TF125 | - | 16 | 16 | 3/8 | 0,9 | 1,1 | 10 | **22,81** |
| TA1999080500440 | 16 ER 14 W TF125 | - | 14 | 16 | 3/8 | 1 | 1,2 | 10 | **22,81** |
| TA1999080500438 | 16 ER 11 W TF125 | - | 11 | 16 | 3/8 | 1,1 | 1,5 | 10 | **22,81** |
| TA1999080500437 | 16 ER 10 W TF125 | - | 10 | 16 | 3/8 | 1,1 | 1,5 | 10 | **22,81** |
| TA1999080500436 | 16 ER 9 W TF125 | - | 9 | 16 | 3/8 | 1,2 | 1,7 | 10 | **22,81** |
| TA1999080500435 | 16 ER 8 W TF125 | - | 8 | 16 | 3/8 | 1,2 | 1,5 | 10 | **22,81** |
| TA1999080500424 | - | 11 IR 32 W TF125 | 32 | 11 | 1/4 | 0,6 | 0,6 | 10 | **22,81** |
| TA1999080500423 | - | 11 IR 28 W TF125 | 28 | 11 | 1/4 | 0,6 | 0,7 | 10 | **22,81** |
| TA1999080500422 | - | 11 IR 24 W TF125 | 24 | 11 | 1/4 | 0,7 | 0,8 | 10 | **22,81** |
| TA1999080500421 | - | 11 IR 20 W TF125 | 20 | 11 | 1/4 | 0,8 | 0,9 | 10 | **22,81** |
| TA1999080500420 | - | 11 IR 19 W TF125 | 19 | 11 | 1/4 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500419 | - | 11 IR 18 W TF125 | 18 | 11 | 1/4 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500418 | - | 11 IR 16 W TF125 | 16 | 11 | 1/4 | 0,9 | 1,1 | 10 | **22,81** |
| TA1999080500417 | - | 11 IR 14 W TF125 | 14 | 11 | 1/4 | 0,9 | 1,1 | 10 | **22,81** |
| TA1999080500415 | - | 11 IR 11 W TF125 | 11 | 11 | 1/4 | 0,9 | 1,2 | 10 | **22,81** |
| TA1999080500476 | - | 16 IR 60 W TF125 | 60 | 16 | 1/4 | 0,7 | 0,4 | 10 | **28,78** |
| TA1999080500475 | - | 16 IR 56 W TF125 | 56 | 16 | 3/8 | 0,7 | 0,4 | 10 | **28,78** |
| TA1999080500474 | - | 16 IR 40 W TF125 | 40 | 16 | 3/8 | 0,6 | 0,6 | 10 | **28,78** |
| TA1999080500473 | - | 16 IR 32 W TF125 | 32 | 16 | 3/8 | 0,6 | 0,6 | 10 | **22,81** |
| TA1999080500472 | - | 16 IR 28 W TF125 | 28 | 16 | 3/8 | 0,6 | 0,7 | 10 | **22,81** |
| TA1999080500471 | - | 16 IR 26 W TF125 | 26 | 16 | 3/8 | 0,7 | 0,7 | 10 | **22,81** |
| TA1999080500470 | - | 16 IR 24 W TF125 | 24 | 16 | 3/8 | 0,7 | 0,8 | 10 | **22,81** |
| TA1999080500469 | - | 16 IR 22 W TF125 | 22 | 16 | 3/8 | 0,8 | 0,9 | 10 | **22,81** |
| TA1999080500468 | - | 16 IR 20 W TF125 | 20 | 16 | 3/8 | 0,8 | 0,9 | 10 | **22,81** |
| TA1999080500467 | - | 16 IR 19 W TF125 | 19 | 16 | 3/8 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500466 | - | 16 IR 18 W TF125 | 18 | 16 | 3/8 | 0,8 | 1 | 10 | **22,81** |
| TA1999080500465 | - | 16 IR 16 W TF125 | 16 | 16 | 3/8 | 0,9 | 1,1 | 10 | **22,81** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per filettatura Whitworth 55° a profilo completo

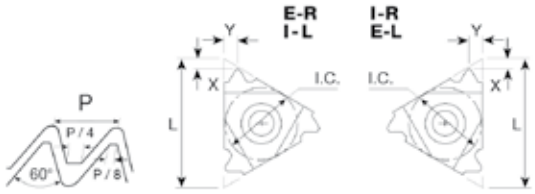





| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500464 | - | 16 IR 14 W TF125 | 14 | 16 | 3/8 | 1 | 1,2 | 10 | **22,81** |
| TA1999080500463 | - | 16 IR 12 W TF125 | 12 | 16 | 3/8 | 1,1 | 1,4 | 10 | **22,81** |
| TA1999080500462 | - | 16 IR 11 W TF125 | 11 | 16 | 3/8 | 1,1 | 1,5 | 10 | **22,81** |
| TA1999080500461 | - | 16 IR 10 W TF125 | 10 | 16 | 3/8 | 1,1 | 1,5 | 10 | **22,81** |
| TA1999080500460 | - | 16 IR 9 W TF125 | 9 | 16 | 3/8 | 1,2 | 1,7 | 10 | **22,81** |
| TA1999080500459 | - | 16 IR 8 W TF125 | 8 | 16 | 3/8 | 1,2 | 1,5 | 10 | **22,81** |

## Inserto per filettatura Whitworth 55° tipo E a profilo completo di precisione rettificato, con rompitruciolo sinterizzato

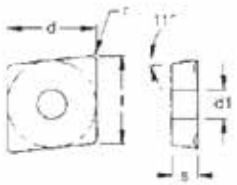





| Codice | Esterno | Interno | Passo mm. | L | I.C pollice | X | Y | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TA1999080500497 | 16 ER E 19 WHIT TF125 | - | 19 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500496 | 16 ER E 16 WHIT TF125 | - | 16 | 16 | 3/8 | 0,9 | 1,1 | 10 | **19,89** |
| TA1999080500495 | 16 ER E 14 WHIT TF125 | - | 14 | 16 | 3/8 | 1 | 1,2 | 10 | **19,89** |
| TA1999080500494 | 16 ER E 11 WHIT TF125 | - | 11 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |
| TA1999080500502 | - | 16 IR E 19 WHIT TF125 | 19 | 16 | 3/8 | 0,8 | 1 | 10 | **19,89** |
| TA1999080500501 | - | 16 IR E 16 WHIT TF125 | 16 | 16 | 3/8 | 0,9 | 1,1 | 10 | **19,89** |
| TA1999080500500 | - | 16 IR E 14 WHIT TF125 | 14 | 16 | 3/8 | 1 | 1,2 | 10 | **19,89** |
| TA1999080500499 | - | 16 IR E 11 WHIT TF125 | 11 | 16 | 3/8 | 1,1 | 1,5 | 10 | **19,89** |

## Inserto per foratura XPMT - SM

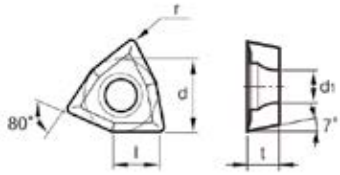





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| XPMT 042004 SM | TT130 | TA1999080500980 | 4,6 | 4,2 | 2,1 | 0,4 | 2,6 | 10 | **18,75** |
| XPMT 052804 SM | TT130 | TA1999080500981 | 5,5 | 5 | 2,9 | 0,4 | 2,9 | 10 | **20,31** |
| XPMT 063306 SM | TT130 | TA1999080500982 | 6,6 | 6 | 3,5 | 0,6 | 3,4 | 10 | **20,94** |
| XPMT 074006 SM | TT130 | TA1999080500983 | 8,3 | 7,5 | 4,2 | 0,6 | 3,9 | 10 | **21,88** |
| XPMT 094508 SM | TT130 | TA1999080500984 | 10,6 | 9,6 | 4,7 | 0,8 | 5,7 | 10 | **24,69** |
| XPMT 125812 SM | TT130 | TA1999080500985 | 13,6 | 12,4 | 6 | 1,2 | 7,5 | 10 | **25,31** |
| XPMT 156812 SM | TT130 | TA1999080500986 | 16,7 | 15,2 | 7 | 1,2 | 9,5 | 10 | **27,50** |

## Inserto per foratura WCKT - AL, 80°



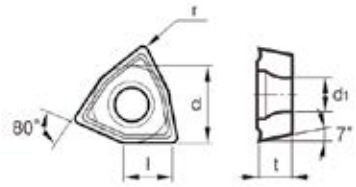



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WCKT 030208 AL | TT15 | TA1999080900428 | 3,8 | 5,56 | 2,38 | 0,8 | 2,8 | 10 | **17,75** |
| WCKT 040208 AL | TT15 | TA1999080900429 | 4,3 | 6,35 | 2,38 | 0,8 | 3 | 10 | **17,91** |
| WCKT 050308 AL | TT15 | TA1999080900430 | 5,4 | 7,94 | 3,18 | 0,8 | 3,4 | 10 | **18,84** |
| WCKT 06T308 AL | TT15 | TA1999080900431 | 6,5 | 9,525 | 3,97 | 0,8 | 4 | 10 | **29,26** |
| WCKT 080408 AL | TT15 | TA1999080900432 | 8,7 | 12,7 | 4,76 | 0,8 | 4,3 | 10 | **29,66** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per foratura WCMT - MM, 80°

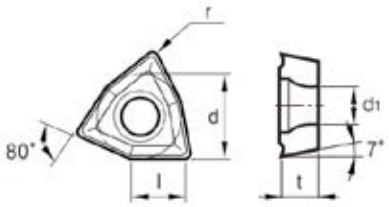





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WCMT 030208 MM | TT125 | TA1999080900433 | 3,8 | 5,56 | 2,38 | 0,8 | 2,8 | 10 | **11,15** |
| WCMT 030208 MM | TT320 | TA1999080900442 | 3,8 | 5,56 | 2,38 | 0,8 | 2,8 | 10 | **11,15** |
| WCMT 040208 MM | TT125 | TA1999080900434 | 4,3 | 6,35 | 2,38 | 0,8 | 3 | 10 | **11,25** |
| WCMT 040208 MM | TT320 | TA1999080900443 | 4,3 | 6,35 | 2,38 | 0,8 | 3 | 10 | **11,25** |
| WCMT 050308 MM | TT125 | TA1999080900435 | 5,4 | 7,94 | 3,18 | 0,8 | 3,4 | 10 | **11,97** |
| WCMT 050308 MM | TT130 | TA1999080900439 | 5,4 | 7,94 | 3,18 | 0,8 | 3,4 | 10 | **11,97** |
| WCMT 050308 MM | TT320 | TA1999080900444 | 5,4 | 7,94 | 3,18 | 0,8 | 3,4 | 10 | **11,97** |
| WCMT 06T308 MM | TT125 | TA1999080900436 | 6,5 | 9,525 | 3,97 | 0,8 | 4 | 10 | **12,96** |
| WCMT 06T308 MM | TT130 | TA1999080900440 | 6,5 | 9,525 | 3,97 | 0,8 | 4 | 10 | **12,96** |
| WCMT 06T308 MM | TT320 | TA1999080900445 | 6,5 | 9,525 | 3,97 | 0,8 | 4 | 10 | **12,96** |
| WCMT 080408 MM | TT125 | TA1999080900437 | 8,7 | 12,7 | 4,76 | 0,8 | 4,3 | 10 | **14,68** |
| WCMT 080408 MM | TT130 | TA1999080900441 | 8,7 | 12,7 | 4,76 | 0,8 | 4,3 | 10 | **14,68** |
| WCMT 080408 MM | TT320 | TA1999080900446 | 8,7 | 12,7 | 4,76 | 0,8 | 4,3 | 10 | **14,68** |
| WCMT 080412 MM | TT125 | TA1999080900438 | 8,7 | 12,7 | 4,76 | 1,2 | 4,3 | 10 | **14,68** |

## Inserto per foratura WCMT - MF, 80°

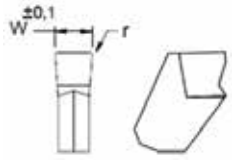





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WCMT 030204 MF | TT125 | TA1999080900452 | 3,8 | 5,56 | 2,38 | 0,4 | 2,5 | 10 | **11,15** |
| WCMT 030204 MF | TT130 | TA1999080900454 | 3,8 | 5,56 | 2,38 | 0,4 | 2,5 | 10 | **11,15** |
| WCMT 040204 MF | TT125 | TA1999080900453 | 4,3 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **11,25** |
| WCMT 040204 MF | TT130 | TA1999080900455 | 4,3 | 6,35 | 2,38 | 0,4 | 2,8 | 10 | **11,25** |

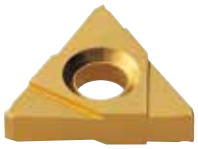
## Inserto per troncatura e scanalatura TTN

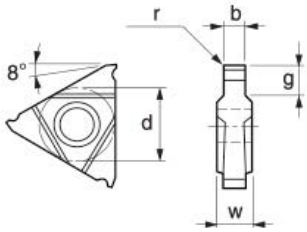





| Inserto | Qualità | Codice | w | r | | € / cad. |
|---|---|---|---|---|---|---|
| TTN 2 | TT130 | TA1999080900800 | 2,21 | 0,2 | 10 | **9,42** |
| TTN 3 | TT130 | TA1999080900694 | 3,01 | 0,2 | 10 | **9,87** |
| TTN 3 | TT525 | TA1999080900693 | 3,01 | 0,2 | 10 | **12,04** |
| TTN 4 | TT130 | TA1999080900696 | 4,01 | 0,24 | 10 | **11,80** |
| TTN 4 | TT525 | TA1999080900695 | 4,01 | 0,24 | 10 | **14,43** |
| TTN 5 | TT130 | TA1999080900799 | 5,01 | 0,28 | 10 | **12,70** |

## Inserto per fresatura e scanalatura di canalini 154.3-16 per anelli seeger



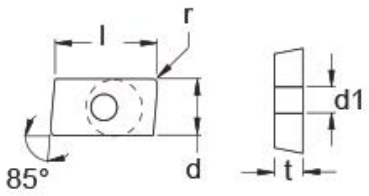



| Inserto | Qualità | Codice | b | g | w | d | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| 154.3-16 110 | TF125 | TA1999080900606 | 1,23 | 1,5 | 2,5 | 9,525 | 10 | **17,88** |
| 154.3-16 130 | TF125 | TA1999080900607 | 1,43 | 1,5 | 2,5 | 9,525 | 10 | **17,88** |
| 154.3-16 160 | TF125 | TA1999080900608 | 1,73 | 2 | 2,5 | 9,525 | 10 | **17,88** |
| 154.3-16 185 | TF125 | TA1999080900609 | 1,83 | 2 | 2,5 | 9,525 | 10 | **17,88** |
| 154.3-16 215 | TF125 | TA1999080900610 | 2,03 | 2,5 | 2,5 | 9,525 | 10 | **18,08** |
| 154.3-16 265 | TF125 | TA1999080900611 | 2,28 | 2,8 | 2,8 | 9,525 | 10 | **18,08** |
| 154.3-16 300 | TF125 | TA1999080900612 | 2,78 | 3,3 | 3,3 | 9,525 | 10 | **18,08** |
| 154.3-16 315 | TF125 | TA1999080900613 | 3,28 | 3,3 | 3,3 | 9,525 | 10 | **18,08** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura APKT - PDTR SS

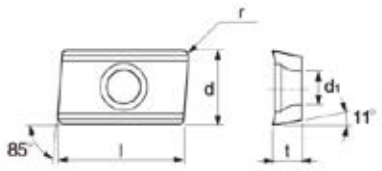





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APKT 060204 PDTR SS | TF140 | TA1999080900914 | 6 | 3,66 | 2,16 | 2,06 | 0,4 | 10 | **12,50** |

## Inserto per fresatura APHT - PDFR AL

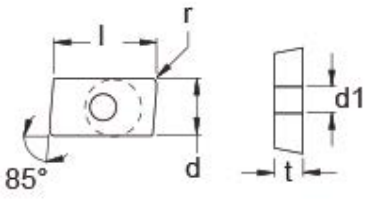





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APHT 1003 PDFR AL | TF10 | TA1999080900474 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,57** |
| APHT 1604 PDFR AL | TF10 | TA1999080900475 | 16,4 | 9,525 | 4,76 | 0,2 | 4,4 | 10 | **12,90** |

## Inserto per fresatura APKT - PDFR AL

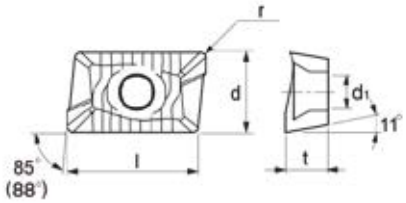





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APKT 100304 PDFR AL | TF10 | TA1999080900877 | 10,5 | 6,7 | 3,5 | 2,8 | 0,4 | 10 | **14,69** |
| APKT 160404 PDFR AL | TF10 | TA1999080900878 | 17 | 9,45 | 5,26 | 4,4 | 0,4 | 10 | **15,94** |
| APKT 160408 PDFR AL | TF10 | TA1999080900879 | 17 | 9,45 | 5,26 | 4,4 | 0,8 | 10 | **15,94** |

## Inserto per fresatura APKT - PDSR SM

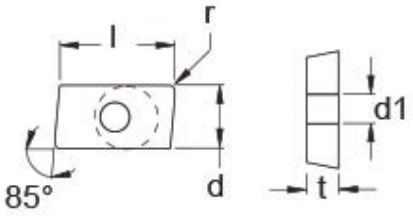





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APKT 1003 PDSR SM | TF125 | TA1999080900478 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1003 PDSR SM | TF140 | TA1999080900481 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1003 PDSR SM | TF235 | TA1999080900483 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1003 PDSR SM | TF305 | TA1999080900482 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1003 PDSR SM | TF525 | TA1999080900479 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1003 PDSR SM | TF420 | TA1999080900868 | 10,5 | 6,7 | 3,5 | 0,5 | 2,85 | 10 | **12,67** |
| APKT 1604 PDSR SM | TF125 | TA1999080900484 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |
| APKT 1604 PDSR SM | TF140 | TA1999080900487 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |
| APKT 1604 PDSR SM | TF235 | TA1999080900489 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |
| APKT 1604 PDSR SM | TF305 | TA1999080900488 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |
| APKT 1604 PDSR SM | TF525 | TA1999080900485 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |
| APKT 1604 PDSR SM | TF420 | TA1999080900867 | 16,4 | 9,525 | 4,76 | 0,8 | 4,4 | 10 | **14,09** |

## Inserto per fresatura APKT - PDER TX, specifico per acciai inox e superleghe



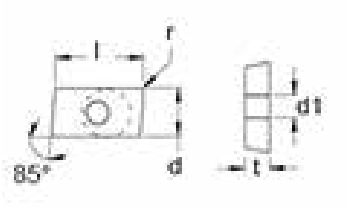



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APKT 1003 PDER TX | TF635 | TA1999080900930 | 10,5 | 6,7 | 3,5 | 0,8 | 2,8 | 10 | **13,00** |
| APKT 1604 PDER TX | TF635 | TA1999080900931 | 17 | 9,45 | 5,26 | 0,8 | 4,4 | 10 | **14,56** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura APKT - PDER SS

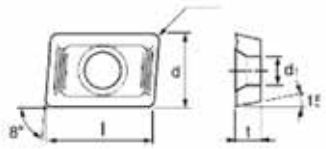





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APKT 1003 PDER SS | TF120 | TA1999080900497 | 10,5 | 6,7 | 3,5 | 0,4 | 2,8 | 10 | **8,75** |
| APKT 1003 PDER SS | TF130 | TA1999080900850 | 10,5 | 6,7 | 3,5 | 0,4 | 2,8 | 10 | **8,75** |
| APKT 1003 PDER SS | TF325 | TA1999080900852 | 10,5 | 6,7 | 3,5 | 0,4 | 2,8 | 10 | **8,75** |
| APKT 1003 PDER SS | TF525 | TA1999080900496 | 10,5 | 6,7 | 3,5 | 0,4 | 2,8 | 10 | **9,28** |
| APKT 1604 PDER SS | TF120 | TA1999080900499 | 17 | 9,45 | 5,26 | 0,8 | 4,4 | 10 | **8,75** |
| APKT 1604 PDER SS | TF130 | TA1999080900851 | 17 | 9,45 | 5,26 | 0,8 | 4,4 | 10 | **8,75** |
| APKT 1604 PDER SS | TF325 | TA1999080900498 | 17 | 9,45 | 5,26 | 0,8 | 4,4 | 10 | **9,81** |
| APKT 1604 PDER SS | TF525 | TA1999080900853 | 17 | 9,45 | 5,26 | 0,8 | 4,4 | 10 | **8,75** |

## Inserto per fresatura ADLT - SM

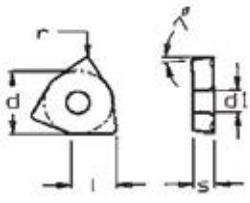





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| ADLT 150308 SM | TF140 | TA1999080900854 | 15 | 9,525 | 3,18 | 0,8 | 4,5 | 10 | **12,96** |
| ADLT 150308 SM | TF305 | TA1999080900856 | 15 | 9,525 | 3,18 | 0,8 | 4,5 | 10 | **12,96** |
| ADLT 150308 SM | TF525 | TA1999080900855 | 15 | 9,525 | 3,18 | 0,8 | 4,5 | 10 | **12,96** |

## Inserto per fresatura WNEU - MM






| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNEU 040308 MM | TF120 | TA1999080900951 | 4 | 6,7 | 3,3 | 0,8 | 3,2 | 10 | **22,50** |
| WNEU 040308 MM | TF130 | TA1999080900952 | 4 | 6,7 | 3,3 | 0,8 | 3,2 | 10 | **22,50** |
| WNEU 040308 MM | TF325 | TA1999080900953 | 4 | 6,7 | 3,3 | 0,8 | 3,2 | 10 | **22,50** |
| WNEU 080608 MM | TF120 | TA1999080900908 | 7,5 | 12,5 | 6,56 | 0,8 | 4,5 | 10 | **24,69** |

## Inserto per fresatura WNEU - MM

| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| WNEU 080608 MM | TF130 | TA1999080900909 | 7,5 | 12,5 | 6,56 | 0,8 | 4,5 | 10 | **24,69** |
| WNEU 080608 MM | TF325 | TA1999080900913 | 7,5 | 12,5 | 6,56 | 0,8 | 4,5 | 10 | **24,69** |

## Inserto per fresatura LNMX - SF

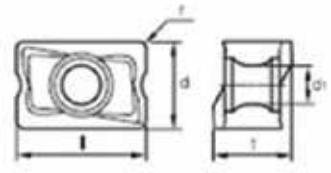




| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| LNMX 100605 PNR SF | TF130 | TA1999080900658 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **18,24** |
| LNMX 100605 PNR SF | TF235 | TA1999080900659 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **18,24** |
| LNMX 100605 PNR SF | TF525 | TA1999080900657 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **18,24** |
| LNMX 151008 PNR SF | TF235 | TA1999080900660 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |
| LNMX 151008 PNR SF | TF305 | TA1999080900661 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |

## Inserto per fresatura LNMX - SM



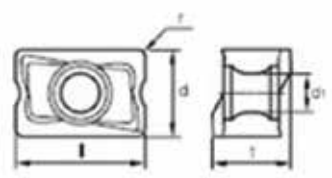


| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| LNMX 100605 PNR SM | TF130 | TA1999080900664 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **18,24** |
| LNMX 100605 PNR SM | TF140 | TA1999080900665 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **17,50** |
| LNMX 100605 PNR SM | TF235 | TA1999080900666 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **18,24** |
| LNMX 100605 PNR SM | TF305 | TA1999080900667 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **17,50** |
| LNMX 100605 PNR SM | TF525 | TA1999080900656 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **17,50** |
| LNMX 100608 PNR SM | TF130 | TA1999080900668 | 10 | 6,5 | 6,5 | 0,8 | 3,5 | 10 | **18,24** |
| LNMX 100608 PNR SM | TF140 | TA1999080900669 | 10 | 6,5 | 6,5 | 0,8 | 3,5 | 10 | **18,24** |
| LNMX 151008 PNR SM | TF130 | TA1999080900672 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |
| LNMX 151008 PNR SM | TF140 | TA1999080900673 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |
| LNMX 151008 PNR SM | TF235 | TA1999080900670 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |
| LNMX 151008 PNR SM | TF305 | TA1999080900671 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura LNMX - SM

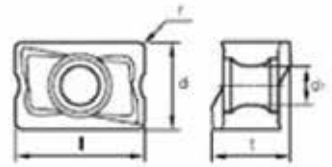





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| LNMX 151008 PNR SM | TF525 | TA1999080900857 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **22,27** |
| LNMX 151016 PNR SM | TF130 | TA1999080900674 | 15 | 10 | 10 | 1,6 | 4,5 | 10 | **22,27** |
| LNMX 151016 PNR SM | TF305 | TA1999080900675 | 15 | 10 | 10 | 1,6 | 4,5 | 10 | **22,27** |

## Inserto per fresatura LNEX - AL

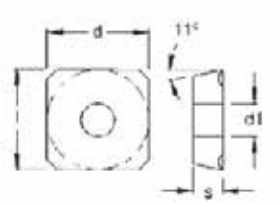





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| LNEX 100605 PNR AL | TF10 | TA1999080900676 | 10 | 6,5 | 6,5 | 0,5 | 3,5 | 10 | **17,81** |
| LNEX 151008 PNR AL | TF10 | TA1999080900678 | 15 | 10 | 10 | 0,8 | 4,5 | 10 | **20,98** |

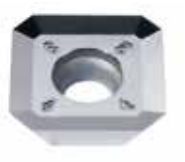
## Inserto per fresatura SPMT - SM

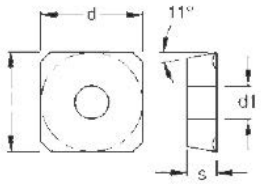





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SPMT 060304 SM | TF525 | TA1999080500987 | 6,35 | 6,35 | 3,18 | 2,8 | 0,4 | 10 | **10,63** |
| SPMT 09T308 SM | TF525 | TA1999080500988 | 9,52 | 9,52 | 3,97 | 4,5 | 0,8 | 10 | **13,44** |
| SPMT 120408 SM | TF525 | TA1999080500989 | 12,7 | 12,7 | 4,7 | 5,5 | 0,8 | 10 | **14,38** |

## Inserto per fresatura SPGT - AL

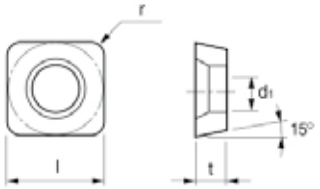





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SPGT 060304 AL | TF10 | TA1999080500990 | 6,35 | 6,35 | 3,18 | 2,8 | 0,4 | 10 | **20,31** |
| SPGT 09T308 AL | TF10 | TA1999080500991 | 9,52 | 9,52 | 3,97 | 4,5 | 0,8 | 10 | **21,88** |
| SPGT 120408 AL | TF10 | TA1999080500992 | 12,7 | 12,7 | 4,7 | 5,5 | 0,8 | 10 | **23,13** |

## Inserto per fresatura SDMT - SM

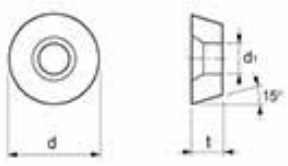





| Inserto | Qualità | Codice | l | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SDMT 120508 SM | TF125 | TA1999080900545 | 12,7 | 5 | 0,8 | 4,9 | 10 | **16,76** |
| SDMT 120508 SM | TF225 | TA1999080900546 | 12,7 | 5 | 0,8 | 4,9 | 10 | **16,76** |

## Inserto per fresatura RDHX - SM



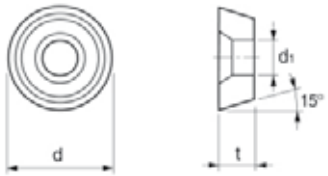



| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RDHX 0702 MO SM | TF125 | TA1999080900937 | 7 | 1,97 | 2,6 | 10 | **8,32** |
| RDHX 1003 MO SM | TF125 | TA1999080900938 | 10 | 3,18 | 3,9 | 10 | **13,00** |
| RDHX 12T3 MO SM | TF125 | TA1999080900939 | 12 | 3,97 | 3,9 | 10 | **15,47** |
| RDHX 1604 MO SM | TF125 | TA1999080900940 | 16 | 4,76 | 5,2 | 10 | **19,50** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura RDHX - MO AL

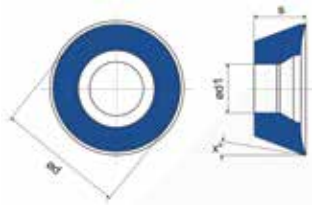





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RDHX 0501 MO AL | TF10 | TA1999080900925 | 5 | 1,5 | 2,1 | 10 | **8,13** |
| RDHX 0702 MO AL | TF10 | TA1999080900926 | 7 | 1,97 | 2,6 | 10 | **8,75** |
| RDHX 1003 MO AL | TF10 | TA1999080900542 | 10 | 3,18 | 3,9 | 10 | **12,83** |
| RDHX 12T3 MO AL | TF10 | TA1999080900543 | 12 | 3,97 | 3,9 | 10 | **14,22** |
| RDHX 1604 MO AL | TF10 | TA1999080900544 | 16 | 4,76 | 5,2 | 10 | **18,21** |

## Inserto per fresatura RPHX - MO TX

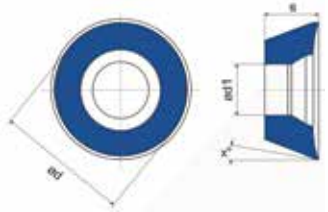




| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RPHX 1204 MO TX | TF635 | TA1999080900941 | 12 | 4,76 | 4,4 | 10 | **22,01** |
| RPHX 1204 MO TX | TF640 | TA1999080900942 | 12 | 4,76 | 4,4 | 10 | **22,01** |
| RPHX 1605 MO TX | TF635 | TA1999080900943 | 16 | 5,56 | 5,5 | 10 | **31,52** |
| RPHX 1605 MO TX | TF640 | TA1999080900944 | 16 | 5,56 | 5,5 | 10 | **31,52** |

## Inserto per fresatura RPMX - MO TH

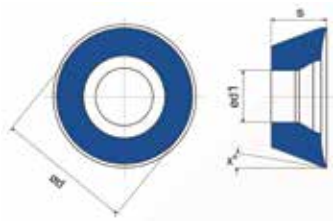




| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RPMX 1204 MO TH | TF135 | TA1999080900947 | 12 | 4,76 | 4,4 | 10 | **15,76** |

## Inserto per fresatura RPMX - MO TS

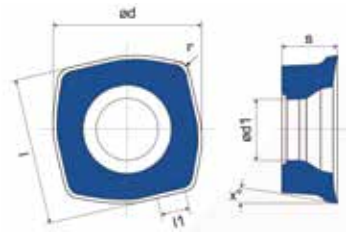




| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| RPMX 1204 MO TS | TF235 | TA1999080900948 | 12 | 4,76 | 4,4 | 10 | **15,76** |

## Inserto per fresatura XOLT - TX

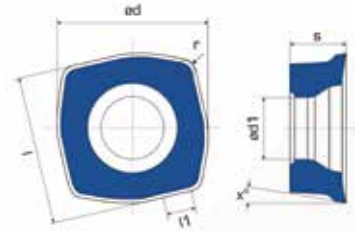




| Inserto | Qualità | Codice | Ød | s | l | r | Ød1 | l1 | x° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| XOLT 130410 ER TX | TF235 | TA1999080900950 | 13,1 | 4,76 | 13 | 1 | 5,5 | 3,9 | 9 | 10 | **15,57** |
| XOLT 130410 ER TX | TF635 | TA1999080900945 | 13,1 | 4,76 | 13 | 1 | 5,5 | 3,9 | 9 | 10 | **20,38** |
| XOLT 130410 ER TX | TF640 | TA1999080900946 | 13,1 | 4,76 | 13 | 1 | 5,5 | 3,9 | 9 | 10 | **20,38** |

## Inserto per fresatura XOLT - TH



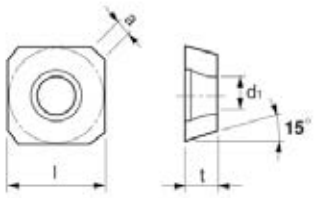


| Inserto | Qualità | Codice | Ød | s | l | r | Ød1 | l1 | x° | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| XOLT 130410 ER TH | TF135 | TA1999080900949 | 13,1 | 4,76 | 13 | 1 | 5,5 | 3,9 | 9 | 10 | **15,57** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura SDHT - AL

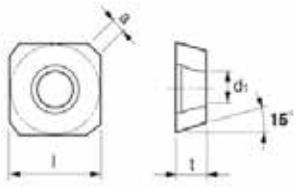





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SDHT 1204 AEFN AL | TF10 | TA1999080900580 | 12,7 | 4,76 | 5,65 | 10 | **19,23** |

## Inserto per fresatura SDHT - SM

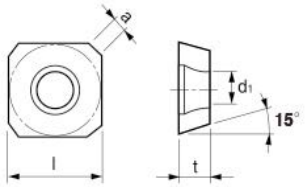





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SDHT 1204 AFSN AL | TF125 | TA1999080900578 | 12,7 | 4,76 | 5,65 | 10 | **20,29** |
| SDHT 1204 AEFN AL | TF525 | TA1999080900859 | 12,7 | 4,76 | 5,65 | 10 | **20,29** |

## Inserto per fresatura SEHT - AL

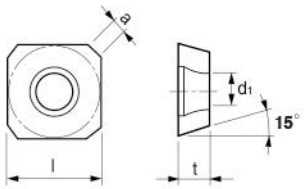





| Inserto | Qualità | Codice | d | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEHT 1204 AFFN AL | TF10 | TA1999080900564 | 12,7 | 4,76 | 5,65 | 10 | **14,91** |
| SEHT 13T3 AGFN AL | TF10 | TA1999080900565 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |

## Inserto per fresatura SEHT - SM

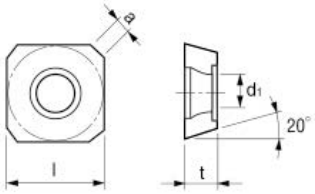





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEHT 1204 AFSN SM | TF125 | TA1999080900559 | 12,7 | 4,76 | 5,65 | 10 | **16,36** |
| SEHT 1204 AFSN SM | TF140 | TA1999080900562 | 12,7 | 4,76 | 5,65 | 10 | **16,36** |
| SEHT 1204 AFSN SM | TF230 | TA1999080900561 | 12,7 | 4,76 | 5,65 | 10 | **16,36** |
| SEHT 1204 AFSN SM | TF325 | TA1999080900563 | 12,7 | 4,76 | 5,65 | 10 | **16,36** |
| SEHT 1204 AFSN SM | TF525 | TA1999080900560 | 12,7 | 4,76 | 5,65 | 10 | **16,36** |

## Inserto per fresatura SEKT - SF

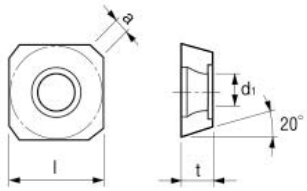





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEKT 13T3 AGSN SF | TF125 | TA1999080900566 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SF | TF140 | TA1999080900568 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |

## Inserto per fresatura SEKT - SM



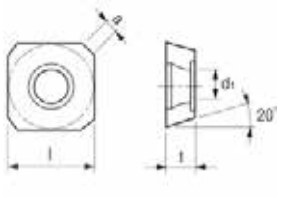



| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEKT 13T3 AGSN SM | TF125 | TA1999080900570 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SM | TF140 | TA1999080900573 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SM | TF230 | TA1999080900574 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SM | TF325 | TA1999080900869 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SM | TF525 | TA1999080900571 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura SEKT - SS

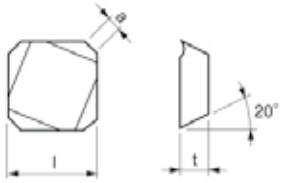





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEKT 13T3 AGSN SS | TF125 | TA1999080900575 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |
| SEKT 13T3 AGSN SS | TF140 | TA1999080900577 | 13,4 | 3,97 | 4,2 | 10 | **16,26** |

## Inserto per fresatura SEKN - AL

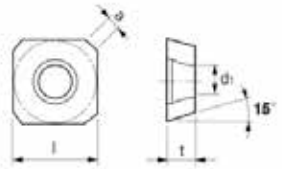





| Inserto | Qualità | Codice | l | d | t | | € / cad. |
|---|---|---|---|---|---|---|---|
| SEKN 1203 R AL | TF10 | TA1999080900558 | 12,7 | 12,7 | 3,18 | 10 | **16,76** |

## Inserto per fresatura SEKN

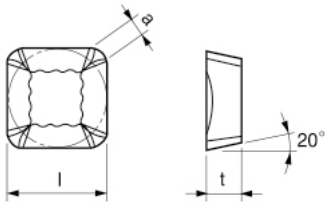





| Inserto | Qualità | Codice | l | t | | € / cad. |
|---|---|---|---|---|---|---|
| SEKN 1203 AFTN | TF125 | TA1999080900548 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF140 | TA1999080900551 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF230 | TA1999080900550 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF235 | TA1999080900553 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF305 | TA1999080900552 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF420 | TA1999080900860 | 12,7 | 3,18 | 10 | **15,93** |
| SEKN 1203 AFTN | TF525 | TA1999080900549 | 12,7 | 3,18 | 10 | **15,93** |

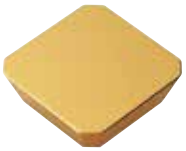
## Inserto per fresatura SEKR

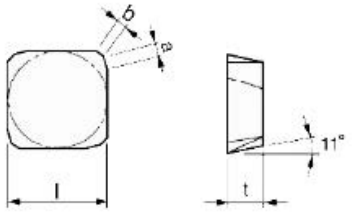





| Inserto | Qualità | Codice | l | t | | € / cad. |
|---|---|---|---|---|---|---|
| SEKR 1203 AFSN | TF125 | TA1999080900554 | 12,7 | 3,18 | 10 | **13,95** |
| SEKR 1203 AFSN | TF140 | TA1999080900557 | 12,7 | 3,18 | 10 | **13,95** |
| SEKR 1203 AFSN | TF230 | TA1999080900556 | 12,7 | 3,18 | 10 | **13,95** |
| SEKR 1203 AFSN | TF525 | TA1999080900555 | 12,7 | 3,18 | 10 | **13,95** |

## Inserto per fresatura SPKN

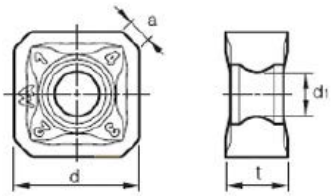





| Inserto | Qualità | Codice | l | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SPKN 1203 EDTR | TF140 | TA1999080900862 | 12,7 | 3,18 | 1,4 | 1 | 10 | **13,46** |
| SPKN 1203 EDTR | TF305 | TA1999080900863 | 12,7 | 3,18 | 1,4 | 1 | 10 | **13,46** |
| SPKN 1203 EDTR | TF525 | TA1999080900861 | 12,7 | 3,18 | 1,4 | 1 | 10 | **13,46** |

## Inserto per fresatura SNEX - AL



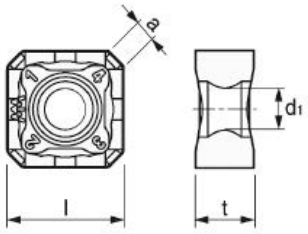



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SNEX 1206 ANN AL | TF10 | TA1999080900864 | 12,7 | 4,5 | 6,35 | 4,5 | 5,25 | 10 | **21,56** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura SNMX - SM

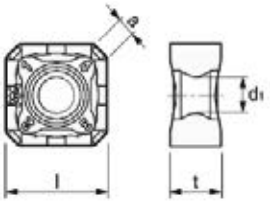





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SNMX 1206 ANN SM | TF125 | TA1999080900582 | 12,7 | 6,35 | 5,25 | 10 | **19,23** |
| SNMX 1206 ANN SM | TF140 | TA1999080900585 | 12,7 | 6,35 | 5,25 | 10 | **18,13** |
| SNMX 1206 ANN SM | TF230 | TA1999080900584 | 12,7 | 6,35 | 5,25 | 10 | **19,23** |
| SNMX 1206 ANN SM | TF235 | TA1999080900587 | 12,7 | 6,35 | 5,25 | 10 | **19,23** |
| SNMX 1206 ANN SM | TF305 | TA1999080900586 | 12,7 | 6,35 | 5,25 | 10 | **18,13** |
| SNMX 1206 ANN SM | TF525 | TA1999080900583 | 12,7 | 6,35 | 5,25 | 10 | **18,13** |

## Inserto per fresatura SNKX - SM

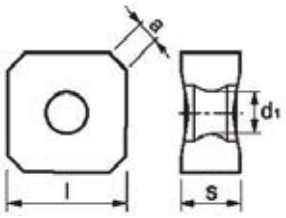





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SNKX 1206 ANN SM | TF140 | TA1999080900912 | 12,7 | 6,35 | 5,25 | 10 | **17,50** |

## Inserto per fresatura SNMU - SM

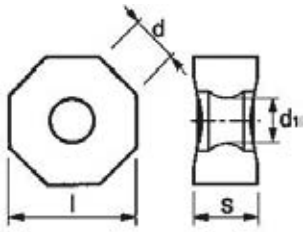





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| SNMU 1260 ANER SM | TF120 | TA1999080900928 | 12,7 | 6,35 | 5,25 | 10 | **19,38** |
| SNMU 1260 ANER SM | TF130 | TA1999080900927 | 12,7 | 6,35 | 5,25 | 10 | **19,38** |
| SNMU 1260 ANER SM | TF325 | TA1999080900929 | 12,7 | 6,35 | 5,25 | 10 | **19,38** |

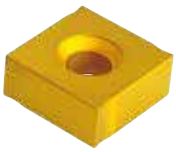
## Inserto per fresatura ONMU - SM

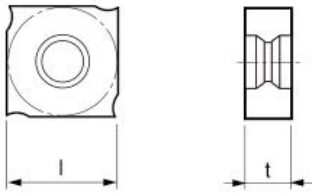





| Inserto | Qualità | Codice | l | t | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|
| ONMU 1205 ANN SM | TF120 | TA1999080900917 | 12,7 | 4,8 | 6 | 10 | **19,38** |
| ONMU 1205 ANN SM | TF130 | TA1999080900918 | 12,7 | 4,8 | 6 | 10 | **19,38** |
| ONMU 1205 ANN SM | TF325 | TA1999080900919 | 12,7 | 4,8 | 6 | 10 | **19,38** |

## Inserto per fresatura SNHX - SM



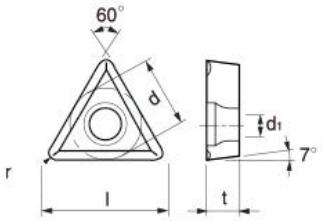



| Inserto | Qualità | Codice | l | t | | € / cad. |
|---|---|---|---|---|---|---|
| SNHX 1102 SM | TF125 | TA1999080900588 | 11 | 2,3 | 10 | **20,31** |
| SNHX 1102 SM | TF325 | TA1999080900592 | 11 | 2,3 | 10 | **21,88** |
| SNHX 1102 SM | TF10 | TA1999080900596 | 11 | 2,3 | 10 | **23,13** |
| SNHX 1103 SM | TF125 | TA1999080900589 | 11 | 2,7 | 10 | **20,31** |
| SNHX 1103 SM | TF325 | TA1999080900593 | 11 | 2,7 | 10 | **21,88** |
| SNHX 1103 SM | TF10 | TA1999080900597 | 11 | 2,7 | 10 | **24,06** |
| SNHX 1203 SM | TF125 | TA1999080900590 | 12 | 3,2 | 10 | **23,13** |
| SNHX 1203 SM | TF325 | TA1999080900594 | 12 | 3,2 | 10 | **21,88** |
| SNHX 1203 SM | TF10 | TA1999080900598 | 12 | 3,2 | 10 | **24,69** |
| SNHX 1205 SM | TF125 | TA1999080900591 | 12 | 5,4 | 10 | **21,88** |
| SNHX 1205 SM | TF325 | TA1999080900595 | 12 | 5,4 | 10 | **23,13** |
| SNHX 1205 SM | TF10 | TA1999080900599 | 12 | 5,4 | 10 | **25,31** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura TCGX - ZX

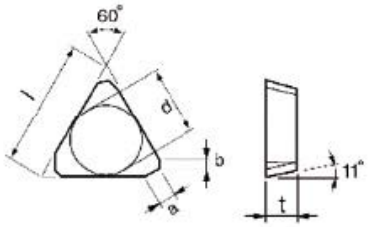





| Inserto | Qualità | Codice | l | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| TCGX 16T308 ZX | TF140 | TA1999080900601 | 16,5 | 3,97 | 0,8 | 4,4 | 10 | **22,33** |
| TCGX 16T308 ZX | TF525 | TA1999080900600 | 16,5 | 3,97 | 0,8 | 4,4 | 10 | **22,33** |

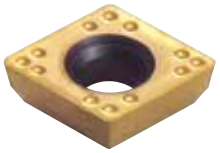
## Inserto per fresatura TPKN

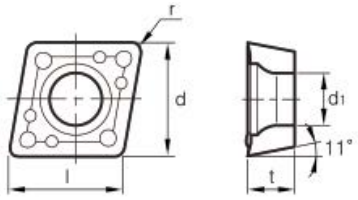





| Inserto | Qualità | Codice | l | d | t | | € / cad. |
|---|---|---|---|---|---|---|---|
| TPKN 1603 PDTR | TF140 | TA1999080900870 | 16,5 | 9,525 | 3,18 | 10 | **12,27** |
| TPKN 1603 PDTR | TF305 | TA1999080900871 | 16,5 | 9,525 | 3,18 | 10 | **12,27** |
| TPKN 1603 PDTR | TF525 | TA1999080900872 | 16,5 | 9,525 | 3,18 | 10 | **12,27** |
| TPKN 2204 PDTR | TF140 | TA1999080900873 | 22 | 12,7 | 4,76 | 10 | **17,55** |
| TPKN 2204 PDTR | TF305 | TA1999080900874 | 22 | 12,7 | 4,76 | 10 | **17,55** |
| TPKN 2204 PDTR | TF525 | TA1999080900875 | 22 | 12,7 | 4,76 | 10 | **17,55** |

## Inserto per fresatura CPMT - SM

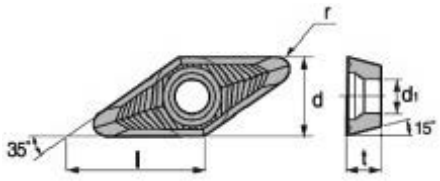





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| CPMT 05T104 SM | TF125 | TA1999080900616 | 5,6 | 5,56 | 1,97 | 0,4 | 2,5 | 10 | **15,94** |

## Inserto per fresatura VDKT - AL

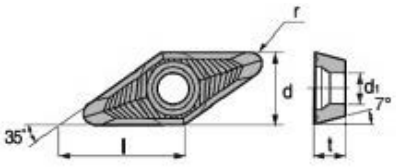





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| VDKT 11T210 AL | TF10 | TA1999080900865 | 8,8 | 6,35 | 2,87 | 1 | 2,8 | 10 | **19,96** |

## Inserto per fresatura VCKT - AL



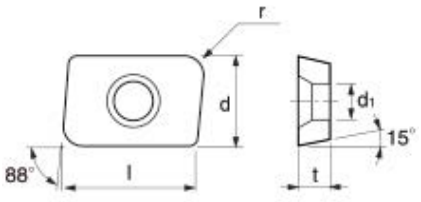



| Inserto | Qualità | Codice | l | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| VCKT 220530 AL | TF10 | TA1999080900866 | 20,1 | 5,56 | 3 | 5,6 | 10 | **28,87** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura ADLC

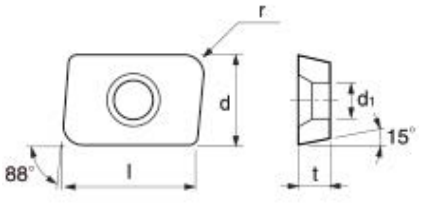





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| ADLC 1503 R 1,0 | TF20 | TA1999080900618 | 15 | 9,52 | 3,18 | 1 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 1,5 | TF20 | TA1999080900619 | 15 | 9,52 | 3,18 | 1,5 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 2,0 | TF20 | TA1999080900620 | 15 | 9,52 | 3,18 | 2 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 2,5 | TF20 | TA1999080900621 | 15 | 9,52 | 3,18 | 2,5 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 3,0 | TF20 | TA1999080900622 | 15 | 9,52 | 3,18 | 3 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 3,5 | TF20 | TA1999080900623 | 15 | 9,52 | 3,18 | 3,5 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 4,0 | TF20 | TA1999080900624 | 15 | 9,52 | 3,18 | 4 | 4,5 | 10 | **15,80** |
| ADLC 1503 R 5,0 | TF20 | TA1999080900625 | 15 | 9,52 | 3,18 | 5 | 4,5 | 10 | **15,80** |

## Inserto per fresatura ADLR

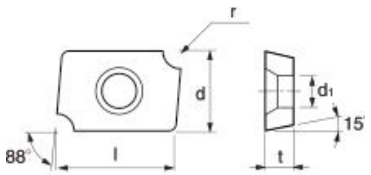





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| ADLR 1503 R 1,0 | TF20 | TA1999080900626 | 15 | 9,52 | 3,18 | 1 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 1,5 | TF20 | TA1999080900627 | 15 | 9,52 | 3,18 | 1,5 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 2,0 | TF20 | TA1999080900628 | 15 | 9,52 | 3,18 | 2 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 2,5 | TF20 | TA1999080900629 | 15 | 9,52 | 3,18 | 2,5 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 3,0 | TF20 | TA1999080900630 | 15 | 9,52 | 3,18 | 3 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 3,5 | TF20 | TA1999080900631 | 15 | 9,52 | 3,18 | 3,5 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 4,0 | TF20 | TA1999080900632 | 15 | 9,52 | 3,18 | 4 | 4,5 | 10 | **15,80** |
| ADLR 1503 R 5,0 | TF20 | TA1999080900633 | 15 | 9,52 | 3,18 | 5 | 4,5 | 10 | **15,80** |

## Inserto per fresatura APLC

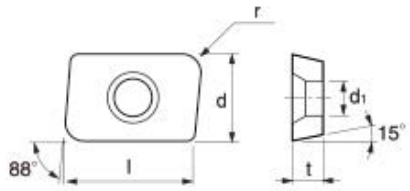





| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APLC 2004 R 5,5 | TF20 | TA1999080900635 | 20 | 12,7 | 4,76 | 5,5 | 5,5 | 10 | **28,07** |
| APLC 2004 R 6,0 | TF20 | TA1999080900636 | 20 | 12,7 | 4,76 | 6 | 5,5 | 10 | **28,07** |
| APLC 2004 R 6,5 | TF20 | TA1999080900637 | 20 | 12,7 | 4,76 | 6,5 | 5,5 | 10 | **28,07** |
| APLC 2004 R 7,0 | TF20 | TA1999080900638 | 20 | 12,7 | 4,76 | 7 | 5,5 | 10 | **28,07** |
| APLC 2004 R 7,5 | TF20 | TA1999080900639 | 20 | 12,7 | 4,76 | 7,5 | 5,5 | 10 | **28,07** |

## Inserto per fresatura APLR



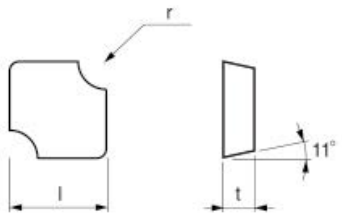



| Inserto | Qualità | Codice | l | d | t | r | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| APLR 2004 R 5,5 | TF20 | TA1999080900641 | 20 | 12,7 | 4,76 | 5,5 | 5,5 | 10 | **28,07** |
| APLR 2004 R 6,0 | TF20 | TA1999080900642 | 20 | 12,7 | 4,76 | 6 | 5,5 | 10 | **28,07** |
| APLR 2004 R 7,0 | TF20 | TA1999080900644 | 20 | 12,7 | 4,76 | 7 | 5,5 | 10 | **28,07** |
| APLR 2004 R 7,5 | TF20 | TA1999080900645 | 20 | 12,7 | 4,76 | 7,5 | 5,5 | 10 | **28,07** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**

## Inserto per fresatura SPUC

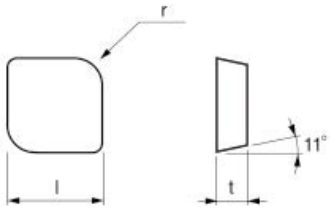





| Inserto | Qualità | Codice | l | d | t | r | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SPUC 1904 R 8,0 | TF20 | TA1999080900646 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |
| SPUC 1904 R 9,0 | TF20 | TA1999080900648 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |
| SPUC 1904 R 10,0 | TF20 | TA1999080900650 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |

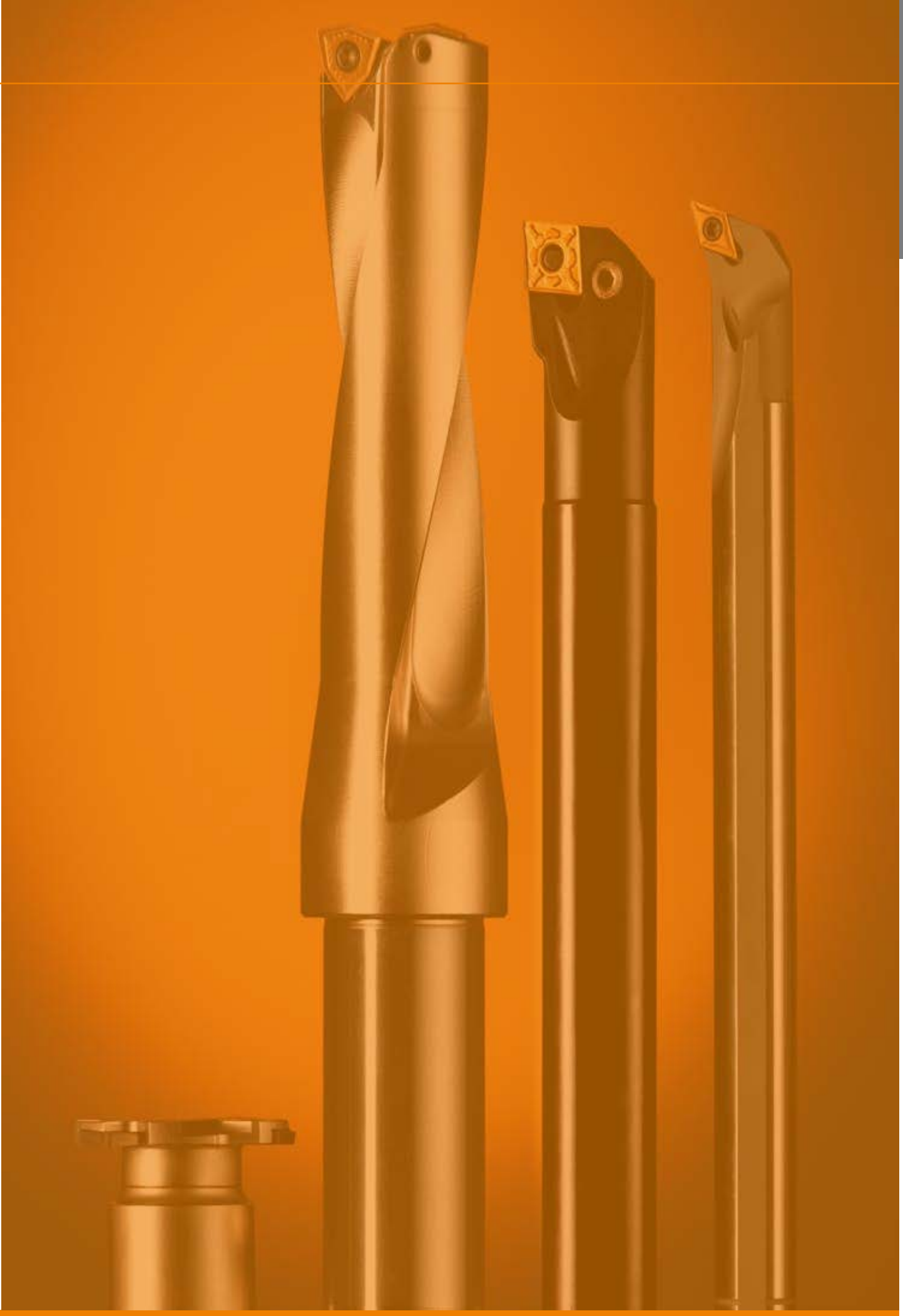
## Inserto per fresatura SPUR






| Inserto | Qualità | Codice | l | d | t | r | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SPUR 1904 R 8,0 | TF20 | TA1999080900651 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |
| SPUR 1904 R 9,0 | TF20 | TA1999080900653 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |
| SPUR 1904 R 10,0 | TF20 | TA1999080900655 | 19,1 | 19,1 | 4,76 | 8 | 10 | **32,63** |

**N.B: Parametri di lavorazione scaricabili su www.ttake.it**



# 3 ATTREZZATUREMACCHINEUTENSILI



Mandrini a cono ISO – DIN 69871  344-369

Mandrini BT – MAS 403  370-387

Mandrini a cono ISO – DIN 2080  387-391

Mandrini HSK – DIN 69893/A  392-407

Mandrini cilindrici e cono morse  408-419

Pinze e bussole di riduzione e di maschiatura  420-465

Ghiere e chiavi per ghiere  465-473

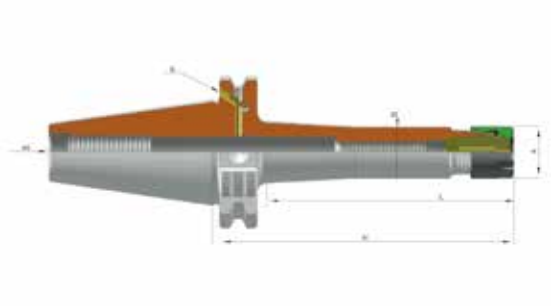
Codoli di aggancio  474-483

Accessori  484-489

Morse modulari  490-523

## Mandrino portapinze tipo slim, con ghiera mini, DIN 69871 ISO40, forma ad+b

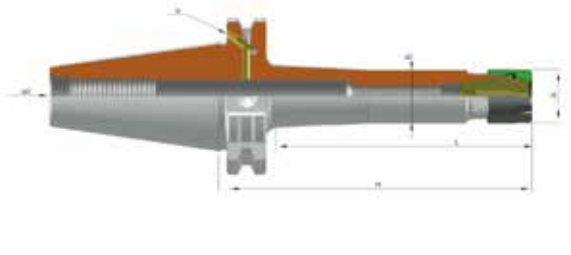




| Codice | Tipo | Capacità pinze | H | L | A | B | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA1111010100001 | TCB40 H130 ERX8M | 1 / 5 mm | 130 | 110,9 | 12 | 12 | 1 | **171,00** |
| MA1111010100002 | TCB40 H100 ERX11M | 1 / 7 mm | 100 | 80,9 | 16 | 16 | 1 | **138,00** |
| MA1111010100003 | TCB40 H125 ERX11M | 1 / 7 mm | 125 | 105,9 | 16 | 16 | 1 | **154,50** |
| MA1111010100004 | TCB40 H150 ERX11M | 1 / 7 mm | 150 | 130,9 | 16 | 16 | 1 | **171,00** |
| MA1111010100005 | TCB40 H70 ERX16M | 1 / 10 mm | 70 | 50,9 | 22 | 22 | 1 | **109,50** |
| MA1111010100006 | TCB40 H100 ERX16M | 1 / 10 mm | 100 | 80,9 | 22 | 22 | 1 | **120,00** |
| MA1111010100007 | TCB40 H125 ERX16M | 1 / 10 mm | 125 | 105,9 | 22 | 22 | 1 | **154,50** |
| MA1111010100008 | TCB40 H150 ERX16M | 1 / 10 mm | 150 | 130,9 | 22 | 22 | 1 | **166,50** |
| MA1111010100009 | TCB40 H100 ERX20M | 1 / 13 mm | 100 | 80,9 | 28 | 28 | 1 | **120,00** |
| MA1111010100010 | TCB40 H135 ERX20M | 1 / 13 mm | 135 | 115,9 | 28 | 28 | 1 | **154,50** |
| MA1111010100011 | TCB40 H150 ERX20M | 1 / 13 mm | 150 | 130,9 | 28 | 28 | 1 | **171,00** |
| MA1111010100012 | TCB40 H100 ERX25M | 1 / 16 mm | 100 | 80,9 | 35 | 30 | 1 | **120,00** |
| MA1111010100013 | TCB40 H150 ERX25M | 1 / 16 mm | 150 | 130,9 | 35 | 30 | 1 | **171,00** |
| MA1111010100014 | TCB40 H200 ERX25M | 1 / 16 mm | 200 | 180,9 | 35 | 30 | 1 | **258,00** |

## Mandrino portapinze tipo slim, con ghiera mini, DIN 69871 ISO50, forma ad+b

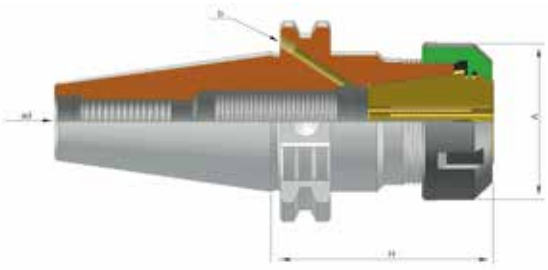




| Codice | Tipo | Capacità pinze | H | L | A | B | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA1111010100015 | TCB50 H130 ERX16M | 1 / 10 mm | 130 | 110,9 | 22 | 22 | 1 | **274,50** |
| MA1111010100016 | TCB50 H160 ERX16M | 1 / 10 mm | 160 | 140,9 | 22 | 22 | 1 | **343,50** |
| MA1111010100017 | TCB50 H130 ERX20M | 1 / 13 mm | 130 | 110,9 | 28 | 28 | 1 | **274,50** |
| MA1111010100018 | TCB50 H130 ERX25M | 1 / 16 mm | 130 | 110,9 | 35 | 35 | 1 | **274,50** |
| MA1111010100019 | TCB50 H160 ERX25M | 1 / 16 mm | 160 | 140,9 | 35 | 35 | 1 | **343,50** |

## Mandrino portapinze, con ghiera standard, DIN 69871 ISO40, forma ad+b

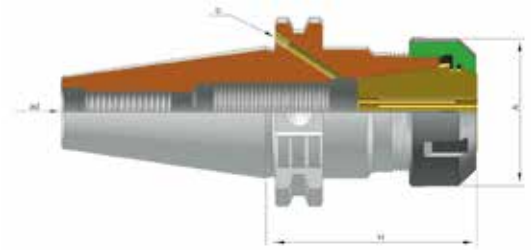




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100020 | TCB40 H70 ERX16 | 1 / 10 mm | 70 | 28 | 1 | **69,00** |
| MA1111010100021 | TCB40 H100 ERX16 | 1 / 10 mm | 100 | 28 | 1 | **85,50** |
| MA1111010100022 | TCB40 H120 ERX16 | 1 / 10 mm | 120 | 28 | 1 | **120,00** |
| MA1111010100023 | TCB40 H150 ERX16 | 1 / 10 mm | 150 | 28 | 1 | **154,50** |
| MA1111010100024 | TCB40 H200 ERX16 | 1 / 10 mm | 200 | 28 | 1 | **202,50** |
| MA1111010100025 | TCB40 H70 ERX20 | 1 / 13 mm | 70 | 34 | 1 | **69,00** |

## Mandrino portapinze, con ghiera standard, DIN 69871 ISO40, forma ad+b

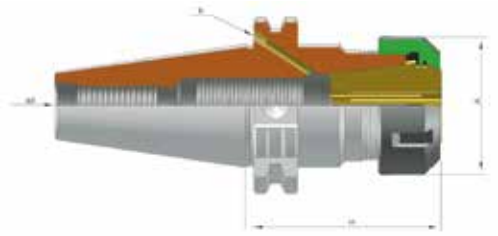




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100026 | TCB40 H100 ERX20 | 1 / 13 mm | 100 | 34 | 1 | **85,50** |
| MA1111010100027 | TCB40 H130 ERX20 | 1 / 13 mm | 130 | 34 | 1 | **120,00** |
| MA1111010100028 | TCB40 H160 ERX20 | 1 / 13 mm | 160 | 34 | 1 | **154,50** |
| MA1111010100029 | TCB40 H70 ERX25 | 1 / 16 mm | 70 | 42 | 1 | **69,00** |
| MA1111010100030 | TCB40 H100 ERX25 | 1 / 16 mm | 100 | 42 | 1 | **85,50** |
| MA1111010100031 | TCB40 H130 ERX25 | 1 / 16 mm | 130 | 42 | 1 | **120,00** |
| MA1111010100032 | TCB40 H160 ERX25 | 1 / 16 mm | 160 | 42 | 1 | **154,50** |
| MA1111010100033 | TCB40 H200 ERX25 | 1 / 16 mm | 200 | 42 | 1 | **205,50** |
| MA1111010100034 | TCB40 H47 ERX32 | 2 / 20 mm | 47 | 50 | 1 | **171,00** |
| MA1111010100035 | TCB40 H70 ERX32 | 2 / 20 mm | 70 | 50 | 1 | **63,00** |
| MA1111010100036 | TCB40 H100 ERX32 | 2 / 20 mm | 100 | 50 | 1 | **85,50** |
| MA1111010100037 | TCB40 H130 ERX32 | 2 / 20 mm | 130 | 50 | 1 | **120,00** |
| MA1111010100038 | TCB40 H160 ERX32 | 2 / 20 mm | 160 | 50 | 1 | **154,50** |
| MA1111010100039 | TCB40 H200 ERX32 | 2 / 20 mm | 200 | 50 | 1 | **205,50** |
| MA1111010100040 | TCB40 H70 ERX40 | 3 / 26 mm | 70 | 63 | 1 | **82,50** |
| MA1111010100041 | TCB40 H100 ERX40 | 3 / 26 mm | 100 | 63 | 1 | **97,50** |
| MA1111010100042 | TCB40 H130 ERX40 | 3 / 26 mm | 130 | 63 | 1 | **130,50** |
| MA1111010100043 | TCB40 H160 ERX40 | 3 / 26 mm | 160 | 63 | 1 | **163,50** |
| MA1111010100044 | TCB40 H200 ERX40 | 3 / 26 mm | 200 | 63 | 1 | **223,50** |

## Mandrino portapinze, con ghiera standard, DIN 69871 ISO50, forma ad+b





| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100045 | TCB50 H100 ERX16 | 1 / 10 mm | 100 | 28 | 1 | **189,00** |
| MA1111010100046 | TCB50 H160 ERX16 | 1 / 10 mm | 160 | 28 | 1 | **240,00** |
| MA1111010100047 | TCB50 H200 ERX16 | 1 / 10 mm | 200 | 28 | 1 | **292,50** |
| MA1111010100048 | TCB50 H100 ERX20 | 1 / 13 mm | 100 | 34 | 1 | **189,00** |
| MA1111010100049 | TCB50 H160 ERX20 | 1 / 13 mm | 160 | 34 | 1 | **240,00** |
| MA1111010100050 | TCB50 H80 ERX25 | 1 / 16 mm | 80 | 42 | 1 | **138,00** |
| MA1111010100051 | TCB50 H100 ERX25 | 1 / 16 mm | 100 | 42 | 1 | **171,00** |
| MA1111010100052 | TCB50 H130 ERX25 | 1 / 16 mm | 130 | 42 | 1 | **192,00** |
| MA1111010100053 | TCB50 H160 ERX25 | 1 / 16 mm | 160 | 42 | 1 | **246,00** |
| MA1111010100054 | TCB50 H200 ERX25 | 1 / 16 mm | 200 | 42 | 1 | **292,50** |
| MA1111010100055 | TCB50 H80 ERX32 | 2 / 20 mm | 80 | 50 | 1 | **138,00** |
| MA1111010100056 | TCB50 H100 ERX32 | 2 / 20 mm | 100 | 50 | 1 | **171,00** |
| MA1111010100057 | TCB50 H130 ERX32 | 2 / 20 mm | 130 | 50 | 1 | **195,00** |
| MA1111010100058 | TCB50 H160 ERX32 | 2 / 20 mm | 160 | 50 | 1 | **240,00** |
| MA1111010100059 | TCB50 H200 ERX32 | 2 / 20 mm | 200 | 50 | 1 | **292,50** |
| MA1111010100060 | TCB50 H250 ERX32 | 2 / 20 mm | 250 | 50 | 1 | **394,50** |
| MA1111010100061 | TCB50 H80 ERX40 | 3 / 26 mm | 80 | 63 | 1 | **162,00** |
| MA1111010100062 | TCB50 H100 ERX40 | 3 / 26 mm | 100 | 63 | 1 | **189,00** |
| MA1111010100063 | TCB50 H130 ERX40 | 3 / 26 mm | 130 | 63 | 1 | **205,50** |
| MA1111010100064 | TCB50 H160 ERX40 | 3 / 26 mm | 160 | 63 | 1 | **258,00** |
| MA1111010100065 | TCB50 H200 ERX40 | 3 / 26 mm | 200 | 63 | 1 | **309,00** |

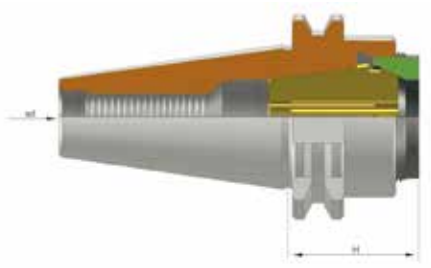
## Kit mandrino DIN69871 ERX32/40 H70, ISO40, ad+b



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA1111010100068 | TCB40 H70 ERX32 | Kit composto da: un mandrino DIN 69871 ERX32 H70, una serie di 18 pinze ERX32 standard da D.3 a D.20 progressione 1,0 mm. e una chiave per ghiere standard ERX32 | 1 | **360,00** |
| MA1111010100069 | TCB40 H70 ERX40 | Kit composto da: un mandrino DIN 69871 ERX40 H70, una serie di 23 pinze ERX40 standard da D.4 a D.26 progressione 1,0 mm. e una chiave per ghiere standard ERX40 | 1 | **577,50** |

## Mandrino portapinze, ghiera con filetto esterno, DIN 69871 ISO40/ISO50, forma ad

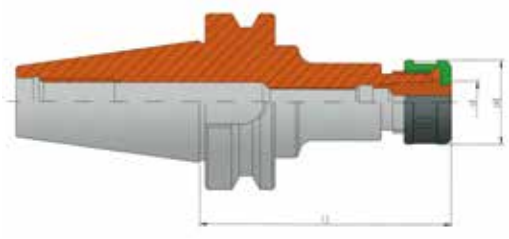




| Codice | Tipo | Capacità pinze | H | | € / cad. |
|---|---|---|---|---|---|
| MA1111010100066 | TC40 H21 ERX32 | 2 / 20 mm | 21 | 1 | **171,00** |
| MA1111010100067 | TC50 H21 ERX32 | 2 / 20 mm | 21 | 1 | **274,50** |

## Mandrino portapinze ad alta precisione, con ghiera bilanciata per alte velocità, DIN 69871 ISO40/ISO50, forma ad





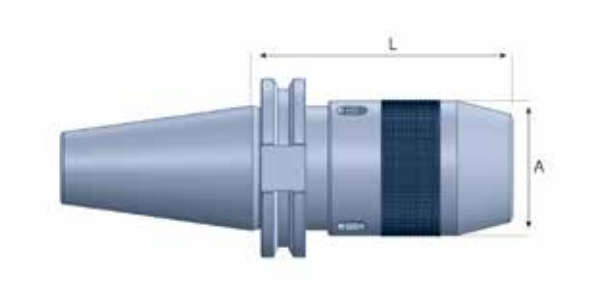
| Codice | Tipo | Capacità pinze | l1 | d1 | H | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100471 | TC40 H90 HS10 | 1 / 10 mm | 90 | 30 | 52 | 1 | **292,50** |
| MA1111010100472 | TC40 H120 HS10 | 1 / 10 mm | 120 | 30 | 82 | 1 | **315,00** |
| MA1111010100443 | TC40 H90 HS20 | 3 / 20 mm | 90 | 48,5 | | 1 | **292,50** |
| MA1111010100473 | TC40 H120 HS20 | 3 / 20 mm | 120 | 48,5 | 100 | 1 | **324,00** |
| MA1111010100474 | TC50 H105 HS10 | 1 / 10 mm | 105 | 30 | 70 | 1 | **463,50** |
| MA1111010100475 | TC50 H165 HS10 | 1 / 10 mm | 165 | 30 | 130 | 1 | **549,00** |
| MA1111010100444 | TC50 H105 HS20 | 3 / 20 mm | 105 | 48,5 | | 1 | **463,50** |
| MA1111010100476 | TC50 H165 HS20 | 3 / 20 mm | 165 | 48,5 | 140 | 1 | **549,00** |

### Caratteristiche tecniche:

- Mandrino bilanciato G 2,5 a 25.000 rpm
- Runout garantito in 0,005 mm. con sporgenza utensile 4 x D
- Nuove pinze con maggiore forza di bloccaggio utensile
- Ghiera bilanciata per alte velocità, ad alta precisione
- Migliori prestazioni e maggiore durata degli utensili

## Mandrino portapunte integrale autoserrante con chiave esagonale, DIN 69871, ISO40/ISO50, forma ad

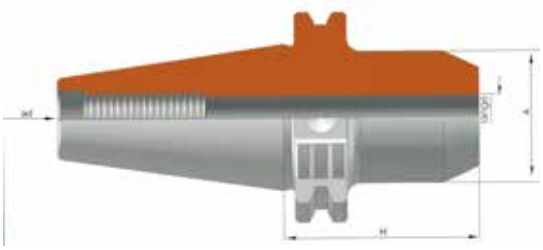





| Codice | Tipo | Capacità pinze | L | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100480 | TC40 H90 DK13 | 1 / 13 mm | 90 | 50 | 1 | **385,50** |
| MA1111010100481 | TC40 H95 DK16 | 3 / 16 mm | 95 | 58 | 1 | **417,00** |
| MA1111010100482 | TC50 H90 DK13 | 1 / 13 mm | 90 | 50 | 1 | **417,00** |
| MA1111010100483 | TC50 H95 DK16 | 3 / 16 mm | 95 | 58 | 1 | **448,50** |

## Mandrino portapinze integrale, DIN 69871 ISO40, forma ad

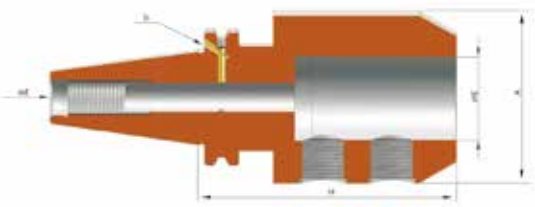




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100070 | TC40 H100 DCK13 | 1 / 13 mm | 100 | 50 | 1 | **229,50** |
| MA1111010100071 | TC40 H115 DCK16 | 3 / 16 mm | 115 | 58 | 1 | **241,50** |
| MA1111010100493 | TC50 H88 DCK13 | 1 / 13 mm | 88 | 50 | 1 | **300,00** |
| MA1111010100494 | TC50 H90 DCK16 | 3 / 16 mm | 90 | 58 | 1 | **312,00** |

## Mandrino per frese tipo weldon, DIN 69871 ISO40, forma ad+b

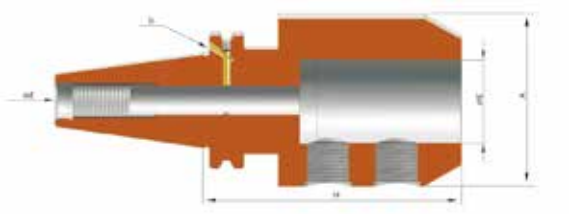




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100072 | TCB40 H50 WE6 | 50 | 6 | 25 | 1 | **66,00** |
| MA1111010100073 | TCB40 H100 WE6 | 100 | 6 | 25 | 1 | **88,50** |
| MA1111010100074 | TCB40 H130 WE6 | 130 | 6 | 25 | 1 | **120,00** |
| MA1111010100075 | TCB40 H160 WE6 | 160 | 6 | 25 | 1 | **157,50** |
| MA1111010100076 | TCB40 H200 WE6 | 200 | 6 | 25 | 1 | **240,00** |
| MA1111010100077 | TCB40 H50 WE8 | 50 | 8 | 28 | 1 | **66,00** |
| MA1111010100078 | TCB40 H100 WE8 | 100 | 8 | 28 | 1 | **81,00** |
| MA1111010100079 | TCB40 H130 WE8 | 130 | 8 | 28 | 1 | **120,00** |
| MA1111010100080 | TCB40 H160 WE8 | 160 | 8 | 28 | 1 | **144,00** |
| MA1111010100081 | TCB40 H200 WE8 | 200 | 8 | 28 | 1 | **240,00** |
| MA1111010100082 | TCB40 H50 WE10 | 50 | 10 | 35 | 1 | **66,00** |
| MA1111010100083 | TCB40 H100 WE10 | 100 | 10 | 35 | 1 | **81,00** |
| MA1111010100084 | TCB40 H130 WE10 | 130 | 10 | 35 | 1 | **120,00** |
| MA1111010100085 | TCB40 H160 WE10 | 160 | 10 | 35 | 1 | **144,00** |
| MA1111010100086 | TCB40 H200 WE10 | 200 | 10 | 35 | 1 | **240,00** |
| MA1111010100087 | TCB40 H50 WE12 | 50 | 12 | 42 | 1 | **66,00** |
| MA1111010100088 | TCB40 H100 WE12 | 100 | 12 | 42 | 1 | **81,00** |
| MA1111010100089 | TCB40 H130 WE12 | 130 | 12 | 42 | 1 | **120,00** |
| MA1111010100090 | TCB40 H160 WE12 | 160 | 12 | 42 | 1 | **144,00** |
| MA1111010100091 | TCB40 H200 WE12 | 200 | 12 | 42 | 1 | **240,00** |
| MA1111010100092 | TCB40 H50 WE14 | 50 | 14 | 44 | 1 | **66,00** |
| MA1111010100093 | TCB40 H100 WE14 | 100 | 14 | 44 | 1 | **81,00** |
| MA1111010100094 | TCB40 H130 WE14 | 130 | 14 | 44 | 1 | **120,00** |
| MA1111010100095 | TCB40 H160 WE14 | 160 | 14 | 44 | 1 | **144,00** |
| MA1111010100096 | TCB40 H200 WE14 | 200 | 14 | 44 | 1 | **240,00** |
| MA1111010100097 | TCB40 H63 WE16 | 63 | 16 | 48 | 1 | **66,00** |
| MA1111010100098 | TCB40 H100 WE16 | 100 | 16 | 48 | 1 | **81,00** |

## Mandrino per frese tipo weldon, DIN 69871 ISO40, forma ad+b

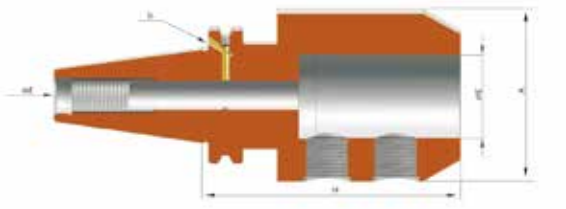




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100099 | TCB40 H130 WE16 | 130 | 16 | 48 | 1 | **120,00** |
| MA1111010100100 | TCB40 H160 WE16 | 160 | 16 | 48 | 1 | **144,00** |
| MA1111010100101 | TCB40 H200 WE16 | 200 | 16 | 48 | 1 | **240,00** |
| MA1111010100102 | TCB40 H63 WE18 | 63 | 18 | 50 | 1 | **66,00** |
| MA1111010100103 | TCB40 H100 WE18 | 100 | 18 | 50 | 1 | **81,00** |
| MA1111010100104 | TCB40 H130 WE18 | 130 | 18 | 50 | 1 | **120,00** |
| MA1111010100105 | TCB40 H160 WE18 | 160 | 18 | 50 | 1 | **144,00** |
| MA1111010100106 | TCB40 H200 WE18 | 200 | 18 | 50 | 1 | **240,00** |
| MA1111010100107 | TCB40 H63 WE20 | 63 | 20 | 52 | 1 | **66,00** |
| MA1111010100108 | TCB40 H100 WE20 | 100 | 20 | 52 | 1 | **81,00** |
| MA1111010100109 | TCB40 H130 WE20 | 130 | 20 | 52 | 1 | **120,00** |
| MA1111010100110 | TCB40 H160 WE20 | 160 | 20 | 52 | 1 | **144,00** |
| MA1111010100111 | TCB40 H200 WE20 | 200 | 20 | 52 | 1 | **240,00** |
| MA1111010100112 | TCB40 H100 WE25 | 100 | 25 | 65 | 1 | **78,00** |
| MA1111010100113 | TCB40 H130 WE25 | 130 | 25 | 65 | 1 | **138,00** |
| MA1111010100114 | TCB40 H160 WE25 | 160 | 25 | 65 | 1 | **171,00** |
| MA1111010100115 | TCB40 H100 WE32 | 100 | 32 | 72 | 1 | **87,00** |
| MA1111010100116 | TCB40 H130 WE32 | 130 | 32 | 72 | 1 | **151,50** |
| MA1111010100117 | TCB40 H160 WE32 | 160 | 32 | 72 | 1 | **186,00** |
| MA1111010100118 | TCB40 H120 WE40 | 120 | 40 | 80 | 1 | **126,00** |

## Mandrino per frese tipo weldon, DIN 69871 ISO50, forma ad+b

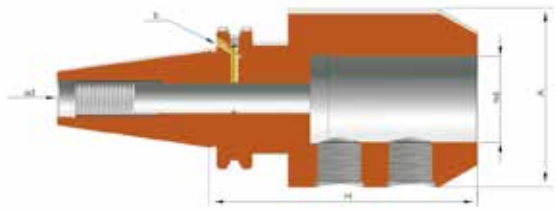




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100119 | TCB50 H63 WE 6 | 63 | 6 | 25 | 1 | **120,00** |
| MA1111010100120 | TCB50 H100 WE 6 | 100 | 6 | 25 | 1 | **141,00** |
| MA1111010100121 | TCB50 H130 WE 6 | 130 | 6 | 25 | 1 | **198,00** |
| MA1111010100122 | TCB50 H160 WE 6 | 160 | 6 | 25 | 1 | **232,50** |
| MA1111010100123 | TCB50 H200 WE 6 | 200 | 6 | 25 | 1 | **301,50** |
| MA1111010100124 | TCB50 H63 WE 8 | 63 | 8 | 28 | 1 | **109,50** |
| MA1111010100125 | TCB50 H100 WE 8 | 100 | 8 | 28 | 1 | **123,00** |
| MA1111010100126 | TCB50 H130 WE 8 | 130 | 8 | 28 | 1 | **189,00** |
| MA1111010100127 | TCB50 H160 WE 8 | 160 | 8 | 28 | 1 | **220,50** |
| MA1111010100128 | TCB50 H200 WE 8 | 200 | 8 | 28 | 1 | **288,00** |
| MA1111010100129 | TCB50 H63 WE10 | 63 | 10 | 35 | 1 | **109,50** |
| MA1111010100130 | TCB50 H100 WE10 | 100 | 10 | 35 | 1 | **123,00** |
| MA1111010100131 | TCB50 H130 WE10 | 130 | 10 | 35 | 1 | **189,00** |
| MA1111010100132 | TCB50 H160 WE10 | 160 | 10 | 35 | 1 | **220,50** |
| MA1111010100133 | TCB50 H200 WE10 | 200 | 10 | 35 | 1 | **288,00** |
| MA1111010100134 | TCB50 H63 WE12 | 63 | 12 | 42 | 1 | **109,50** |
| MA1111010100135 | TCB50 H100 WE12 | 100 | 12 | 42 | 1 | **123,00** |
| MA1111010100136 | TCB50 H130 WE12 | 130 | 12 | 42 | 1 | **189,00** |
| MA1111010100137 | TCB50 H160 WE12 | 160 | 12 | 42 | 1 | **220,50** |
| MA1111010100138 | TCB50 H200 WE12 | 200 | 12 | 42 | 1 | **288,00** |
| MA1111010100139 | TCB50 H63 WE14 | 63 | 14 | 44 | 1 | **109,50** |
| MA1111010100140 | TCB50 H100 WE14 | 100 | 14 | 44 | 1 | **123,00** |
| MA1111010100141 | TCB50 H130 WE14 | 130 | 14 | 44 | 1 | **189,00** |
| MA1111010100142 | TCB50 H160 WE14 | 160 | 14 | 44 | 1 | **220,50** |
| MA1111010100143 | TCB50 H200 WE14 | 200 | 14 | 44 | 1 | **288,00** |
| MA1111010100144 | TCB50 H63 WE16 | 63 | 16 | 48 | 1 | **109,50** |
| MA1111010100145 | TCB50 H100 WE16 | 100 | 16 | 48 | 1 | **123,00** |
| MA1111010100146 | TCB50 H130 WE16 | 130 | 16 | 48 | 1 | **189,00** |
| MA1111010100147 | TCB50 H160 WE16 | 160 | 16 | 48 | 1 | **220,50** |

## Mandrino per frese tipo weldon, DIN 69871 ISO50, forma ad+b

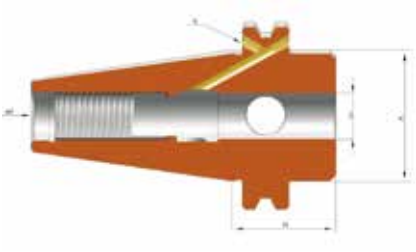




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100148 | TCB50 H200 WE16 | 200 | 16 | 48 | 1 | **288,00** |
| MA1111010100149 | TCB50 H63 WE18 | 63 | 18 | 50 | 1 | **109,50** |
| MA1111010100150 | TCB50 H100 WE18 | 100 | 18 | 50 | 1 | **123,00** |
| MA1111010100151 | TCB50 H130 WE18 | 130 | 18 | 50 | 1 | **189,00** |
| MA1111010100152 | TCB50 H160 WE18 | 160 | 18 | 50 | 1 | **220,50** |
| MA1111010100153 | TCB50 H200 WE18 | 200 | 18 | 50 | 1 | **288,00** |
| MA1111010100154 | TCB50 H63 WE20 | 63 | 20 | 52 | 1 | **109,50** |
| MA1111010100155 | TCB50 H100 WE20 | 100 | 20 | 52 | 1 | **123,00** |
| MA1111010100156 | TCB50 H130 WE20 | 130 | 20 | 52 | 1 | **189,00** |
| MA1111010100157 | TCB50 H160 WE20 | 160 | 20 | 52 | 1 | **220,50** |
| MA1111010100158 | TCB50 H200 WE20 | 200 | 20 | 52 | 1 | **288,00** |
| MA1111010100159 | TCB50 H250 WE20 | 250 | 20 | 52 | 1 | **468,00** |
| MA1111010100160 | TCB50 H80 WE25 | 80 | 25 | 65 | 1 | **120,00** |
| MA1111010100161 | TCB50 H100 WE25 | 100 | 25 | 65 | 1 | **138,00** |
| MA1111010100162 | TCB50 H130 WE25 | 130 | 25 | 65 | 1 | **205,50** |
| MA1111010100163 | TCB50 H160 WE25 | 160 | 25 | 65 | 1 | **240,00** |
| MA1111010100164 | TCB50 H200 WE25 | 200 | 25 | 65 | 1 | **309,00** |
| MA1111010100165 | TCB50 H250 WE25 | 250 | 25 | 65 | 1 | **484,50** |
| MA1111010100166 | TCB50 H100 WE32 | 100 | 32 | 72 | 1 | **138,00** |
| MA1111010100167 | TCB50 H130 WE32 | 130 | 32 | 72 | 1 | **223,50** |
| MA1111010100168 | TCB50 H160 WE32 | 160 | 32 | 72 | 1 | **258,00** |
| MA1111010100169 | TCB50 H200 WE32 | 200 | 32 | 72 | 1 | **325,50** |
| MA1111010100170 | TCB50 H250 WE32 | 250 | 32 | 72 | 1 | **498,00** |
| MA1111010100171 | TCB50 H112 WE40 | 112 | 40 | 80 | 1 | **154,50** |
| MA1111010100172 | TCB50 H130 WE40 | 130 | 40 | 80 | 1 | **234,00** |
| MA1111010100173 | TCB50 H160 WE40 | 160 | 40 | 80 | 1 | **258,00** |
| MA1111010100174 | TCB50 H200 WE40 | 200 | 40 | 80 | 1 | **366,00** |
| MA1111010100442 | TCB50 H130 WE50 | 130 | 50 | 90 | 1 | **258,00** |

## Mandrino extra corto per frese tipo weldon, DIN 69871 ISO40/ISO50, forma ad+b

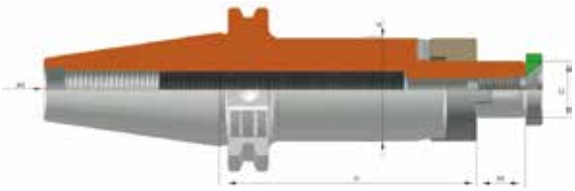




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100175 | TCB40 H35 WE16 | 35 | 16 | 44,4 | 1 | **85,50** |
| MA1111010100176 | TCB40 H35 WE20 | 35 | 20 | 44,4 | 1 | **85,50** |
| MA1111010100177 | TCB40 H35 WE25 | 35 | 25 | 44,4 | 1 | **85,50** |
| MA1111010100178 | TCB40 H60 WE25 | 60 | 25 | 50 | 1 | **94,50** |
| MA1111010100179 | TCB40 H70 WE32 | 70 | 32 | 72 | 1 | **103,50** |
| MA1111010100180 | TCB50 H35 WE16 | 35 | 16 | 70 | 1 | **154,50** |
| MA1111010100181 | TCB50 H35 WE20 | 35 | 20 | 70 | 1 | **154,50** |
| MA1111010100182 | TCB50 H35 WE25 | 35 | 25 | 70 | 1 | **154,50** |
| MA1111010100183 | TCB50 H35 WE32 | 35 | 32 | 70 | 1 | **154,50** |
| MA1111010100184 | TCB50 H35 WE40 | 35 | 40 | 80 | 1 | **154,50** |

## Mandrino portafrese combinato, DIN 69871 ISO40, forma ad





| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100185 | TC40 H55 D16C | 55 | 16 | 32 | 17 | 1 | **94,50** |
| MA1111010100186 | TC40 H100 D16C | 100 | 16 | 32 | 17 | 1 | **114,00** |
| MA1111010100187 | TC40 H130 D16C | 130 | 16 | 32 | 17 | 1 | **205,50** |
| MA1111010100188 | TC40 H160 D16C | 160 | 16 | 32 | 17 | 1 | **189,00** |
| MA1111010100189 | TC40 H200 D16C | 200 | 16 | 32 | 17 | 1 | **240,00** |
| MA1111010100190 | TC40 H55 D22C | 55 | 22 | 40 | 19 | 1 | **94,50** |
| MA1111010100191 | TC40 H100 D22C | 100 | 22 | 40 | 19 | 1 | **114,00** |
| MA1111010100192 | TC40 H130 D22C | 130 | 22 | 40 | 19 | 1 | **208,50** |
| MA1111010100193 | TC40 H160 D22C | 160 | 22 | 40 | 19 | 1 | **189,00** |
| MA1111010100194 | TC40 H200 D22C | 200 | 22 | 40 | 19 | 1 | **253,50** |
| MA1111010100195 | TC40 H55 D27C | 55 | 27 | 48 | 21 | 1 | **103,50** |
| MA1111010100196 | TC40 H100 D27C | 100 | 27 | 48 | 21 | 1 | **120,00** |
| MA1111010100197 | TC40 H130 D27C | 130 | 27 | 48 | 21 | 1 | **211,50** |
| MA1111010100198 | TC40 H160 D27C | 160 | 27 | 48 | 21 | 1 | **192,00** |
| MA1111010100199 | TC40 H200 D27C | 200 | 27 | 48 | 21 | 1 | **261,00** |
| MA1111010100200 | TC40 H60 D32C | 60 | 32 | 58 | 24 | 1 | **120,00** |
| MA1111010100201 | TC40 H100 D32C | 100 | 32 | 58 | 24 | 1 | **138,00** |
| MA1111010100202 | TC40 H130 D32C | 130 | 32 | 58 | 24 | 1 | **228,00** |
| MA1111010100203 | TC40 H160 D32C | 160 | 32 | 58 | 24 | 1 | **201,00** |
| MA1111010100204 | TC40 H200 D32C | 200 | 32 | 58 | 24 | 1 | **292,50** |
| MA1111010100205 | TC40 H60 D40C | 60 | 40 | 70 | 27 | 1 | **138,00** |
| MA1111010100206 | TC40 H100 D40C | 100 | 40 | 70 | 27 | 1 | **154,50** |
| MA1111010100207 | TC40 H130 D40C | 130 | 40 | 70 | 27 | 1 | **277,50** |
| MA1111010100208 | TC40 H160 D40C | 160 | 40 | 70 | 27 | 1 | **226,50** |
| MA1111010100209 | TC40 H200 D40C | 200 | 40 | 70 | 27 | 1 | **336,00** |

## Mandrino portafrese combinato, DIN 69871 ISO50, forma ad

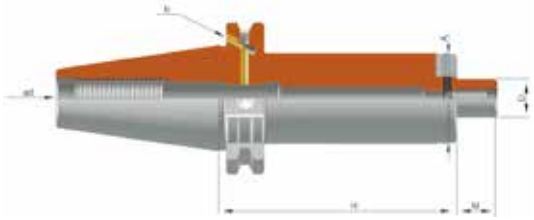




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100210 | TC50 H55 D16C | 55 | 16 | 32 | 17 | 1 | **131,10** |
| MA1111010100211 | TC50 H100 D16C | 100 | 16 | 32 | 17 | 1 | **149,63** |
| MA1111010100212 | TC50 H130 D16C | 130 | 16 | 32 | 17 | 1 | **245,10** |
| MA1111010100213 | TC50 H160 D16C | 160 | 16 | 32 | 17 | 1 | **228,00** |
| MA1111010100214 | TC50 H55 D22C | 55 | 22 | 40 | 19 | 1 | **131,10** |
| MA1111010100215 | TC50 H100 D22C | 100 | 22 | 40 | 19 | 1 | **149,63** |
| MA1111010100216 | TC50 H130 D22C | 130 | 22 | 40 | 19 | 1 | **245,10** |
| MA1111010100217 | TC50 H160 D22C | 160 | 22 | 40 | 19 | 1 | **228,00** |
| MA1111010100218 | TC50 H55 D27C | 55 | 27 | 48 | 21 | 1 | **131,10** |
| MA1111010100219 | TC50 H100 D27C | 100 | 27 | 48 | 21 | 1 | **149,63** |
| MA1111010100220 | TC50 H130 D27C | 130 | 27 | 48 | 21 | 1 | **262,20** |
| MA1111010100221 | TC50 H160 D27C | 160 | 27 | 48 | 21 | 1 | **228,00** |
| MA1111010100222 | TC50 H55 D32C | 55 | 32 | 58 | 24 | 1 | **136,80** |
| MA1111010100223 | TC50 H100 D32C | 100 | 32 | 58 | 24 | 1 | **155,33** |
| MA1111010100224 | TC50 H130 D32C | 130 | 32 | 58 | 24 | 1 | **277,88** |
| MA1111010100225 | TC50 H160 D32C | 160 | 32 | 58 | 24 | 1 | **233,70** |
| MA1111010100226 | TC50 H55 D40C | 55 | 40 | 70 | 27 | 1 | **149,63** |
| MA1111010100227 | TC50 H100 D40C | 100 | 40 | 70 | 27 | 1 | **179,55** |
| MA1111010100228 | TC50 H130 D40C | 130 | 40 | 70 | 27 | 1 | **309,23** |
| MA1111010100229 | TC50 H160 D40C | 160 | 40 | 70 | 27 | 1 | **253,65** |
| MA1111010100230 | TC50 H70 D50C | 70 | 50 | 90 | 30 | 1 | **304,50** |

## Mandrino portafrese fisso con passaggio refrigerante, DIN 69871 ISO40, forma ad+b

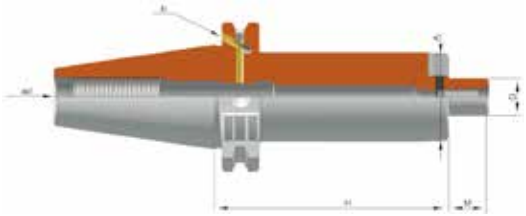




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100231 | TCB40 H50 D16S | 50 | 16 | 38 | 17 | 1 | **75,00** |
| MA1111010100232 | TCB40 H100 D16S | 100 | 16 | 38 | 17 | 1 | **114,00** |
| MA1111010100233 | TCB40 H130 D16S | 130 | 16 | 38 | 17 | 1 | **148,50** |
| MA1111010100234 | TCB40 H160 D16S | 160 | 16 | 38 | 17 | 1 | **178,50** |
| MA1111010100235 | TCB40 H200 D16S | 200 | 16 | 38 | 17 | 1 | **274,50** |
| MA1111010100236 | TCB40 H45 D22S | 45 | 22 | 48 | 19 | 1 | **81,00** |
| MA1111010100237 | TCB40 H100 D22S | 100 | 22 | 48 | 19 | 1 | **112,50** |
| MA1111010100238 | TCB40 H130 D22S | 130 | 22 | 48 | 19 | 1 | **144,00** |
| MA1111010100239 | TCB40 H160 D22S | 160 | 22 | 48 | 19 | 1 | **178,50** |
| MA1111010100240 | TCB40 H200 D22S | 200 | 22 | 48 | 19 | 1 | **274,50** |
| MA1111010100241 | TCB40 H50 D27S | 50 | 27 | 58 | 21 | 1 | **84,00** |
| MA1111010100242 | TCB40 H100 D27S | 100 | 27 | 58 | 21 | 1 | **123,00** |
| MA1111010100243 | TCB40 H130 D27S | 130 | 27 | 58 | 21 | 1 | **154,50** |
| MA1111010100244 | TCB40 H160 D27S | 160 | 27 | 58 | 21 | 1 | **189,00** |
| MA1111010100245 | TCB40 H200 D27S | 200 | 27 | 58 | 21 | 1 | **292,50** |
| MA1111010100246 | TCB40 H55 D32S | 55 | 32 | 78 | 24 | 1 | **114,00** |
| MA1111010100247 | TCB40 H100 D32S | 100 | 32 | 78 | 24 | 1 | **132,00** |
| MA1111010100248 | TCB40 H130 D32S | 130 | 32 | 78 | 24 | 1 | **165,00** |
| MA1111010100249 | TCB40 H160 D32S | 160 | 32 | 78 | 24 | 1 | **199,50** |
| MA1111010100250 | TCB40 H200 D32S | 200 | 32 | 78 | 24 | 1 | **297,00** |
| MA1111010100251 | TCB40 H60 D40S | 60 | 40 | 88 | 27 | 1 | **150,00** |
| MA1111010100252 | TCB40 H100 D40S | 100 | 40 | 88 | 27 | 1 | **180,00** |
| MA1111010100253 | TCB40 H130 D40S | 130 | 40 | 88 | 27 | 1 | **192,00** |
| MA1111010100254 | TCB40 H160 D40S | 160 | 40 | 88 | 27 | 1 | **219,00** |
| MA1111010100255 | TCB40 H200 D40S | 200 | 40 | 88 | 27 | 1 | **315,00** |

## Mandrino portafrese fisso con passaggio refrigerante, DIN 69871 ISO50, forma ad+b

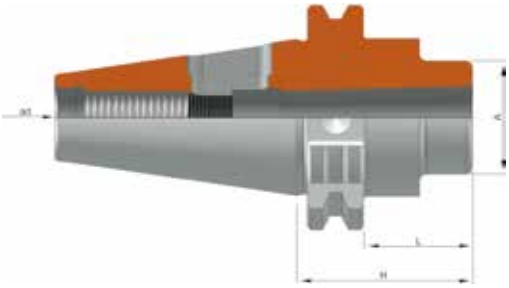




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100256 | TCB50 H45 D16S | 45 | 16 | 38 | 17 | 1 | **146,78** |
| MA1111010100257 | TCB50 H100 D16S | 100 | 16 | 38 | 17 | 1 | **171,00** |
| MA1111010100258 | TCB50 H130 D16S | 130 | 16 | 38 | 17 | 1 | **208,05** |
| MA1111010100259 | TCB50 H160 D16S | 160 | 16 | 38 | 17 | 1 | **245,10** |
| MA1111010100260 | TCB50 H200 D16S | 200 | 16 | 38 | 17 | 1 | **293,55** |
| MA1111010100261 | TCB50 H45 D22S | 45 | 22 | 48 | 19 | 1 | **146,78** |
| MA1111010100262 | TCB50 H100 D22S | 100 | 22 | 48 | 19 | 1 | **179,55** |
| MA1111010100263 | TCB50 H130 D22S | 130 | 22 | 48 | 19 | 1 | **212,33** |
| MA1111010100264 | TCB50 H160 D22S | 160 | 22 | 48 | 19 | 1 | **245,10** |
| MA1111010100265 | TCB50 H200 D22S | 200 | 22 | 48 | 19 | 1 | **299,25** |
| MA1111010100266 | TCB50 H45 D27S | 45 | 27 | 58 | 21 | 1 | **152,48** |
| MA1111010100267 | TCB50 H100 D27S | 100 | 27 | 58 | 21 | 1 | **185,25** |
| MA1111010100268 | TCB50 H130 D27S | 130 | 27 | 58 | 21 | 1 | **218,03** |
| MA1111010100269 | TCB50 H160 D27S | 160 | 27 | 58 | 21 | 1 | **253,65** |
| MA1111010100270 | TCB50 H200 D27S | 200 | 27 | 58 | 21 | 1 | **309,23** |
| MA1111010100271 | TCB50 H50 D32S | 50 | 32 | 78 | 24 | 1 | **162,45** |
| MA1111010100272 | TCB50 H100 D32S | 100 | 32 | 78 | 24 | 1 | **198,08** |
| MA1111010100273 | TCB50 H130 D32S | 130 | 32 | 78 | 24 | 1 | **233,70** |
| MA1111010100274 | TCB50 H160 D32S | 160 | 32 | 78 | 24 | 1 | **266,48** |
| MA1111010100275 | TCB50 H200 D32S | 200 | 32 | 78 | 24 | 1 | **322,05** |
| MA1111010100276 | TCB50 H50 D40S | 50 | 40 | 88 | 27 | 1 | **175,28** |
| MA1111010100277 | TCB50 H100 D40S | 100 | 40 | 88 | 27 | 1 | **212,33** |
| MA1111010100278 | TCB50 H130 D40S | 130 | 40 | 88 | 27 | 1 | **277,88** |
| MA1111010100279 | TCB50 H160 D40S | 160 | 40 | 88 | 27 | 1 | **326,33** |
| MA1111010100280 | TCB50 H200 D40S | 200 | 40 | 88 | 27 | 1 | **380,48** |

## Mandrino a cono morse per punte con tenone, DIN 69871 ISO40/ISO50, forma ad

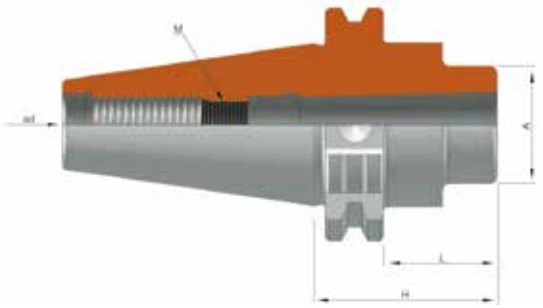




| Codice | Tipo | H | A | C.M. | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100302 | TC40 H50 CM1P | 25 | 50 | 31 | 1 | **70,50** |
| MA1111010100304 | TC40 H50 CM2P | 32 | 50 | 31 | 1 | **70,50** |
| MA1111010100305 | TC40 H117 CM2P | 32 | 117 | 101 | 1 | **117,00** |
| MA1111010100306 | TC40 H70 CM3P | 40 | 70 | 51 | 1 | **70,50** |
| MA1111010100307 | TC40 H133 CM3P | 40 | 133 | 116 | 1 | **117,00** |
| MA1111010100308 | TC40 H95 CM4P | 48 | 95 | 76 | 1 | **78,00** |
| MA1111010100309 | TC40 H156 CM4P | 48 | 156 | 146 | 1 | **130,50** |
| MA1111010100310 | TC50 H45 CM1P | 25 | 45 | 26 | 1 | **103,50** |
| MA1111010100311 | TC50 H120 CM1P | 25 | 120 | 101 | 1 | **192,00** |
| MA1111010100312 | TC50 H60 CM2P | 32 | 60 | 41 | 1 | **103,50** |
| MA1111010100313 | TC50 H135 CM2P | 32 | 135 | 116 | 1 | **240,00** |
| MA1111010100314 | TC50 H65 CM3P | 40 | 65 | 46 | 1 | **103,50** |
| MA1111010100315 | TC50 H155 CM3P | 40 | 155 | 136 | 1 | **240,00** |
| MA1111010100316 | TC50 H95 CM4P | 48 | 95 | 76 | 1 | **103,50** |
| MA1111010100317 | TC50 H180 CM4P | 48 | 180 | 161 | 1 | **265,50** |
| MA1111010100318 | TC50 H105 CM5P | 63 | 105 | 86 | 1 | **109,50** |
| MA1111010100319 | TC50 H215 CM5P | 63 | 215 | 196 | 1 | **297,00** |

## Mandrino a cono morse per frese con vite incorporata, DIN 69871 ISO40/ISO50, forma ad

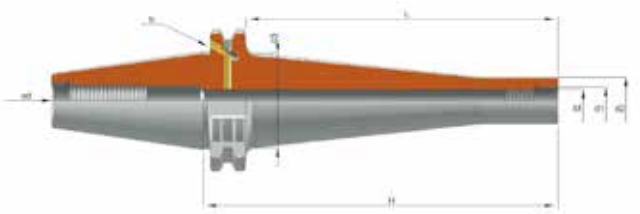




| Codice | Tipo | H | A | C.M. | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100320 | TC40 H50 CM1FV | 25 | 50 | 31 | 1 | **118,50** |
| MA1111010100322 | TC40 H50 CM2FV | 32 | 50 | 31 | 1 | **118,50** |
| MA1111010100326 | TC40 H70 CM3FV | 40 | 70 | 51 | 1 | **118,50** |
| MA1111010100328 | TC40 H95 CM4FV | 48 | 95 | 76 | 1 | **129,00** |
| MA1111010100330 | TC50 H45 CM1FV | 25 | 45 | 26 | 1 | **154,50** |
| MA1111010100331 | TC50 H60 CM2FV | 32 | 60 | 41 | 1 | **154,50** |
| MA1111010100333 | TC50 H65 CM3FV | 40 | 65 | 44 | 1 | **154,50** |
| MA1111010100337 | TC50 H85 CM4FV | 48 | 85 | 76 | 1 | **181,50** |
| MA1111010100340 | TC50 H118 CM5FV | 63 | 118 | 101 | 1 | **211,50** |

## Mandrino per frese con attacco filettato, DIN 69871 ISO40, forma ad+b

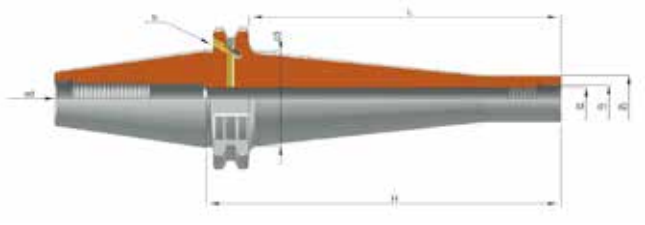




| Codice | Tipo | H | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA1111010100477 | TCB40 H44 M6CPY | 44 | 6,5 | 10 | 13 | 25 | M6 | 1 | **138,00** |
| MA1111010100478 | TCB40 H69 M6CPY | 69 | 6,5 | 10 | 20 | 50 | M6 | 1 | **154,50** |
| MA1111010100479 | TCB40 H94 M6CPY | 94 | 6,5 | 10 | 23 | 75 | M6 | 1 | **171,00** |
| MA1111010100281 | TCB40 H 55 M 8CPY | 55 | 8,5 | 13 | 15 | 36 | M8 | 1 | **154,50** |
| MA1111010100282 | TCB40 H 75 M 8CPY | 75 | 8,5 | 13 | 23 | 56 | M8 | 1 | **154,50** |
| MA1111010100283 | TCB40 H 95 M 8CPY | 95 | 8,5 | 13 | 23 | 76 | M8 | 1 | **171,00** |

## Mandrino per frese con attacco filettato, DIN 69871 ISO40, forma ad+b

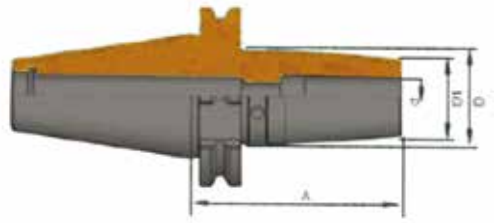




| Codice | Tipo | H | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA1111010100284 | TCB40 H115 M 8CPY | 115 | 8,5 | 13 | 25 | 96 | M8 | 1 | **189,00** |
| MA1111010100285 | TCB40 H 55 M10CPY | 55 | 10,5 | 18 | 20 | 36 | M10 | 1 | **154,50** |
| MA1111010100286 | TCB40 H 75 M10CPY | 75 | 10,5 | 18 | 25 | 56 | M10 | 1 | **154,50** |
| MA1111010100287 | TCB40 H 95 M10CPY | 95 | 10,5 | 18 | 28 | 76 | M10 | 1 | **171,00** |
| MA1111010100288 | TCB40 H115 M10CPY | 115 | 10,5 | 18 | 28 | 96 | M10 | 1 | **189,00** |
| MA1111010100290 | TCB40 H 55 M12CPY | 55 | 12,5 | 21 | 24 | 36 | M12 | 1 | **154,50** |
| MA1111010100291 | TCB40 H 75 M12CPY | 75 | 12,5 | 21 | 24 | 56 | M12 | 1 | **154,50** |
| MA1111010100292 | TCB40 H 95 M12CPY | 95 | 12,5 | 21 | 31 | 76 | M12 | 1 | **165,00** |
| MA1111010100293 | TCB40 H115 M12CPY | 115 | 12,5 | 21 | 31 | 96 | M12 | 1 | **189,00** |
| MA1111010100294 | TCB40 H145 M12CPY | 145 | 12,5 | 21 | 38 | 126 | M12 | 1 | **223,50** |
| MA1111010100295 | TCB40 H175 M12CPY | 175 | 12,5 | 21 | 42 | 156 | M12 | 1 | **292,50** |
| MA1111010100296 | TCB40 H 55 M16CPY | 55 | 17 | 29 | 34 | 36 | M16 | 1 | **154,50** |
| MA1111010100297 | TCB40 H 75 M16CPY | 75 | 17 | 29 | 34 | 56 | M16 | 1 | **154,50** |
| MA1111010100298 | TCB40 H 95 M16CPY | 95 | 17 | 29 | 34 | 76 | M16 | 1 | **171,00** |
| MA1111010100299 | TCB40 H115 M16CPY | 115 | 17 | 29 | 39 | 96 | M16 | 1 | **189,00** |
| MA1111010100300 | TCB40 H145 M16CPY | 145 | 17 | 29 | 39 | 126 | M16 | 1 | **223,50** |
| MA1111010100301 | TCB40 H175 M16CPY | 175 | 17 | 29 | 39 | 156 | M16 | 1 | **292,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, tipo Slim, DIN 69871 ISO40, forma ad+b

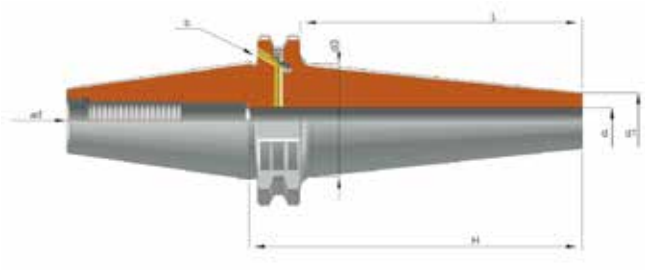





| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100445 | TCB40 H80 CAL03 SLIM | 80 | 9 | 13 | 52 | 1 | **258,00** |
| MA1111010100446 | TCB40 H120 CAL03 SLIM | 120 | 9 | 16 | 92 | 1 | **280,50** |
| MA1111010100447 | TCB40 H80 CAL04 SLIM | 80 | 10 | 15 | 52 | 1 | **258,00** |
| MA1111010100448 | TCB40 H120 CAL04 SLIM | 120 | 10 | 20 | 92 | 1 | **280,50** |
| MA1111010100449 | TCB40 H80 CAL05 SLIM | 80 | 11 | 16 | 52 | 1 | **258,00** |
| MA1111010100450 | TCB40 H120 CAL05 SLIM | 120 | 11 | 20 | 92 | 1 | **280,50** |
| MA1111010100451 | TCB40 H130 CAL06 SLIM | 120 | 12 | 19 | 110,9 | 1 | **243,00** |
| MA1111010100452 | TCB40 H160 CAL06 SLIM | 160 | 12 | 19 | 140,9 | 1 | **283,50** |
| MA1111010100453 | TCB40 H80 CAL08 SLIM | 80 | 14 | 19 | 60,9 | 1 | **178,50** |
| MA1111010100454 | TCB40 H130 CAL08 SLIM | 130 | 14 | 21 | 110,9 | 1 | **243,00** |
| MA1111010100455 | TCB40 H160 CAL08 SLIM | 160 | 14 | 21 | 140,9 | 1 | **283,50** |
| MA1111010100456 | TCB40 H80 CAL10 SLIM | 90 | 16 | 21 | 60,9 | 1 | **178,50** |
| MA1111010100457 | TCB40 H130 CAL10 SLIM | 130 | 16 | 23 | 110,9 | 1 | **243,00** |
| MA1111010100458 | TCB40 H160 CAL10 SLIM | 160 | 16 | 23 | 140,9 | 1 | **283,50** |
| MA1111010100459 | TCB40 H80 CAL12 SLIM | 80 | 18 | 23 | 60,9 | 1 | **178,50** |
| MA1111010100460 | TCB40 H130 CAL12 SLIM | 130 | 18 | 25 | 110,9 | 1 | **243,00** |
| MA1111010100461 | TCB40 H160 CAL12 SLIM | 160 | 18 | 25 | 140,9 | 1 | **283,50** |
| MA1111010100462 | TCB40 H80 CAL14 SLIM | 80 | 22 | 25 | 60,9 | 1 | **178,50** |
| MA1111010100463 | TCB40 H130 CAL14 SLIM | 130 | 22 | 27 | 110,9 | 1 | **243,00** |
| MA1111010100464 | TCB40 H160 CAL14 SLIM | 160 | 22 | 27 | 140,9 | 1 | **283,50** |
| MA1111010100465 | TCB40 H80 CAL16 SLIM | 80 | 24 | 29 | 60,9 | 1 | **178,50** |
| MA1111010100466 | TCB40 H130 CAL16 SLIM | 130 | 24 | 31 | 110,9 | 1 | **243,00** |
| MA1111010100467 | TCB40 H160 CAL16 SLIM | 160 | 24 | 31 | 140,9 | 1 | **283,50** |
| MA1111010100468 | TCB40 H80 CAL20 SLIM | 80 | 32 | 39 | 60,9 | 1 | **178,50** |
| MA1111010100469 | TCB40 H130 CAL20 SLIM | 130 | 32 | 39 | 110,9 | 1 | **243,00** |
| MA1111010100470 | TCB40 H160 CAL20 SLIM | 160 | 32 | 39 | 140,9 | 1 | **283,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, DIN 69871 ISO40, forma ad+b

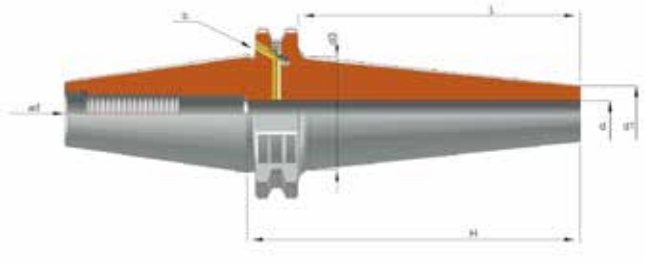




| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100341 | TCB40 H80 CAL3 | 80 | 10 | 20 | 3 | 1 | **246,00** |
| MA1111010100342 | TCB40 H120 CAL3 | 120 | 10 | 20 | 3 | 1 | **276,00** |
| MA1111010100343 | TCB40 H160 CAL3 | 160 | 10 | 20 | 3 | 1 | **315,00** |
| MA1111010100344 | TCB40 H80 CAL4 | 80 | 15 | 25 | 4 | 1 | **240,00** |
| MA1111010100345 | TCB40 H120 CAL4 | 120 | 15 | 22 | 4 | 1 | **276,00** |
| MA1111010100346 | TCB40 H160 CAL4 | 160 | 15 | 22 | 4 | 1 | **390,00** |
| MA1111010100347 | TCB40 H80 CAL5 | 80 | 15 | 25 | 5 | 1 | **240,00** |
| MA1111010100348 | TCB40 H120 CAL5 | 120 | 15 | 22 | 5 | 1 | **276,00** |
| MA1111010100349 | TCB40 H160 CAL5 | 160 | 15 | 27 | 5 | 1 | **309,00** |
| MA1111010100350 | TCB40 H80 CAL6 | 80 | 20 | 27 | 6 | 1 | **177,00** |
| MA1111010100351 | TCB40 H130 CL6 | 130 | 20 | 27 | 6 | 1 | **243,00** |
| MA1111010100352 | TCB40 H160 CAL6 | 160 | 20 | 27 | 6 | 1 | **285,00** |
| MA1111010100353 | TCB40 H80 CAL8 | 80 | 20 | 27 | 8 | 1 | **177,00** |
| MA1111010100354 | TCB40 H130 CAL8 | 130 | 20 | 27 | 8 | 1 | **243,00** |
| MA1111010100355 | TCB40 H160 CAL8 | 160 | 20 | 27 | 8 | 1 | **285,00** |
| MA1111010100356 | TCB40 H80 CAL10 | 80 | 24 | 31 | 10 | 1 | **178,50** |
| MA1111010100357 | TCB40 H130 CAL10 | 130 | 24 | 31 | 10 | 1 | **243,00** |
| MA1111010100358 | TCB40 H160 CAL10 | 160 | 24 | 31 | 10 | 1 | **283,50** |
| MA1111010100359 | TCB40 H80 CAL12 | 80 | 24 | 31 | 12 | 1 | **178,50** |
| MA1111010100360 | TCB40 H130 CAL12 | 130 | 24 | 31 | 12 | 1 | **243,00** |
| MA1111010100361 | TCB40 H160 CAL12 | 160 | 24 | 31 | 12 | 1 | **283,50** |
| MA1111010100362 | TCB40 H80 CAL14 | 80 | 27 | 34 | 14 | 1 | **178,50** |
| MA1111010100363 | TCB40 H130 CAL14 | 130 | 27 | 34 | 14 | 1 | **243,00** |
| MA1111010100364 | TCB40 H160 CAL14 | 160 | 27 | 34 | 14 | 1 | **283,50** |
| MA1111010100365 | TCB40 H80 CAL16 | 80 | 27 | 34 | 16 | 1 | **178,50** |
| MA1111010100366 | TCB40 H130 CAL16 | 130 | 27 | 34 | 16 | 1 | **243,00** |
| MA1111010100367 | TCB40 H160 CAL16 | 160 | 27 | 34 | 16 | 1 | **283,50** |
| MA1111010100368 | TCB40 H80 CAL18 | 80 | 33 | 40 | 18 | 1 | **178,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, DIN 69871 ISO40, forma ad+b

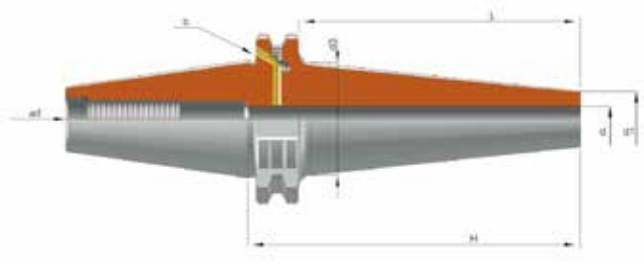




| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100369 | TCB40 H130 CAL18 | 130 | 33 | 40 | 18 | 1 | **243,00** |
| MA1111010100370 | TCB40 H160 CAL18 | 160 | 33 | 40 | 18 | 1 | **283,50** |
| MA1111010100371 | TCB40 H80 CAL20 | 80 | 33 | 40 | 20 | 1 | **178,50** |
| MA1111010100372 | TCB40 H130 CAL20 | 130 | 33 | 40 | 20 | 1 | **243,00** |
| MA1111010100373 | TCB40 H160 CAL20 | 160 | 33 | 40 | 20 | 1 | **283,50** |
| MA1111010100374 | TCB40 H100 CAL25 | 80 | 44 | 53 | 25 | 1 | **178,50** |
| MA1111010100375 | TCB40 H130 CAL25 | 130 | 44 | 53 | 25 | 1 | **243,00** |
| MA1111010100376 | TCB40 H160 CAL25 | 160 | 44 | 53 | 25 | 1 | **283,50** |
| MA1111010100377 | TCB40 H100 CAL32 | 80 | 44 | 53 | 32 | 1 | **178,50** |
| MA1111010100378 | TCB40 H130 CAL32 | 130 | 44 | 53 | 32 | 1 | **243,00** |
| MA1111010100379 | TCB40 H160 CAL32 | 160 | 44 | 53 | 32 | 1 | **283,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, DIN 69871 ISO50, forma ad+b

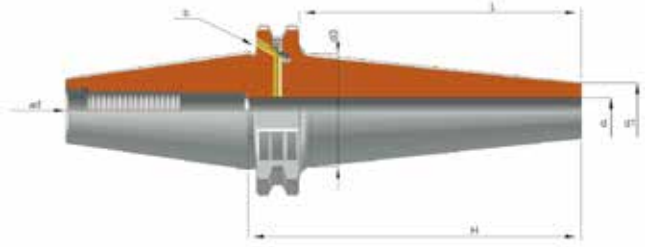




| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100380 | TCB50 H80 CAL3 | 80 | 10 | 20 | 3 | 1 | **412,50** |
| MA1111010100381 | TCB50 H120 CAL3 | 120 | 10 | 20 | 3 | 1 | **447,00** |
| MA1111010100382 | TCB50 H160 CAL3 | 160 | 10 | 20 | 3 | 1 | **498,00** |
| MA1111010100383 | TCB50 H80 CAL4 | 80 | 15 | 25 | 4 | 1 | **412,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, DIN 69871 ISO50, forma ad+b





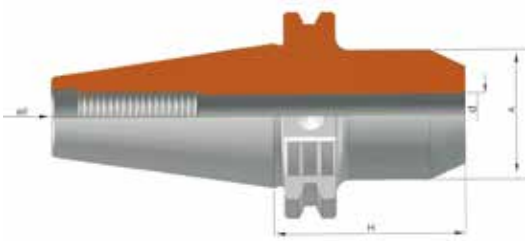
| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100384 | TCB50 H120 CAL4 | 120 | 15 | 22 | 4 | 1 | **447,00** |
| MA1111010100385 | TCB50 H160 CAL4 | 160 | 15 | 22 | 4 | 1 | **480,00** |
| MA1111010100386 | TCB50 H80 CAL5 | 80 | 15 | 25 | 5 | 1 | **412,50** |
| MA1111010100387 | TCB50 H120 CAL5 | 120 | 15 | 22 | 5 | 1 | **447,00** |
| MA1111010100388 | TCB50 H160 CAL5 | 160 | 15 | 27 | 5 | 1 | **480,00** |
| MA1111010100389 | TCB50 H80 CAL6 | 80 | 20 | 27 | 6 | 1 | **315,00** |
| MA1111010100390 | TCB50 H120 CAL6 | 120 | 20 | 27 | 6 | 1 | **394,50** |
| MA1111010100391 | TCB50 H160 CAL6 | 160 | 20 | 27 | 6 | 1 | **447,00** |
| MA1111010100392 | TCB50 H80 CAL8 | 80 | 20 | 27 | 8 | 1 | **315,00** |
| MA1111010100393 | TCB50 H120 CAL8 | 120 | 20 | 27 | 8 | 1 | **394,50** |
| MA1111010100394 | TCB50 H160 CAL8 | 160 | 20 | 27 | 8 | 1 | **447,00** |
| MA1111010100395 | TCB50 H80 CAL10 | 80 | 24 | 31 | 10 | 1 | **315,00** |
| MA1111010100396 | TCB50 H120 CAL10 | 120 | 24 | 31 | 10 | 1 | **394,50** |
| MA1111010100397 | TCB50 H160 CAL10 | 160 | 24 | 31 | 10 | 1 | **447,00** |
| MA1111010100398 | TCB50 H80 CAL12 | 80 | 24 | 31 | 12 | 1 | **315,00** |
| MA1111010100399 | TCB50 H120 CAL12 | 120 | 24 | 31 | 12 | 1 | **394,50** |
| MA1111010100400 | TCB50 H160 CAL12 | 160 | 24 | 31 | 12 | 1 | **447,00** |
| MA1111010100401 | TCB50 H80 CAL14 | 80 | 27 | 34 | 14 | 1 | **315,00** |
| MA1111010100402 | TCB50 H120 CAL14 | 120 | 27 | 34 | 14 | 1 | **394,50** |
| MA1111010100403 | TCB50 H160 CAL14 | 160 | 27 | 34 | 14 | 1 | **447,00** |
| MA1111010100404 | TCB50 H80 CAL16 | 80 | 27 | 34 | 16 | 1 | **315,00** |
| MA1111010100405 | TCB50 H120 CAL16 | 120 | 27 | 34 | 16 | 1 | **394,50** |
| MA1111010100406 | TCB50 H160 CAL16 | 160 | 27 | 34 | 16 | 1 | **447,00** |
| MA1111010100407 | TCB50 H80 CAL18 | 80 | 33 | 40 | 18 | 1 | **315,00** |
| MA1111010100408 | TCB50 H120 CAL18 | 120 | 33 | 40 | 18 | 1 | **394,50** |
| MA1111010100409 | TCB50 H160 CAL18 | 160 | 33 | 40 | 18 | 1 | **447,00** |
| MA1111010100410 | TCB50 H80 CAL20 | 80 | 33 | 40 | 20 | 1 | **315,00** |
| MA1111010100411 | TCB50 H120 CAL20 | 120 | 33 | 40 | 20 | 1 | **394,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, DIN 69871 ISO50, forma ad+b

| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010100412 | TCB50 H160 CAL20 | 160 | 33 | 40 | 20 | 1 | **447,00** |
| MA1111010100413 | TCB50 H100 CAL25 | 80 | 44 | 53 | 25 | 1 | **360,00** |
| MA1111010100414 | TCB50 H120 CAL25 | 120 | 44 | 53 | 25 | 1 | **394,50** |
| MA1111010100415 | TCB50 H160 CAL25 | 160 | 44 | 53 | 25 | 1 | **447,00** |
| MA1111010100416 | TCB50 H100 CAL32 | 80 | 44 | 53 | 32 | 1 | **360,00** |
| MA1111010100417 | TCB50 H120 CAL32 | 120 | 44 | 53 | 32 | 1 | **394,50** |
| MA1111010100418 | TCB50 H160 CAL32 | 160 | 44 | 53 | 32 | 1 | **447,00** |

## Mandrino a forte serraggio, DIN 69871 ISO40/ISO50, forma ad

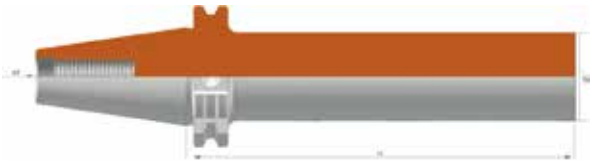




| Codice | Tipo | H | d1 | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA1111010100419 | TC40 H75 FP20 | 75 | 48 | 20 | 1 | **406,50** |
| MA1111010100420 | TC40 H95 FP32 | 95 | 68 | 32 | 1 | **421,50** |
| MA1111010100421 | TC50 H85 FP20 | 85 | 48 | 20 | 1 | **514,50** |
| MA1111010100422 | TC50 H85 FP32 | 85 | 68 | 32 | 1 | **531,00** |

## Mandrino a stelo morbido lavorabile, DIN 69871 ISO40/ISO50, forma ad





| Codice | Tipo | H | d1 | | € / cad. |
|---|---|---|---|---|---|
| MA1111010100440 | TC40 H250 D63 | 250 | 63 | 1 | **189,00** |
| MA1111010100441 | TC50 H315 D97 | 315 | 97 | 1 | **292,50** |

## Barra di controllo, DIN 69871, ISO40/ISO50

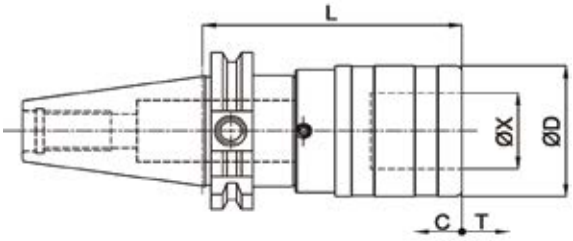





| Codice | Tipo | A | L | | € / cad. |
|---|---|---|---|---|---|
| MA1111010100490 | TC40 H300 D40 | 40 | 300 | 1 | **652,50** |
| MA1111010100491 | TC50 H300 D50 | 50 | 300 | 1 | **1.012,50** |

## Mandrino a compensazione assiale in compressione e trazione, DIN 69871 ISO40/ISO50, forma ad

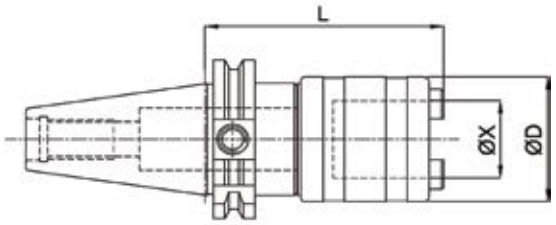





| Codice | Tipo | Capacità pinze | L | X | D | C- | T+ | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA1111010200423 | TC40 H60 MAC1 | M3 / M12 | 60 | 19 | 36 | 9 | 9 | 1 | **225,75** |
| MA1111010200425 | TC40 H100 MAC2 | M8 / M20 | 100 | 31 | 53 | 15 | 15 | 1 | **292,05** |
| MA1111010200427 | TC40 H138 MAC3 | M13 / M33 | 138 | 48 | 78 | 24 | 24 | 1 | **628,95** |
| MA1111010200424 | TC50 H62 MAC1 | M3 / M12 | 62 | 19 | 36 | 9 | 9 | 1 | **336,60** |
| MA1111010200426 | TC50 H83 MAC2 | M8 / M20 | 83 | 31 | 53 | 15 | 15 | 1 | **364,20** |
| MA1111010200428 | TC50 H133 MAC3 | M13 / M33 | 133 | 48 | 78 | 24 | 24 | 1 | **667,20** |
| MA1111010200430 | TC50 H147 MAC4 | M22 / M48 | 147 | 60 | 96 | 26 | 26 | 1 | **937,95** |

## Mandrino rigido senza compensazione, con passaggio refrigerante, DIN 69871 ISO40/ISO50, forma ad

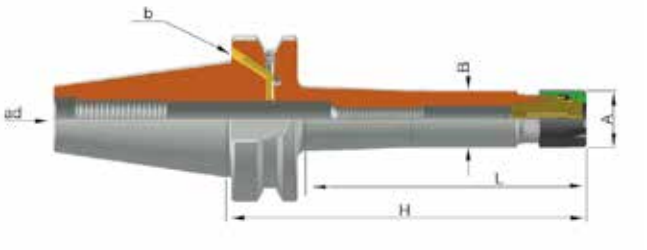





| Codice | Tipo | Capacità pinze | L | X | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA1111010200431 | TC40 H59 MAR1 | M3 / M12 | 59 | 19 | 32 | 1 | **165,45** |
| MA1111010200433 | TC40 H86 MAR2 | M8 / M20 | 86 | 31 | 50 | 1 | **177,90** |
| MA1111010200434 | TC50 H98 MAR2 | M8 / M20 | 98 | 31 | 50 | 1 | **242,70** |

## Mandrino portapinze tipo Slim, con ghiera mini, MAS 403, BT 40, forma ad+b

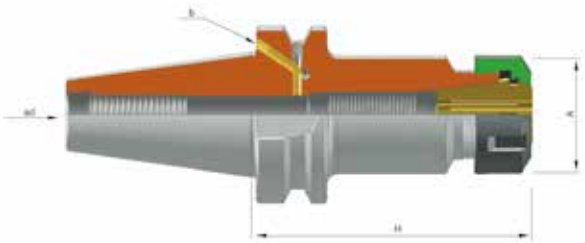





| Codice | Tipo | Capacità pinze | H | L | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA2222020100001 | BTB40 H100 ERX11M | 1 / 7 mm | 100 | 73 | 16 | 16 | 21 | 1 | **138,00** |
| MA2222020100002 | BTB40 H125 ERX11M | 1 / 7 mm | 125 | 98 | 16 | 16 | 22 | 1 | **154,50** |
| MA2222020100003 | BTB40 H150 ERX11M | 1 / 7 mm | 150 | 123 | 16 | 16 | 27 | 1 | **171,00** |
| MA2222020100004 | BTB40 H100 ERX16M | 1 / 10 mm | 100 | 73 | 22 | 22 | 22 | 1 | **120,00** |
| MA2222020100005 | BTB40 H125 ERX16M | 1 / 10 mm | 125 | 98 | 22 | 22 | 24 | 1 | **154,50** |
| MA2222020100006 | BTB40 H150 ERX16M | 1 / 10 mm | 150 | 123 | 22 | 22 | 26 | 1 | **166,50** |
| MA2222020100007 | BTB40 H100 ERX20M | 1 / 13 mm | 100 | 73 | 28 | 28 | 28 | 1 | **120,00** |
| MA2222020100008 | BTB40 H135 ERX20M | 1 / 13 mm | 135 | 108 | 28 | 28 | 34 | 1 | **154,50** |
| MA2222020100009 | BTB40 H150 ERX20M | 1 / 13 mm | 150 | 123 | 28 | 28 | 36 | 1 | **171,00** |
| MA2222020100010 | BTB40 H100 ERX25M | 1 / 16 mm | 100 | 73 | 35 | 35 | 35 | 1 | **120,00** |
| MA2222020100011 | BTB40 H150 ERX25M | 1 / 16 mm | 150 | 123 | 35 | 35 | 37 | 1 | **171,00** |
| MA2222020100012 | BTB40 H200 ERX25M | 1 / 16 mm | 200 | 173 | 35 | 35 | 37 | 1 | **258,00** |

## Mandrino portapinze con ghiera standard, MAS 403, BT 40, forma ad+b

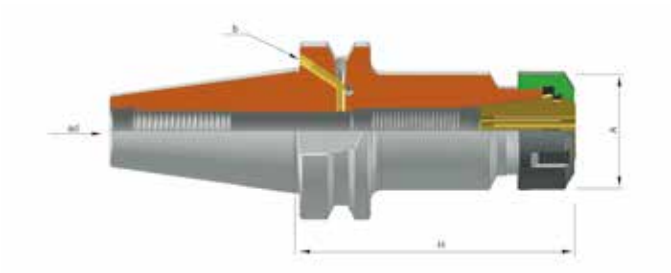




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100013 | BTB40 H70 ERX16 | 1 / 10 mm | 70 | 28 | 1 | **69,00** |
| MA2222020100014 | BTB40 H100 ERX16 | 1 / 10 mm | 100 | 28 | 1 | **85,50** |
| MA2222020100015 | BTB40 H120 ERX16 | 1 / 10 mm | 120 | 28 | 1 | **120,00** |
| MA2222020100016 | BTB40 H150 ERX16 | 1 / 10 mm | 150 | 28 | 1 | **154,50** |

## Mandrino portapinze con ghiera standard, MAS 403, BT 40, forma ad+b

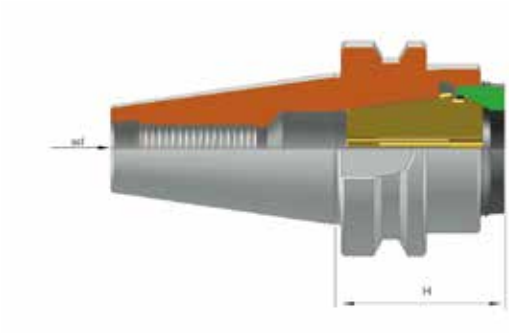




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100017 | BTB40 H200 ERX16 | 1 / 10 mm | 200 | 28 | 1 | **205,50** |
| MA2222020100018 | BTB40 H70 ERX20 | 1 / 13 mm | 70 | 34 | 1 | **69,00** |
| MA2222020100019 | BTB40 H100 ERX20 | 1 / 13 mm | 100 | 34 | 1 | **85,50** |
| MA2222020100020 | BTB40 H160 ERX20 | 1 / 13 mm | 160 | 34 | 1 | **154,50** |
| MA2222020100021 | BTB40 H70 ERX25 | 1 / 16 mm | 70 | 42 | 1 | **69,00** |
| MA2222020100022 | BTB40 H100 ERX25 | 1 / 16 mm | 100 | 42 | 1 | **85,50** |
| MA2222020100023 | BTB40 H130 ERX25 | 1 / 16 mm | 130 | 42 | 1 | **120,00** |
| MA2222020100024 | BTB40 H160 ERX25 | 1 / 16 mm | 160 | 42 | 1 | **154,50** |
| MA2222020100025 | BTB40 H200 ERX25 | 1 / 16 mm | 200 | 42 | 1 | **205,50** |
| MA2222020100026 | BTB40 H70 ERX32 | 2 / 20 mm | 70 | 50 | 1 | **63,00** |
| MA2222020100027 | BTB40 H100 ERX32 | 2 / 20 mm | 100 | 50 | 1 | **85,50** |
| MA2222020100028 | BTB40 H130 ERX32 | 2 / 20 mm | 130 | 50 | 1 | **120,00** |
| MA2222020100029 | BTB40 H150 ERX32 | 2 / 20 mm | 150 | 50 | 1 | **154,50** |
| MA2222020100030 | BTB40 H200 ERX32 | 2 / 20 mm | 200 | 50 | 1 | **205,50** |
| MA2222020100031 | BTB40 H70 ERX40 | 3 / 26 mm | 70 | 63 | 1 | **82,50** |
| MA2222020100032 | BTB40 H100 ERX40 | 3 / 26 mm | 100 | 63 | 1 | **97,50** |
| MA2222020100033 | BTB40 H130 ERX40 | 3 / 26 mm | 130 | 63 | 1 | **130,50** |
| MA2222020100034 | BTB40 H150 ERX40 | 3 / 26 mm | 150 | 63 | 1 | **163,50** |
| MA2222020100035 | BTB40 H200 ERX40 | 3 / 26 mm | 200 | 63 | 1 | **223,50** |

## Mandrino portapinze con ghiera con filetto esterno, MAS 403, BT 40, forma ad





| Codice | Tipo | Capacità pinze | H | | € / cad. |
|---|---|---|---|---|---|
| MA2222020100036 | BT40 H29 ERX32 | 2 / 20 | 29 | 1 | **171,00** |

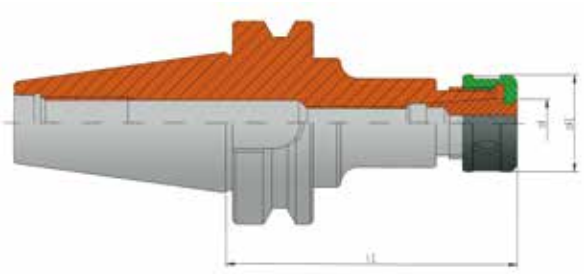
## Kit mandrino BTB40 H70, con serie pinze ERX



| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| MA2222020100037 | Kit composto da un mandrino BTB40 ERX32 H70, una serie di 18 pinze ERX32 standard da D.3 a D.20 progressione 1,0 mm. e una chiave per ghiere standard ERX32 | 1 | **360,00** |
| MA2222020100038 | Kit composto da un mandrino BTB40 ERX40 H70, una serie di 23 pinze ERX40 standard da D.4 a D.26 progressione 1,0 mm. e una chiave per ghiere standard ERX40 | 1 | **577,50** |

## Mandrino portapinze ad alta precisione, con ghiera bilanciata per alte velocità, MAS 403, BT 40, forma ad





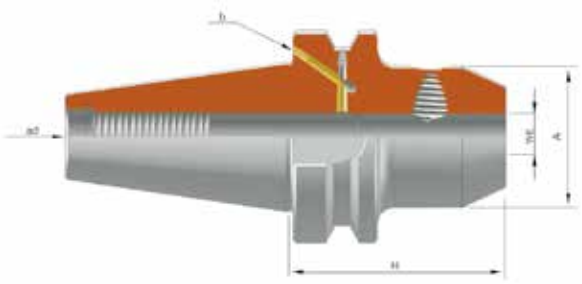
| Codice | Tipo | Capacità pinze | l1 | d1 | H | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222010100240 | BT40 H90 HS10 | 1 / 10 mm | 90 | 30 | 45 | 1 | **292,50** |
| MA2222010100241 | BT40 H120 HS10 | 1 / 10 mm | 120 | 30 | 74 | 1 | **315,00** |
| MA2222010100212 | BT40 H90 HS20 | 3 / 20 mm | 90 | 48,5 | 60 | 1 | **292,50** |
| MA2222010100242 | BT40 H120 HS20 | 3 / 20 mm | 120 | 48,5 | 88 | 1 | **324,00** |

### Caratteristiche tecniche:

- Mandrino bilanciato G 2,5 a 25.000 rpm
- Runout garantito in 0,005 mm. con sporgenza utensile 4 x D
- Nuove pinze con maggiore forza di bloccaggio utensile
- Ghiera bilanciata per alte velocità, ad alta precisione
- Migliori prestazioni e maggiore durata degli utensili

## Mandrino per frese tipo weldon, MAS 403, BT 40, forma ad+b





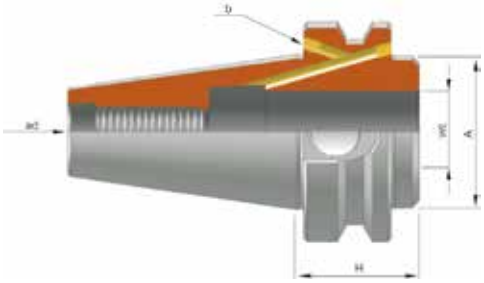
| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100041 | BTB50 H60 WE6 | 50 | 6 | 25 | 1 | **66,00** |
| MA2222020100042 | BTB40 H100 WE6 | 100 | 6 | 25 | 1 | **88,50** |
| MA2222020100043 | BTB40 H130 WE6 | 130 | 6 | 25 | 1 | **120,00** |
| MA2222020100044 | BTB40 H160 WE6 | 160 | 6 | 25 | 1 | **157,50** |
| MA2222020100045 | BTB40 H50 WE8 | 50 | 8 | 28 | 1 | **66,00** |
| MA2222020100046 | BTB40 H100 WE8 | 100 | 8 | 28 | 1 | **81,00** |
| MA2222020100047 | BTB40 H130 WE8 | 130 | 8 | 28 | 1 | **120,00** |
| MA2222020100048 | BTB40 H160 WE8 | 160 | 8 | 28 | 1 | **144,00** |
| MA2222020100049 | BTB40 H63 WE10 | 63 | 10 | 35 | 1 | **66,00** |
| MA2222020100050 | BTB40 H100 WE10 | 100 | 10 | 35 | 1 | **81,00** |
| MA2222020100051 | BTB40 H130 WE10 | 130 | 10 | 35 | 1 | **120,00** |
| MA2222020100052 | BTB40 H160 WE10 | 160 | 10 | 35 | 1 | **144,00** |
| MA2222020100053 | BTB40 H 63 WE12 | 63 | 12 | 42 | 1 | **66,00** |
| MA2222020100054 | BTB40 H100 WE12 | 100 | 12 | 42 | 1 | **81,00** |
| MA2222020100055 | BTB40 H130 WE12 | 130 | 12 | 42 | 1 | **120,00** |
| MA2222020100056 | BTB40 H160 WE12 | 160 | 12 | 42 | 1 | **144,00** |
| MA2222020100057 | BTB40 H63 WE14 | 63 | 14 | 44 | 1 | **66,00** |
| MA2222020100058 | BTB40 H100 WE14 | 100 | 14 | 44 | 1 | **81,00** |
| MA2222020100059 | BTB40 H130 WE14 | 130 | 14 | 44 | 1 | **120,00** |
| MA2222020100060 | BTB40 H160 WE14 | 160 | 14 | 44 | 1 | **144,00** |
| MA2222020100061 | BTB40 H63 WE16 | 63 | 16 | 48 | 1 | **66,00** |
| MA2222020100062 | BTB40 H100 WE16 | 100 | 16 | 48 | 1 | **81,00** |
| MA2222020100063 | BTB40 H130 WE16 | 130 | 16 | 48 | 1 | **120,00** |
| MA2222020100064 | BTB40 H160 WE16 | 160 | 16 | 48 | 1 | **144,00** |
| MA2222020100065 | BTB40 H63 WE18 | 63 | 18 | 50 | 1 | **66,00** |
| MA2222020100066 | BTB40 H100 WE18 | 100 | 18 | 50 | 1 | **81,00** |
| MA2222020100067 | BTB40 H130 WE18 | 130 | 18 | 50 | 1 | **120,00** |
| MA2222020100068 | BTB40 H160 WE18 | 160 | 18 | 50 | 1 | **144,00** |
| MA2222020100069 | BTB40 H63 WE20 | 63 | 20 | 52 | 1 | **66,00** |

## Mandrino per frese tipo weldon, MAS 403, BT 40, forma ad+b

| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100070 | BTB40 H100 WE20 | 100 | 20 | 52 | 1 | **81,00** |
| MA2222020100071 | BTB40 H130 WE20 | 130 | 20 | 52 | 1 | **120,00** |
| MA2222020100072 | BTB40 H160 WE20 | 160 | 20 | 52 | 1 | **144,00** |
| MA2222020100073 | BTB40 H100 WE25 | 100 | 25 | 65 | 1 | **78,00** |
| MA2222020100074 | BTB40 H130 WE25 | 130 | 25 | 65 | 1 | **138,00** |
| MA2222020100075 | BTB40 H160 WE25 | 160 | 25 | 65 | 1 | **171,00** |
| MA2222020100076 | BTB40 H110 WE32 | 110 | 32 | 72 | 1 | **87,00** |
| MA2222020100077 | BTB40 H130 WE32 | 130 | 32 | 72 | 1 | **151,50** |
| MA2222020100078 | BTB40 H160 WE32 | 160 | 32 | 72 | 1 | **186,00** |
| MA2222020100079 | BTB40 H120 WE40 | 120 | 40 | 80 | 1 | **126,00** |

## Mandrino extra corto per frese tipo weldon, MAS 403, BT 40, forma ad+b

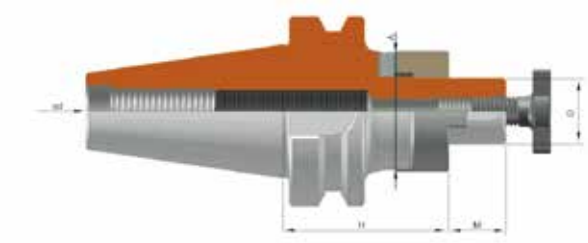




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100080 | BTB40 H35 WE16 | 35 | 16 | 43,5 | 1 | **85,50** |
| MA2222020100081 | BTB40 H35 WE20 | 35 | 20 | 43,5 | 1 | **85,50** |
| MA2222020100082 | BTB40 H35 WE25 | 35 | 25 | 43,5 | 1 | **85,50** |
| MA2222020100083 | BTB40 H60 WE25 | 60 | 25 | 50 | 1 | **94,50** |
| MA2222020100084 | BTB40 H70 WE32 | 70 | 32 | 72 | 1 | **103,50** |

## Mandrino portafrese combinato, MAS 403, BT 40, forma ad

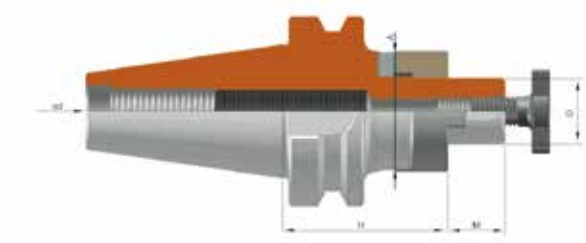




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100085 | BT40 H100 D13C | 100 | 13 | 28 | 12 | 1 | **157,50** |
| MA2222020100086 | BT40 H55 D16C | 55 | 16 | 32 | 17 | 1 | **94,50** |
| MA2222020100087 | BT40 H100 D16C | 100 | 16 | 32 | 17 | 1 | **114,00** |
| MA2222020100088 | BT40 H130 D16C | 130 | 16 | 32 | 17 | 1 | **205,50** |
| MA2222020100089 | BT40 H160 D16C | 160 | 16 | 32 | 17 | 1 | **189,00** |
| MA2222020100090 | BT40 H55 D22C | 55 | 22 | 40 | 19 | 1 | **94,50** |
| MA2222020100091 | BT40 H100 D22C | 100 | 22 | 40 | 19 | 1 | **114,00** |
| MA2222020100092 | BT40 H130 D22C | 130 | 22 | 40 | 19 | 1 | **208,50** |
| MA2222020100093 | BT40 H160 D22C | 160 | 22 | 40 | 19 | 1 | **189,00** |
| MA2222020100094 | BT40 H55 D27C | 55 | 27 | 48 | 21 | 1 | **103,50** |

## Mandrino portafrese combinato, MAS 403, BT 40, forma ad





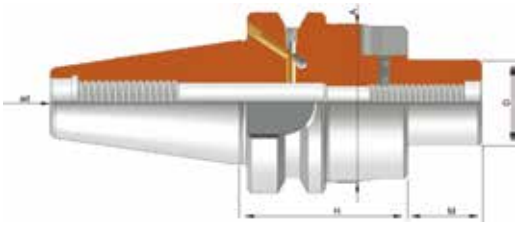
| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100095 | BT40 H100 D27C | 100 | 27 | 48 | 21 | 1 | **120,00** |
| MA2222020100096 | BT40 H130 D27C | 130 | 27 | 48 | 21 | 1 | **211,50** |
| MA2222020100097 | BT40 H160 D27C | 160 | 27 | 48 | 21 | 1 | **192,00** |
| MA2222020100098 | BT40 H60 D32C | 60 | 32 | 58 | 24 | 1 | **120,00** |
| MA2222020100099 | BT40 H100 D32C | 100 | 32 | 58 | 24 | 1 | **138,00** |
| MA2222020100100 | BT40 H130 D32C | 130 | 32 | 58 | 24 | 1 | **228,00** |

## Mandrino portafrese combinato, MAS 403, BT 40, forma ad

| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100101 | BT40 H160 D32C | 160 | 32 | 58 | 24 | 1 | **201,00** |
| MA2222020100102 | BT40 H60 D40C | 60 | 40 | 70 | 27 | 1 | **138,00** |
| MA2222020100103 | BT40 H100 D40C | 100 | 40 | 70 | 27 | 1 | **154,50** |
| MA2222020100104 | BT40 H130 D40C | 130 | 40 | 70 | 27 | 1 | **277,50** |
| MA2222020100105 | BT40 H160 D40C | 160 | 40 | 70 | 27 | 1 | **226,50** |

## Mandrino portafrese fisso con passaggio refrigerante, MAS 403, BT 40, forma ad+b

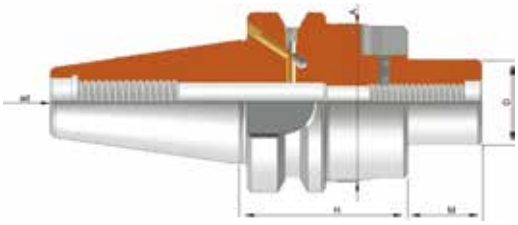




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100106 | BTB40 H35 D16S | 35 | 16 | 38 | 17 | 1 | **117,00** |
| MA2222020100107 | BTB40 H45 D16S | 45 | 16 | 38 | 17 | 1 | **75,00** |
| MA2222020100108 | BTB40 H100 D16S | 100 | 16 | 38 | 17 | 1 | **114,00** |
| MA2222020100109 | BTB40 H130 D16S | 130 | 16 | 38 | 17 | 1 | **148,50** |
| MA2222020100110 | BTB40 H160 D16S | 160 | 16 | 38 | 17 | 1 | **178,50** |
| MA2222020100111 | BTB40 H200 D16S | 200 | 16 | 38 | 17 | 1 | **274,50** |
| MA2222020100112 | BTB40 H35 D22S | 35 | 22 | 48 | 19 | 1 | **117,00** |
| MA2222020100113 | BTB40 H45 D22S | 45 | 22 | 48 | 19 | 1 | **81,00** |
| MA2222020100114 | BTB40 H100 D22S | 100 | 22 | 48 | 19 | 1 | **112,50** |
| MA2222020100115 | BTB40 H130 D22S | 130 | 22 | 48 | 19 | 1 | **144,00** |
| MA2222020100116 | BTB40 H160 D22S | 160 | 22 | 48 | 19 | 1 | **178,50** |
| MA2222020100117 | BTB40 H200 D22S | 200 | 22 | 48 | 19 | 1 | **274,50** |
| MA2222020100118 | BTB40 H35 D27S | 35 | 27 | 58 | 21 | 1 | **120,00** |
| MA2222020100119 | BTB40 H45 D27S | 45 | 27 | 58 | 21 | 1 | **84,00** |
| MA2222020100120 | BTB40 H100 D27S | 100 | 27 | 58 | 21 | 1 | **123,00** |
| MA2222020100121 | BTB40 H130 D27S | 130 | 27 | 58 | 21 | 1 | **154,50** |
| MA2222020100122 | BTB40 H160 D27S | 160 | 27 | 58 | 21 | 1 | **189,00** |
| MA2222020100123 | BTB40 H200 D27S | 200 | 27 | 58 | 21 | 1 | **292,50** |
| MA2222020100124 | BTB40 H50 D32S | 50 | 32 | 78 | 24 | 1 | **129,00** |

## Mandrino portafrese fisso con passaggio refrigerante, MAS 403, BT 40, forma ad+b

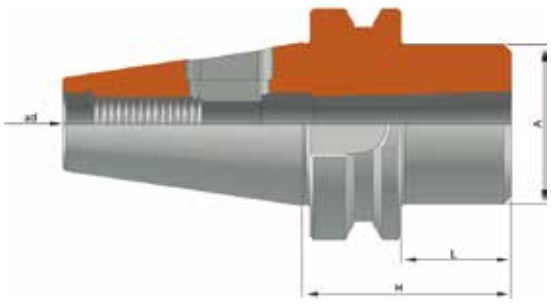




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100125 | BTB40 H56 D32S | 56 | 32 | 63 | 24 | 1 | **114,00** |
| MA2222020100126 | BTB40 H100 D32S | 100 | 32 | 63 | 24 | 1 | **132,00** |
| MA2222020100127 | BTB40 H130 D32S | 130 | 32 | 63 | 24 | 1 | **165,00** |
| MA2222020100128 | BTB40 H160 D32S | 160 | 32 | 63 | 24 | 1 | **199,50** |
| MA2222020100129 | BTB40 H200 D32S | 200 | 32 | 63 | 24 | 1 | **297,00** |
| MA2222020100130 | BTB40 H50 D40S | 50 | 40 | 88 | 27 | 1 | **150,00** |
| MA2222020100131 | BTB40 H60 D40S | 60 | 40 | 80 | 27 | 1 | **150,00** |
| MA2222020100132 | BTB40 H100 D40S | 100 | 40 | 80 | 27 | 1 | **180,00** |
| MA2222020100133 | BTB40 H130 D40S | 130 | 40 | 80 | 27 | 1 | **192,00** |
| MA2222020100134 | BTB40 H160 D40S | 160 | 40 | 80 | 27 | 1 | **219,00** |
| MA2222020100135 | BTB40 H200 D40S | 200 | 40 | 80 | 27 | 1 | **315,00** |

## Mandrino a cono morse per punte con tenone, MAS 403, BT 40, forma ad

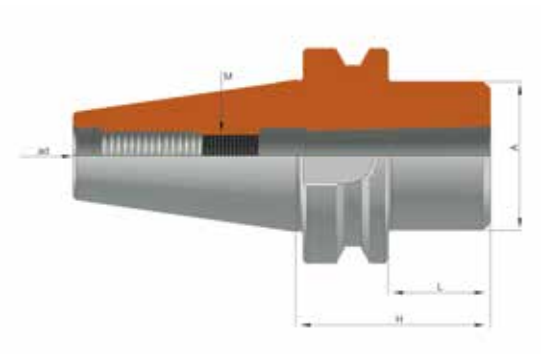




| Codice | Tipo | H | A | M | C.M. | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100153 | BT40 H50 CM1P | 50 | 23 | 25 | 1 | 1 | **70,50** |
| MA2222020100154 | BT40 H50 CM2P | 50 | 23 | 32 | 2 | 1 | **70,50** |
| MA2222020100155 | BT40 H70 CM3P | 70 | 43 | 40 | 3 | 1 | **70,50** |
| MA2222020100156 | BT40 H95 CM4P | 95 | 68 | 48 | 4 | 1 | **78,00** |

## Mandrino a cono morse per frese con vite incorporata, MAS 403, BT 40, forma ad

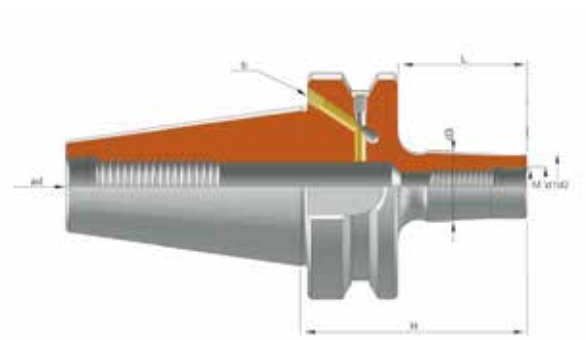




| Codice | Tipo | H | A | M | C.M. | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100157 | BT40 H50 CM1 FV | 50 | 1 | 25 | 23 | 1 | **118,50** |
| MA2222020100158 | BT40 H50 CM2 FV | 50 | 2 | 32 | 23 | 1 | **118,50** |
| MA2222020100159 | BT40 H70 CM3 FV | 70 | 3 | 40 | 43 | 1 | **118,50** |
| MA2222020100160 | BT40 H95 CM4 FV | 95 | 4 | 45 | 68 | 1 | **129,00** |

## Mandrino per frese con attacco filettato, MAS 403, BT 40, forma ad+b

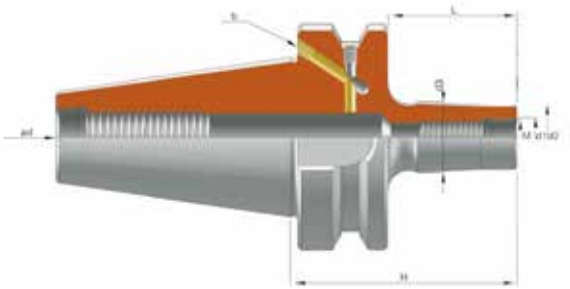




| Codice | Tipo | l1 | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA2222010100243 | BTB40 H52 M6CPY | 52 | 6,5 | 10 | 13 | 25 | M6 | 1 | **145,50** |
| MA2222010100244 | BTB40 H77 M6CPY | 77 | 6,5 | 10 | 20 | 50 | M6 | 1 | **162,00** |
| MA2222010100245 | BTB40 H102 M6CPY | 102 | 6,5 | 10 | 23 | 75 | M6 | 1 | **178,50** |
| MA2222020100136 | BTB40 H63 M8CPY | 63 | 8,5 | 13 | 15 | 36 | M8 | 1 | **145,63** |
| MA2222020100137 | BTB40 H63 M8CPY | 83 | 8,5 | 13 | 23 | 56 | M8 | 1 | **145,63** |
| MA2222020100138 | BTB40 H63 M8CPY | 103 | 8,5 | 13 | 23 | 76 | M8 | 1 | **160,19** |
| MA2222020100139 | BTB40 H63 M8CPY | 123 | 8,5 | 13 | 25 | 96 | M8 | 1 | **174,75** |
| MA2222020100140 | BTB40 H63 M10CPY | 63 | 10,5 | 18 | 20 | 36 | M10 | 1 | **145,63** |
| MA2222020100141 | BTB40 H83 M10CPY | 83 | 10,5 | 18 | 25 | 56 | M10 | 1 | **145,63** |
| MA2222020100142 | BTB40 H103 M10CPY | 103 | 10,5 | 18 | 28 | 76 | M10 | 1 | **160,19** |

## Mandrino per frese con attacco filettato, MAS 403, BT 40, forma ad+b

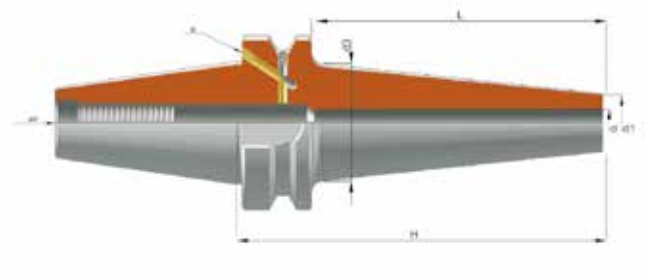




| Codice | Tipo | l1 | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA2222020100143 | BTB40 H123 M10CPY | 123 | 10,5 | 18 | 28 | 96 | M10 | 1 | **174,75** |
| MA2222020100144 | BTB40 H63 M12CPY | 63 | 12,5 | 21 | 24 | 36 | M12 | 1 | **145,63** |
| MA2222020100145 | BTB40 H83 M12CPY | 83 | 12,5 | 21 | 24 | 56 | M12 | 1 | **145,63** |
| MA2222020100146 | BTB40 H103 M12CPY | 103 | 12,5 | 21 | 31 | 76 | M12 | 1 | **160,19** |
| MA2222020100147 | BTB40 H123 M12CPY | 123 | 12,5 | 21 | 31 | 96 | M12 | 1 | **174,75** |
| MA2222020100148 | BTB40 H63 M16CPY | 63 | 17 | 29 | 34 | 36 | M16 | 1 | **145,63** |
| MA2222020100149 | BTB40 H83 M16CPY | 83 | 17 | 29 | 34 | 56 | M16 | 1 | **145,63** |
| MA2222020100150 | BTB40 H103 M16CPY | 103 | 17 | 29 | 34 | 76 | M16 | 1 | **160,19** |
| MA2222020100151 | BTB40 H123 M16CPY | 123 | 17 | 29 | 39 | 96 | M16 | 1 | **174,75** |
| MA2222020100152 | BTB40 H153 M16CPY | 153 | 17 | 29 | 39 | 126 | M16 | 1 | **196,59** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, MAS 403, BT 40, forma ad+b

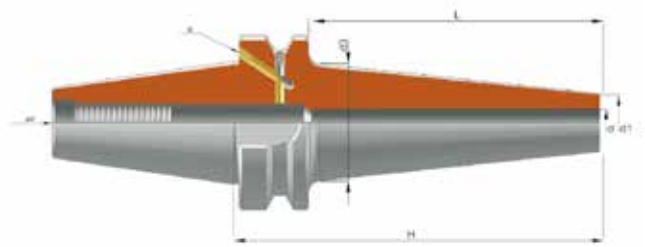




| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100161 | BTB40 H90 CAL3 | 90 | 10 | 20 | 3 | 1 | **246,00** |
| MA2222020100162 | BTB40 H120 CAL3 | 120 | 10 | 20 | 3 | 1 | **276,00** |
| MA2222020100163 | BTB40 H160 CAL3 | 160 | 10 | 20 | 3 | 1 | **315,00** |
| MA2222020100164 | BTB40 H90 CAL4 | 90 | 15 | 25 | 4 | 1 | **240,00** |
| MA2222020100165 | BTB40 H120 CAL4 | 120 | 15 | 22 | 4 | 1 | **276,00** |
| MA2222020100166 | BTB40 H160 CAL4 | 160 | 15 | 22 | 4 | 1 | **390,00** |
| MA2222020100167 | BTB40 H90 CAL5 | 90 | 15 | 25 | 5 | 1 | **240,00** |
| MA2222020100168 | BTB40 H120 CAL5 | 120 | 15 | 22 | 5 | 1 | **276,00** |
| MA2222020100169 | BTB40 H160 CAL5 | 160 | 15 | 27 | 5 | 1 | **309,00** |
| MA2222020100170 | BTB40 H90 CAL6 | 90 | 20 | 27 | 6 | 1 | **177,00** |
| MA2222020100171 | BTB40 H130 CAL6 | 130 | 20 | 27 | 6 | 1 | **243,00** |
| MA2222020100172 | BTB40 H160 CAL6 | 160 | 20 | 27 | 6 | 1 | **285,00** |
| MA2222020100173 | BTB40 H90 CAL8 | 90 | 20 | 27 | 8 | 1 | **177,00** |
| MA2222020100174 | BTB40 H130 CAL8 | 130 | 20 | 27 | 8 | 1 | **243,00** |
| MA2222020100175 | BTB40 H160 CAL8 | 160 | 20 | 27 | 8 | 1 | **285,00** |
| MA2222020100176 | BTB40 H90 CAL10 | 90 | 24 | 31 | 10 | 1 | **178,50** |
| MA2222020100177 | BTB40 H130 CAL10 | 130 | 24 | 31 | 10 | 1 | **243,00** |
| MA2222020100178 | BTB40 H160 CAL10 | 160 | 24 | 31 | 10 | 1 | **283,50** |
| MA2222020100179 | BTB40 H90 CAL12 | 90 | 24 | 31 | 12 | 1 | **178,50** |
| MA2222020100180 | BTB40 H130 CAL12 | 130 | 24 | 31 | 12 | 1 | **243,00** |
| MA2222020100181 | BTB40 H160 CAL12 | 160 | 24 | 31 | 12 | 1 | **283,50** |
| MA2222020100182 | BTB40 H90 CAL14 | 90 | 27 | 34 | 14 | 1 | **178,50** |
| MA2222020100183 | BTB40 H130 CAL14 | 130 | 27 | 34 | 14 | 1 | **243,00** |
| MA2222020100184 | BTB40 H160 CAL14 | 160 | 27 | 34 | 14 | 1 | **283,50** |
| MA2222020100185 | BTB40 H90 CAL16 | 90 | 27 | 34 | 16 | 1 | **178,50** |
| MA2222020100186 | BTB40 H130 CAL16 | 130 | 27 | 34 | 16 | 1 | **243,00** |
| MA2222020100187 | BTB40 H160 CAL16 | 160 | 27 | 34 | 16 | 1 | **283,50** |
| MA2222020100188 | BTB40 H90 CAL18 | 90 | 33 | 40 | 18 | 1 | **178,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, MAS 403, BT 40, forma ad+b

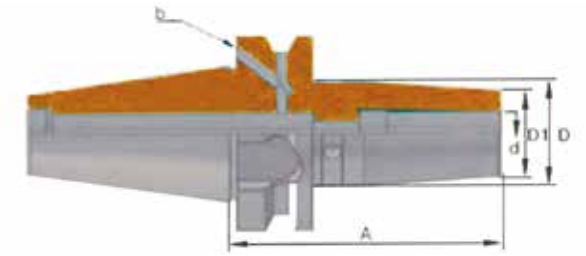




| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020100189 | BTB40 H130 CAL18 | 130 | 33 | 40 | 18 | 1 | **243,00** |
| MA2222020100190 | BTB40 H160 CAL18 | 160 | 33 | 40 | 18 | 1 | **283,50** |
| MA2222020100191 | BTB40 H90 CAL20 | 90 | 33 | 40 | 20 | 1 | **178,50** |
| MA2222020100192 | BTB40 H130 CAL20 | 130 | 33 | 40 | 20 | 1 | **243,00** |
| MA2222020100193 | BTB40 H160 CAL20 | 160 | 33 | 40 | 20 | 1 | **283,50** |
| MA2222020100194 | BTB40 H100 CAL25 | 100 | 44 | 53 | 25 | 1 | **178,50** |
| MA2222020100195 | BTB40 H130 CAL25 | 130 | 44 | 53 | 25 | 1 | **243,00** |
| MA2222020100196 | BTB40 H160 CAL25 | 160 | 44 | 53 | 25 | 1 | **283,50** |
| MA2222020100197 | BTB40 H100 CAL32 | 100 | 44 | 53 | 32 | 1 | **178,50** |
| MA2222020100198 | BTB40 H130 CAL32 | 130 | 44 | 53 | 32 | 1 | **243,00** |
| MA2222020100199 | BTB40 H160 CAL32 | 160 | 44 | 53 | 32 | 1 | **283,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, tipo Slim, MAS 403, BT 40, forma ad+b





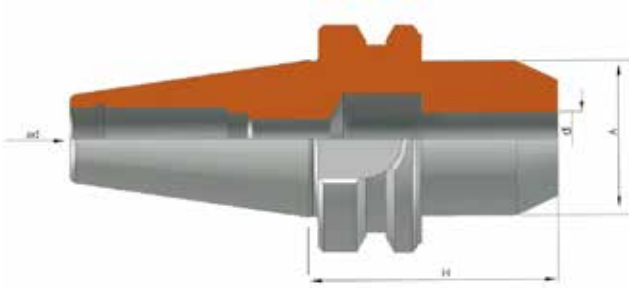

| Codice | Tipo | A | d1 | D | L | d | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA2222010100213 | BTB40 H90 CAL03 SLIM | 90 | 9 | 13 | 63 | 3 | 1 | **258,00** |
| MA2222010100214 | BTB40 H120 CAL03 SLIM | 120 | 9 | 16 | 93 | 3 | 1 | **280,50** |
| MA2222010100215 | BTB40 H90 CAL04 SLIM | 90 | 10 | 15 | 63 | 4 | 1 | **258,00** |
| MA2222010100216 | BTB40 H120 CAL04 SLIM | 120 | 10 | 20 | 93 | 4 | 1 | **280,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, tipo Slim, MAS 403, BT 40, forma ad+b

| Codice | Tipo | A | d1 | D | L | d | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA2222010100217 | BTB40 H90 CAL05 SLIM | 90 | 11 | 16 | 63 | 5 | 1 | **258,00** |
| MA2222010100218 | BTB40 H120 CAL05 SLIM | 120 | 11 | 20 | 93 | 5 | 1 | **280,50** |
| MA2222010100219 | BTB40 H90 CAL06 SLIM | 90 | 12 | 17 | 63 | 6 | 1 | **178,50** |
| MA2222010100220 | BTB40 H130 CAL06 SLIM | 130 | 12 | 19 | 103 | 6 | 1 | **243,00** |
| MA2222010100221 | BTB40 H160 CAL06 SLIM | 160 | 12 | 19 | 133 | 6 | 1 | **283,50** |
| MA2222010100222 | BTB40 H90 CAL08 SLIM | 90 | 14 | 19 | 63 | 8 | 1 | **178,50** |
| MA2222010100223 | BTB40 H130 CAL08 SLIM | 130 | 14 | 21 | 103 | 8 | 1 | **243,00** |
| MA2222010100224 | BTB40 H160 CAL08 SLIM | 160 | 14 | 21 | 133 | 8 | 1 | **283,50** |
| MA2222010100225 | BTB40 H90 CAL10 SLIM | 90 | 16 | 21 | 63 | 10 | 1 | **178,50** |
| MA2222010100226 | BTB40 H130 CAL10 SLIM | 130 | 16 | 23 | 103 | 10 | 1 | **243,00** |
| MA2222010100227 | BTB40 H160 CAL10 SLIM | 160 | 16 | 23 | 133 | 10 | 1 | **283,50** |
| MA2222010100228 | BTB40 H90 CAL12 SLIM | 90 | 18 | 23 | 63 | 12 | 1 | **178,50** |
| MA2222010100229 | BTB40 H130 CAL12 SLIM | 130 | 18 | 25 | 103 | 12 | 1 | **243,00** |
| MA2222010100230 | BTB40 H160 CAL12 SLIM | 160 | 18 | 25 | 133 | 12 | 1 | **283,50** |
| MA2222010100231 | BTB40 H90 CAL14 SLIM | 90 | 22 | 25 | 63 | 14 | 1 | **178,50** |
| MA2222010100232 | BTB40 H130 CAL14 SLIM | 130 | 22 | 27 | 103 | 14 | 1 | **243,00** |
| MA2222010100233 | BTB40 H160 CAL14 SLIM | 160 | 22 | 27 | 133 | 14 | 1 | **283,50** |
| MA2222010100234 | BTB40 H90 CAL16 SLIM | 90 | 24 | 29 | 63 | 16 | 1 | **178,50** |
| MA2222010100235 | BTB40 H130 CAL16 SLIM | 130 | 24 | 31 | 103 | 16 | 1 | **243,00** |
| MA2222010100236 | BTB40 H160 CAL16 SLIM | 160 | 24 | 31 | 133 | 16 | 1 | **283,50** |
| MA2222010100237 | BTB40 H90 CAL20 SLIM | 90 | 28 | 33 | 63 | 20 | 1 | **178,50** |
| MA2222010100238 | BTB40 H130 CAL20 SLIM | 130 | 28 | 35 | 103 | 20 | 1 | **243,00** |
| MA2222010100239 | BTB40 H160 CAL20 SLIM | 160 | 28 | 35 | 133 | 20 | 1 | **283,50** |

## Mandrino a forte serraggio, MAS 403, BT 40, forma ad+b

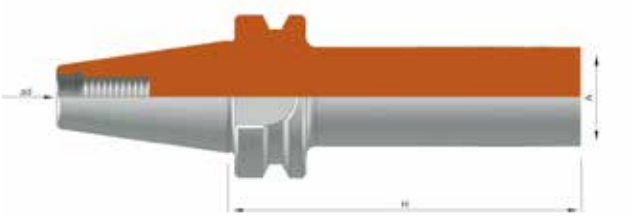




| Codice | Tipo | H | d1 | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100200 | BT40 H80 FP20 | 80 | 48 | 20 | 1 | **406,50** |
| MA2222020100201 | BT40 H85 FP32 | 85 | 68 | 32 | 1 | **421,50** |

## Mandrino a stelo morbido lavorabile, MAS 403, BT 40, forma ad+b

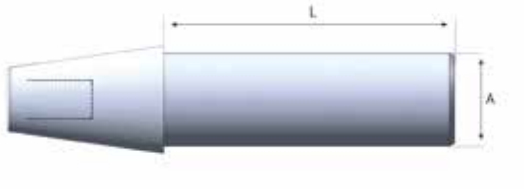




| Codice | Tipo | H | D | | € / cad. |
|---|---|---|---|---|---|
| MA2222020100202 | BT40 H250 D63 | 250 | 63 | 1 | **189,00** |

## Barra di controllo, MAS 403, BT 40

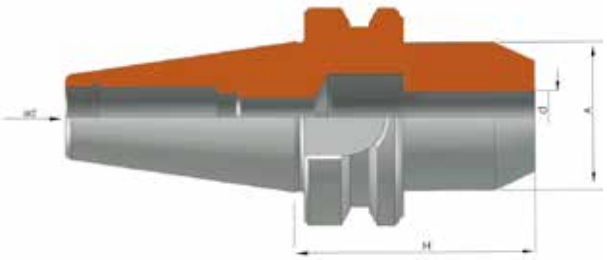





| Codice | Tipo | L | | € / cad. |
|---|---|---|---|---|
| MA2222010100252 | BT40 H300 D40 | 40 | 1 | **652,50** |

## Mandrino portapunte integrali, MAS 403, BT 40, forma ad

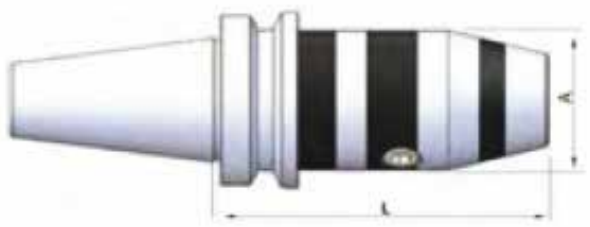




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222020100039 | BT40 H98 DCK13 | 1 / 13 mm | 98 | 50 | 1 | **229,50** |
| MA2222020100040 | BT40 H105 DCK16 | 3 / 16 mm | 105 | 58 | 1 | **241,50** |

## Mandrino portapunte integrale autoserrante con chiave esagonale, MAS 403, BT 40, forma ad

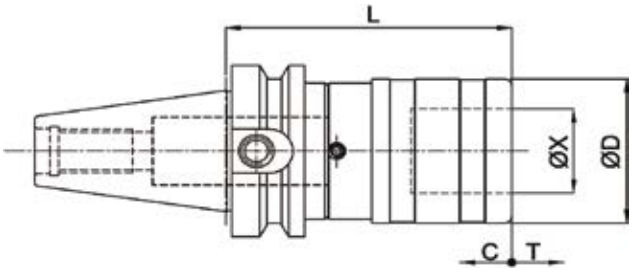





| Codice | Tipo | Capacità | L | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA2222010100246 | BT40 H98 DK13 | 50 | 1 / 13 mm | 98 | 1 | **385,50** |
| MA2222010100247 | BT40 H103 DK16 | 58 | 3 / 16 mm | 103 | 1 | **417,00** |

## Mandrino a compensazione assiale in compressione e trazione, MAS 403, BT 40, forma ad

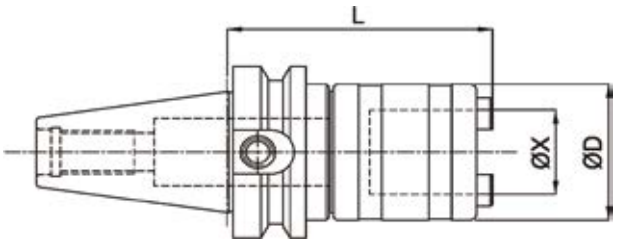





| Codice | Tipo | Capacità | L | X | D | C- | T+ | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA2222020200203 | BT40 H68 MAC1 | M3 / M12 | 68 | 19 | 36 | 9 | 9 | 1 | **236,40** |
| MA2222020200204 | BT40 H93 MAC2 | M8 / M20 | 93 | 31 | 53 | 15 | 15 | 1 | **306,00** |

## Mandrino rigido senza compensazione, MAS 403, BT 40, con passaggio refrigerante, forma ad

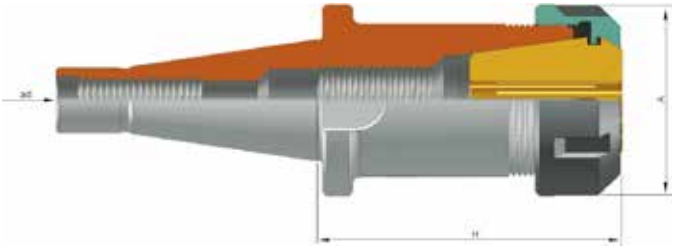





| Codice | Tipo | Capacità | L | X | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA2222020200207 | BT40 H67 MAR1 | M3 / M12 | 67 | 19 | 32 | 1 | **214,80** |
| MA2222020200208 | BT40 H90 MAR2 | M8 / M20 | 90 | 31 | 50 | 1 | **219,30** |

## Mandrino portapinze, con ghiera standard, DIN 2080 ISO40, forma ad





| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA3333030100001 | ISO40 H47 ERX16 | 1 / 10 mm | 47 | 28 | 1 | **160,20** |
| MA3333030100002 | ISO40 H47 ERX25 | 1 / 16 mm | 47 | 42 | 1 | **117,00** |
| MA3333030100003 | ISO40 H49 ERX32 | 2 / 20 mm | 49 | 50 | 1 | **104,40** |
| MA3333030100004 | ISO40 H70 ERX40 | 3 / 30 mm | 70 | 63 | 1 | **140,40** |

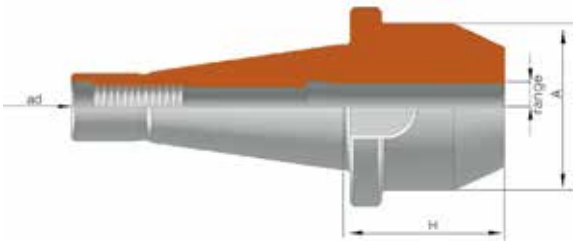
## Kit mandrino ISO40 ERX32 e serie 18 pinze ERX32



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA3333030100005 | ISO40 H70 ERX32 | Kit composto da un mandrino ISO40 ERX32 H70, una serie di 18 pinze ERX32 standard da D.3 a D.20 progressione 1,0 mm. e una chiave per ghiere standard ERX32 | 1 | **375,00** |

## Mandrino portapunte integrale, DIN 2080 ISO40, forma ad

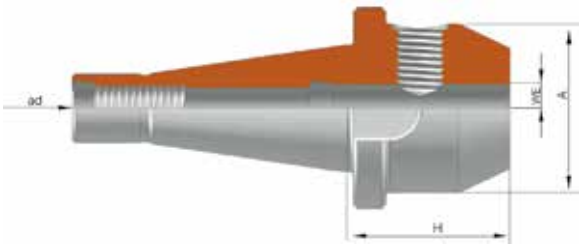





| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA3333030100006 | ISO40 H88 DCK13 | 1 / 13 mm | 88 | 50 | 1 | **264,60** |
| MA3333030100007 | ISO40 H100 DCK16 | 3 / 16 mm | 100 | 58 | 1 | **279,00** |

## Mandrino per frese tipo weldon, DIN 2080 ISO40, forma ad

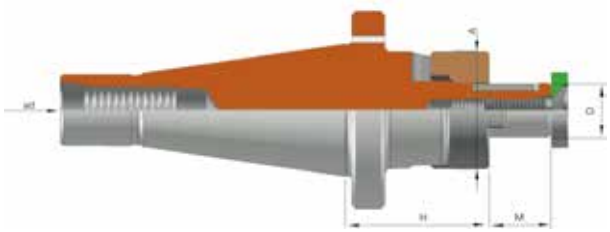





| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA3333030100008 | ISO40 H50 WE6 | 50 | 6 | 25 | 1 | **82,80** |
| MA3333030100009 | ISO40 H50 WE8 | 50 | 8 | 28 | 1 | **79,20** |
| MA3333030100010 | ISO40 H50 WE10 | 50 | 10 | 35 | 1 | **79,20** |
| MA3333030100011 | ISO40 H50 WE12 | 50 | 12 | 42 | 1 | **79,20** |
| MA3333030100012 | ISO40 H50 WE14 | 50 | 14 | 44 | 1 | **79,20** |
| MA3333030100013 | ISO40 H60 WE16 | 60 | 16 | 48 | 1 | **79,20** |
| MA3333030100014 | ISO40 H65 WE18 | 65 | 18 | 50 | 1 | **79,20** |
| MA3333030100015 | ISO40 H65 WE20 | 65 | 20 | 52 | 1 | **79,20** |
| MA3333030100016 | ISO40 H80 WE25 | 80 | 25 | 65 | 1 | **79,20** |
| MA3333030100017 | ISO40 H80 WE32 | 80 | 32 | 72 | 1 | **79,20** |
| MA3333030100018 | ISO40 H90 WE40 | 90 | 40 | 90 | 1 | **79,20** |

## Mandrino portafrese combinato, DIN 2080 ISO40, forma ad

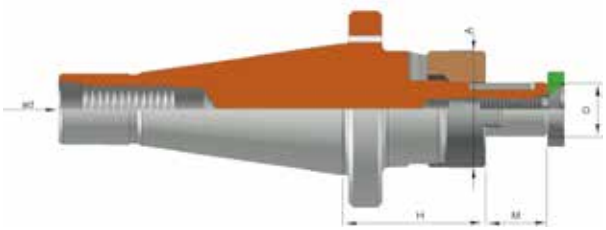





| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA3333030100019 | ISO40 H52 D16C | 52 | 16 | 16 | 17 | 1 | **95,40** |
| MA3333030100020 | ISO40 H52 D22C | 52 | 22 | 22 | 19 | 1 | **97,20** |
| MA3333030100021 | ISO40 H52 D27C | 52 | 27 | 27 | 21 | 1 | **97,20** |
| MA3333030100022 | ISO40 H52 D32C | 52 | 32 | 32 | 21 | 1 | **108,00** |

## Mandrino portafrese combinato, DIN 2080 ISO40, forma ad

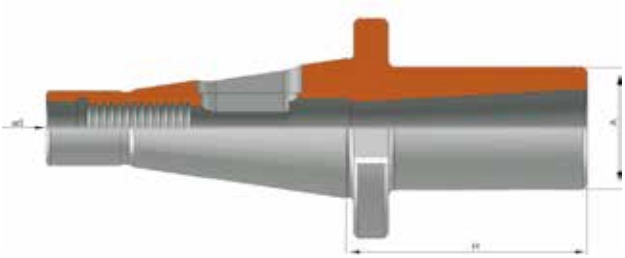




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA3333030100023 | ISO40 H52 D40C | 52 | 40 | 40 | 27 | 1 | **126,00** |

## Mandrino a cono morse per punte con tenone, DIN 2080 ISO40, forma ad

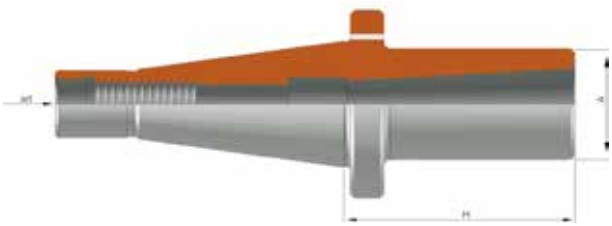




| Codice | Tipo | H | A | C.M. | | € / cad. |
|---|---|---|---|---|---|---|
| MA3333030100024 | ISO40 H50 CM1P | 50 | 25 | 1 | 1 | **79,20** |
| MA3333030100025 | ISO40 H50 CM2P | 50 | 32 | 2 | 1 | **79,20** |
| MA3333030100026 | ISO40 H65 CM3P | 65 | 40 | 3 | 1 | **79,20** |
| MA3333030100027 | ISO40 H95 CM4P | 95 | 48 | 4 | 1 | **86,40** |

## Mandrino a cono morse per frese con vite incorporata, DIN 2080 ISO40, forma ad

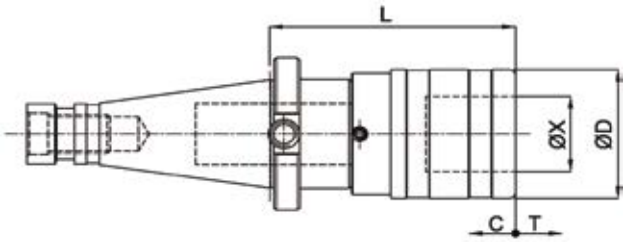




| Codice | Tipo | H | A | C.M. | | € / cad. |
|---|---|---|---|---|---|---|
| MA3333030100028 | ISO40 H50 CM1 FV | 50 | 25 | M6 | 1 | **129,60** |
| MA3333030100029 | ISO40 H50 CM2 FV | 50 | 32 | M10 | 1 | **129,60** |
| MA3333030100030 | ISO40 H65 CM3 FV | 65 | 40 | M12 | 1 | **129,60** |
| MA3333030100031 | ISO40 H95 CM4 FV | 95 | 48 | M16 | 1 | **136,80** |

## Mandrino a compensazione assiale in compressione e trazione, DIN 2080 ISO40, forma ad

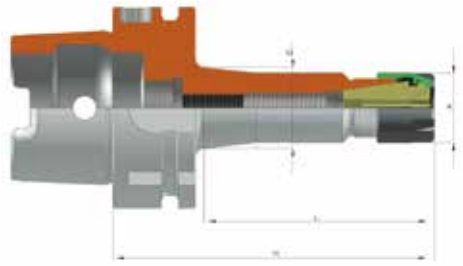





| Codice | Tipo | Capacità pinze | L | X | D | C- | T+ | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA3333030200032 | ISO40 H53 MAC1 | M3 / M12 | 53 | 19 | 36 | 7,5 | 7,5 | 1 | **264,15** |
| MA3333030200033 | ISO40 H77 MAC2 | M8 / M20 | 77 | 31 | 53 | 12,5 | 12,5 | 1 | **324,30** |

## Mandrino portapinze con ghiera mini, tipo Slim, HSK63, forma A

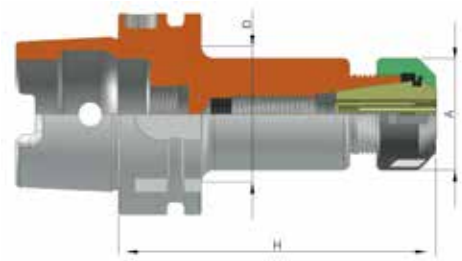




| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA4444040100001 | HSK63A H100 ERX11M | 1 / 7 mm | 100 | 74 | 16 | 22 | 1 | **177,00** |
| MA4444040100002 | HSK63A H160 ERX11M | 1 / 7 mm | 160 | 134 | 16 | 24 | 1 | **226,50** |
| MA4444040100003 | HSK63A H100 ERX16M | 1 / 10 mm | 100 | 74 | 22 | 27 | 1 | **177,00** |
| MA4444040100004 | HSK63A H160 ERX16M | 1 / 10 mm | 160 | 134 | 22 | 30 | 1 | **202,50** |
| MA4444040100005 | HSK63A H110 ERX20M | 1 / 13 mm | 110 | 84 | 28 | 33 | 1 | **177,00** |
| MA4444040100006 | HSK63A H100 ERX25M | 1 / 16 mm | 100 | 74 | 35 | 35 | 1 | **177,00** |
| MA4444040100007 | HSK63A H160 ERX25M | 1 / 16 mm | 160 | 134 | 35 | 35 | 1 | **202,50** |

## Mandrino portapinze con ghiera standard, HSK63, forma A





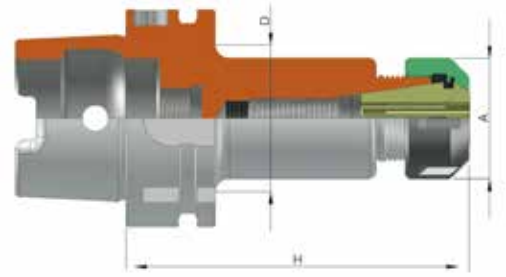
| Codice | Tipo | Capacità pinze | H | D | A | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100008 | HSK63A H100 ERX16 | 1 / 10 mm | 100 | 32 | 28 | 1 | **150,00** |
| MA4444040100009 | HSK63A H160 ERX16 | 1 / 10 mm | 160 | 32 | 28 | 1 | **183,00** |
| MA4444040100010 | HSK63A H200 ERX16 | 1 / 10 mm | 200 | 32 | 28 | 1 | **240,00** |
| MA4444040100011 | HSK63A H100 ERX25 | 1 / 16 mm | 100 | 42 | 42 | 1 | **151,50** |
| MA4444040100012 | HSK63A H160 ERX25 | 1 / 16 mm | 160 | 42 | 42 | 1 | **183,00** |
| MA4444040100013 | HSK63A H200 ERX25 | 1 / 16 mm | 200 | 42 | 42 | 1 | **240,00** |
| MA4444040100014 | HSK63A H100 ERX32 | 2 / 20 mm | 100 | 50 | 50 | 1 | **129,00** |
| MA4444040100015 | HSK63A H160 ERX32 | 2 / 20 mm | 160 | 50 | 50 | 1 | **183,00** |

## Mandrino portapinze con ghiera standard, HSK63, forma A

| Codice | Tipo | Capacità pinze | H | D | A | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100016 | HSK63A H200 ERX32 | 2 / 20 mm | 200 | 50 | 50 | 1 | **240,00** |
| MA4444040100017 | HSK63A H65 ERX40 | 3 / 26 mm | 65 | 63 | 63 | 1 | **157,50** |
| MA4444040100018 | HSK63A H120 ERX40 | 3 / 26 mm | 120 | 63 | 63 | 1 | **165,00** |
| MA4444040100019 | HSK63A H160 ERX40 | 3 / 26 mm | 160 | 63 | 63 | 1 | **195,00** |

## Mandrino portapinze con ghiera standard, HSK100, forma A

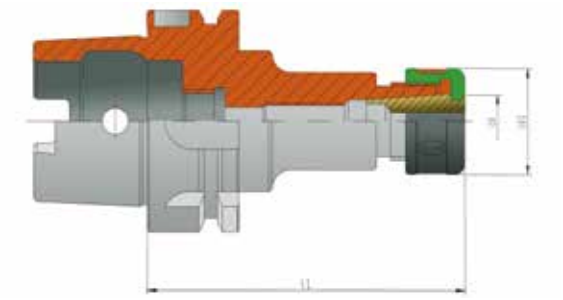





| Codice | Tipo | Capacità pinze | H | D | A | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100020 | HSK100A H100 ERX16 | 1 / 10 mm | 100 | 32 | 28 | 1 | **262,50** |
| MA4444040100021 | HSK100A H160 ERX16 | 1 / 10 mm | 160 | 32 | 28 | 1 | **330,00** |
| MA4444040100022 | HSK100A H100 ERX25 | 1 / 16 mm | 100 | 42 | 42 | 1 | **262,50** |
| MA4444040100023 | HSK100A H160 ERX25 | 1 / 16 mm | 160 | 42 | 42 | 1 | **330,00** |
| MA4444040100024 | HSK100A H100 ERX32 | 2 / 20 mm | 100 | 50 | 50 | 1 | **258,00** |
| MA4444040100025 | HSK100A H160 ERX32 | 2 / 20 mm | 160 | 50 | 50 | 1 | **330,00** |
| MA4444040100026 | HSK100A H200 ERX32 | 2 / 20 mm | 200 | 50 | 50 | 1 | **397,50** |
| MA4444040100027 | HSK100A H100 ERX40 | 3 / 30 mm | 100 | 63 | 63 | 1 | **262,50** |
| MA4444040100028 | HSK100A H160 ERX40 | 3 / 30 mm | 160 | 63 | 63 | 1 | **345,00** |
| MA4444040100029 | HSK100A H200 ERX40 | 3 / 30 mm | 200 | 63 | 63 | 1 | **412,50** |

## Mandrino portapinze ad alta precisione, con ghiera bilanciata per alte velocità, HSK63, forma A





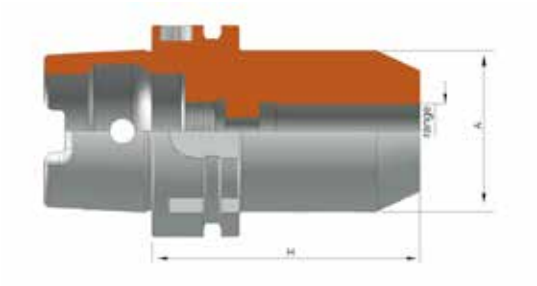
| Codice | Tipo | Capacità pinze | L1 | d1 | H | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100342 | HSK63A H90 HS10 | 1 / 10 mm | 90 | 30 | 64 | 1 | **a richiesta** |
| MA4444040100343 | HSK63A H120 HS10 | 1 / 10 mm | 120 | 30 | 94 | 1 | **a richiesta** |
| MA4444040100211 | HSK63A H90 HS20 | 3 / 20 mm | 90 | 48,5 | 64 | 1 | **300,00** |
| MA4444040100344 | HSK63A H135 HS20 | 3 / 20 mm | 135 | 48,5 | 109 | 1 | **a richiesta** |

### Caratteristiche tecniche:

- Mandrino bilanciato G 2,5 a 25.000 rpm
- Runout garantito in 0,005 mm. con sporgenza utensile 4 x D
- Nuove pinze con maggiore forza di bloccaggio utensile
- Ghiera bilanciata per alte velocità, ad alta precisione
- Migliori prestazioni e maggiore durata degli utensili

## Mandrino portapinze integrale, HSK63, forma A

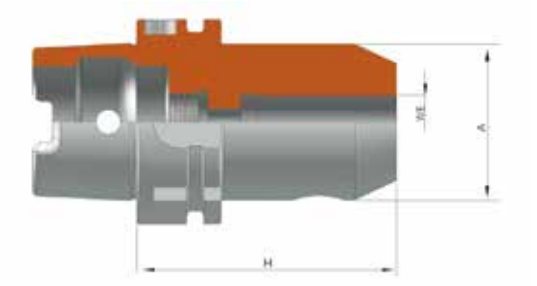




| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA4444040100193 | HSK63A H104 DK13 | 1 / 13 mm | 104 | 50 | 1 | **471,00** |
| MA4444040100194 | HSK63A H104 DK16 | 3 / 16 mm | 104 | 50 | 1 | **513,00** |

## Mandrino per frese tipo weldon, HSK63, forma A

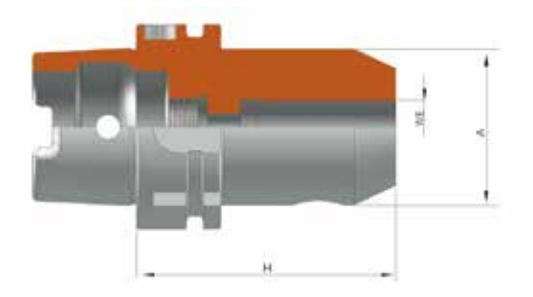




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA4444040100030 | HSK63A H65 WE6 | 65 | 6 | 25 | 1 | **129,00** |
| MA4444040100031 | HSK63A H100 WE6 | 100 | 6 | 25 | 1 | **147,00** |
| MA4444040100032 | HSK63A H160 WE6 | 160 | 6 | 25 | 1 | **205,50** |
| MA4444040100033 | HSK63A H65 WE8 | 65 | 8 | 28 | 1 | **120,00** |
| MA4444040100034 | HSK63A H100 WE8 | 100 | 8 | 28 | 1 | **138,00** |
| MA4444040100035 | HSK63A H160 WE8 | 160 | 8 | 28 | 1 | **195,00** |
| MA4444040100036 | HSK63A H 65 WE10 | 65 | 10 | 35 | 1 | **120,00** |
| MA4444040100037 | HSK63A H100 WE10 | 100 | 10 | 35 | 1 | **139,50** |
| MA4444040100038 | HSK63A H160 WE10 | 160 | 10 | 35 | 1 | **195,00** |
| MA4444040100039 | HSK63A H80 WE12 | 80 | 12 | 42 | 1 | **120,00** |
| MA4444040100040 | HSK63A H100 WE12 | 100 | 12 | 42 | 1 | **139,50** |
| MA4444040100041 | HSK63A H160 WE12 | 160 | 12 | 42 | 1 | **195,00** |
| MA4444040100042 | HSK63A H80 WE14 | 80 | 14 | 44 | 1 | **120,00** |

## Mandrino per frese tipo weldon, HSK63, forma A

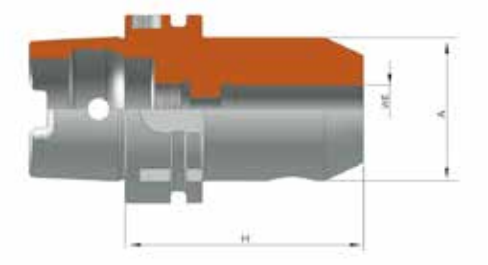





| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA4444040100043 | HSK63A H100 WE14 | 100 | 14 | 44 | 1 | **139,50** |
| MA4444040100044 | HSK63A H160 WE14 | 160 | 14 | 44 | 1 | **195,00** |
| MA4444040100045 | HSK63A H80 WE16 | 80 | 16 | 48 | 1 | **120,00** |
| MA4444040100046 | HSK63A H100 WE16 | 100 | 16 | 48 | 1 | **139,50** |
| MA4444040100047 | HSK63A H160 WE16 | 160 | 16 | 48 | 1 | **195,00** |
| MA4444040100048 | HSK63A H80 WE18 | 80 | 18 | 50 | 1 | **120,00** |
| MA4444040100049 | HSK63A H160 WE18 | 160 | 18 | 50 | 1 | **195,00** |
| MA4444040100050 | HSK63A H80 WE20 | 80 | 20 | 52 | 1 | **120,00** |
| MA4444040100051 | HSK63A H160 WE20 | 160 | 20 | 52 | 1 | **195,00** |
| MA4444040100052 | HSK63A H110 WE25 | 110 | 25 | 65 | 1 | **139,50** |
| MA4444040100053 | HSK63A H160 WE25 | 160 | 25 | 65 | 1 | **214,50** |
| MA4444040100054 | HSK63A H110 WE32 | 110 | 32 | 72 | 1 | **150,00** |
| MA4444040100055 | HSK63A H160 WE32 | 160 | 32 | 72 | 1 | **252,00** |

## Mandrino per frese tipo weldon, HSK100, forma A

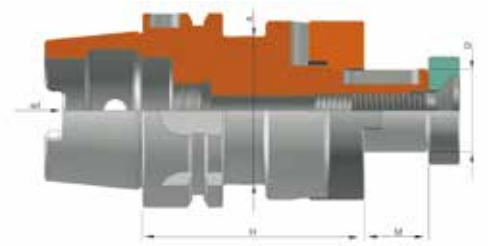




| Codice | Tipo | H | WE | A | | € / cad. |
|---|---|---|---|---|---|---|
| MA4444040100056 | HSK100A H80 WE6 | 80 | 6 | 25 | 1 | **315,00** |
| MA4444040100058 | HSK100A H80 WE8 | 80 | 8 | 28 | 1 | **315,00** |
| MA4444040100060 | HSK100A H80 WE10 | 80 | 10 | 35 | 1 | **315,00** |
| MA4444040100062 | HSK100A H100 WE12 | 100 | 12 | 42 | 1 | **315,00** |
| MA4444040100064 | HSK100A H100 WE14 | 100 | 14 | 44 | 1 | **315,00** |
| MA4444040100066 | HSK100A H100 WE16 | 100 | 16 | 48 | 1 | **315,00** |
| MA4444040100068 | HSK100A H100 WE18 | 100 | 18 | 50 | 1 | **315,00** |
| MA4444040100070 | HSK100A H100 WE20 | 100 | 20 | 52 | 1 | **315,00** |
| MA4444040100072 | HSK100A H100 WE25 | 100 | 25 | 65 | 1 | **360,00** |
| MA4444040100074 | HSK100A H100 WE32 | 100 | 32 | 72 | 1 | **382,50** |
| MA4444040100077 | HSK100A H105 WE40 | 105 | 40 | 80 | 1 | **406,50** |

## Mandrino portafrese combinato, HSK63, forma A

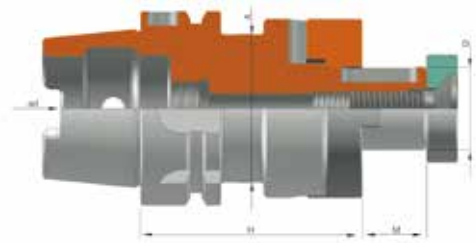




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100080 | HSK63A H60 D16C | 60 | 16 | 32 | 17 | 1 | **247,50** |
| MA4444040100081 | HSK63A H100 D16C | 100 | 16 | 32 | 17 | 1 | **220,50** |
| MA4444040100082 | HSK63A H160 D16C | 160 | 16 | 32 | 17 | 1 | **235,50** |
| MA4444040100083 | HSK63A H60 D22C | 60 | 22 | 40 | 19 | 1 | **202,50** |

## Mandrino portafrese combinato, HSK63, forma A

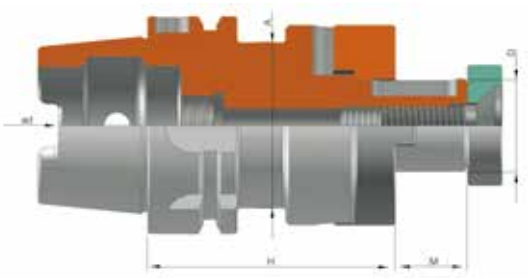




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100084 | HSK63A H100 D22C | 100 | 22 | 40 | 19 | 1 | **220,50** |
| MA4444040100085 | HSK63A H160 D22C | 160 | 22 | 40 | 19 | 1 | **235,50** |
| MA4444040100086 | HSK63A H60 D27C | 60 | 27 | 48 | 21 | 1 | **202,50** |
| MA4444040100087 | HSK63A H100 D27C | 100 | 27 | 48 | 21 | 1 | **225,00** |
| MA4444040100088 | HSK63A H160 D27C | 160 | 27 | 48 | 21 | 1 | **235,50** |
| MA4444040100089 | HSK63A H60 D32C | 60 | 32 | 58 | 24 | 1 | **226,50** |
| MA4444040100090 | HSK63A H100 D32C | 100 | 32 | 58 | 24 | 1 | **246,00** |
| MA4444040100091 | HSK63A H160 D32C | 160 | 32 | 58 | 24 | 1 | **270,00** |
| MA4444040100092 | HSK63A H70 D40C | 70 | 40 | 70 | 27 | 1 | **246,00** |
| MA4444040100093 | HSK63A H100 D40C | 100 | 40 | 70 | 27 | 1 | **282,00** |
| MA4444040100094 | HSK63A H160 D40C | 160 | 40 | 70 | 27 | 1 | **300,00** |

## Mandrino portafrese combinato, HSK100, forma A

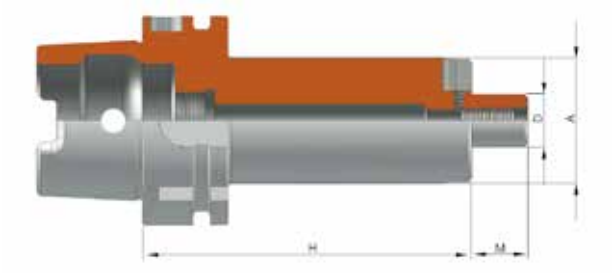




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100095 | HSK100A H60 D16C | 60 | 16 | 32 | 17 | 1 | **255,00** |
| MA4444040100096 | HSK100A H60 D22C | 60 | 22 | 40 | 19 | 1 | **255,00** |
| MA4444040100097 | HSK100A H60 D27C | 60 | 27 | 48 | 21 | 1 | **255,00** |
| MA4444040100098 | HSK100A H60 D32C | 60 | 32 | 58 | 24 | 1 | **270,00** |
| MA4444040100099 | HSK100A H70 D40C | 70 | 40 | 70 | 27 | 1 | **285,00** |

## Mandrino portafrese fisso con passaggio refrigerante, HSK63, forma A

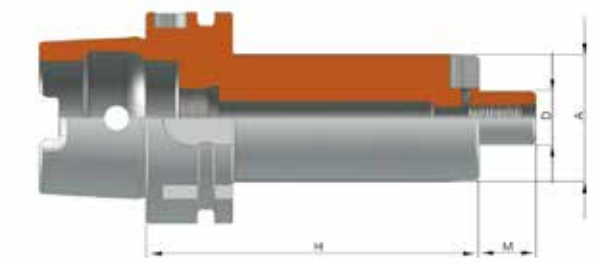




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100100 | HSK63A H50 D16S | 50 | 16 | 32 | 17 | 1 | **142,50** |
| MA4444040100101 | HSK63A H100 D16S | 100 | 16 | 38 | 17 | 1 | **165,00** |
| MA4444040100102 | HSK63A H160 D16S | 160 | 16 | 38 | 17 | 1 | **202,50** |
| MA4444040100103 | HSK63A H50 D22S | 50 | 22 | 48 | 19 | 1 | **142,50** |
| MA4444040100104 | HSK63A H100 D22S | 100 | 22 | 48 | 19 | 1 | **165,00** |
| MA4444040100105 | HSK63A H160 D22S | 160 | 22 | 48 | 19 | 1 | **202,50** |
| MA4444040100106 | HSK63A H60 D27S | 60 | 27 | 58 | 21 | 1 | **150,00** |
| MA4444040100107 | HSK63A H100 D27S | 100 | 27 | 58 | 21 | 1 | **174,00** |
| MA4444040100108 | HSK63A H160 D27S | 160 | 27 | 58 | 21 | 1 | **214,50** |
| MA4444040100109 | HSK63A H60 D32S | 60 | 32 | 66 | 24 | 1 | **165,00** |
| MA4444040100110 | HSK63A H100 D32S | 100 | 32 | 66 | 24 | 1 | **201,00** |
| MA4444040100111 | HSK63A H160 D32S | 160 | 32 | 66 | 24 | 1 | **252,00** |

## Mandrino portafrese fisso con passaggio refrigerante, HSK100, forma A

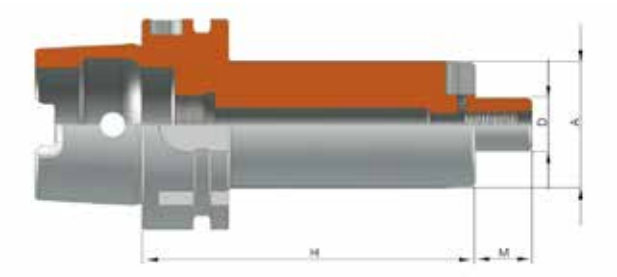




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100115 | HSK100A H50 D16S | 50 | 16 | 32 | 17 | 1 | **262,50** |
| MA4444040100116 | HSK100A H100 D16S | 100 | 16 | 38 | 17 | 1 | **285,00** |
| MA4444040100117 | HSK100A H160 D16S | 160 | 16 | 38 | 17 | 1 | **378,00** |
| MA4444040100118 | HSK100A H50 D22S | 50 | 22 | 48 | 19 | 1 | **262,50** |
| MA4444040100119 | HSK100A H100 D22S | 100 | 22 | 48 | 19 | 1 | **285,00** |

## Mandrino portafrese fisso con passaggio refrigerante, HSK100, forma A

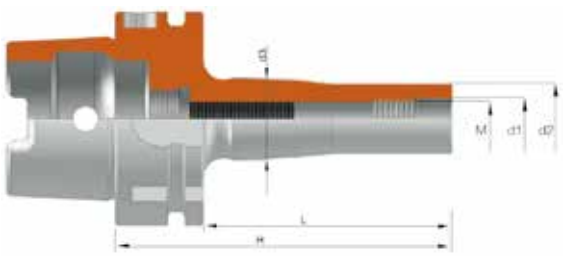




| Codice | Tipo | H | D | A | M | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100120 | HSK100A H160 D22S | 160 | 22 | 48 | 19 | 1 | **378,00** |
| MA4444040100121 | HSK100A H50 D27S | 50 | 27 | 58 | 21 | 1 | **267,00** |
| MA4444040100122 | HSK100A H100 D27S | 100 | 27 | 58 | 21 | 1 | **285,00** |
| MA4444040100123 | HSK100A H160 D27S | 160 | 27 | 58 | 21 | 1 | **378,00** |
| MA4444040100124 | HSK100A H50 D32S | 50 | 32 | 66 | 24 | 1 | **273,00** |
| MA4444040100125 | HSK100A H100 D32S | 100 | 32 | 66 | 24 | 1 | **300,00** |
| MA4444040100126 | HSK100A H160 D32S | 160 | 32 | 66 | 24 | 1 | **397,50** |
| MA4444040100127 | HSK100A H60 D40S | 60 | 40 | 80 | 27 | 1 | **300,00** |
| MA4444040100128 | HSK100A H100 D40S | 100 | 40 | 80 | 27 | 1 | **322,50** |
| MA4444040100129 | HSK100A H160 D40S | 160 | 40 | 80 | 27 | 1 | **420,00** |

## Mandrino per frese con attacco filettato, HSK63, forma A

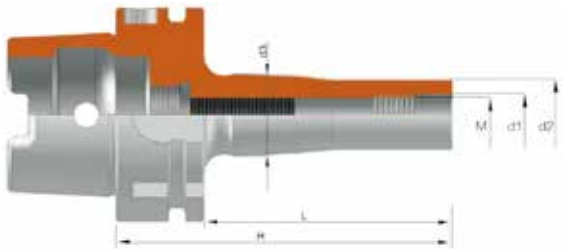




| Codice | Tipo | H | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA4444040100130 | HSK63A H59 M8CPY | 59 | 8,5 | 13 | 15 | 33 | M8 | 1 | **174,00** |
| MA4444040100131 | HSK63A H84 M8CPY | 84 | 8,5 | 13 | 23 | 58 | M8 | 1 | **174,00** |
| MA4444040100132 | HSK63A H109 M8CPY | 109 | 8,5 | 13 | 23 | 83 | M8 | 1 | **189,00** |
| MA4444040100133 | HSK63A H134 M8CPY | 134 | 8,5 | 13 | 25 | 108 | M8 | 1 | **220,50** |
| MA4444040100134 | HSK63A H59 M10CPY | 59 | 10,5 | 18 | 19,5 | 33 | M10 | 1 | **174,00** |
| MA4444040100135 | HSK63A H84 M10CPY | 84 | 10,5 | 18 | 25 | 58 | M10 | 1 | **174,00** |
| MA4444040100136 | HSK63A H109 M10CPY | 109 | 10,5 | 18 | 28 | 83 | M10 | 1 | **189,00** |
| MA4444040100137 | HSK63A H134 M10CPY | 134 | 10,5 | 18 | 28 | 108 | M10 | 1 | **220,50** |
| MA4444040100138 | HSK63A H159 M10CPY | 159 | 10,5 | 18 | 34 | 133 | M10 | 1 | **246,00** |
| MA4444040100139 | HSK63A H59 M12CPY | 59 | 12,5 | 21 | 24 | 33 | M12 | 1 | **174,00** |
| MA4444040100140 | HSK63A H84 M12CPY | 84 | 12,5 | 21 | 24 | 58 | M12 | 1 | **174,00** |
| MA4444040100141 | HSK63A H109 M12CPY | 109 | 12,5 | 21 | 31 | 83 | M12 | 1 | **189,00** |
| MA4444040100142 | HSK63A H134 M12CPY | 134 | 12,5 | 21 | 31 | 108 | M12 | 1 | **220,50** |
| MA4444040100143 | HSK63A H159 M12CPY | 159 | 12,5 | 21 | 31 | 133 | M12 | 1 | **246,00** |

## Mandrino per frese con attacco filettato, HSK63, forma A

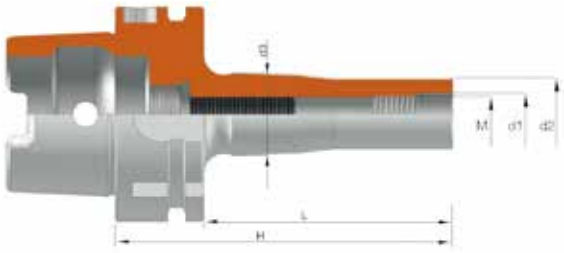




| Codice | Tipo | H | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA4444040100144 | HSK63A H59 M16CPY | 59 | 17 | 29 | 34 | 33 | M16 | 1 | **174,00** |
| MA4444040100145 | HSK63A H84 M16CPY | 84 | 17 | 29 | 34 | 58 | M16 | 1 | **174,00** |
| MA4444040100146 | HSK63A H109 M16CPY | 109 | 17 | 29 | 34 | 83 | M16 | 1 | **189,00** |
| MA4444040100147 | HSK63A H134 M16CPY | 134 | 17 | 29 | 39 | 108 | M16 | 1 | **220,50** |
| MA4444040100148 | HSK63A H159 M16CPY | 159 | 17 | 29 | 39 | 133 | M16 | 1 | **246,00** |

## Mandrino per frese con attacco filettato, HSK100, forma A

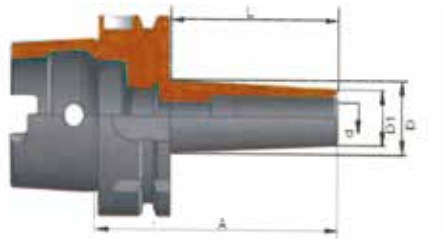




| Codice | Tipo | H | d1 | d2 | d3 | L | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA4444040100149 | HSK100A H87 M12CPY | 87 | 12,5 | 21 | 23,5 | 58 | M12 | 1 | **472,50** |
| MA4444040100150 | HSK100A H137 M12CPY | 137 | 12,5 | 21 | 47 | 108 | M12 | 1 | **583,50** |
| MA4444040100151 | HSK100A H187 M12CPY | 187 | 12,5 | 21 | 55 | 158 | M12 | 1 | **676,50** |
| MA4444040100152 | HSK100A H87 M16CPY | 87 | 17 | 29 | 31,5 | 58 | M16 | 1 | **472,50** |
| MA4444040100153 | HSK100A H137 M16CPY | 137 | 17 | 29 | 41,5 | 108 | M16 | 1 | **583,50** |
| MA4444040100154 | HSK100A H187 M16CPY | 187 | 17 | 29 | 55 | 158 | M16 | 1 | **676,50** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, tipo Slim, HSK63, forma A

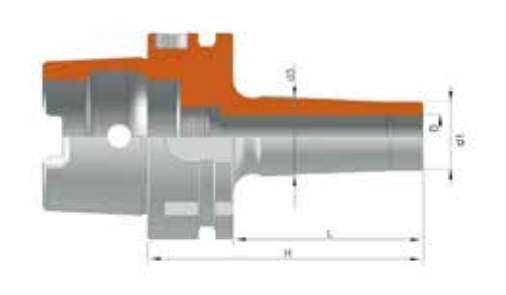




| Codice | Tipo | A | d1 | D | L | d | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA4444040100212 | HSK63A H80 CAL03 SLIM | 80 | 9 | 13 | 54 | 3 | 1 | **302,40** |
| MA4444040100213 | HSK63A H120 CAL03 SLIM | 120 | 9 | 16 | 94 | 3 | 1 | **333,00** |
| MA4444040100214 | HSK63A H80 CAL04 SLIM | 80 | 10 | 15 | 54 | 4 | 1 | **378,00** |
| MA4444040100215 | HSK63A H120 CAL04 SLIM | 120 | 10 | 20 | 94 | 4 | 1 | **297,00** |
| MA4444040100216 | HSK63A H80 CAL05 SLIM | 80 | 11 | 16 | 54 | 5 | 1 | **324,00** |
| MA4444040100217 | HSK63A H120 CAL05 SLIM | 120 | 11 | 20 | 94 | 5 | 1 | **369,00** |
| MA4444040100218 | HSK63A H90 CAL06 SLIM | 90 | 12 | 17 | 64 | 6 | 1 | **297,00** |
| MA4444040100219 | HSK63A H130 CAL06 SLIM | 130 | 12 | 19 | 104 | 6 | 1 | **324,00** |
| MA4444040100220 | HSK63A H160 CAL06 SLIM | 160 | 12 | 19 | 134 | 6 | 1 | **369,00** |
| MA4444040100221 | HSK63A H90 CAL08 SLIM | 80 | 14 | 19 | 64 | 8 | 1 | **217,80** |
| MA4444040100222 | HSK63A H120 CAL08 SLIM | 130 | 14 | 21 | 104 | 8 | 1 | **289,80** |
| MA4444040100223 | HSK63A H160 CAL08 SLIM | 160 | 14 | 21 | 134 | 8 | 1 | **324,00** |
| MA4444040100224 | HSK63A H90 CAL10 SLIM | 90 | 16 | 21 | 64 | 10 | 1 | **217,80** |
| MA4444040100225 | HSK63A H120 CAL10 SLIM | 130 | 16 | 23 | 104 | 10 | 1 | **289,80** |
| MA4444040100226 | HSK63A H160 CAL10 SLIM | 160 | 16 | 23 | 134 | 10 | 1 | **324,00** |
| MA4444040100227 | HSK63A H90 CAL12 SLIM | 90 | 18 | 23 | 64 | 12 | 1 | **217,80** |
| MA4444040100228 | HSK63A H130 CAL12 SLIM | 130 | 18 | 25 | 104 | 12 | 1 | **289,80** |
| MA4444040100229 | HSK63A H160 CAL12 SLIM | 160 | 18 | 25 | 134 | 12 | 1 | **324,00** |
| MA4444040100230 | HSK63A H90 CAL14 SLIM | 90 | 22 | 25 | 64 | 14 | 1 | **217,80** |
| MA4444040100231 | HSK63A H130 CAL14 SLIM | 130 | 22 | 27 | 104 | 14 | 1 | **289,80** |
| MA4444040100232 | HSK63A H160 CAL14 SLIM | 160 | 22 | 27 | 134 | 14 | 1 | **324,00** |
| MA4444040100233 | HSK63A H90 CAL16 SLIM | 90 | 24 | 29 | 64 | 16 | 1 | **217,80** |
| MA4444040100234 | HSK63A H130 CAL16 SLIM | 130 | 24 | 31 | 104 | 16 | 1 | **289,80** |
| MA4444040100235 | HSK63A H160 CAL16 SLIM | 160 | 24 | 31 | 134 | 16 | 1 | **324,00** |
| MA4444040100236 | HSK63A H95 CAL18 SLIM | 90 | 24 | 29 | 69 | 18 | 1 | **217,80** |
| MA4444040100237 | HSK63A H130 CAL18 SLIM | 130 | 24 | 31 | 104 | 18 | 1 | **289,80** |
| MA4444040100238 | HSK63A H160 CAL18 SLIM | 160 | 24 | 31 | 134 | 18 | 1 | **324,00** |
| MA4444040100239 | HSK63A H90 CAL20 SLIM | 90 | 32 | 39 | 74 | 20 | 1 | **217,80** |
| MA4444040100240 | HSK63A H130 CAL20 SLIM | 130 | 32 | 39 | 104 | 20 | 1 | **289,80** |
| MA4444040100241 | HSK63A H160 CAL20 SLIM | 160 | 32 | 39 | 134 | 20 | 1 | **324,00** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, HSK63, forma A





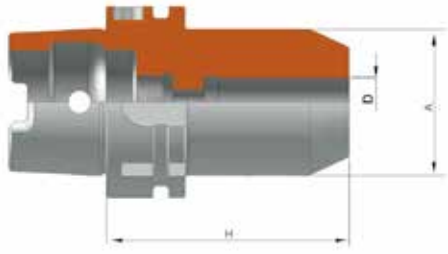
| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100155 | HSK63A H80 CAL03 | 80 | 10 | 15 | 3 | 1 | **252,00** |
| MA4444040100156 | HSK63A H120 CAL03 | 120 | 10 | 20 | 3 | 1 | **274,50** |
| MA4444040100157 | HSK63A H160 CAL03 | 160 | 10 | 20 | 3 | 1 | **315,00** |
| MA4444040100158 | HSK63A H80 CAL04 | 80 | 15 | 22 | 4 | 1 | **252,00** |
| MA4444040100159 | HSK63A H120 CAL04 | 120 | 15 | 22 | 4 | 1 | **274,50** |
| MA4444040100160 | HSK63A H160 CAL04 | 160 | 15 | 22 | 4 | 1 | **315,00** |
| MA4444040100161 | HSK63A H80 CAL05 | 80 | 15 | 22 | 5 | 1 | **244,50** |
| MA4444040100162 | HSK63A H120 CAL05 | 120 | 15 | 22 | 5 | 1 | **277,50** |
| MA4444040100163 | HSK63A H160 CAL05 | 160 | 15 | 22 | 5 | 1 | **315,00** |
| MA4444040100164 | HSK63A H90 CAL06 | 90 | 20 | 27 | 6 | 1 | **180,00** |
| MA4444040100165 | HSK63A H130 CAL06 | 130 | 20 | 27 | 6 | 1 | **241,50** |
| MA4444040100166 | HSK63A H160 CAL06 | 160 | 20 | 27 | 6 | 1 | **270,00** |
| MA4444040100167 | HSK63A H90 CAL08 | 90 | 20 | 27 | 8 | 1 | **180,00** |
| MA4444040100168 | HSK63A H130 CAL08 | 130 | 20 | 27 | 8 | 1 | **241,50** |
| MA4444040100169 | HSK63A H160 CAL08 | 160 | 20 | 27 | 8 | 1 | **270,00** |
| MA4444040100170 | HSK63A H90 CAL10 | 90 | 24 | 31 | 10 | 1 | **180,00** |
| MA4444040100171 | HSK63A H130 CAL10 | 130 | 24 | 31 | 10 | 1 | **241,50** |
| MA4444040100172 | HSK63A H160 CAL10 | 160 | 24 | 31 | 10 | 1 | **270,00** |
| MA4444040100173 | HSK63A H90 CAL12 | 90 | 24 | 31 | 12 | 1 | **180,00** |
| MA4444040100174 | HSK63A H130 CAL12 | 130 | 24 | 31 | 12 | 1 | **241,50** |
| MA4444040100175 | HSK63A H160 CAL12 | 160 | 24 | 31 | 12 | 1 | **270,00** |
| MA4444040100176 | HSK63A H90 CAL14 | 90 | 27 | 34 | 14 | 1 | **180,00** |
| MA4444040100177 | HSK63A H130 CAL14 | 130 | 27 | 34 | 14 | 1 | **241,50** |
| MA4444040100178 | HSK63A H160 CAL14 | 160 | 27 | 34 | 14 | 1 | **270,00** |
| MA4444040100179 | HSK63A H90 CAL16 | 90 | 27 | 34 | 16 | 1 | **180,00** |
| MA4444040100180 | HSK63A H130 CAL16 | 130 | 27 | 34 | 16 | 1 | **241,50** |
| MA4444040100181 | HSK63A H160 CAL16 | 160 | 27 | 34 | 16 | 1 | **270,00** |
| MA4444040100182 | HSK63A H95 CAL18 | 95 | 33 | 40 | 18 | 1 | **180,00** |

## Mandrino per calettamento a caldo per utensili in MD e HSS, HSK63, forma A

| Codice | Tipo | H | d1 | d3 | d | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040100183 | HSK63A H130 CAL18 | 130 | 33 | 40 | 18 | 1 | **241,50** |
| MA4444040100184 | HSK63A H160 CAL18 | 160 | 33 | 40 | 18 | 1 | **270,00** |
| MA4444040100185 | HSK63A H100 CAL20 | 100 | 33 | 40 | 20 | 1 | **180,00** |
| MA4444040100186 | HSK63A H130 CAL20 | 130 | 33 | 40 | 20 | 1 | **241,50** |
| MA4444040100187 | HSK63A H160 CAL20 | 160 | 33 | 40 | 20 | 1 | **270,00** |
| MA4444040100188 | HSK63A H100 CAL25 | 100 | 44 | 53 | 25 | 1 | **180,00** |
| MA4444040100189 | HSK63A H160 CAL25 | 160 | 44 | 53 | 25 | 1 | **270,00** |
| MA4444040100190 | HSK63A H120 CAL32 | 120 | 44 | 53 | 32 | 1 | **241,50** |
| MA4444040100191 | HSK63A H160 CAL32 | 160 | 44 | 53 | 32 | 1 | **270,00** |

## Mandrino a forte serraggio, HSK63, forma A






| Codice | Tipo | H | d1 | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA4444040100209 | HSK63A H85 FP20 | 85 | 48 | 20 | 1 | **675,00** |
| MA4444040100210 | HSK63A H110 FP32 | 110 | 68 | 32 | 1 | **705,00** |

## Mandrino a stelo morbido lavorabile, HSK63, forma A






| Codice | Tipo | H | D | | € / cad. |
|---|---|---|---|---|---|
| MA4444040100192 | HSK63A H250 D63 | 250 | 63 | 1 | **220,50** |

## Barra di controllo DIN 69893/A, HSK

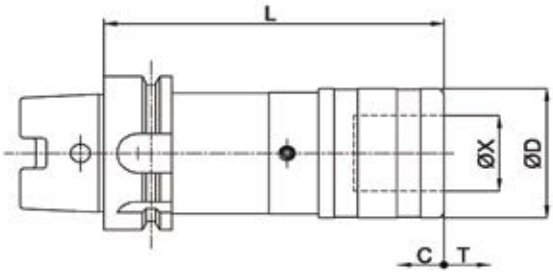





| Codice | Tipo | A | L | | € / cad. |
|---|---|---|---|---|---|
| MA4444040100246 | HSK63A H300 D40 | 40 | 300 | 1 | **1.095,00** |

## Mandrino a compensazione assiale in compressione e trazione, HSK63/HSK100, forma A

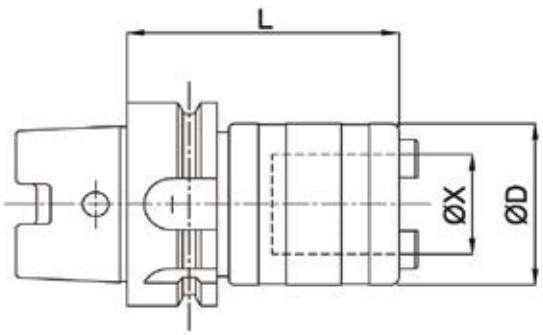





| Codice | Tipo | Capacità pinze | L | X | D | C- | T+ | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA4444040200195 | HSK63A H72 MAC1 | M3 / M12 | 72 | 19 | 39 | 7,5 | 7,5 | 1 | **477,45** |
| MA4444040200196 | HSK100A H80 MAC1 | M3 / M12 | 80 | 19 | 39 | 7,5 | 7,5 | 1 | **804,90** |
| MA4444040200197 | HSK63A H110 MAC2 | M8 / M20 | 110 | 31 | 53 | 10 | 10 | 1 | **555,45** |
| MA4444040200198 | HSK100A H100 MAC2 | M8 / M20 | 100 | 31 | 53 | 10 | 10 | 1 | **804,90** |
| MA4444040200199 | HSK63A H130 MAC3 | M13 / M33 | 130 | 48 | 78 | 17,5 | 17,5 | 1 | **771,15** |
| MA4444040200200 | HSK100A H144 MAC3 | M13 / M33 | 144 | 48 | 86 | 17,5 | 17,5 | 1 | **847,65** |

## Mandrino rigido senza compensazione, con passaggio refrigerante, HSK63/HSK100, forma A






| Codice | Tipo | Capacità pinze | L | X | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA4444040200201 | HSK63A H63 MAR1 | M3 / M12 | 63 | 19 | 32 | 1 | **321,30** |
| MA4444040200202 | HSK100A H69 MAR1 | M3 / M12 | 69 | 19 | 32 | 1 | **403,95** |
| MA4444040200203 | HSK63A H89 MAR2 | M8 / M20 | 89 | 31 | 50 | 1 | **407,10** |
| MA4444040200204 | HSK100A H92 MAR2 | M8 / M20 | 92 | 31 | 50 | 1 | **494,25** |
| MA4444040200205 | HSK63A H129 MAR3 | M13 / M33 | 129 | 48 | 72 | 1 | **514,20** |
| MA4444040200206 | HSK100A H116 MAR3 | M13 / M33 | 116 | 48 | 72 | 1 | **566,10** |

## Mandrino portapinze cilindrico con ghiera ERX8 mini





| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100001 | D.6 L30 ERX8M | 1 / 5 mm | 25 | 30 | 12 | 6 | 1 | **75,60** |
| MA5555050100002 | D.6 L45 ERX8M | 1 / 5 mm | 25 | 45 | 12 | 6 | 1 | **75,60** |
| MA5555050100003 | D.8 L80 ERX8M | 1 / 5 mm | 25 | 80 | 12 | 8 | 1 | **79,20** |
| MA5555050100004 | D.8 L100 ERX8M | 1 / 5 mm | 25 | 100 | 12 | 8 | 1 | **82,80** |
| MA5555050100005 | D.8 L130 ERX8M | 1 / 5 mm | 25 | 130 | 12 | 8 | 1 | **79,20** |
| MA5555050100006 | D.12 L80 ERX8M | 1 / 5 mm | 19 | 80 | 12 | 12 | 1 | **79,20** |
| MA5555050100007 | D.12 L100 ERX8M | 1 / 5 mm | 19 | 100 | 12 | 12 | 1 | **82,80** |
| MA5555050100008 | D.12 L130 ERX8M | 1 / 5 mm | 19 | 130 | 12 | 12 | 1 | **86,40** |
| MA5555050100009 | D.12 L160 ERX8M | 1 / 5 mm | 19 | 160 | 12 | 12 | 1 | **97,20** |
| MA5555050100010 | D.12 L200 ERX8M | 1 / 5 mm | 19 | 200 | 12 | 12 | 1 | **118,80** |

## Kit mandrino D.12 L... ERX8M e serie 9 pinze ERX8



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA5555050100011 | D.12 L100 ERX8M | Kit composto da un mandrino D.12 L100 ERX8M, una serie di 9 pinze ERX8 standard da D.1 a D.5 progressione 0,5 mm. | 1 | **240,00** |
| MA5555050100012 | D.12 L130 ERX8M | Kit composto da un mandrino D.12 L130 ERX8M, una serie di 9 pinze ERX8 standard da D.1 a D.5 progressione 0,5 mm. | 1 | **255,00** |
| MA5555050100013 | D.12 L160 ERX8M | Kit composto da un mandrino D.12 L160 ERX8M, una serie di 9 pinze ERX8 standard da D.1 a D.5 progressione 0,5 mm. | 1 | **270,00** |
| MA5555050100014 | D.12 L200 ERX8M | Kit composto da un mandrino D.12 L200 ERX8M, una serie di 9 pinze ERX8 standard da D.1 a D.5 progressione 0,5 mm. | 1 | **277,50** |

## Mandrino portapinze cilindrico con ghiera ERX11 mini





| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100015 | D.12 L70 ERX11M | 1 / 7 mm | 26 | 70 | 16 | 12 | 1 | **75,60** |
| MA5555050100016 | D.12 L100 ERX11M | 1 / 7 mm | 26 | 100 | 16 | 12 | 1 | **79,20** |
| MA5555050100017 | D.12 L140 ERX11M | 1 / 7 mm | 26 | 140 | 16 | 12 | 1 | **90,00** |
| MA5555050100018 | D.16 L40 ERX11M | 1 / 7 mm | 19 | 40 | 16 | 16 | 1 | **75,60** |
| MA5555050100019 | D.16 L60 ERX11M | 1 / 7 mm | 19 | 60 | 16 | 16 | 1 | **75,60** |
| MA5555050100020 | D.16 L100 ERX11M | 1 / 7 mm | 19 | 100 | 16 | 16 | 1 | **79,20** |
| MA5555050100021 | D.16 L130 ERX11M | 1 / 7 mm | 19 | 130 | 16 | 16 | 1 | **82,80** |
| MA5555050100022 | D.16 L160 ERX11M | 1 / 7 mm | 19 | 160 | 16 | 16 | 1 | **97,20** |
| MA5555050100023 | D.16 L300 ERX11M | 1 / 7 mm | 19 | 300 | 16 | 16 | 1 | **176,40** |

## Kit mandrino D.12/16 L... ERX11M e 13 pinze ERX11



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA5555050100024 | D.12 L100 ERX11M | Kit composto da un mandrino D.12 L100 ERX11M, una serie di 13 pinze ERX11 standard da D.1 a D.7 progressione 0,5 mm. | 1 | **285,00** |
| MA5555050100025 | D.16 L100 ERX11M | Kit composto da un mandrino D.16 L100 ERX11M, una serie di 13 pinze ERX11 standard da D.1 a D.7 progressione 0,5 mm. | 1 | **285,00** |
| MA5555050100026 | D.16 L130 ERX11M | Kit composto da un mandrino D.16 L130 ERX11M, una serie di 13 pinze ERX11 standard da D.1 a D.7 progressione 0,5 mm. | 1 | **292,50** |
| MA5555050100027 | D.16 L160 ERX11M | Kit composto da un mandrino D.16 L160 ERX11M, una serie di 13 pinze ERX11 standard da D.1 a D.7 progressione 0,5 mm. | 1 | **300,00** |

## Mandrino portapinze cilindrico con ghiera ERX 16 mini





| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100028 | D.16 L35 ERX16M | 1 / 10 mm | 38 | 35 | 22 | 16 | 1 | **90,00** |
| MA5555050100029 | D.16 L80 ERX16M | 1 / 10 mm | 38 | 80 | 22 | 16 | 1 | **72,00** |
| MA5555050100030 | D.16 L100 ERX16M | 1 / 10 mm | 38 | 100 | 22 | 16 | 1 | **72,00** |
| MA5555050100031 | D.16 L130 ERX16M | 1 / 10 mm | 38 | 130 | 22 | 16 | 1 | **82,80** |
| MA5555050100032 | D.16 L160 ERX16M | 1 / 10 mm | 38 | 160 | 22 | 16 | 1 | **100,80** |
| MA5555050100033 | D.16 L200 ERX16M | 1 / 10 mm | 38 | 200 | 22 | 16 | 1 | **108,00** |
| MA5555050100034 | D.20 L60 ERX16M | 1 / 10 mm | 31 | 60 | 22 | 20 | 1 | **72,00** |
| MA5555050100035 | D.20 L100 ERX16M | 1 / 10 mm | 31 | 100 | 22 | 20 | 1 | **72,00** |
| MA5555050100036 | D.20 L130 ERX16M | 1 / 10 mm | 31 | 130 | 22 | 20 | 1 | **82,80** |
| MA5555050100037 | D.20 L160 ERX16M | 1 / 10 mm | 31 | 160 | 22 | 20 | 1 | **90,00** |
| MA5555050100038 | D.20 L200 ERX16M | 1 / 10 mm | 31 | 200 | 22 | 20 | 1 | **115,20** |
| MA5555050100039 | D.20 L270 ERX16M | 1 / 10 mm | 31 | 270 | 22 | 20 | 1 | **176,40** |

## Kit mandrino D.16/20 L... ERX16M e 10 pinze ERX16



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA5555050100040 | D.16 L100 ERX16M | Kit composto da un mandrino D.16 L100 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **225,00** |
| MA5555050100041 | D.16 L130 ERX16M | Kit composto da un mandrino D.16 L130 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **240,00** |
| MA5555050100042 | D.16 L160 ERX16M | Kit composto da un mandrino D.16 L160 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **255,00** |
| MA5555050100043 | D.16 L200 ERX16M | Kit composto da un mandrino D.16 L200 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **270,00** |

## Kit mandrino D.16/20 L... ERX16M e 10 pinze ERX16

| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA5555050100044 | D.20 L100 ERX16M | Kit composto da un mandrino D.20 L100 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **232,50** |
| MA5555050100045 | D.20 L130 ERX16M | Kit composto da un mandrino D.20 L130 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **240,00** |
| MA5555050100046 | D.20 L160 ERX16M | Kit composto da un mandrino D.20 L160 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **247,50** |
| MA5555050100047 | D.20 L200 ERX16M | Kit composto da un mandrino D.20 L200 ERX16M, una serie di 10 pinze ERX16 standard da D.1 a D.10 progressione 1,0 mm. | 1 | **270,00** |

## Mandrino portapinze cilindrico con ghiera ERX 20 mini





| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100048 | D.16 L100 ERX20M | 1 / 13 mm | 42 | 100 | 28 | 16 | 1 | **73,80** |
| MA5555050100049 | D.16 L130 ERX20M | 1 / 13 mm | 42 | 130 | 28 | 16 | 1 | **90,00** |
| MA5555050100050 | D.16 L160 ERX20M | 1 / 13 mm | 42 | 160 | 28 | 16 | 1 | **100,80** |
| MA5555050100051 | D.20 L46 ERX20M | 1 / 13 mm | 36 | 46 | 28 | 20 | 1 | **72,00** |
| MA5555050100052 | D.20 L60 ERX20M | 1 / 13 mm | 36 | 60 | 28 | 20 | 1 | **86,40** |
| MA5555050100053 | D.20 L100 ERX20M | 1 / 13 mm | 36 | 100 | 28 | 20 | 1 | **90,00** |
| MA5555050100054 | D.20 L130 ERX20M | 1 / 13 mm | 36 | 130 | 28 | 20 | 1 | **97,20** |
| MA5555050100055 | D.20 L160 ERX20M | 1 / 13 mm | 36 | 160 | 28 | 20 | 1 | **104,40** |
| MA5555050100056 | D.20 L200 ERX20M | 1 / 13 mm | 36 | 200 | 28 | 20 | 1 | **118,80** |

## Kit mandrino D.20 L... ERX20M e 12 pinze ERX20



| Codice | Tipo | Descrizione | | € / cad. |
|---|---|---|---|---|
| MA5555050100057 | D.20 L100 ERX20M | Kit composto da un mandrino D.20 L100 ERX20M, una serie di 12 pinze ERX20 standard da D.2 a D.13 progressione 1,0 mm. | 1 | **270,00** |
| MA5555050100058 | D.20 L130 ERX20M | Kit composto da un mandrino D.20 L130 ERX20M, una serie di 12 pinze ERX20 standard da D.2 a D.13 progressione 1,0 mm. | 1 | **285,00** |
| MA5555050100059 | D.20 L160 ERX20M | Kit composto da un mandrino D.20 L160 ERX20M, una serie di 12 pinze ERX20 standard da D.2 a D.13 progressione 1,0 mm. | 1 | **300,00** |
| MA5555050100060 | D.20 L200 ERX20M | Kit composto da un mandrino D.20 L200 ERX20M, una serie di 12 pinze ERX20 standard da D.2 a D.13 progressione 1,0 mm. | 1 | **300,00** |

## Mandrino portapinze cilindrico con piano di bloccaggio

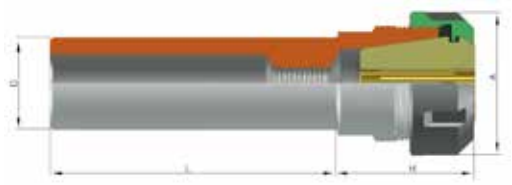




| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100100 | D.20P L160 ERX16 | 1 / 10 mm | 31 | 160 | 22 | 20 | 1 | **75,00** |
| MA5555050100101 | D.25P L70 ERX25 | 1 / 16 mm | 40 | 70 | 42 | 25 | 1 | **61,50** |
| MA5555050100102 | D.25P L50 ERX32 | 2 / 20 mm | 53 | 50 | 50 | 25 | 1 | **60,00** |
| MA5555050100103 | D.32P L70 ERX32 | 2 / 20 mm | 48 | 70 | 50 | 32 | 1 | **60,00** |
| MA5555050100104 | D.32P L70 ERX40 | 3 / 30 mm | 60 | 70 | 63 | 32 | 1 | **79,50** |
| MA5555050100105 | D.40P L80 ERX40 | 3 / 30 mm | 60 | 80 | 63 | 40 | 1 | **94,50** |

## Mandrino portapinze cilindrico con ghiera standard ERX25

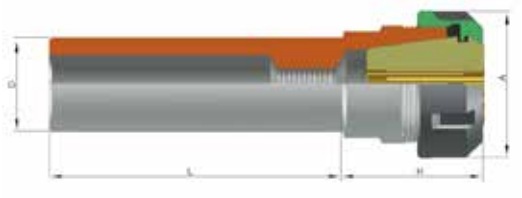




| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100061 | D.20 L60 ERX25 | 1 / 16 mm | 46 | 60 | 42 | 20 | 1 | **79,20** |
| MA5555050100062 | D.20 L100 ERX25 | 1 / 16 mm | 46 | 100 | 42 | 20 | 1 | **90,00** |
| MA5555050100063 | D.20 L130 ERX25 | 1 / 16 mm | 46 | 130 | 42 | 20 | 1 | **93,60** |
| MA5555050100064 | D.20 L160 ERX25 | 1 / 16 mm | 46 | 160 | 42 | 20 | 1 | **104,40** |
| MA5555050100065 | D.25 L70 ERX25 | 1 / 16 mm | 40 | 70 | 42 | 25 | 1 | **75,60** |
| MA5555050100066 | D.25 L100 ERX25 | 1 / 16 mm | 40 | 100 | 42 | 25 | 1 | **79,20** |
| MA5555050100067 | D.25 L130 ERX25 | 1 / 16 mm | 40 | 130 | 42 | 25 | 1 | **90,00** |
| MA5555050100068 | D.25 L160 ERX25 | 1 / 16 mm | 40 | 160 | 42 | 25 | 1 | **104,40** |
| MA5555050100069 | D.32 L80 ERX25 | 1 / 16 mm | 27 | 80 | 42 | 32 | 1 | **79,20** |
| MA5555050100070 | D.32 L100 ERX25 | 1 / 16 mm | 27 | 100 | 42 | 32 | 1 | **86,40** |

## Mandrino portapinze cilindrico con ghiera standard ERX32

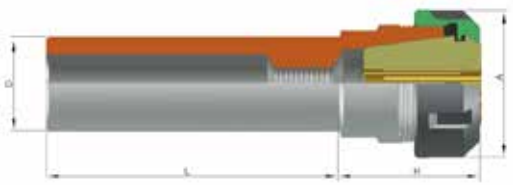




| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100073 | D.20 L50 ERX32 | 2 / 20 mm | 53 | 50 | 50 | 20 | 1 | **79,20** |
| MA5555050100074 | D.20 L100 ERX32 | 2 / 20 mm | 53 | 100 | 50 | 20 | 1 | **90,00** |
| MA5555050100075 | D.20 L130 ERX32 | 2 / 20 mm | 53 | 130 | 50 | 20 | 1 | **97,20** |
| MA5555050100076 | D.20 L160 ERX32 | 2 / 20 mm | 53 | 160 | 50 | 20 | 1 | **108,00** |
| MA5555050100077 | D.25 L50 ERX32 | 2 / 20 mm | 53 | 50 | 50 | 25 | 1 | **68,40** |
| MA5555050100078 | D.25 L70 ERX32 | 2 / 20 mm | 53 | 70 | 50 | 25 | 1 | **79,20** |
| MA5555050100079 | D.25 L100 ERX32 | 2 / 20 mm | 53 | 100 | 50 | 25 | 1 | **86,40** |

## Mandrino portapinze cilindrico con ghiera standard ERX32

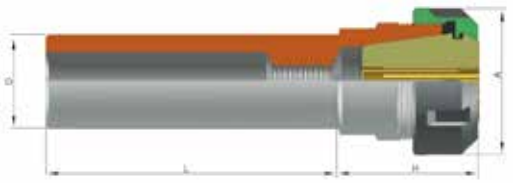




| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100080 | D.25 L130 ERX32 | 2 / 20 mm | 53 | 130 | 50 | 25 | 1 | **97,20** |
| MA5555050100081 | D.25 L160 ERX32 | 2 / 20 mm | 53 | 160 | 50 | 25 | 1 | **108,00** |
| MA5555050100082 | D.32 L50 ERX32 | 2 / 20 mm | 48 | 50 | 50 | 32 | 1 | **73,80** |
| MA5555050100083 | D.32 L70 ERX32 | 2 / 20 mm | 48 | 70 | 50 | 32 | 1 | **81,00** |
| MA5555050100084 | D.32 L100 ERX32 | 2 / 20 mm | 48 | 100 | 50 | 32 | 1 | **86,40** |
| MA5555050100085 | D.32 L130 ERX32 | 2 / 20 mm | 48 | 130 | 50 | 32 | 1 | **100,80** |
| MA5555050100086 | D.32 L160 ERX32 | 2 / 20 mm | 48 | 160 | 50 | 32 | 1 | **108,00** |
| MA5555050100087 | D.40 L80 ERX32 | 2 / 20 mm | 33 | 80 | 50 | 40 | 1 | **97,20** |
| MA5555050100088 | D.40 L130 ERX32 | 2 / 20 mm | 33 | 130 | 50 | 40 | 1 | **108,00** |
| MA5555050100089 | D.40 L160 ERX32 | 2 / 20 mm | 33 | 160 | 50 | 40 | 1 | **129,60** |

## Mandrino portapinze cilindrico con ghiera standard ERX40





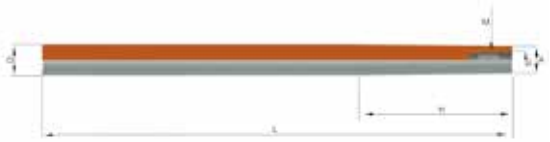
| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100090 | D.25 L60 ERX40 | 3 / 30 mm | 60 | 60 | 63 | 25 | 1 | **97,20** |
| MA5555050100091 | D.25 L100 ERX40 | 3 / 30 mm | 60 | 100 | 63 | 25 | 1 | **97,20** |
| MA5555050100092 | D.32 L70 ERX40 | 3 / 30 mm | 60 | 70 | 63 | 32 | 1 | **97,20** |
| MA5555050100093 | D.32 L100 ERX40 | 3 / 30 mm | 60 | 100 | 63 | 32 | 1 | **100,80** |
| MA5555050100094 | D.32 L130 ERX40 | 3 / 30 mm | 60 | 130 | 63 | 32 | 1 | **111,60** |
| MA5555050100095 | D.40 L80 ERX40 | 3 / 30 mm | 50 | 80 | 63 | 40 | 1 | **111,60** |
| MA5555050100096 | D.40 L130 ERX40 | 3 / 30 mm | 50 | 130 | 63 | 40 | 1 | **122,40** |

## Mandrino portapinze cilindrico con ghiera standard ERX40

| Codice | Tipo | Capacità pinze | H | L | A | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA5555050100097 | D.40 L160 ERX40 | 3 / 30 mm | 50 | 160 | 63 | 40 | 1 | **144,00** |
| MA5555050100098 | D.50 L120 ERX40 | 3 / 30 mm | 35 | 120 | 63 | 50 | 1 | **180,00** |
| MA5555050100099 | D.50 L160 ERX40 | 3 / 30 mm | 35 | 160 | 63 | 50 | 1 | **212,40** |

## Prolunga per frese con attacco filettato

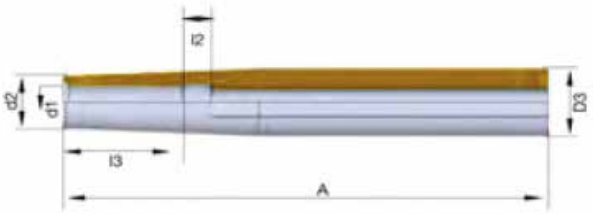




| Codice | Tipo | H | L | A | D | d | M | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA5555050200175 | D.12 L65 M5CPY | 20 | 65 | 10 | 12 | 5,5 | M5 | 1 | **75,00** |
| MA5555050200176 | D.20 L75 M6CPY | 25 | 75 | 10 | 20 | 6,5 | M6 | 1 | **79,20** |
| MA5555050200177 | D.20 L100 M6CPY | 50 | 100 | 10 | 20 | 6,5 | M6 | 1 | **75,60** |
| MA5555050200178 | D.20 L125 M6CPY | 75 | 125 | 10 | 20 | 6,5 | M6 | 1 | **90,00** |
| MA5555050100106 | D.20 L75 M8CPY | 25 | 75 | 12,8 | 20 | 8,5 | M8 | 1 | **72,00** |
| MA5555050100107 | D.20 L100 M8CPY | 50 | 100 | 12,8 | 20 | 8,5 | M8 | 1 | **72,00** |
| MA5555050100108 | D.20 L125 M8CPY | 75 | 125 | 12,8 | 20 | 8,5 | M8 | 1 | **79,20** |
| MA5555050100109 | D.20 L150 M8CPY | 100 | 150 | 12,8 | 20 | 8,5 | M8 | 1 | **86,40** |
| MA5555050100110 | D.20 L75 M10CPY | 25 | 75 | 17,8 | 20 | 10,5 | M10 | 1 | **72,00** |
| MA5555050100111 | D.20 L100 M10CPY | 50 | 100 | 17,8 | 20 | 10,5 | M10 | 1 | **72,00** |
| MA5555050100112 | D.20 L125 M10CPY | 75 | 125 | 17,8 | 20 | 10,5 | M10 | 1 | **82,80** |
| MA5555050100113 | D.20 L150 M10CPY | 100 | 150 | 17,8 | 20 | 10,5 | M10 | 1 | **86,40** |
| MA5555050100114 | D.25 L75 M12CPY | 25 | 75 | 20,8 | 25 | 12,5 | M12 | 1 | **86,40** |
| MA5555050100115 | D.25 L131 M12CPY | 75 | 131 | 20,8 | 25 | 12,5 | M12 | 1 | **90,00** |
| MA5555050100116 | D.25 L181 M12CPY | 125 | 181 | 20,8 | 25 | 12,5 | M12 | 1 | **136,80** |
| MA5555050100117 | D.32 L85 M16CPY | 25 | 85 | 28,8 | 32 | 17 | M16 | 1 | **82,80** |
| MA5555050100118 | D.32 L135 M16CPY | 75 | 135 | 28,8 | 32 | 17 | M16 | 1 | **90,00** |
| MA5555050100119 | D.32 L185 M16CPY | 125 | 185 | 28,8 | 32 | 17 | M16 | 1 | **126,00** |

## Prolunga per calettamento a caldo






| Codice | Tipo | d1 | d2 | D3 | A | l2 | l3 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA5555050200151 | D.12 L150 CAL03 | 3 | 8 | 12 | 150 | - | 12 | 1 | **180,00** |
| MA5555050200152 | D.12 L150 CAL04 | 4 | 8 | 12 | 150 | - | 16 | 1 | **180,00** |
| MA5555050200153 | D.16 L150 CAL03 | 3 | 10 | 16 | 150 | - | 12 | 1 | **180,00** |
| MA5555050200154 | D.16 L150 CAL04 | 4 | 10 | 16 | 150 | - | 16 | 1 | **180,00** |
| MA5555050200155 | D.16 L150 CAL05 | 5 | 10 | 16 | 150 | - | 20 | 1 | **165,00** |
| MA5555050200156 | D.16 L150 CAL06 | 6 | 10 | 16 | 150 | 10 | 26 | 1 | **150,00** |
| MA5555050200157 | D.20 L150 CAL03 | 3 | 10 | 20 | 150 | - | 12 | 1 | **180,00** |
| MA5555050200158 | D.20 L150 CAL04 | 4 | 10 | 20 | 150 | - | 16 | 1 | **180,00** |
| MA5555050200159 | D.20 L150 CAL05 | 5 | 10 | 20 | 150 | - | 20 | 1 | **165,00** |
| MA5555050200160 | D.20 L150 CAL06 | 6 | 10 | 20 | 150 | 10 | 26 | 1 | **150,00** |
| MA5555050200161 | D.20 L150 CAL08 | 8 | 12 | 20 | 150 | 10 | 26 | 1 | **150,00** |
| MA5555050200162 | D.20 L150 CAL10 | 10 | 14 | 20 | 150 | 10 | 32 | 1 | **150,00** |
| MA5555050200163 | D.20 L150 CAL12 | 12 | 16 | 20 | 150 | 10 | 37 | 1 | **150,00** |
| MA5555050200164 | D.25 L150 CAL08 | 8 | 20 | 25 | 150 | 10 | 26 | 1 | **150,00** |
| MA5555050200165 | D.25 L150 CAL10 | 10 | 20 | 25 | 150 | 10 | 32 | 1 | **150,00** |
| MA5555050200166 | D.25 L150 CAL12 | 12 | 20 | 25 | 150 | 10 | 37 | 1 | **150,00** |
| MA5555050200167 | D.25 L150 CAL14 | 14 | 20 | 25 | 150 | 10 | 37 | 1 | **150,00** |
| MA5555050200168 | D.25 L150 CAL16 | 16 | 22 | 25 | 150 | 10 | 40 | 1 | **150,00** |
| MA5555050200169 | D.32 L150 CAL10 | 10 | 24 | 32 | 150 | 10 | 32 | 1 | **150,00** |
| MA5555050200170 | D.32 L150 CAL12 | 12 | 24 | 32 | 150 | 10 | 37 | 1 | **150,00** |
| MA5555050200171 | D.32 L150 CAL14 | 14 | 27 | 32 | 150 | 10 | 37 | 1 | **150,00** |
| MA5555050200172 | D.32 L150 CAL16 | 16 | 27 | 32 | 150 | 10 | 40 | 1 | **150,00** |
| MA5555050200173 | D.32 L150 CAL18 | 18 | 27 | 32 | 150 | 10 | 40 | 1 | **150,00** |
| MA5555050200174 | D.32 L150 CAL20 | 20 | 27 | 32 | 150 | 10 | 42 | 1 | **150,00** |

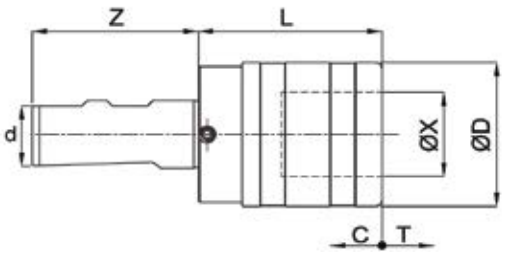
## Bussola di riduzione cono morse




| Codice | Tipo | L | | € / cad. |
|---|---|---|---|---|
| MA5555050200179 | CM2-1 | 92 | 1 | **20,10** |
| MA5555050200180 | CM3-1 | 99 | 1 | **23,40** |
| MA5555050200181 | CM3-2 | 112 | 1 | **23,40** |
| MA5555050200182 | CM4-1 | 124 | 1 | **33,60** |
| MA5555050200183 | CM4-2 | 124 | 1 | **33,60** |
| MA5555050200184 | CM4-3 | 140 | 1 | **33,60** |
| MA5555050200185 | CM5-1 | 156 | 1 | **67,50** |
| MA5555050200186 | CM5-2 | 156 | 1 | **67,50** |
| MA5555050200187 | CM5-3 | 156 | 1 | **67,50** |
| MA5555050200188 | CM5-4 | 174 | 1 | **67,50** |
| MA5555050200189 | CM6-4 | 218 | 1 | **150,60** |
| MA5555050200190 | CM6-5 | 218 | 1 | **150,60** |

## Mandrino a compensazione assiale in compressione e trazione, DIN 1853/B weldon

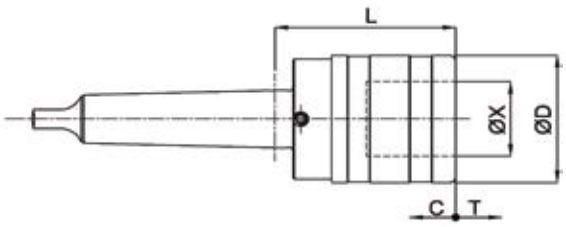





| Codice | Tipo | Capacità | L | Z | X | D | C- | T+ | d | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA5555050200123 | DWS20 H41 MAC1 | M3 / M12 | 41 | 50 | 19 | 36 | 9 | 9 | 20 | 1 | **231,75** |
| MA5555050200124 | DWS25 H41 MAC1 | M3 / M12 | 41 | 56 | 19 | 36 | 9 | 9 | 25 | 1 | **231,75** |
| MA5555050200125 | DWS25 H63 MAC2 | M8 / M20 | 63 | 56 | 31 | 53 | 15 | 15 | 25 | 1 | **287,55** |
| MA5555050200126 | DWS32 H63 MAC2 | M8 / M20 | 63 | 61 | 31 | 53 | 15 | 15 | 32 | 1 | **296,70** |
| MA5555050200128 | DWS32 H98 MAC3 | M13 / M33 | 98 | 61 | 48 | 78 | 24 | 24 | 32 | 1 | **555,45** |
| MA5555050200129 | DWS40 H121 MAC4 | M22 / M48 | 121 | 72 | 60 | 96 | 26 | 26 | 40 | 1 | **878,25** |

## Mandrino a compensazione assiale in compressione e trazione, DIN 228/B, cono morse

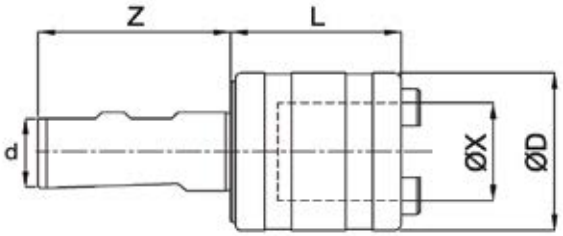





| Codice | Tipo | Capacità pinze | L | X | D | C- | T+ | C.M. | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| MA5555050200139 | CM2B H46 MAC1 | M3 / M12 | 46 | 19 | 36 | 9 | 9 | 2 | 1 | **203,85** |
| MA5555050200140 | CM3B H46 MAC1 | M3 / M12 | 46 | 19 | 36 | 9 | 9 | 3 | 1 | **199,35** |
| MA5555050200141 | CM3B H69 MAC2 | M8 / M20 | 69 | 31 | 53 | 15 | 15 | 3 | 1 | **248,70** |
| MA5555050200142 | CM4B H70 MAC2 | M8 / M20 | 70 | 31 | 53 | 15 | 15 | 4 | 1 | **248,70** |
| MA5555050200143 | CM4B H108 MAC3 | M13 / M33 | 108 | 48 | 78 | 24 | 24 | 4 | 1 | **606,00** |
| MA5555050200144 | CM5B H103 MAC3 | M13 / M33 | 103 | 48 | 78 | 24 | 24 | 5 | 1 | **681,00** |
| MA5555050200145 | CM5B H116 MAC4 | M22 / M48 | 116 | 60 | 96 | 26 | 26 | 5 | 1 | **939,45** |

## Mandrino rigido senza compensazione, con passaggio refrigerante, DIN 1853/B weldon






| Codice | Tipo | Capacità | L | Z | X | D | d1 | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA5555050200131 | DWS25 H40 MAR1 | M3 / M12 | 40 | 53 | 19 | 32 | 25 | 1 | **119,85** |
| MA5555050200132 | DWS25 H63 MAR2 | M8 / M20 | 63 | 53 | 31 | 50 | 25 | 1 | **152,85** |
| MA5555050200134 | DWS40 H87 MAR3 | M13 / M33 | 87 | 53 | 48 | 72 | 40 | 1 | **301,50** |

## Kit di maschiatura ad inversione automatica

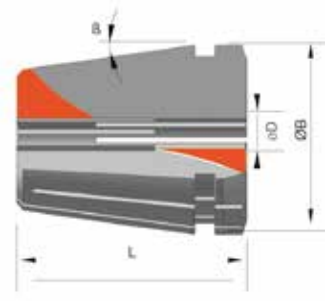


| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| MA5555050200150* | Kit in valigetta completo di un maschiatore ad inversione automatica con attacco cono morse 2 + 6 bussole con frizione BUF1, una per misura da M3 - M4 - M6 - M8 - M10 - M12 + una riduzione cono morse 3/2 | 1 | **1.424,25** |

* articolo in esaurimento

## Pinza ERX8 con precisione standard, DIN 6499, metric, 430 E

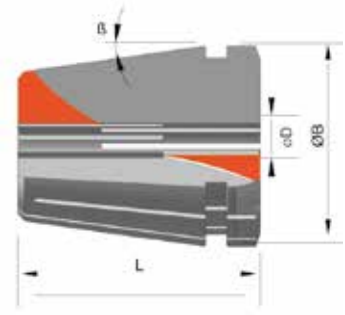





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100001 | ERX8 D.1 | 1 ÷ 0,5 | 1 | 8,5 | 13,5 | 8° | 1 | **20,25** |
| MA6666060100002 | ERX8 D.1,5 | 1,5 ÷ 1 | 1,5 | 8,5 | 13,5 | 8° | 1 | **20,25** |
| MA6666060100003 | ERX8 D.2 | 2 ÷ 1,5 | 2 | 8,5 | 13,5 | 8° | 1 | **20,25** |
| MA6666060100004 | ERX8 D.2,5 | 2,5 ÷ 2 | 2,5 | 8,5 | 13,5 | 8° | 1 | **20,25** |
| MA6666060100005 | ERX8 D.3 | 3 ÷ 2,5 | 3 | 8,5 | 13,5 | 8° | 1 | **17,25** |
| MA6666060100006 | ERX8 D.3,5 | 3,5 ÷ 3 | 3,5 | 8,5 | 13,5 | 8° | 1 | **17,25** |
| MA6666060100007 | ERX8 D.4 | 4 ÷ 3,5 | 4 | 8,5 | 13,5 | 8° | 1 | **17,25** |
| MA6666060100008 | ERX8 D.4,5 | 4,5 ÷ 4 | 4,5 | 8,5 | 13,5 | 8° | 1 | **17,25** |
| MA6666060100009 | ERX8 D.5 | 5 ÷ 4,5 | 5 | 8,5 | 13,5 | 8° | 1 | **17,25** |

## Pinza ERX11 con precisione standard, DIN 6499, metric, 4008 E





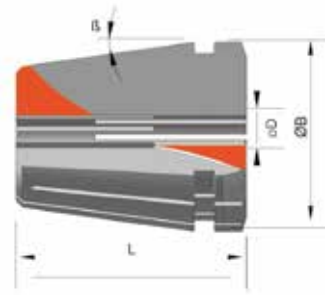

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100010 | ERX11 D.1 | 1 ÷ 0,5 | 1 | 11,5 | 18 | 8° | 1 | **17,25** |
| MA6666060100011 | ERX11 D.1,5 | 1,5 ÷ 1 | 1,5 | 11,5 | 18 | 8° | 1 | **17,25** |
| MA6666060100012 | ERX11 D.2 | 2 ÷ 1,5 | 2 | 11,5 | 18 | 8° | 1 | **17,25** |
| MA6666060100013 | ERX11 D.2,5 | 2,5 ÷ 2 | 2,5 | 11,5 | 18 | 8° | 1 | **17,25** |
| MA6666060100014 | ERX11 D.3 | 3 ÷ 2,5 | 3 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100015 | ERX11 D.3,5 | 3,5 ÷ 3 | 3,5 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100016 | ERX11 D.4 | 4 ÷ 3,5 | 4 | 11,5 | 18 | 8° | 1 | **14,25** |

## Pinza ERX11 con precisione standard, DIN 6499, metric, 4008 E

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100017 | ERX11 D.4,5 | 4,5 ÷ 4 | 4,5 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100018 | ERX11 D.5 | 5 ÷ 4,5 | 5 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100019 | ERX11 D.5,5 | 5,5 ÷ 5 | 5,5 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100020 | ERX11 D.6 | 6 ÷ 5,5 | 6 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100021 | ERX11 D.6,5 | 6,5 ÷ 6 | 6,5 | 11,5 | 18 | 8° | 1 | **14,25** |
| MA6666060100022 | ERX11 D.7 | 7 ÷ 6,5 | 7 | 11,5 | 18 | 8° | 1 | **14,25** |

## Pinza ERX16 con precisione standard, DIN 6499, metric, 426 E

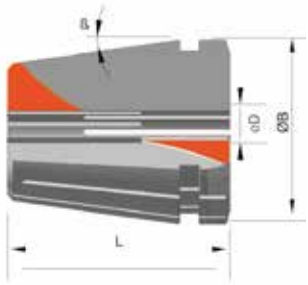





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100024 | ERX16 D.1 | 1 ÷ 0,5 | 1 | 17 | 27,5 | 8° | 1 | **15,00** |
| MA6666060100025 | ERX16 D.1,5 | 1,5 ÷ 1 | 1,5 | 17 | 27,5 | 8° | 1 | **15,00** |
| MA6666060100026 | ERX16 D.2 | 2 ÷ 1,5 | 2 | 17 | 27,5 | 8° | 1 | **15,00** |
| MA6666060100027 | ERX16 D.2,5 | 2,5 ÷ 2 | 2,5 | 17 | 27,5 | 8° | 1 | **15,00** |
| MA6666060100028 | ERX16 D.3 | 3 ÷ 2 | 3 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100029 | ERX16 D.4 | 4 ÷ 3 | 4 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100030 | ERX16 D.5 | 5 ÷ 4 | 5 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100031 | ERX16 D.6 | 6 ÷ 5 | 6 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100032 | ERX16 D.7 | 7 ÷ 6 | 7 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100033 | ERX16 D.8 | 8 ÷ 7 | 8 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100034 | ERX16 D.9 | 9 ÷ 8 | 9 | 17 | 27,5 | 8° | 1 | **12,75** |
| MA6666060100035 | ERX16 D.10 | 10 ÷ 9 | 10 | 17 | 27,5 | 8° | 1 | **12,75** |

## Pinza ERX20 con precisione standard, DIN 6499, metric, 428 E

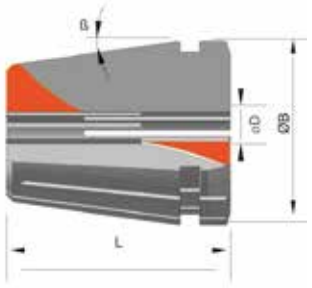





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100037 | ERX20 D.1 | 1 ÷ 0,5 | 1 | 21 | 31,5 | 8° | 1 | **18,75** |
| MA6666060100038 | ERX20 D.1,5 | 1,5 ÷ 1 | 1,5 | 21 | 31,5 | 8° | 1 | **18,75** |
| MA6666060100039 | ERX20 D.2 | 2 ÷ 1,5 | 2 | 21 | 31,5 | 8° | 1 | **18,75** |
| MA6666060100040 | ERX20 D.2,5 | 2,5 ÷ 2 | 2,5 | 21 | 31,5 | 8° | 1 | **18,75** |
| MA6666060100041 | ERX20 D.3 | 3 ÷ 2 | 3 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100042 | ERX20 D.4 | 4 ÷ 3 | 4 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100043 | ERX20 D.5 | 5 ÷ 4 | 5 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100044 | ERX20 D.6 | 6 ÷ 5 | 6 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100045 | ERX20 D.7 | 7 ÷ 6 | 7 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100046 | ERX20 D.8 | 8 ÷ 7 | 8 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100047 | ERX20 D.9 | 9 ÷ 8 | 9 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100048 | ERX20 D.10 | 10 ÷ 9 | 10 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100049 | ERX20 D.11 | 11 ÷ 10 | 11 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100050 | ERX20 D.12 | 12 ÷ 11 | 12 | 21 | 31,5 | 8° | 1 | **12,75** |
| MA6666060100051 | ERX20 D.13 | 13 ÷ 12 | 13 | 21 | 31,5 | 8° | 1 | **12,75** |

## Pinza ERX25 con precisione standard, DIN 6499, metric, 430 E

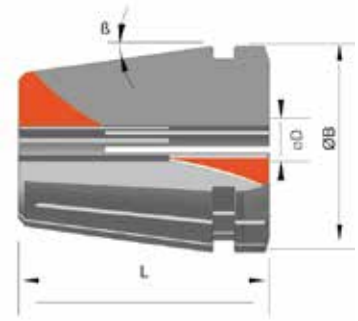





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100053 | ERX25 D.1 | 1 ÷ 0,5 | 1 | 26 | 34 | 8° | 1 | **18,75** |
| MA6666060100054 | ERX25 D.1,5 | 1,5 ÷ 1 | 1,5 | 26 | 34 | 8° | 1 | **18,75** |
| MA6666060100055 | ERX25 D.2 | 2 ÷ 1,5 | 2 | 26 | 34 | 8° | 1 | **18,75** |
| MA6666060100056 | ERX25 D.2,5 | 2,5 ÷ 2 | 2,5 | 26 | 34 | 8° | 1 | **18,75** |
| MA6666060100057 | ERX25 D.3 | 3 ÷ 2 | 3 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100058 | ERX25 D.4 | 4 ÷ 3 | 4 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100059 | ERX25 D.5 | 5 ÷ 4 | 5 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100060 | ERX25 D.6 | 6 ÷ 5 | 6 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100061 | ERX25 D.7 | 7 ÷ 6 | 7 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100062 | ERX25 D.8 | 8 ÷ 7 | 8 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100063 | ERX25 D.9 | 9 ÷ 8 | 9 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100064 | ERX25 D.10 | 10 ÷ 9 | 10 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100065 | ERX25 D.11 | 11 ÷ 10 | 11 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100066 | ERX25 D.12 | 12 ÷ 11 | 12 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100067 | ERX25 D.13 | 13 ÷ 12 | 13 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100068 | ERX25 D.14 | 14 ÷ 13 | 14 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100069 | ERX25 D.15 | 15 ÷ 14 | 15 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100070 | ERX25 D.16 | 16 ÷ 15 | 16 | 26 | 34 | 8° | 1 | **12,75** |
| MA6666060100071 | ERX25 D.17 | 17 ÷ 16 | 17 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100072 | ERX25 D.18 | 18 ÷ 17 | 18 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100073 | ERX25 D.19 | 19 ÷ 18 | 19 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100074 | ERX25 D.20 | 20 ÷ 19 | 20 | 26 | 34 | 8° | 1 | **23,25** |

## Pinza ERX32 con precisione standard, DIN 6499, metric, 470 E

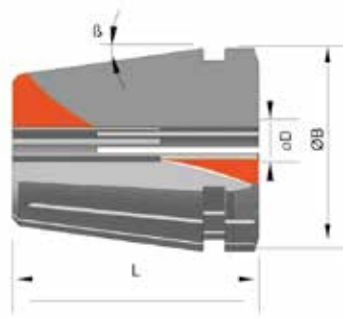





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100076 | ERX32 D.2 | 2 ÷ 1,5 | 2 | 33 | 40 | 8° | 1 | **17,25** |
| MA6666060100077 | ERX32 D.2,5 | 2,5 ÷ 2 | 2,5 | 33 | 40 | 8° | 1 | **17,25** |
| MA6666060100078 | ERX32 D.3 | 3 ÷ 2 | 3 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100079 | ERX32 D.4 | 4 ÷ 3 | 4 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100080 | ERX32 D.5 | 5 ÷ 4 | 5 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100081 | ERX32 D.6 | 6 ÷ 5 | 6 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100082 | ERX32 D.7 | 7 ÷ 6 | 7 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100083 | ERX32 D.8 | 8 ÷ 7 | 8 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100084 | ERX32 D.9 | 9 ÷ 8 | 9 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100085 | ERX32 D.10 | 10 ÷ 9 | 10 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100086 | ERX32 D.11 | 11 ÷ 10 | 11 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100087 | ERX32 D.12 | 12 ÷ 11 | 12 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100088 | ERX32 D.13 | 13 ÷ 12 | 13 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100089 | ERX32 D.14 | 14 ÷ 13 | 14 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100090 | ERX32 D.15 | 15 ÷ 14 | 15 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100091 | ERX32 D.16 | 16 ÷ 15 | 16 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100092 | ERX32 D.17 | 17 ÷ 16 | 17 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100093 | ERX32 D.18 | 18 ÷ 17 | 18 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100094 | ERX32 D.19 | 19 ÷ 18 | 19 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100095 | ERX32 D.20 | 20 ÷ 19 | 20 | 33 | 40 | 8° | 1 | **12,75** |
| MA6666060100096 | ERX32 D.21 | 21 ÷ 20 | 21 | 33 | 40 | 8° | 1 | **23,25** |
| MA6666060100097 | ERX32 D.22 | 22 ÷ 21 | 22 | 33 | 40 | 8° | 1 | **23,25** |

## Pinza ERX40 con precisione standard, DIN 6499, metric, 472 E






| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100099 | ERX40 D.3 | 3 ÷ 2 | 3 | 41 | 46 | 8° | 1 | **18,00** |
| MA6666060100100 | ERX40 D.4 | 4 ÷ 3 | 4 | 41 | 46 | 8° | 1 | **20,25** |
| MA6666060100101 | ERX40 D.5 | 5 ÷ 4 | 5 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100102 | ERX40 D.6 | 6 ÷ 5 | 6 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100103 | ERX40 D.7 | 7 ÷ 6 | 7 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100104 | ERX40 D.8 | 8 ÷ 7 | 8 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100105 | ERX40 D.9 | 9 ÷ 8 | 9 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100106 | ERX40 D.10 | 10 ÷ 9 | 10 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100107 | ERX40 D.11 | 11 ÷ 10 | 11 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100108 | ERX40 D.12 | 12 ÷ 11 | 12 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100109 | ERX40 D.13 | 13 ÷ 12 | 13 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100110 | ERX40 D.14 | 14 ÷ 13 | 14 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100111 | ERX40 D.15 | 15 ÷ 14 | 15 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100112 | ERX40 D.16 | 16 ÷ 15 | 16 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100113 | ERX40 D.17 | 17 ÷ 16 | 17 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100114 | ERX40 D.18 | 18 ÷ 17 | 18 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100115 | ERX40 D.19 | 19 ÷ 18 | 19 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100116 | ERX40 D.20 | 20 ÷ 19 | 20 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100117 | ERX40 D.21 | 21 ÷ 20 | 21 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100118 | ERX40 D.22 | 22 ÷ 21 | 22 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100119 | ERX40 D.23 | 23 ÷ 22 | 23 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100120 | ERX40 D.24 | 24 ÷ 23 | 24 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100121 | ERX40 D.25 | 25 ÷ 24 | 25 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100122 | ERX40 D.26 | 26 ÷ 25 | 26 | 41 | 46 | 8° | 1 | **18,75** |
| MA6666060100123 | ERX40 D.27 | 27 ÷ 26 | 27 | 41 | 46 | 8° | 1 | **27,00** |
| MA6666060100124 | ERX40 D.28 | 28 ÷ 27 | 28 | 41 | 46 | 8° | 1 | **27,00** |
| MA6666060100125 | ERX40 D.29 | 29 ÷ 28 | 29 | 41 | 46 | 8° | 1 | **27,00** |
| MA6666060100126 | ERX40 D.30 | 30 ÷ 29 | 30 | 41 | 46 | 8° | 1 | **27,00** |

## Serie pinze ERX.. precisione standard

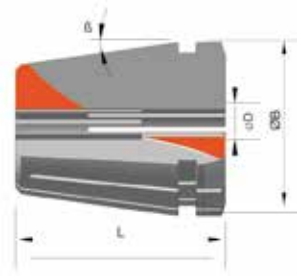


| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| MA6666060100023 | Serie in zoccolo di legno di 13 pinze ERX11 precisione standard.<br>Un pezzo per tipo Ø 1 - 1,5 - 2 - 2,5 3 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 -7 | 1 | **210,00** |
| MA6666060100036 | Serie in zoccolo di legno di 12 pinze ERX16 precisione standard.<br>Un pezzo per tipo Ø 1 - 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 | 1 | **195,00** |
| MA6666060100052 | Serie in zoccolo di legno di 13 pinze ERX20 precisione standard.<br>Un pezzo per tipo Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 | 1 | **210,00** |
| MA6666060100075 | Serie in zoccolo di legno di 15 pinze ERX25 precisione standard.<br>Un pezzo per tipo Ø 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 | 1 | **228,00** |
| MA6666060100098 | Serie in zoccolo di legno di 18 pinze ERX32 precisione standard.<br>Un pezzo per tipo Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14<br>15 - 16 - 17 - 18 - 19 - 20 | 1 | **262,50** |
| MA6666060100127 | Serie in zoccolo di legno di 23 pinze ERX40 precisione standard.<br>Un pezzo per tipo Ø 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15<br>16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 | 1 | **460,50** |

## Pinza ERX11 UP ultra precisa, DIN 6499, metric, 4008 E

PRECISIONE 0,004 mm



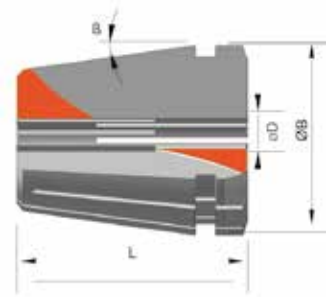


| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100128 | ERX11 D.1 UP | 1 ÷ 0,5 | 1 | 11,5 | 18 | 8° | 1 | **23,25** |
| MA6666060100129 | ERX11 D.1,5 UP | 1,5 ÷ 1 | 1,5 | 11,5 | 18 | 8° | 1 | **23,25** |
| MA6666060100130 | ERX11 D.2 UP | 2 ÷ 1,5 | 2 | 11,5 | 18 | 8° | 1 | **23,25** |
| MA6666060100131 | ERX11 D.2,5 UP | 2,5 ÷ 2 | 2,5 | 11,5 | 18 | 8° | 1 | **23,25** |
| MA6666060100132 | ERX11 D.3 UP | 3 ÷ 2,5 | 3 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100133 | ERX11 D.3,5 UP | 3,5 ÷ 3 | 3,5 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100134 | ERX11 D.4 UP | 4 ÷ 3,5 | 4 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100135 | ERX11 D.4,5 UP | 4,5 ÷ 4 | 4,5 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100136 | ERX11 D.5 UP | 5 ÷ 4,5 | 5 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100137 | ERX11 D.5,5 UP | 5,5 ÷ 5 | 5,5 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100138 | ERX11 D.6 UP | 6 ÷ 5,5 | 6 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100139 | ERX11 D.6,5 UP | 6,5 ÷ 6 | 6,5 | 11,5 | 18 | 8° | 1 | **20,25** |
| MA6666060100140 | ERX11 D.7 UP | 7 ÷ 6,5 | 7 | 11,5 | 18 | 8° | 1 | **20,25** |

## Pinza ERX16 UP ultra precisa, DIN 6499, metric, 426 E

PRECISIONE 0,004 mm



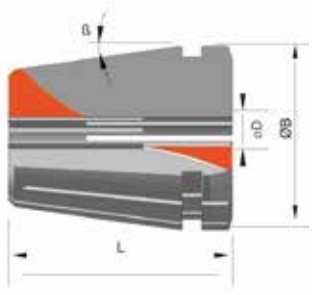



| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100142 | ERX16 D.1 UP | 1 ÷ 0,5 | 1 | 17 | 27,5 | 8° | 1 | **23,25** |
| MA6666060100143 | ERX16 D.1,5 UP | 1,5 ÷ 1 | 1,5 | 17 | 27,5 | 8° | 1 | **23,25** |
| MA6666060100144 | ERX16 D.2 UP | 2 ÷ 1,5 | 2 | 17 | 27,5 | 8° | 1 | **23,25** |
| MA6666060100145 | ERX16 D.2,5 UP | 2,5 ÷ 2 | 2,5 | 17 | 27,5 | 8° | 1 | **30,00** |
| MA6666060100146 | ERX16 D.3 UP | 3 ÷ 2 | 3 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100147 | ERX16 D.4 UP | 4 ÷ 3 | 4 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100148 | ERX16 D.5 UP | 5 ÷ 4 | 5 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100149 | ERX16 D.6 UP | 6 ÷ 5 | 6 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100150 | ERX16 D.7 UP | 7 ÷ 6 | 7 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100151 | ERX16 D.8 UP | 8 ÷ 7 | 8 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100152 | ERX16 D.9 UP | 9 ÷ 8 | 9 | 17 | 27,5 | 8° | 1 | **20,25** |
| MA6666060100153 | ERX16 D.10 UP | 10 ÷ 9 | 10 | 17 | 27,5 | 8° | 1 | **20,25** |

## Pinza ERX20 UP ultra precisa, DIN 6499, metric, 428 E

PRECISIONE 0,004 mm






| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100155 | ERX20 D.1 UP | 1 ÷ 0,5 | 1 | 21 | 31,5 | 8° | 1 | **23,25** |
| MA6666060100156 | ERX20 D.1,5 UP | 1,5 ÷ 1 | 1,5 | 21 | 31,5 | 8° | 1 | **23,25** |
| MA6666060100157 | ERX20 D.2 UP | 2 ÷ 1,5 | 2 | 21 | 31,5 | 8° | 1 | **23,25** |
| MA6666060100158 | ERX20 D.2,5 UP | 2,5 ÷ 2 | 2,5 | 21 | 31,5 | 8° | 1 | **23,25** |
| MA6666060100159 | ERX20 D.3 UP | 3 ÷ 2 | 3 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100160 | ERX20 D.4 UP | 4 ÷ 3 | 4 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100161 | ERX20 D.5 UP | 5 ÷ 4 | 5 | 21 | 31,5 | 8° | 1 | **20,25** |

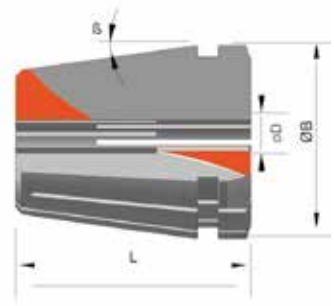
## Pinza ERX20 UP ultra precisa, DIN 6499, metric, 428 E

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100162 | ERX20 D.6 UP | 6 ÷ 5 | 6 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100163 | ERX20 D.7 UP | 7 ÷ 6 | 7 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100164 | ERX20 D.8 UP | 8 ÷ 7 | 8 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100165 | ERX20 D.9 UP | 9 ÷ 8 | 9 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100166 | ERX20 D.10 UP | 10 ÷ 9 | 10 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100167 | ERX20 D.11 UP | 11 ÷ 10 | 11 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100168 | ERX20 D.12 UP | 12 ÷ 11 | 12 | 21 | 31,5 | 8° | 1 | **20,25** |
| MA6666060100169 | ERX20 D.13 UP | 13 ÷ 12 | 13 | 21 | 31,5 | 8° | 1 | **20,25** |

## Pinza ERX25 UP ultra precisa, DIN 6499, metric, 430 E

PRECISIONE 0,004 mm



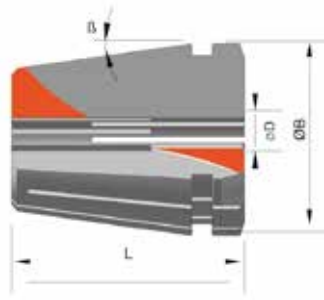



| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100171 | ERX25 D.1 UP | 1 ÷ 0,5 | 1 | 26 | 34 | 8° | 1 | **26,25** |
| MA6666060100172 | ERX25 D.1,5 UP | 1,5 ÷ 1 | 1,5 | 26 | 34 | 8° | 1 | **26,25** |
| MA6666060100173 | ERX25 D.2 UP | 2 ÷ 1,5 | 2 | 26 | 34 | 8° | 1 | **26,25** |
| MA6666060100174 | ERX25 D.2,5 UP | 2,5 ÷ 2 | 2,5 | 26 | 34 | 8° | 1 | **26,25** |
| MA6666060100175 | ERX25 D.3 UP | 3 ÷ 2 | 3 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100176 | ERX25 D.4 UP | 4 ÷ 3 | 4 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100177 | ERX25 D.5 UP | 5 ÷ 4 | 5 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100178 | ERX25 D.6 UP | 6 ÷ 5 | 6 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100179 | ERX25 D.7 UP | 7 ÷ 6 | 7 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100180 | ERX25 D.8 UP | 8 ÷ 7 | 8 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100181 | ERX25 D.9 UP | 9 ÷ 8 | 9 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100182 | ERX25 D.10 UP | 10 ÷ 9 | 10 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100183 | ERX25 D.11 UP | 11 ÷ 10 | 11 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100184 | ERX25 D.12 UP | 12 ÷ 11 | 12 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100185 | ERX25 D.13 UP | 13 ÷ 12 | 13 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100186 | ERX25 D.14 UP | 14 ÷ 13 | 14 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100187 | ERX25 D.15 UP | 15 ÷ 14 | 15 | 26 | 34 | 8° | 1 | **23,25** |
| MA6666060100188 | ERX25 D.16 UP | 16 ÷ 15 | 16 | 26 | 34 | 8° | 1 | **23,25** |

## Pinza ERX32 UP ultra precisa, DIN 6499, metric, 470 E

PRECISIONE 0,004 mm






| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100190 | ERX32 D.2 UP | 2 ÷ 1,5 | 2 | 33 | 40 | 8° | 1 | **26,25** |
| MA6666060100191 | ERX32 D.2,5 UP | 2,5 ÷ 2 | 2,5 | 33 | 40 | 8° | 1 | **26,25** |
| MA6666060100192 | ERX32 D.3 UP | 3 ÷ 2 | 3 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100193 | ERX32 D.4 UP | 4 ÷ 3 | 4 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100194 | ERX32 D.5 UP | 5 ÷ 4 | 5 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100195 | ERX32 D.6 UP | 6 ÷ 5 | 6 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100196 | ERX32 D.7 UP | 7 ÷ 6 | 7 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100197 | ERX32 D.8 UP | 8 ÷ 7 | 8 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100198 | ERX32 D.9 UP | 9 ÷ 8 | 9 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100199 | ERX32 D.10 UP | 10 ÷ 9 | 10 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100200 | ERX32 D.11 UP | 11 ÷ 10 | 11 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100201 | ERX32 D.12 UP | 12 ÷ 11 | 12 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100202 | ERX32 D.13 UP | 13 ÷ 12 | 13 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100203 | ERX32 D.14 UP | 14 ÷ 13 | 14 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100204 | ERX32 D.15 UP | 15 ÷ 14 | 15 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100205 | ERX32 D.16 UP | 16 ÷ 15 | 16 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100206 | ERX32 D.17 UP | 17 ÷ 16 | 17 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100207 | ERX32 D.18 UP | 18 ÷ 17 | 18 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100208 | ERX32 D.19 UP | 19 ÷ 18 | 19 | 33 | 40 | 8° | 1 | **21,75** |
| MA6666060100209 | ERX32 D.20 UP | 20 ÷ 19 | 20 | 33 | 40 | 8° | 1 | **21,75** |

## Serie pinze ERX.. UP ultra precise

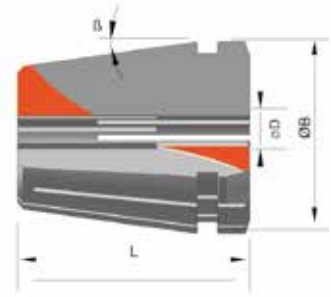


| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| MA6666060100141 | Serie in zoccolo di legno di 13 pinze ERX11 UP ultra precise.<br>Un pezzo per tipo Ø 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 | 1 | **285,00** |
| MA6666060100154 | Serie in zoccolo di legno di 10 pinze ERX16 UP ultra precise.<br>Un pezzo per tipo Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 | 1 | **240,00** |
| MA6666060100170 | Serie in zoccolo di legno di 13 pinze ERX20 UP ultra precise.<br>Un pezzo per tipo Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 | 1 | **240,00** |
| MA6666060100189 | Serie in zoccolo di legno di 15 pinze ERX25 UP ultra precise.<br>Un pezzo per tipo Ø 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 | 1 | **409,50** |
| MA6666060100210 | Serie in zoccolo di legno di 18 pinze ERX32 UP ultra precise.<br>Un pezzo per tipo Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11<br>12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 | 1 | **420,00** |

## Pinza ERX25 MP mega precisa 0,002 DIN6499, metric, 4008 E

PRECISIONE 0,002 mm



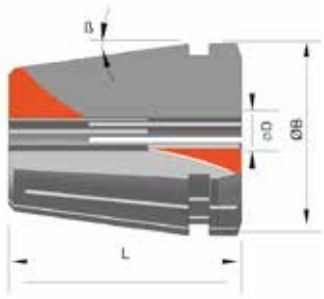



| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100728 | ERX 25 D.3 MP | 3 ÷ 2 | 3 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100729 | ERX 25 D.4 MP | 4 ÷ 3 | 4 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100730 | ERX 25 D.5 MP | 5 ÷ 4 | 5 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100731 | ERX 25 D.6 MP | 6 ÷ 5 | 6 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100732 | ERX 25 D.7 MP | 7 ÷ 6 | 7 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100733 | ERX 25 D.8 MP | 8 ÷ 7 | 8 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100734 | ERX 25 D.9 MP | 9 ÷ 8 | 9 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100735 | ERX 25 D.10 MP | 10 ÷ 9 | 10 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100736 | ERX 25 D.11 MP | 11 ÷ 10 | 11 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100737 | ERX 25 D.12 MP | 12 ÷ 11 | 12 | 26 | 34 | 8° | 1 | **60,00** |

## Pinza ERX25 MP mega precisa 0,002 DIN6499, metric, 4008 E

PRECISIONE 0,002 mm



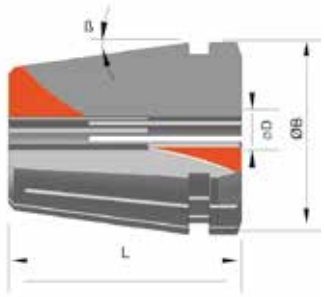



| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100738 | ERX 25 D.13 MP | 13 ÷ 12 | 13 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100739 | ERX 25 D.14 MP | 14 ÷ 13 | 14 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100740 | ERX 25 D.15 MP | 15 ÷ 14 | 15 | 26 | 34 | 8° | 1 | **60,00** |
| MA6666060100741 | ERX 25 D.16 MP | 16 ÷ 15 | 16 | 26 | 34 | 8° | 1 | **60,00** |

## Pinza ERX32 MP mega precisa 0,002 DIN6499, metric, 4008 E

PRECISIONE 0,002 mm






| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100700 | ERX 32 D.2 MP | 2 ÷ 1 | 2 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100701 | ERX 32 D.2,5 MP | 2,5 ÷ 2 | 2,5 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100702 | ERX 32 D.3 MP | 3 ÷ 2,5 | 3 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100703 | ERX 32 D.4 MP | 4 ÷ 3 | 4 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100704 | ERX 32 D.5 MP | 5 ÷ 4 | 5 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100705 | ERX 32 D.6 MP | 6 ÷ 5 | 6 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100706 | ERX 32 D.7 MP | 7 ÷ 6 | 7 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100707 | ERX 32 D.8 MP | 8 ÷ 7 | 8 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100708 | ERX 32 D.9 MP | 9 ÷ 8 | 9 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100709 | ERX 32 D.10 MP | 10 ÷ 9 | 10 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100710 | ERX 32 D.11 MP | 11 ÷ 10 | 11 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100711 | ERX 32 D.12 MP | 12 ÷ 13 | 12 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100712 | ERX 32 D.13 MP | 13 ÷ 12 | 13 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100713 | ERX 32 D.14 MP | 14 ÷ 13 | 14 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100714 | ERX 32 D.15 MP | 15 ÷ 14 | 15 | 33 | 40 | 8° | 1 | **60,00** |

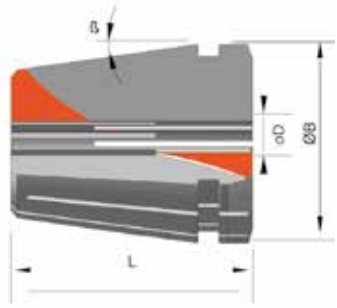
## Pinza ERX32 MP mega precisa 0,002 DIN6499, metric, 4008 E

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100715 | ERX 32 D.16 MP | 16 ÷ 15 | 16 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100716 | ERX 32 D.17 MP | 17 ÷ 16 | 17 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100717 | ERX 32 D.18 MP | 18 ÷ 17 | 18 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100718 | ERX 32 D.19 MP | 19 ÷ 18 | 19 | 33 | 40 | 8° | 1 | **60,00** |
| MA6666060100719 | ERX 32 D.20 MP | 20 ÷ 19 | 20 | 33 | 40 | 8° | 1 | **60,00** |

## Pinza ERX40 MP mega precisa 0,002 DIN6499, metric, 4008 E

PRECISIONE 0,002 mm



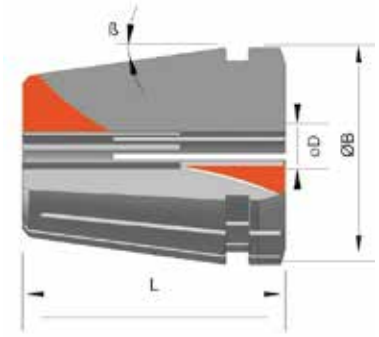



| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100742 | ERX 40 D.3 MP | 3 ÷ 2 | 3 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100743 | ERX 40 D.4 MP | 4 ÷ 3 | 4 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100744 | ERX 40 D.5 MP | 5 ÷ 4 | 5 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100745 | ERX 40 D.6 MP | 6 ÷ 5 | 6 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100746 | ERX 40 D.7 MP | 7 ÷ 6 | 7 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100747 | ERX 40 D.8 MP | 8 ÷ 7 | 8 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100748 | ERX 40 D.9 MP | 9 ÷ 8 | 9 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100749 | ERX 40 D.10 MP | 10 ÷ 9 | 10 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100750 | ERX 40 D.11 MP | 11 ÷ 10 | 11 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100751 | ERX 40 D.12 MP | 12 ÷ 11 | 12 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100752 | ERX 40 D.13 MP | 13 ÷ 12 | 13 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100753 | ERX 40 D.14 MP | 14 ÷ 13 | 14 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100754 | ERX 40 D.15 MP | 15 ÷ 14 | 15 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100755 | ERX 40 D.16 MP | 16 ÷ 15 | 16 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100756 | ERX 40 D.17 MP | 17 ÷ 16 | 17 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100757 | ERX 40 D.18 MP | 18 ÷ 17 | 18 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100758 | ERX 40 D.19 MP | 19 ÷ 20 | 19 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100759 | ERX 40 D.20 MP | 20 ÷ 19 | 20 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100760 | ERX 40 D.21 MP | 21 ÷ 20 | 21 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100761 | ERX 40 D.22 MP | 22 ÷ 21 | 22 | 41 | 46 | 8° | 1 | **66,75** |

## Pinza ERX40 MP mega precisa 0,002 DIN6499, metric, 4008 E

PRECISIONE 0,002 mm

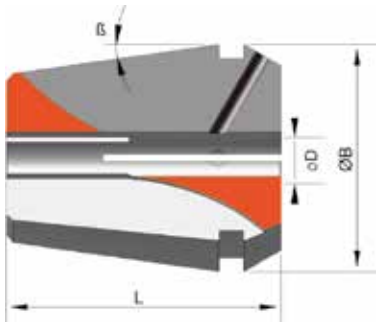





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100762 | ERX 40 D.23 MP | 23 ÷ 22 | 23 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100763 | ERX 40 D.24 MP | 24 ÷ 23 | 24 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100764 | ERX 40 D.25 MP | 25 ÷ 24 | 25 | 41 | 46 | 8° | 1 | **66,75** |
| MA6666060100765 | ERX 40 D.26 MP | 26 ÷ 25 | 26 | 41 | 46 | 8° | 1 | **66,75** |

## Pinza ERXG11 a tenuta del refrigerante, DIN 6499

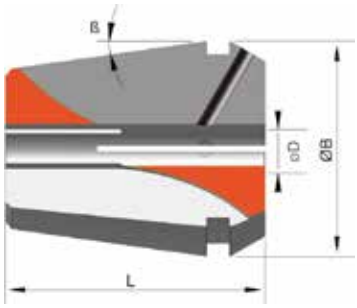





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100211 | ERXG11 D.3 | 3 | 3 | 11,5 | 18 | 8° | 1 | **48,00** |
| MA6666060100212 | ERXG11 D.4 | 4 | 4 | 11,5 | 18 | 8° | 1 | **48,00** |
| MA6666060100213 | ERXG11 D.5 | 5 | 5 | 11,5 | 18 | 8° | 1 | **48,00** |
| MA6666060100214 | ERXG11 D.6 | 6 | 6 | 11,5 | 18 | 8° | 1 | **48,00** |

## Pinza ERXG16 a tenuta del refrigerante, DIN 6499

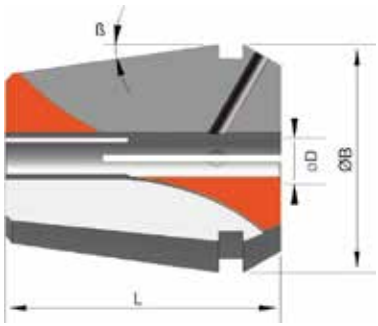





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100215 | ERXG16 D.3 | 3 | 3 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100216 | ERXG16 D.4 | 4 | 4 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100217 | ERXG16 D.5 | 5 | 5 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100218 | ERXG16 D.6 | 6 | 6 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100219 | ERXG16 D.8 | 8 | 8 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100220 | ERXG16 D.10 | 10 | 10 | 17 | 27,5 | 8° | 1 | **36,00** |

## Pinza ERXG20 a tenuta del refrigerante, DIN 6499

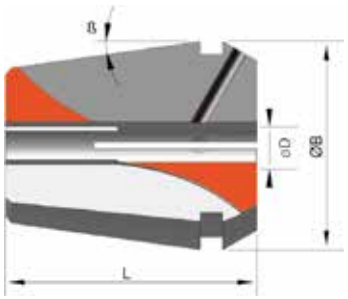





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100221 | ERXG20 D.3 | 3 | 3 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100222 | ERXG20 D.4 | 4 | 4 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100610 | ERXG20 D.5 | 5 | 5 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100223 | ERXG20 D.6 | 6 | 6 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100224 | ERXG20 D.7 | 7 | 7 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100225 | ERXG20 D.8 | 8 | 8 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100226 | ERXG20 D.9 | 9 | 9 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100227 | ERXG20 D.10 | 10 | 10 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100228 | ERXG20 D.11 | 11 | 11 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100229 | ERXG20 D.12 | 12 | 12 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100230 | ERXG20 D.13 | 13 | 13 | 21 | 31,5 | 8° | 1 | **36,00** |

## Pinza ERXG25 a tenuta del refrigerante, DIN 6499

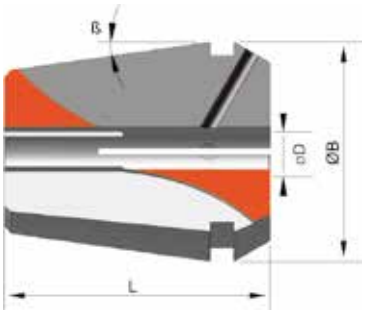





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100231 | ERXG25 D.3 | 3 | 3 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100232 | ERXG25 D.4 | 4 | 4 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100233 | ERXG25 D.6 | 6 | 6 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100234 | ERXG25 D.8 | 8 | 8 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100235 | ERXG25 D.10 | 10 | 10 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100236 | ERXG25 D.12 | 12 | 12 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100237 | ERXG25 D.14 | 14 | 14 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100238 | ERXG25 D.16 | 16 | 16 | 26 | 34 | 8° | 1 | **36,00** |

## Pinza ERXG32 a tenuta del refrigerante, DIN 6499





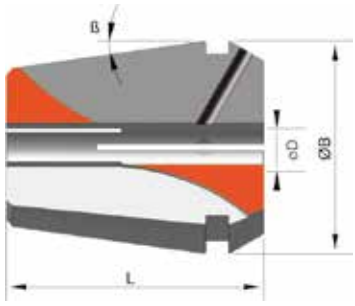

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100239 | ERXG32 D.3 | 3 | 3 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100240 | ERXG32 D.4 | 4 | 4 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100241 | ERXG32 D.5 | 5 | 5 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100242 | ERXG32 D.6 | 6 | 6 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100243 | ERXG32 D.7 | 7 | 7 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100244 | ERXG32 D.8 | 8 | 8 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100245 | ERXG32 D.9 | 9 | 9 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100246 | ERXG32 D.10 | 10 | 10 | 33 | 40 | 8° | 1 | **36,00** |

## Pinza ERXG32 a tenuta del refrigerante, DIN 6499

| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100247 | ERXG32 D.11 | 11 | 11 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100248 | ERXG32 D.12 | 12 | 12 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100249 | ERXG32 D.13 | 13 | 13 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100250 | ERXG32 D.14 | 14 | 14 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100251 | ERXG32 D.15 | 15 | 15 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100252 | ERXG32 D.16 | 16 | 16 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100253 | ERXG32 D.17 | 17 | 17 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100254 | ERXG32 D.18 | 18 | 18 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100255 | ERXG32 D.19 | 19 | 19 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100256 | ERXG32 D.20 | 20 | 20 | 33 | 40 | 8° | 1 | **36,00** |

## Pinza ERXG40 a tenuta del refrigerante, DIN 6499

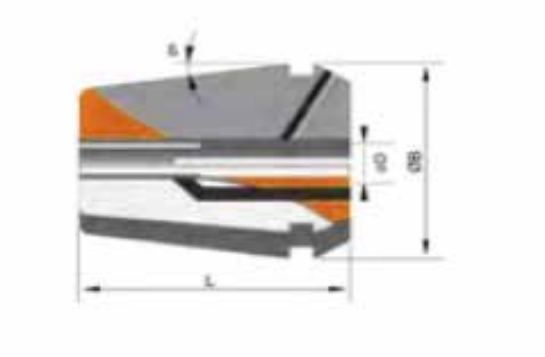





| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100257 | ERXG40 D.6 | 6 | 6 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100258 | ERXG40 D.8 | 8 | 8 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100259 | ERXG40 D.10 | 10 | 10 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100260 | ERXG40 D.12 | 12 | 12 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100261 | ERXG40 D.14 | 14 | 14 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100262 | ERXG40 D.16 | 16 | 16 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100263 | ERXG40 D.18 | 18 | 18 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100264 | ERXG40 D.20 | 20 | 20 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100265 | ERXG40 D.22 | 22 | 22 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100266 | ERXG40 D.25 | 25 | 25 | 41 | 46 | 8° | 1 | **45,00** |

## Pinza ERX16 JET a tenuta, con fori per refrigerante, DIN6499

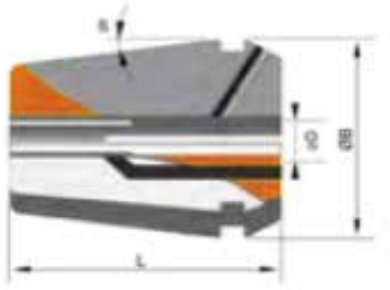




| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100766 | ERX16 D.3 JET | 3 | 3 | 17 | 27,5 | 8° | 1 | **50,25** |
| MA6666060100767 | ERX16 D.4 JET | 4 | 4 | 17 | 27,5 | 8° | 1 | **50,25** |
| MA6666060100768 | ERX16 D.5 JET | 5 | 5 | 17 | 27,5 | 8° | 1 | **50,25** |
| MA6666060100769 | ERX16 D.6 JET | 6 | 6 | 17 | 27,5 | 8° | 1 | **50,25** |
| MA6666060100770 | ERX16 D.7 JET | 7 | 7 | 17 | 27,5 | 8° | 1 | **50,25** |

## Pinza ERX20 JET a tenuta, con fori per refrigerante, DIN6499

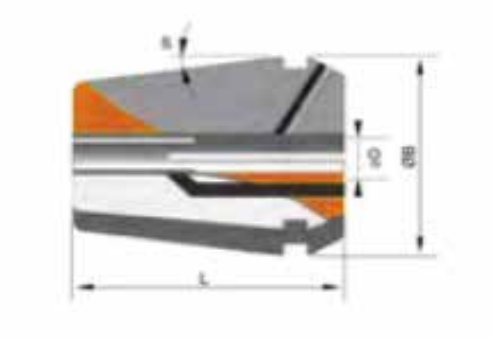




| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100771 | ERX20 D.4 JET | 4 | 4 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100772 | ERX20 D.5 JET | 5 | 5 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100773 | ERX20 D.6 JET | 6 | 6 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100774 | ERX20 D.7 JET | 7 | 7 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100775 | ERX20 D.8 JET | 8 | 8 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100776 | ERX20 D.9 JET | 9 | 9 | 21 | 31,5 | 8° | 1 | **50,25** |
| MA6666060100777 | ERX20 D.10 JET | 10 | 10 | 21 | 31,5 | 8° | 1 | **50,25** |

## Pinza ERX25 JET a tenuta, con fori per refrigerante, DIN6499

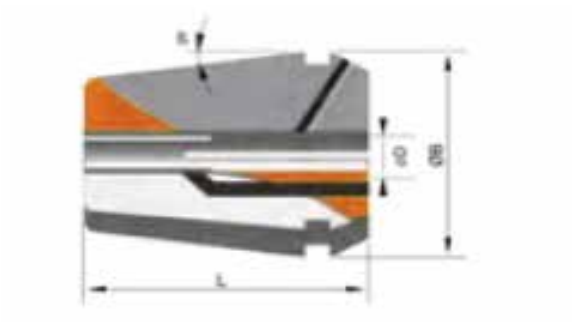




| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100778 | ERX25 D.3 JET | 3 | 3 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100779 | ERX25 D.4 JET | 4 | 4 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100780 | ERX25 D.5 JET | 5 | 5 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100781 | ERX25 D.6 JET | 6 | 6 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100782 | ERX25 D.7 JET | 7 | 7 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100783 | ERX25 D.8 JET | 8 | 8 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100784 | ERX25 D.9 JET | 9 | 9 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100785 | ERX25 D.10 JET | 10 | 10 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100786 | ERX25 D.11 JET | 11 | 11 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100787 | ERX25 D.12 JET | 12 | 12 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100788 | ERX25 D.13 JET | 13 | 13 | 26 | 34 | 8° | 1 | **53,25** |
| MA6666060100789 | ERX25 D.14 JET | 14 | 14 | 26 | 34 | 8° | 1 | **53,25** |

## Pinza ERX32 JET a tenuta, con fori per refrigerante, DIN6499

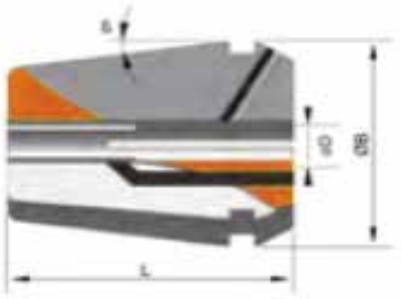




| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100790 | ERX32 D.3 JET | 3 | 3 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100791 | ERX32 D.4 JET | 4 | 4 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100792 | ERX32 D.5 JET | 5 | 5 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100793 | ERX32 D.6 JET | 6 | 6 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100794 | ERX32 D.7 JET | 7 | 7 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100795 | ERX32 D.8 JET | 8 | 8 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100796 | ERX32 D.9 JET | 9 | 9 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100797 | ERX32 D.10 JET | 10 | 10 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100798 | ERX32 D.11 JET | 11 | 11 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100799 | ERX32 D.12 JET | 12 | 12 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100800 | ERX32 D.13 JET | 13 | 13 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100801 | ERX32 D.14 JET | 14 | 14 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100802 | ERX32 D.15 JET | 15 | 15 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100803 | ERX32 D.16 JET | 16 | 16 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100804 | ERX32 D.17 JET | 17 | 17 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100805 | ERX32 D.18 JET | 18 | 18 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100806 | ERX32 D.19 JET | 19 | 19 | 33 | 40 | 8° | 1 | **53,25** |
| MA6666060100807 | ERX32 D.20 JET | 20 | 20 | 33 | 40 | 8° | 1 | **53,25** |

## Pinza ERX40 JET a tenuta, con fori per refrigerante, DIN6499

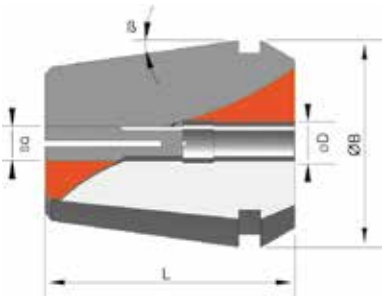




| Codice | Tipo | Capacità serraggio | D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100808 | ERX40 D.3 JET | 4 | 4 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100809 | ERX40 D.4 JET | 5 | 5 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100810 | ERX40 D.5 JET | 6 | 6 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100811 | ERX40 D.6 JET | 7 | 7 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100812 | ERX40 D.7 JET | 8 | 8 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100813 | ERX40 D.8 JET | 9 | 9 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100814 | ERX40 D.9 JET | 10 | 10 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100815 | ERX40 D.10 JET | 11 | 11 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100816 | ERX40 D.11 JET | 12 | 12 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100817 | ERX40 D.12 JET | 13 | 13 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100818 | ERX40 D.13 JET | 14 | 14 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100819 | ERX40 D.14 JET | 15 | 15 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100820 | ERX40 D.15 JET | 16 | 16 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100821 | ERX40 D.16 JET | 17 | 17 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100822 | ERX40 D.17 JET | 18 | 18 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100823 | ERX40 D.18 JET | 19 | 19 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100824 | ERX40 D.19 JET | 20 | 20 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100825 | ERX40 D.20 JET | 21 | 21 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100826 | ERX40 D.22 JET | 22 | 22 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100827 | ERX40 D.23 JET | 23 | 23 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100828 | ERX40 D.24 JET | 24 | 24 | 41 | 46 | 8° | 1 | **62,25** |
| MA6666060100829 | ERX40 D.25 JET | 25 | 25 | 41 | 46 | 8° | 1 | **62,25** |

## Pinza ERX16M portamaschi con quadro, DIN 6499

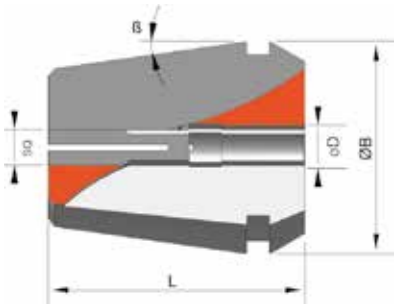





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100267 | ERX 16M D.3,5 | 3,5 | 2,7 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100268 | ERX 16M D.4 | 4 | 3 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100269 | ERX 16M D.4,5 | 4,5 | 3,4 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100270 | ERX 16M D.5 | 5 | 4 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100271 | ERX 16M D.5,5 | 5,5 | 4,3 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100272 | ERX 16M D.6 | 6 | 4,9 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100273 | ERX 16M D.6,3 | 6,3 | 5 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100274 | ERX 16M D.7 | 7 | 5,5 | 17 | 27,5 | 8° | 1 | **36,00** |
| MA6666060100275 | ERX 16M D.8 | 8 | 6,2 | 17 | 27,5 | 8° | 1 | **36,00** |

## Pinza ERX20M portamaschi con quadro, DIN 6499





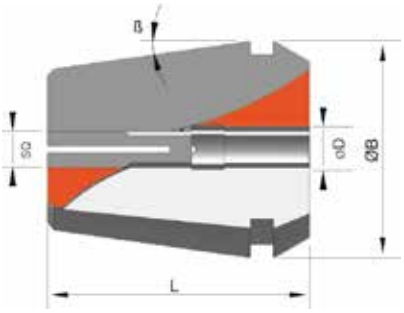

| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100276 | ERX 20M D.3,5 | 3,5 | 2,7 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100277 | ERX 20M D.4 | 4 | 3 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100278 | ERX 20M D.4,5 | 4,5 | 3,4 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100279 | ERX 20M D.5 | 5 | 4 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100280 | ERX 20M D.5,5 | 5,5 | 4,3 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100281 | ERX 20M D.6 | 6 | 4,9 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100282 | ERX 20M D.6,3 | 6,3 | 5 | 21 | 31,5 | 8° | 1 | **36,00** |

## Pinza ERX20M portamaschi con quadro, DIN 6499

| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100283 | ERX 20M D.7 | 7 | 5,5 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100284 | ERX 20M D.8 | 8 | 6,2 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100285 | ERX 20M D.9 | 9 | 7 | 21 | 31,5 | 8° | 1 | **36,00** |
| MA6666060100286 | ERX 20M D.10 | 10 | 8 | 21 | 31,5 | 8° | 1 | **36,00** |

## Pinza ERX25M portamaschi con quadro, DIN 6499

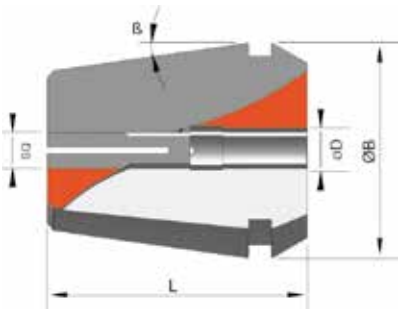





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100287 | ERX 25M D.3,5 | 3,5 | 2,7 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100288 | ERX 25M D.4 | 4 | 3 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100289 | ERX 25M D.4,5 | 4,5 | 3,4 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100290 | ERX 25M D.5 | 5 | 4 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100291 | ERX 25M D.5,5 | 5,5 | 4,3 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100292 | ERX 25M D.6 | 6 | 4,9 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100293 | ERX 25M D.6,3 | 6,3 | 5 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100294 | ERX 25M D.7 | 7 | 5,5 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100295 | ERX 25M D.8 | 8 | 6,2 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100296 | ERX 25M D.9 | 9 | 7 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100297 | ERX 25M D.10 | 10 | 8 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100298 | ERX 25M D.11 | 11 | 9 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100299 | ERX 25M D.11,2 | 11,2 | 9 | 26 | 34 | 8° | 1 | **36,00** |
| MA6666060100300 | ERX 25M D.12 | 12 | 9 | 26 | 34 | 8° | 1 | **36,00** |

## Pinza ERX32M portamaschi con quadro, DIN 6499

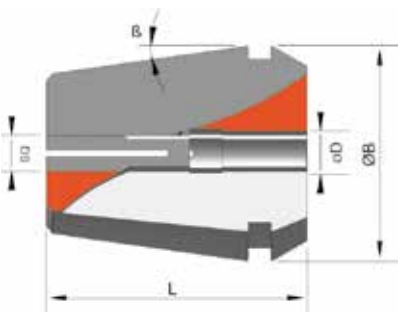





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100301 | ERX 32M D.3,5 | 3,5 | 2,7 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100302 | ERX 32M D.4 | 4 | 3 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100303 | ERX 32M D.4,5 | 4,5 | 3,4 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100304 | ERX 32M D.5 | 5 | 4 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100305 | ERX 32M D.5,5 | 5,5 | 4,3 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100306 | ERX 32M D.6 | 6 | 4,9 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100307 | ERX 32M D.6,3 | 6,3 | 5 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100308 | ERX 32M D.7 | 7 | 5,5 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100309 | ERX 32M D.8 | 8 | 6,2 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100310 | ERX 32M D.9 | 9 | 7 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100311 | ERX 32M D.10 | 10 | 8 | 33 | 40 | 8° | 1 | **36,00** |
| MA6666060100312 | ERX 32M D.11 | 11 | 9 | 33 | 40 | 8° | 1 | **36,00** |

## Pinza ERX40M portamaschi con quadro, DIN 6499





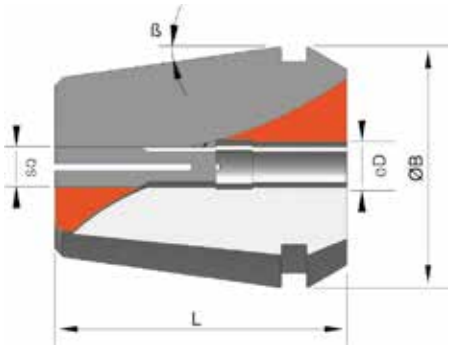

| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100313 | ERX 40M D.6 | 6 | 4,9 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100314 | ERX 40M D.7 | 7 | 5,5 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100315 | ERX 40M D.8 | 8 | 6,2 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100316 | ERX 40M D.9 | 9 | 7 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100317 | ERX 40M D.10 | 10 | 8 | 41 | 46 | 8° | 1 | **45,00** |

## Pinza ERX40M portamaschi con quadro, DIN 6499

| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100318 | ERX 40M D.11 | 11 | 9 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100319 | ERX 40M D.12 | 12 | 9 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100320 | ERX 40M D.14 | 14 | 11 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100321 | ERX 40M D.16 | 16 | 12 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100322 | ERX 40M D.18 | 18 | 14,5 | 41 | 46 | 8° | 1 | **45,00** |
| MA6666060100323 | ERX 40M D.20 | 20 | 16 | 41 | 46 | 8° | 1 | **45,00** |

## Pinza ERXG16M portamaschi con tenuta del refrigerante, DIN 6499

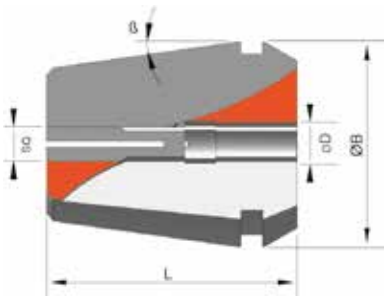





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100324 | ERXG 16M D.4 | 4 | 3 | 17 | 27,5 | 8° | 1 | **53,25** |
| MA6666060100325 | ERXG 16M D.4,5 | 4,5 | 3,4 | 17 | 27,5 | 8° | 1 | **53,25** |
| MA6666060100326 | ERXG 16M D.5 | 5 | 4 | 17 | 27,5 | 8° | 1 | **53,25** |
| MA6666060100327 | ERXG 16M D.5,5 | 5,5 | 4,3 | 17 | 27,5 | 8° | 1 | **53,25** |
| MA6666060100328 | ERXG 16M D.6 | 6 | 4,9 | 17 | 27,5 | 8° | 1 | **53,25** |
| MA6666060100329 | ERXG 16M D.7 | 7 | 5,5 | 17 | 27,5 | 8° | 1 | **53,25** |

## Pinza ERXG20M portamaschi con tenuta del refrigerante, DIN 6499

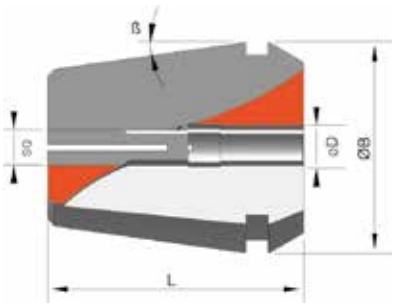





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100330 | ERXG 20M D.4 | 4 | 3 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100331 | ERXG 20M D.4,5 | 4,5 | 3,4 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100332 | ERXG 20M D.5 | 5 | 4 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100333 | ERXG 20M D.5,5 | 5,5 | 4,3 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100334 | ERXG 20M D.6 | 6 | 4,9 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100335 | ERXG 20M D.7 | 7 | 5,5 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100336 | ERXG 20M D.8 | 8 | 6,2 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100337 | ERXG 20M D.9 | 9 | 7 | 21 | 31,5 | 8° | 1 | **60,00** |
| MA6666060100338 | ERXG 20M D.10 | 10 | 8 | 21 | 31,5 | 8° | 1 | **60,00** |

## Pinza ERXG25M portamaschi con tenuta del refrigerante, DIN 6499

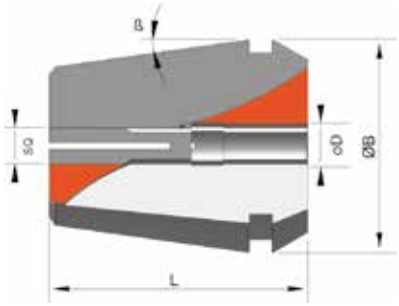





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100339 | ERXG 25M D.4 | 4 | 3 | 26 | 34 | 8° | 1 | **66,75** |
| MA6666060100340 | ERXG 25M D.4,5 | 4,5 | 3,4 | 26 | 34 | 8° | 1 | **66,75** |
| MA6666060100341 | ERXG 25M D.5 | 5 | 4 | 26 | 34 | 8° | 1 | **66,75** |
| MA6666060100342 | ERXG 25M D.5,5 | 5,5 | 4,3 | 26 | 34 | 8° | 1 | **66,75** |
| MA6666060100343 | ERXG 25M D.6 | 6 | 4,9 | 26 | 34 | 8° | 1 | **66,75** |
| MA6666060100344 | ERXG 25M D.7 | 7 | 5,5 | 26 | 34 | 8° | 1 | **66,75** |

## Pinza ERXG32M portamaschi con tenuta del refrigerante, DIN 6499

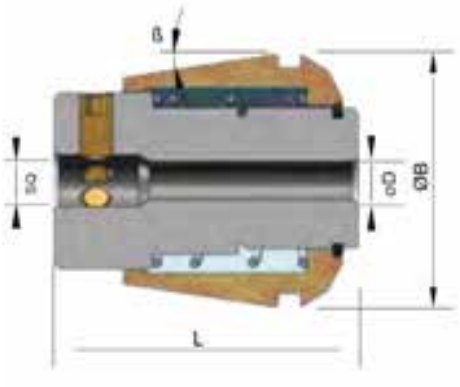





| Codice | Tipo | Gambo D | Quadro SQ | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MA6666060100345 | ERXG 32M D.4,5 | 4,5 | 3,4 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100346 | ERXG 32M D.5 | 5 | 4 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100347 | ERXG 32M D.5,5 | 5,5 | 4,3 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100348 | ERXG 32M D.6 | 6 | 4,9 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100349 | ERXG 32M D.7 | 7 | 5,5 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100350 | ERXG 32M D.8 | 8 | 6,2 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100351 | ERXG 32M D.9 | 9 | 7 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100352 | ERXG 32M D.10 | 10 | 8 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100353 | ERXG 32M D.11 | 11 | 9 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100354 | ERXG 32M D.12 | 12 | 9 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100355 | ERXG 32M D.14 | 14 | 11 | 33 | 40 | 8° | 1 | **66,75** |
| MA6666060100356 | ERXG 32M D.16 | 16 | 12 | 33 | 40 | 8° | 1 | **66,75** |

## Pinza portamaschi ERXM16 con compensazione assiale, DIN6499

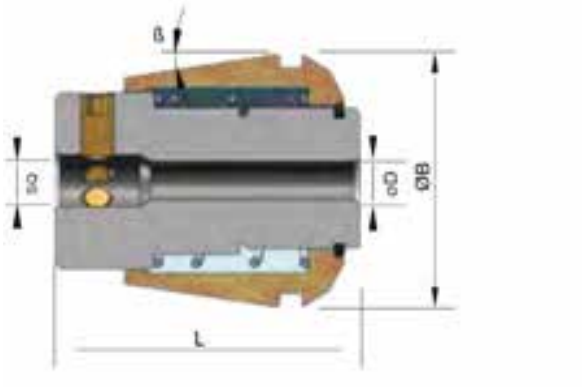





| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100830 | ERXM16 D.1,4 compensata | 1,4 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100831 | ERXM16 D.1,6 compensata | 1,6 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100832 | ERXM16 D.1,8 compensata | 1,8 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100833 | ERXM16 D.2 compensata | 2 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100834 | ERXM16 D.2,2 compensata | 2,2 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100835 | ERXM16 D.2,24 compensata | 2,24 | 17 | 28,5 | 8° | 1 | **150,00** |
| MA6666060100836 | ERXM16 D.2,5 compensata | 2,5 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100837 | ERXM16 D.2,8 compensata | 2,8 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100838 | ERXM16 D.3 compensata | 3 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100839 | ERXM16 D.3,15 compensata | 3,15 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100840 | ERXM16 D.3,5 compensata | 3,5 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100841 | ERXM16 D.4 compensata | 4 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100842 | ERXM16 D.4,5 compensata | 4,5 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100843 | ERXM16 D.5 compensata | 5 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100844 | ERXM16 D.5,5 compensata | 5,5 | 17 | 28,5 | 8° | 1 | **126,75** |
| MA6666060100845 | ERXM16 D.6 compensata | 6 | 17 | 28,5 | 8° | 1 | **126,75** |

## Pinza portamaschi ERXM20 con compensazione assiale, DIN6499

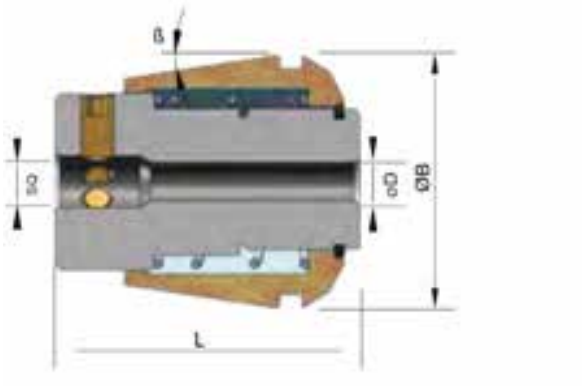





| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100846 | ERXM20 D.2,5 compensata | 2,5 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100847 | ERXM20 D.2,8 compensata | 2,8 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100848 | ERXM20 D.3 compensata | 3 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100849 | ERXM20 D.3,5 compensata | 3,5 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100850 | ERXM20 D.4 compensata | 4 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100851 | ERXM20 D.4,5 compensata | 4,5 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100852 | ERXM20 D.5 compensata | 5 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100853 | ERXM20 D.5,5 compensata | 5,5 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100854 | ERXM20 D.6 compensata | 6 | 21 | 32 | 8° | 1 | **126,75** |
| MA6666060100855 | ERXM20 D.7 compensata | 7 | 21 | 32 | 8° | 1 | **126,75** |

## Pinza portamaschi ERXM25 con compensazione assiale, DIN6499

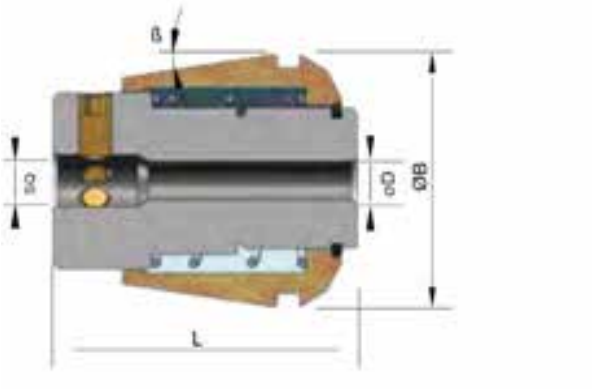





| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100856 | ERXM25 D.2,5 compensata | 2,5 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100857 | ERXM25 D.2,8 compensata | 2,8 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100858 | ERXM25 D.3 compensata | 3 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100859 | ERXM25 D.3,5 compensata | 3,5 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100860 | ERXM25 D.4 compensata | 4 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100861 | ERXM25 D.4,5 compensata | 4,5 | 26 | 34 | 8° | 1 | **132,75** |

## Pinza portamaschi ERXM25 con compensazione assiale, DIN6499

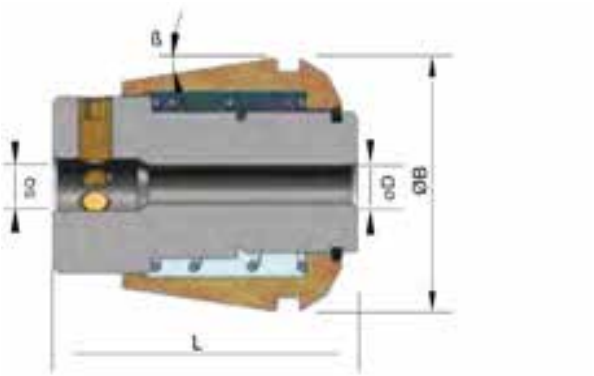





| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100862 | ERXM25 D.5 compensata | 5 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100863 | ERXM25 D.5,5 compensata | 5.5 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100864 | ERXM25 D.6 compensata | 6 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100865 | ERXM25 D.7 compensata | 7 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100866 | ERXM25 D.8 compensata | 8 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100867 | ERXM25 D.9 compensata | 9 | 26 | 34 | 8° | 1 | **132,75** |
| MA6666060100868 | ERXM25 D.10 compensata | 10 | 26 | 34 | 8° | 1 | **132,75** |

## Pinza portamaschi ERXM32 con compensazione assiale, DIN6499





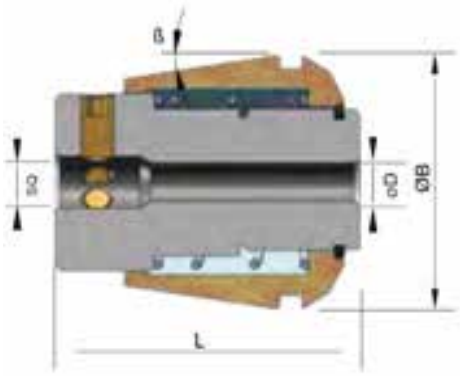

| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100869 | ERXM32 D.4 compensata | 4 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100870 | ERXM32 D.4,5 compensata | 4,5 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100871 | ERXM32 D.5 compensata | 5 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100872 | ERXM32 D.5,5 compensata | 5,5 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100873 | ERXM32 D.6 compensata | 6 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100874 | ERXM32 D.7 compensata | 7 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100875 | ERXM32 D.8 compensata | 8 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100876 | ERXM32 D.9 compensata | 9 | 33 | 43 | 8° | 1 | **132,75** |

## Pinza portamaschi ERXM32 con compensazione assiale, DIN6499

| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100877 | ERXM32 D.10 compensata | 10 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100878 | ERXM32 D.11 compensata | 11 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100879 | ERXM32 D.12 compensata | 12 | 33 | 43 | 8° | 1 | **132,75** |
| MA6666060100880 | ERXM32 D.12,5 compensata | 12,5 | 33 | 43 | 8° | 1 | **132,75** |

## Pinza portamaschi ERXM40 con compensazione assiale, DIN6499

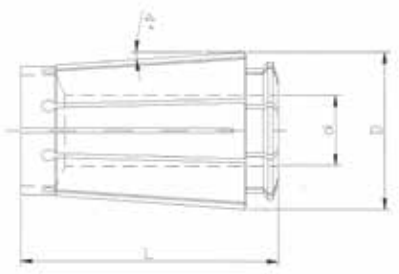





| Codice | Tipo | Gambo D | B | L | ß | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA6666060100881 | ERXM40 D.6 compensata | 6 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100882 | ERXM40 D.7 compensata | 7 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100883 | ERXM40 D.8 compensata | 8 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100884 | ERXM40 D.9 compensata | 9 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100885 | ERXM40 D.10 compensata | 10 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100886 | ERXM40 D.11 compensata | 11 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100887 | ERXM40 D.12 compensata | 12 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100888 | ERXM40 D.12,5 compensata | 12,5 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100889 | ERXM40 D.14 compensata | 14 | 41 | 54 | 8° | 1 | **183,75** |
| MA6666060100890 | ERXM40 D.16 compensata | 16 | 41 | 54 | 8° | 1 | **183,75** |

## Pinza HS10 UP ultra precisa, per mandrini ad alta precisione

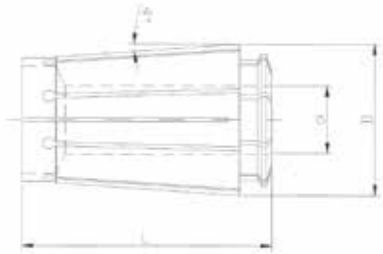




| Codice | Tipo | L | D | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100720 | HS10 D.3 UP | 54,3 | 28,5 | 3 | 1 | **60,00** |
| MA6666060100721 | HS10 D.4 UP | 54,3 | 28,5 | 4 | 1 | **60,00** |
| MA6666060100722 | HS10 D.5 UP | 54,3 | 28,5 | 5 | 1 | **60,00** |
| MA6666060100723 | HS10 D.6 UP | 54,3 | 28,5 | 6 | 1 | **60,00** |
| MA6666060100724 | HS10 D.7 UP | 54,3 | 28,5 | 7 | 1 | **60,00** |
| MA6666060100725 | HS10 D.8 UP | 54,3 | 28,5 | 8 | 1 | **60,00** |
| MA6666060100726 | HS10 D.9 UP | 54,3 | 28,5 | 9 | 1 | **60,00** |
| MA6666060100727 | HS10 D.10 UP | 54,3 | 28,5 | 10 | 1 | **60,00** |

## Pinza HS20 UP ultra precisa, per mandrini ad alta precisione





| Codice | Tipo | L | D | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100590 | HS20 D.3 UP | 54,3 | 28,5 | 3 | 1 | **73,50** |
| MA6666060100591 | HS20 D.4 UP | 54,3 | 28,5 | 4 | 1 | **73,50** |
| MA6666060100592 | HS20 D.5 UP | 54,3 | 28,5 | 5 | 1 | **73,50** |
| MA6666060100593 | HS20 D.6 UP | 54,3 | 28,5 | 6 | 1 | **73,50** |
| MA6666060100594 | HS20 D.7 UP | 54,3 | 28,5 | 7 | 1 | **73,50** |
| MA6666060100595 | HS20 D.8 UP | 54,3 | 28,5 | 8 | 1 | **73,50** |
| MA6666060100596 | HS20 D.9 UP | 54,3 | 28,5 | 9 | 1 | **73,50** |
| MA6666060100597 | HS20 D.10 UP | 54,3 | 28,5 | 10 | 1 | **73,50** |
| MA6666060100598 | HS20 D.11 UP | 54,3 | 28,5 | 11 | 1 | **73,50** |

## Pinza HS20 UP ultra precisa, per mandrini ad alta precisione

| Codice | Tipo | L | D | d | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100599 | HS20 D.12 UP | 54,3 | 28,5 | 12 | 1 | **73,50** |
| MA6666060100600 | HS20 D.13 UP | 54,3 | 28,5 | 13 | 1 | **73,50** |
| MA6666060100601 | HS20 D.14 UP | 54,3 | 28,5 | 14 | 1 | **73,50** |
| MA6666060100602 | HS20 D.15 UP | 54,3 | 28,5 | 15 | 1 | **73,50** |
| MA6666060100603 | HS20 D.16 UP | 54,3 | 28,5 | 16 | 1 | **73,50** |
| MA6666060100604 | HS20 D.17 UP | 54,3 | 28,5 | 17 | 1 | **73,50** |
| MA6666060100605 | HS20 D.18 UP | 54,3 | 28,5 | 18 | 1 | **73,50** |
| MA6666060100606 | HS20 D.19 UP | 54,3 | 28,5 | 19 | 1 | **73,50** |
| MA6666060100607 | HS20 D.20 UP | 54,3 | 28,5 | 20 | 1 | **73,50** |

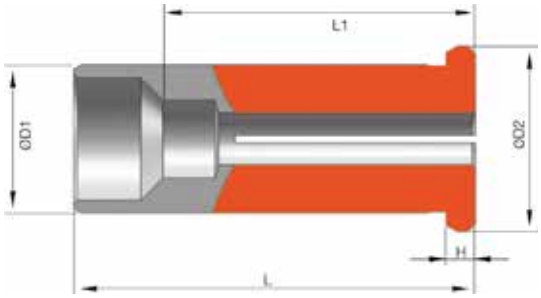
## Serie pinze HS20 UP ultra precise



| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| MA6666060100608 | Serie in cassetta di legno di 10 pinze HS20 UP ultra precise.<br>Un pezzo per tipo Ø 3 - 4 - 6 - 8 - 10 - 12 - 14 -16 - 18 - 20 | 1 | **720,00** |

## Pinza SR20 cilindrica per mandrini a forte serraggio

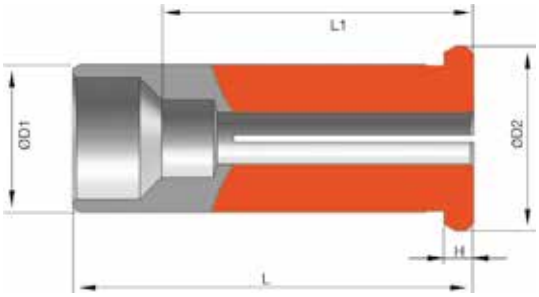





| Codice | Tipo | D1 | D2 | L1 | L | H | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060100357 | SR20-3 | 20 | 25 | 15 | 54 | 4 | 3 | 1 | **47,25** |
| MA6666060100358 | SR20-4 | 20 | 25 | 23 | 54 | 4 | 4 | 1 | **47,25** |
| MA6666060100359 | SR20-5 | 20 | 25 | 23 | 54 | 4 | 5 | 1 | **47,25** |
| MA6666060100360 | SR20-6 | 20 | 25 | 35 | 54 | 4 | 6 | 1 | **47,25** |
| MA6666060100361 | SR20-7 | 20 | 25 | 35 | 54 | 4 | 7 | 1 | **47,25** |
| MA6666060100362 | SR20-8 | 20 | 25 | 40 | 54 | 4 | 8 | 1 | **47,25** |
| MA6666060100363 | SR20-9 | 20 | 25 | 40 | 54 | 4 | 9 | 1 | **47,25** |
| MA6666060100364 | SR20-10 | 20 | 25 | 40 | 54 | 4 | 10 | 1 | **47,25** |
| MA6666060100365 | SR20-11 | 20 | 25 | 40 | 54 | 4 | 11 | 1 | **47,25** |
| MA6666060100366 | SR20-12 | 20 | 25 | 40 | 54 | 4 | 12 | 1 | **47,25** |
| MA6666060100367 | SR20-13 | 20 | 25 | 45 | 54 | 4 | 13 | 1 | **47,25** |
| MA6666060100368 | SR20-14 | 20 | 25 | 45 | 54 | 4 | 14 | 1 | **47,25** |
| MA6666060100369 | SR20-15 | 20 | 25 | 45 | 54 | 4 | 15 | 1 | **47,25** |
| MA6666060100370 | SR20-16 | 20 | 25 | 45 | 54 | 4 | 16 | 1 | **47,25** |
| MA6666060100371 | SR20-17 | 20 | 25 | 45 | 54 | 4 | 17 | 1 | **47,25** |
| MA6666060100372 | SR20-18 | 20 | 25 | 45 | 54 | 4 | 18 | 1 | **47,25** |

## Pinza SR32 cilindrica per mandrini a forte serraggio

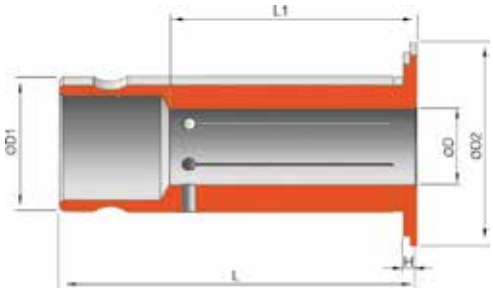





| Codice | Tipo | D1 | D2 | L1 | L | H | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060100373 | SR 32-6 | 32 | 36 | 36 | 63 | 3 | 6 | 1 | **57,00** |
| MA6666060100374 | SR 32-7 | 32 | 36 | 36 | 63 | 3 | 7 | 1 | **57,00** |
| MA6666060100375 | SR 32-8 | 32 | 36 | 36 | 63 | 3 | 8 | 1 | **57,00** |
| MA6666060100376 | SR 32-9 | 32 | 36 | 40 | 63 | 3 | 9 | 1 | **57,00** |
| MA6666060100377 | SR 32-10 | 32 | 36 | 40 | 63 | 3 | 10 | 1 | **57,00** |
| MA6666060100378 | SR 32-11 | 32 | 36 | 40 | 63 | 3 | 11 | 1 | **57,00** |
| MA6666060100379 | SR 32-12 | 32 | 36 | 45 | 63 | 3 | 12 | 1 | **57,00** |
| MA6666060100380 | SR 32-13 | 32 | 36 | 45 | 63 | 3 | 13 | 1 | **57,00** |
| MA6666060100381 | SR 32-14 | 32 | 36 | 45 | 63 | 3 | 14 | 1 | **57,00** |
| MA6666060100382 | SR 32-15 | 32 | 36 | 48 | 63 | 3 | 15 | 1 | **57,00** |
| MA6666060100383 | SR 32-16 | 32 | 36 | 48 | 63 | 3 | 16 | 1 | **57,00** |
| MA6666060100384 | SR 32-17 | 32 | 36 | 48 | 63 | 3 | 17 | 1 | **57,00** |
| MA6666060100385 | SR 32-18 | 32 | 36 | 48 | 63 | 3 | 18 | 1 | **57,00** |
| MA6666060100386 | SR 32-19 | 32 | 36 | 50 | 63 | 3 | 19 | 1 | **57,00** |
| MA6666060100387 | SR 32-20 | 32 | 36 | 50 | 63 | 3 | 20 | 1 | **57,00** |
| MA6666060100388 | SR 32-21 | 32 | 36 | 50 | 63 | 3 | 21 | 1 | **57,00** |
| MA6666060100389 | SR 32-22 | 32 | 36 | 50 | 63 | 3 | 22 | 1 | **57,00** |
| MA6666060100390 | SR 32-23 | 32 | 36 | 56 | 63 | 3 | 23 | 1 | **57,00** |
| MA6666060100391 | SR 32-24 | 32 | 36 | 56 | 63 | 3 | 24 | 1 | **57,00** |
| MA6666060100392 | SR 32-25 | 32 | 36 | 56 | 63 | 3 | 25 | 1 | **57,00** |

## Pinza ID12 cilindrica per mandrini idraulici

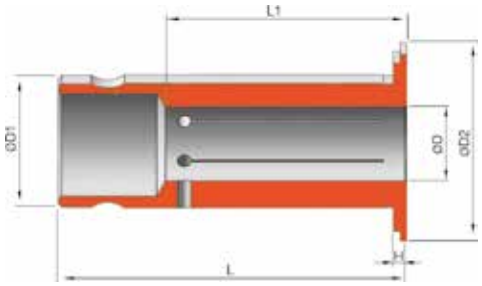





| Codice | Tipo | D1 | D2 | L1 | L | H | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060100393 | ID 12-3 | 12 | 20 | 16 | 47 | 2 | 3 | 1 | **111,00** |
| MA6666060100394 | ID 12-4 | 12 | 20 | 16 | 47 | 2 | 4 | 1 | **111,00** |
| MA6666060100395 | ID 12-5 | 12 | 20 | 16 | 47 | 2 | 5 | 1 | **111,00** |
| MA6666060100396 | ID 12-6 | 12 | 20 | 24 | 47 | 2 | 6 | 1 | **111,00** |
| MA6666060100397 | ID 12-7 | 12 | 20 | 24 | 47 | 2 | 7 | 1 | **111,00** |
| MA6666060100398 | ID 12-8 | 12 | 20 | 24 | 47 | 2 | 8 | 1 | **111,00** |

## Pinza ID20 cilindrica per mandrini idraulici





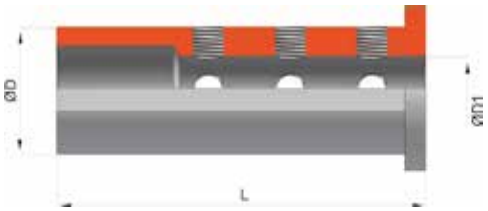

| Codice | Tipo | D1 | D2 | L1 | L | H | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060100399 | ID 20-3 | 20 | 30 | 15 | 52,5 | 2 | 3 | 1 | **111,00** |
| MA6666060100400 | ID 20-4 | 20 | 30 | 22 | 52,5 | 2 | 4 | 1 | **111,00** |
| MA6666060100401 | ID 20-5 | 20 | 30 | 22 | 52,5 | 2 | 5 | 1 | **111,00** |
| MA6666060100402 | ID 20-6 | 20 | 30 | 27 | 52,5 | 2 | 6 | 1 | **111,00** |
| MA6666060100403 | ID 20-7 | 20 | 30 | 27 | 52,5 | 2 | 7 | 1 | **111,00** |
| MA6666060100404 | ID 20-8 | 20 | 30 | 37,5 | 52,5 | 2 | 8 | 1 | **111,00** |
| MA6666060100405 | ID 20-9 | 20 | 30 | 37,5 | 52,5 | 2 | 9 | 1 | **111,00** |
| MA6666060100406 | ID 20-10 | 20 | 30 | 37,5 | 52,5 | 2 | 10 | 1 | **111,00** |
| MA6666060100407 | ID 20-11 | 20 | 30 | 37,5 | 52,5 | 2 | 11 | 1 | **111,00** |
| MA6666060100408 | ID 20-12 | 20 | 30 | 37,5 | 52,5 | 2 | 12 | 1 | **111,00** |

## Pinza ID20 cilindrica per mandrini idraulici

| Codice | Tipo | D1 | D2 | L1 | L | H | D | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060100409 | ID 20-13 | 20 | 30 | 37,5 | 52,5 | 2 | 13 | 1 | **111,00** |
| MA6666060100410 | ID 20-14 | 20 | 30 | 37,5 | 52,5 | 2 | 14 | 1 | **111,00** |
| MA6666060100411 | ID 20-15 | 20 | 30 | 37,5 | 52,5 | 2 | 15 | 1 | **111,00** |
| MA6666060100412 | ID 20-16 | 20 | 30 | 37,5 | 52,5 | 2 | 16 | 1 | **111,00** |
| MA6666060100413 | ID 20-17 | 20 | 30 | 37,5 | 52,5 | 2 | 17 | 1 | **111,00** |
| MA6666060100414 | ID 20-18 | 20 | 30 | 37,5 | 52,5 | 2 | 18 | 1 | **120,00** |

## Bussola di riduzione STD

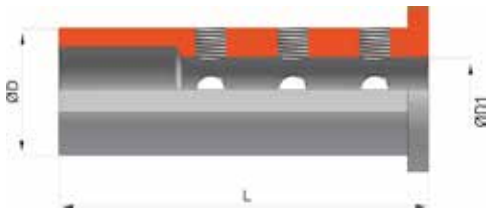





| Codice | Tipo | D | D1 | L | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100415 | STD20 D.6 L55 | 20 | 6 | 55 | 1 | **60,00** |
| MA6666060100416 | STD20 D.8 L55 | 20 | 8 | 55 | 1 | **60,00** |
| MA6666060100417 | STD20 D.10 L55 | 20 | 10 | 55 | 1 | **60,00** |
| MA6666060100418 | STD20 D.12 L55 | 20 | 12 | 55 | 1 | **60,00** |
| MA6666060100419 | STD20 D.16 L55 | 20 | 16 | 55 | 1 | **60,00** |
| MA6666060100420 | STD25 D.6 L65 | 25 | 6 | 65 | 1 | **60,00** |
| MA6666060100421 | STD25 D.8 L65 | 25 | 8 | 65 | 1 | **60,00** |
| MA6666060100422 | STD25 D.10 L65 | 25 | 10 | 65 | 1 | **60,00** |
| MA6666060100423 | STD25 D.12 L65 | 25 | 12 | 65 | 1 | **60,00** |
| MA6666060100424 | STD25 D.16 L65 | 25 | 16 | 65 | 1 | **60,00** |
| MA6666060100425 | STD25 D.20 L65 | 25 | 20 | 65 | 1 | **60,00** |
| MA6666060100426 | STD32 D.6 L90 | 32 | 6 | 90 | 1 | **67,50** |
| MA6666060100427 | STD32 D.8 L90 | 32 | 8 | 90 | 1 | **67,50** |
| MA6666060100428 | STD32 D.10 L90 | 32 | 10 | 90 | 1 | **67,50** |
| MA6666060100429 | STD32 D.12 L90 | 32 | 12 | 90 | 1 | **67,50** |
| MA6666060100430 | STD32 D.16 L90 | 32 | 16 | 90 | 1 | **67,50** |
| MA6666060100431 | STD32 D.20 L90 | 32 | 20 | 90 | 1 | **67,50** |
| MA6666060100432 | STD32 D.25 L90 | 32 | 25 | 90 | 1 | **67,50** |
| MA6666060100433 | STD40 D.8 L110 | 40 | 8 | 110 | 1 | **70,50** |
| MA6666060100434 | STD40 D.10 L110 | 40 | 10 | 110 | 1 | **70,50** |

## Bussola di riduzione STD

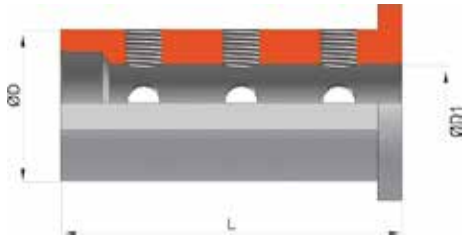





| Codice | Tipo | D | D1 | L | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100435 | STD40 D.12 L110 | 40 | 12 | 110 | 1 | **70,50** |
| MA6666060100436 | STD40 D.16 L110 | 40 | 16 | 110 | 1 | **70,50** |
| MA6666060100437 | STD40 D.20 L110 | 40 | 20 | 110 | 1 | **70,50** |
| MA6666060100438 | STD40 D.25 L110 | 40 | 25 | 110 | 1 | **70,50** |
| MA6666060100439 | STD40 D.32 L110 | 40 | 32 | 110 | 1 | **70,50** |
| MA6666060100440 | STD50 D.16 L130 | 50 | 16 | 130 | 1 | **102,00** |
| MA6666060100441 | STD50 D.20 L130 | 50 | 20 | 130 | 1 | **102,00** |
| MA6666060100442 | STD50 D.25 L130 | 50 | 25 | 130 | 1 | **102,00** |
| MA6666060100443 | STD50 D.32 L130 | 50 | 32 | 130 | 1 | **102,00** |
| MA6666060100444 | STD50 D.40 L130 | 50 | 40 | 130 | 1 | **102,00** |

## Bussola di riduzione, serie corta





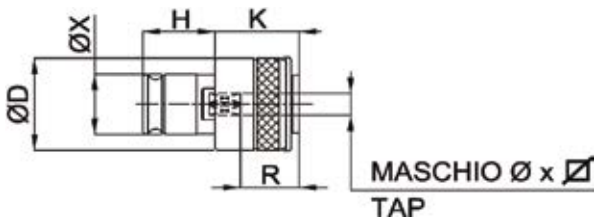

| Codice | Tipo | D | D1 | L | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100445 | D.32-6 L70 | 32 | 6 | 70 | 1 | **60,00** |
| MA6666060100446 | D.32-8 L70 | 32 | 8 | 70 | 1 | **60,00** |
| MA6666060100447 | D.32-10 L70 | 32 | 10 | 70 | 1 | **60,00** |
| MA6666060100448 | D.32-12 L70 | 32 | 12 | 70 | 1 | **60,00** |
| MA6666060100449 | D.32-16 L70 | 32 | 16 | 70 | 1 | **60,00** |
| MA6666060100450 | D.32-20 L70 | 32 | 20 | 70 | 1 | **70,50** |
| MA6666060100451 | D.32-25 L70 | 32 | 25 | 70 | 1 | **70,50** |
| MA6666060100452 | D.40-8 L80 | 40 | 8 | 80 | 1 | **70,50** |
| MA6666060100453 | D.40-10 L80 | 40 | 10 | 80 | 1 | **70,50** |
| MA6666060100454 | D.40-12 L80 | 40 | 12 | 80 | 1 | **70,50** |

## Bussola di riduzione, serie corta

| Codice | Tipo | D | D1 | L | | € / cad. |
|---|---|---|---|---|---|---|
| MA6666060100455 | D.40-16 L80 | 40 | 16 | 80 | 1 | **70,50** |
| MA6666060100456 | D.40-20 L80 | 40 | 20 | 80 | 1 | **60,00** |
| MA6666060100457 | D.40-25 L80 | 40 | 25 | 80 | 1 | **60,00** |
| MA6666060100458 | D.40-32 L80 | 40 | 32 | 80 | 1 | **60,00** |
| MA6666060100459 | D.50-16 L90 | 50 | 16 | 90 | 1 | **82,50** |
| MA6666060100460 | D.50-20 L90 | 50 | 20 | 90 | 1 | **82,50** |
| MA6666060100461 | D.50-25 L90 | 50 | 25 | 90 | 1 | **82,50** |
| MA6666060100462 | D.50-32 L90 | 50 | 32 | 90 | 1 | **82,50** |
| MA6666060100463 | D.50-40 L90 | 50 | 40 | 90 | 1 | **82,50** |

## Bussola di maschiatura con frizione, DIN, grandezza 0

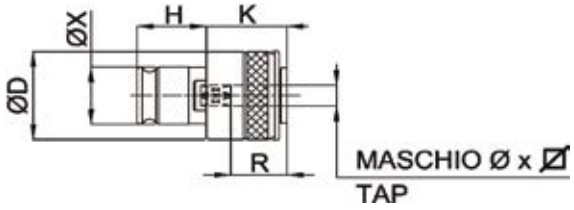





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | □ | M | Gambo | | € / cad. |
| MA6666060200518 | BUF0-2,8x2,1 M2 | 21 | 13 | 19,5 | 21 | 15 | 2,8 | 2,1 | 2 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200521 | BUF0-3,5x2,7 M3 | 21 | 13 | 19,5 | 21 | 15 | 3,5 | 2,7 | 3 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200523 | BUF0-4x3 M3,5 | 21 | 13 | 19,5 | 21 | 15 | 4 | 3 | 3,5 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200524 | BUF0-4,5x3,4 M4 | 21 | 13 | 19,5 | 21 | 15 | 4,5 | 3,4 | 4 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200526 | BUF0-6x4,9 M5 | 21 | 13 | 19,5 | 21 | 15 | 6 | 4,9 | 5 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200527 | BUF0-6x4,9 M6 | 21 | 13 | 19,5 | 21 | 15 | 6 | 4,9 | 6 | rinforzato DIN 317 | 1 | **75,75** |
| MA6666060200528 | BUF0-6x4,9 M8 | 21 | 13 | 19,5 | 21 | 15 | 6 | 4,9 | 8 | passante DIN 376 | 1 | **75,75** |
| MA6666060200529 | BUF0-7x5,5 M10 | 21 | 13 | 19,5 | 21 | 15 | 7 | 5,5 | 10 | passante DIN 376 | 1 | **75,75** |

## Bussola di maschiatura con frizione, DIN, grandezza 1

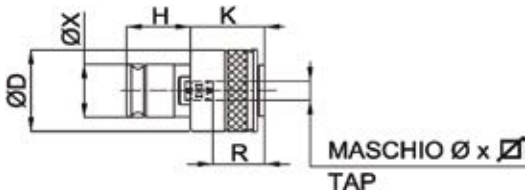





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | M | Gambo | | € / cad. |
| MA6666060200533 | BUF1-2,8x2,1 M2 | 32,5 | 19 | 21,5 | 25 | 17 | 2,8 | 2,1 | 2 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200535 | BUF1-2,8x2,1 M2,5 | 32,5 | 19 | 21,5 | 25 | 17 | 2,8 | 2,1 | 2,5 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200537 | BUF1-3,5x2,7 M3 | 32,5 | 19 | 21,5 | 25 | 17 | 3,5 | 2,7 | 3 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200539 | BUF1-4x3 M3,5 | 32,5 | 19 | 21,5 | 25 | 17 | 4 | 3 | 3,5 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200540 | BUF1-4,5x3,4 M4 | 32,5 | 19 | 21,5 | 25 | 17 | 4,5 | 3,4 | 4 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200542 | BUF1-6x4,9 M5 | 32,5 | 19 | 21,5 | 25 | 17 | 6 | 4,9 | 5 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200543 | BUF1-6x4,9 M6 | 32,5 | 19 | 21,5 | 25 | 17 | 6 | 4,9 | 6 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200544 | BUF1-6x4,9 M8 | 32,5 | 19 | 21,5 | 25 | 17 | 6 | 4,9 | 8 | passante DIN 376 | 1 | **71,10** |
| MA6666060200545 | BUF1-7x5,5 M10 | 32,5 | 19 | 21,5 | 25 | 17 | 7 | 5,5 | 10 | passante DIN 376 | 1 | **71,10** |
| MA6666060200546 | BUF1-8x6,2 M10 | 32,5 | 19 | 21,5 | 25 | 17 | 8 | 6,2 | 10 | passante DIN 376 | 1 | **71,10** |
| MA6666060200547 | BUF1-8x6,2 M8 | 32,5 | 19 | 21,5 | 25 | 17 | 8 | 6,2 | 8 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200548 | BUF1-9x7 M12 | 32,5 | 19 | 21,5 | 25 | 17 | 9 | 7 | 12 | passante DIN 376 | 1 | **71,10** |
| MA6666060200549 | BUF1-10x8 M10 | 32,5 | 19 | 21,5 | 25 | 17 | 10 | 8 | 10 | rinforzato DIN 317 | 1 | **71,10** |
| MA6666060200550 | BUF1-11x9 M14 | 32,5 | 19 | 21,5 | 25 | 17 | 11 | 9 | 14 | passante DIN 376 | 1 | **71,10** |

## Bussola di maschiatura con frizione, DIN, grandezza 2





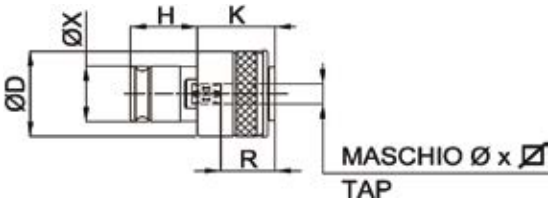

| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | M | Gambo | | € / cad. |
| MA6666060200552 | BUF2-6x4,9 M6 | 50,5 | 31 | 35 | 34 | 30 | 6 | 4,9 | 6 | rinforzato DIN 317 | 1 | **91,50** |
| MA6666060200553 | BUF2-6x4,9 M8 | 50,5 | 31 | 35 | 34 | 30 | 6 | 4,9 | 8 | passante DIN 376 | 1 | **91,50** |
| MA6666060200554 | BUF2-7x5,5 M10 | 50,5 | 31 | 35 | 34 | 30 | 7 | 5,5 | 10 | passante DIN 376 | 1 | **91,50** |
| MA6666060200555 | BUF2-8x6,2 M8 | 50,5 | 31 | 35 | 34 | 30 | 8 | 6,2 | 8 | rinforzato DIN 317 | 1 | **91,50** |
| MA6666060200556 | BUF2-8x6,2 M11 | 50,5 | 31 | 35 | 34 | 30 | 8 | 6,2 | 10 | passante DIN 376 | 1 | **91,50** |
| MA6666060200557 | BUF2-9x7 M12 | 50,5 | 31 | 35 | 34 | 30 | 9 | 7 | 11 | passante DIN 376 | 1 | **91,50** |

## Bussola di maschiatura con frizione, DIN, grandezza 2

| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | □ | M | Gambo | | € / cad. |
| MA6666060200558 | BUF2-10x8 M10 | 50,5 | 31 | 35 | 34 | 30 | 10 | 8 | 10 | rinforzato DIN 317 | 1 | **91,50** |
| MA6666060200559 | BUF2-11x9 M14 | 50,5 | 31 | 35 | 34 | 30 | 11 | 9 | 14 | passante DIN 376 | 1 | **91,50** |
| MA6666060200560 | BUF2-12x9 M16 | 50,5 | 31 | 35 | 34 | 30 | 12 | 9 | 16 | passante DIN 376 | 1 | **91,50** |
| MA6666060200561 | BUF2-14x11 M18 | 50,5 | 31 | 35 | 34 | 30 | 14 | 11 | 18 | passante DIN 376 | 1 | **91,50** |
| MA6666060200562 | BUF2-16x12 M20 | 50,5 | 31 | 35 | 34 | 30 | 16 | 12 | 20 | passante DIN 376 | 1 | **91,50** |
| MA6666060200564 | BUF2-18x14,5 M24 | 50,5 | 31 | 35 | 34 | 30 | 18 | 14,5 | 24 | passante DIN 376 | 1 | **91,50** |

## Bussola di maschiatura con frizione, DIN, grandezza 3

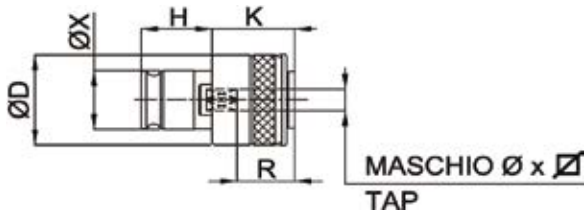





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | □ | M | Gambo | | € / cad. |
| MA6666060200565 | BUF3-11x9 M14 | 72 | 48 | 55,5 | 45 | 44 | 11 | 9 | 14 | passante DIN 376 | 1 | **213,30** |
| MA6666060200566 | BUF3-12x9 M16 | 72 | 48 | 55,5 | 45 | 44 | 12 | 9 | 16 | passante DIN 376 | 1 | **213,30** |
| MA6666060200567 | BUF3-14x11 M18 | 72 | 48 | 55,5 | 45 | 44 | 14 | 11 | 18 | passante DIN 376 | 1 | **213,30** |
| MA6666060200568 | BUF3-16x12 M20 | 72 | 48 | 55,5 | 45 | 44 | 16 | 12 | 20 | passante DIN 376 | 1 | **213,30** |
| MA6666060200569 | BUF3-18x14,5 M22 | 72 | 48 | 55,5 | 45 | 44 | 18 | 14,5 | 22 | passante DIN 376 | 1 | **213,30** |
| MA6666060200570 | BUF3-18x14,5 M24 | 72 | 48 | 55,5 | 45 | 44 | 18 | 14,5 | 24 | passante DIN 376 | 1 | **213,30** |
| MA6666060200571 | BUF3-20x16 M27 | 72 | 48 | 55,5 | 45 | 44 | 20 | 16 | 27 | passante DIN 376 | 1 | **213,30** |
| MA6666060200573 | BUF3-22x18 M30 | 72 | 48 | 55,5 | 45 | 44 | 22 | 18 | 30 | passante DIN 376 | 1 | **213,30** |
| MA6666060200574 | BUF3-25x20 M33 | 72 | 48 | 55,5 | 45 | 44 | 25 | 20 | 33 | passante DIN 376 | 1 | **213,30** |
| MA6666060200576 | BUF3-28x22 M36 | 72 | 48 | 55,5 | 45 | 44 | 28 | 22 | 36 | passante DIN 376 | 1 | **213,30** |

## Bussola di maschiatura con frizione, DIN, grandezza 4

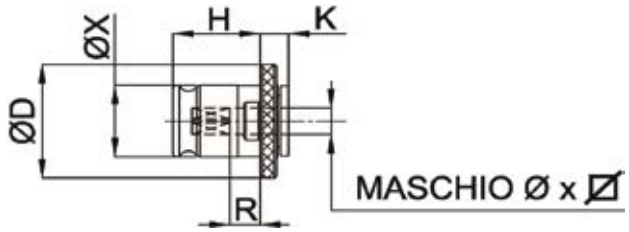





| | | | | | | MASCHIO | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | M | Gambo | | € / cad. |
| MA6666060200577 | BUF4-16x12 M20 | 95 | 60 | 62,8 | 68 | 71 | 16 | 12 | 20 | passante DIN 376 | 1 | **463,65** |
| MA6666060200578 | BUF4-18x14,5 M22 | 95 | 60 | 62,8 | 68 | 71 | 18 | 14,5 | 22 | passante DIN 376 | 1 | **351,00** |
| MA6666060200579 | BUF4-18x14,5 M24 | 95 | 60 | 62,8 | 68 | 71 | 18 | 14,5 | 24 | passante DIN 376 | 1 | **351,00** |
| MA6666060200580 | BUF4-20x16 M27 | 95 | 60 | 62,8 | 68 | 71 | 20 | 16 | 27 | passante DIN 376 | 1 | **351,00** |
| MA6666060200582 | BUF4-22x18 M30 | 95 | 60 | 62,8 | 68 | 71 | 22 | 18 | 30 | passante DIN 376 | 1 | **351,00** |
| MA6666060200583 | BUF4-25x20 M33 | 95 | 60 | 62,8 | 68 | 71 | 25 | 20 | 33 | passante DIN 376 | 1 | **351,00** |
| MA6666060200585 | BUF4-28x22 M36 | 95 | 60 | 62,8 | 68 | 71 | 28 | 22 | 36 | passante DIN 376 | 1 | **351,00** |
| MA6666060200586 | BUF4-32x24 M39 | 95 | 60 | 62,8 | 68 | 71 | 32 | 24 | 39 | passante DIN 376 | 1 | **351,00** |
| MA6666060200587 | BUF4-32x24 M42 | 95 | 60 | 62,8 | 68 | 71 | 32 | 24 | 42 | passante DIN 376 | 1 | **351,00** |
| MA6666060200588 | BUF4-36x29 M45 | 95 | 60 | 62,8 | 68 | 71 | 36 | 29 | 45 | passante DIN 376 | 1 | **351,00** |
| MA6666060200589 | BUF4-36x29 M48 | 95 | 60 | 62,8 | 68 | 71 | 36 | 29 | 48 | passante DIN 376 | 1 | **351,00** |

## Bussola per maschiatura rigida, DIN, grandezza 0

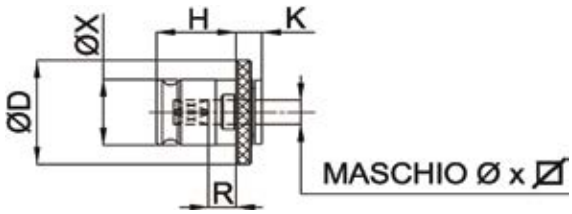





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | gambo rinforzato DIN 371 | gambo passante DIN 376 | | € / cad. |
| MA6666060200464 | BUR0-2,5x2,1 | 22 | 13 | 19,5 | 7 | 8 | 2,5 | 2,1 | M1,4 ÷ M1,8 | - | 1 | **28,50** |
| MA6666060200465 | BUR0-2,8x2,1 | 22 | 13 | 19,5 | 7 | 8 | 2,8 | 2,1 | M2 ÷ M2,6 | M4 | 1 | **28,50** |
| MA6666060200466 | BUR0-3,5x2,7 | 22 | 13 | 19,5 | 7 | 8 | 3,5 | 2,7 | M3 | M5 | 1 | **28,50** |
| MA6666060200468 | BUR0-4,5x3,4 | 22 | 13 | 19,5 | 7 | 8 | 4,5 | 3,4 | M4 | M6 | 1 | **28,50** |
| MA6666060200469 | BUR0-6x4,9 | 22 | 13 | 19,5 | 7 | 8 | 6 | 4,9 | M5 ÷ M6 | M8 | 1 | **28,50** |
| MA6666060200470 | BUR0-7x5,5 | 22 | 13 | 19,5 | 7 | 8 | 7 | 5,5 | M7 | M10 | 1 | **28,50** |
| MA6666060200471 | BUR0-8x6,2 | 22 | 13 | 19,5 | 7 | 8 | 8 | 6,2 | M8 | - | 1 | **28,50** |

## Bussola per maschiatura rigida, DIN, grandezza 1

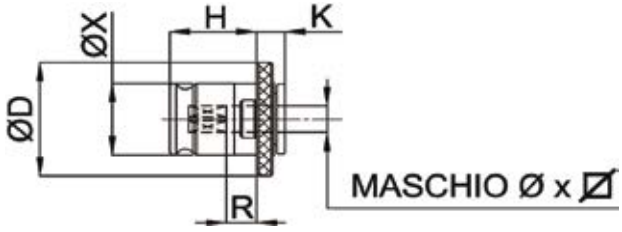





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | gambo rinforzato DIN 371 | gambo passante DIN 376 | | € / cad. |
| MA6666060200473 | BUR1-2,8x2,1 | 30 | 19 | 21,5 | 7 | 10 | 2,8 | 2,1 | M2 ÷ M2,6 | M4 | 1 | **25,35** |
| MA6666060200474 | BUR1-3,5x2,7 | 30 | 19 | 21,5 | 7 | 10 | 3,5 | 2,7 | M3 | M5 | 1 | **25,35** |
| MA6666060200475 | BUR1-4x3 | 30 | 19 | 21,5 | 7 | 10 | 4 | 3 | M3,5 | | 1 | **25,35** |
| MA6666060200476 | BUR1-4,5x3,4 | 30 | 19 | 21,5 | 7 | 10 | 4,5 | 3,4 | M4 | M6 | 1 | **25,35** |
| MA6666060200477 | BUR1-6x4,9 | 30 | 19 | 21,5 | 7 | 10 | 6 | 4,9 | M5 ÷ M6 | M8 | 1 | **25,35** |
| MA6666060200478 | BUR1-7x5,5 | 30 | 19 | 21,5 | 7 | 10 | 7 | 5,5 | M7 | M10 | 1 | **25,35** |
| MA6666060200479 | BUR1-8x6,2 | 30 | 19 | 21,5 | 7 | 10 | 8 | 6,2 | M8 | | 1 | **25,35** |
| MA6666060200480 | BUR1-9x7 | 30 | 19 | 21,5 | 7 | 10 | 9 | 7 | | M12 | 1 | **25,35** |
| MA6666060200481 | BUR1-10x8 | 30 | 19 | 21,5 | 7 | 10 | 10 | 8 | M10 | | 1 | **25,35** |
| MA6666060200482 | BUR1-11x9 | 30 | 19 | 21,5 | 7 | 10 | 11 | 9 | | M14 | 1 | **25,35** |

## Bussola per maschiatura rigida, DIN, grandezza 2

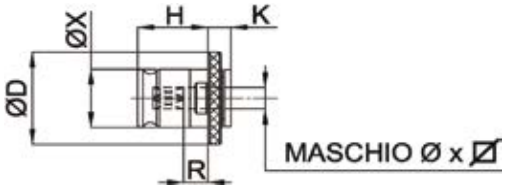





| | | | | | | | MASCHIO | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | ☐ | gambo rinforzato DIN 371 | gambo passante DIN 376 | | € / cad. |
| MA6666060200483 | BUR2-6x4,9 | 48 | 31 | 35 | 11 | 19 | 6 | 4,9 | M5 ÷ M6 | M8 | 1 | **33,00** |
| MA6666060200484 | BUR2-7x5,5 | 48 | 31 | 35 | 11 | 19 | 7 | 5,5 | M7 | M10 | 1 | **33,00** |
| MA6666060200485 | BUR2-8x6,2 | 48 | 31 | 35 | 11 | 19 | 8 | 6,2 | M8 | - | 1 | **33,00** |
| MA6666060200486 | BUR2-9x7 | 48 | 31 | 35 | 11 | 19 | 9 | 7 | - | M12 | 1 | **33,00** |
| MA6666060200487 | BUR2-10x8 | 48 | 31 | 35 | 11 | 19 | 10 | 8 | M10 | - | 1 | **33,00** |
| MA6666060200488 | BUR2-11x9 | 48 | 31 | 35 | 11 | 19 | 11 | 9 | - | M14 | 1 | **33,00** |
| MA6666060200489 | BUR2-12x9 | 48 | 31 | 35 | 11 | 19 | 12 | 9 | - | M16 | 1 | **33,00** |
| MA6666060200490 | BUR2-14x11 | 48 | 31 | 35 | 11 | 19 | 14 | 11 | - | M18 | 1 | **33,00** |
| MA6666060200491 | BUR2-16x12 | 48 | 31 | 35 | 11 | 19 | 16 | 12 | - | M20 | 1 | **33,00** |
| MA6666060200492 | BUR2-18x14,5 | 48 | 31 | 35 | 11 | 19 | 18 | 14,5 | - | M22 ÷ M24 | 1 | **33,00** |

## Bussola per maschiatura rigida, DIN, grandezza 3

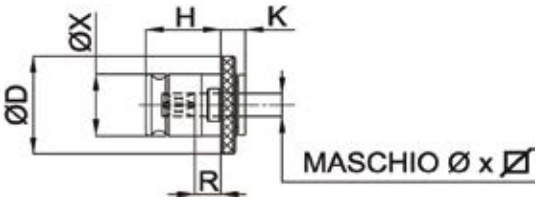





| | | | | | | | MASCHIO | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | □ | gambo passante DIN 376 | | € / cad. |
| MA6666060200493 | BUR3-11x9 | 70 | 48 | 55,5 | 14 | 30 | 11 | 9 | M14 | 1 | **101,10** |
| MA6666060200494 | BUR3-12x9 | 70 | 48 | 55,5 | 14 | 30 | 12 | 9 | M16 | 1 | **101,10** |
| MA6666060200495 | BUR3-14x11 | 70 | 48 | 55,5 | 14 | 30 | 14 | 11 | M18 | 1 | **101,10** |
| MA6666060200496 | BUR3-16x12 | 70 | 48 | 55,5 | 14 | 30 | 16 | 12 | M20 | 1 | **101,10** |
| MA6666060200497 | BUR3-18x14,5 | 70 | 48 | 55,5 | 14 | 30 | 18 | 14,5 | M22 ÷ M24 | 1 | **101,10** |
| MA6666060200498 | BUR3-20x16 | 70 | 48 | 55,5 | 14 | 30 | 20 | 16 | M27 | 1 | **101,10** |
| MA6666060200499 | BUR3-22x18 | 70 | 48 | 55,5 | 14 | 30 | 22 | 18 | M30 | 1 | **101,10** |
| MA6666060200500 | BUR3-25x20 | 70 | 48 | 55,5 | 14 | 30 | 25 | 20 | M33 | 1 | **101,10** |
| MA6666060200501 | BUR3-28x22 | 70 | 48 | 55,5 | 14 | 30 | 28 | 22 | M36 | 1 | **101,10** |

## Bussola per maschiatura rigida, DIN, grandezza 4

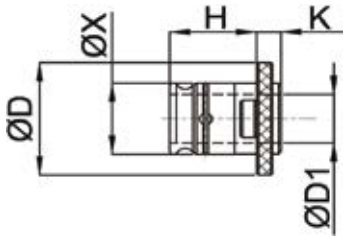





| | | | | | | | MASCHIO | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Codice | Tipo | D | X | H | K | R | Ø | □ | gambo passante DIN 376 | | € / cad. |
| MA6666060200503 | BUR4-18x14,5 | 90 | 62,8 | 60 | 42 | 29 | 18 | 14,5 | M22 ÷ M24 | 1 | **152,85** |
| MA6666060200504 | BUR4-20x16 | 90 | 62,8 | 60 | 42 | 29 | 20 | 16 | M27 | 1 | **152,85** |
| MA6666060200505 | BUR4-22x18 | 90 | 62,8 | 60 | 42 | 29 | 22 | 18 | M30 | 1 | **152,85** |
| MA6666060200506 | BUR4-25x20 | 90 | 62,8 | 60 | 42 | 29 | 25 | 20 | M33 | 1 | **152,85** |
| MA6666060200507 | BUR4-28x22 | 90 | 62,8 | 60 | 42 | 29 | 28 | 22 | M36 | 1 | **152,85** |
| MA6666060200508 | BUR4-32x24 | 90 | 62,8 | 60 | 42 | 29 | 32 | 24 | M39 ÷ M42 | 1 | **152,85** |
| MA6666060200509 | BUR4-36x29 | 90 | 62,8 | 60 | 42 | 29 | 36 | 29 | M45 ÷ M48 | 1 | **152,85** |

## Riduzione per bussole di maschiatura

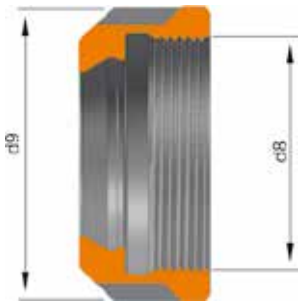





| Codice | Tipo | D | X | H | K | D1 | Tipo di riduzione | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| MA6666060200510 | BU 1/0 | 30 | 19 | 19,5 | 4 | 13 | 1 / 0 | 1 | **71,10** |
| MA6666060200512 | BU 2/1 | 48 | 31 | 35 | 5 | 19 | 2 / 1 | 1 | **71,10** |
| MA6666060200513 | BU 3/1 | 70 | 48 | 55,5 | 6 | 19 | 3 / 1 | 1 | **251,85** |
| MA6666060200514 | BU 3/2 | 70 | 48 | 55,5 | 6 | 31 | 3 / 2 | 1 | **251,85** |

## Ghiera bilanciata standard eccentrica






| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100001 | ERX16 standard | 32 | M22x1,5 | 1 ÷ 10 | 1 | **13,50** |
| MA7777070100002 | ERX20 standard | 35 | M25x1,5 | 1 ÷ 13 | 1 | **14,25** |
| MA7777070100003 | ERX25 standard | 42 | M32x1,5 | 1 ÷ 20 | 1 | **15,00** |
| MA7777070100004 | ERX32 standard | 50 | M40x1,5 | 2 ÷ 22 | 1 | **15,00** |
| MA7777070100005 | ERX40 standard | 63 | M50x1,5 | 3 ÷ 30 | 1 | **18,00** |

## Ghiera bilanciata tipo mini

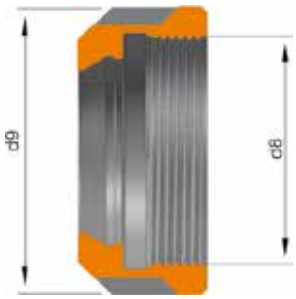





| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100006 | ERX8M mini | 12 | M10x0,75 | 1 ÷ 5 | 1 | **13,50** |
| MA7777070100007 | ERX11M mini | 16 | M13x0,75 | 1 ÷ 7 | 1 | **13,50** |
| MA7777070100008 | ERX16M mini | 22 | M19x1 | 1 ÷ 10 | 1 | **14,25** |
| MA7777070100009 | ERX20M mini | 28 | M24x1 | 1 ÷ 13 | 1 | **15,00** |
| MA7777070100010 | ERX25M mini | 35 | M30x1 | 1 ÷ 16 | 1 | **16,50** |

## Ghiera per alte velocità con estrazione concentrica






| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100011 | ERX16 concentrica | 32 | M22x1,5 | 1 ÷ 10 | 1 | **15,00** |
| MA7777070100012 | ERX20 concentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **15,00** |
| MA7777070100013 | ERX25 concentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **16,50** |
| MA7777070100014 | ERX32 concentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **16,50** |
| MA7777070100015 | ERX40 concentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **19,50** |

## Ghiera mini per alte velocità con estrazione concentrica

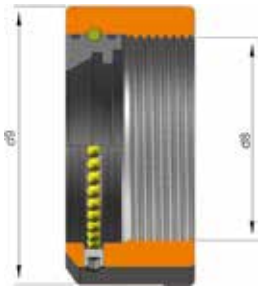





| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100016 | ERX16M concentrica mini | 22 | M19x1 | 1 ÷ 10 | 1 | **19,50** |
| MA7777070100017 | ERX20M concentrica mini | 28 | M24x1 | 1 ÷ 13 | 1 | **19,50** |
| MA7777070100018 | ERX25M concentrica mini | 35 | M30x1 | 1 ÷ 16 | 1 | **21,00** |

## Ghiera con cuscinetto a sfere, eccentrica

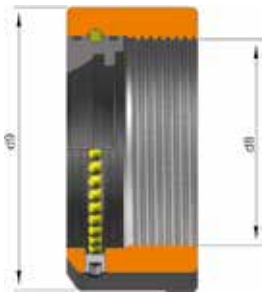




| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100030 | ERX16 a sfere, eccentrica | 32 | M22x1,5 | 1 ÷ 10 | 1 | **39,00** |
| MA7777070100031 | ERX20 a sfere, eccentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **39,00** |
| MA7777070100032 | ERX25 a sfere, eccentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **39,00** |
| MA7777070100033 | ERX32 a sfere, eccentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **39,00** |
| MA7777070100034 | ERX40 a sfere, eccentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **45,00** |

## Ghiera con cuscinetto a sfere, concentrica





| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100035 | ERX20 a sfere, concentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **43,50** |
| MA7777070100036 | ERX25 a sfere, concentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **43,50** |
| MA7777070100037 | ERX32 a sfere, concentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **43,50** |
| MA7777070100038 | ERX40 a sfere, concentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **48,00** |

## Ghiera senza tacche con cuscinetto a sfere, eccentrica

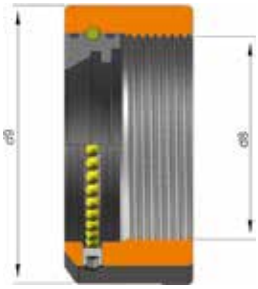




| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100039 | ERX16 a sfere, senza tacche, eccentrica | 32 | M22x1,5 | 1 ÷ 10 | 1 | **39,00** |
| MA7777070100040 | ERX20 a sfere, senza tacche, eccentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **39,00** |
| MA7777070100041 | ERX25 a sfere, senza tacche, eccentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **39,00** |
| MA7777070100042 | ERX32 a sfere, senza tacche, eccentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **39,00** |
| MA7777070100043 | ERX40 a sfere, senza tacche, eccentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **45,00** |

## Ghiera senza tacche con cuscinetto a sfere, concentrica

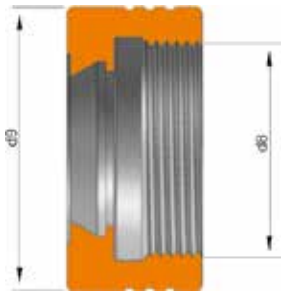




| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100044 | ERX16 a sfere, senza tacche, concentrica | 32 | M22x1,5 | 1 ÷ 10 | 1 | **31,50** |
| MA7777070100045 | ERX20 a sfere, senza tacche, concentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **43,50** |
| MA7777070100046 | ERX25 a sfere, senza tacche, concentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **43,50** |
| MA7777070100047 | ERX32 a sfere, senza tacche, concentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **43,50** |
| MA7777070100048 | ERX40 a sfere, senza tacche, concentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **48,00** |

## Ghiera senza tacche per alte velocità, eccentrica

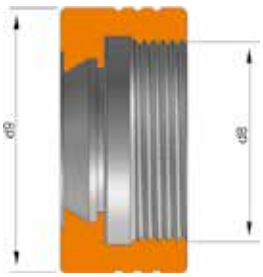




| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100050 | ERX16 senza tacche, alte velocità, eccentrica | 32 | M22x1,5 | 1 ÷ 10 | 1 | **18,00** |
| MA7777070100051 | ERX20 senza tacche, alte velocità, eccentrica | 35 | M25x1,5 | 1 ÷ 13 | 1 | **18,00** |
| MA7777070100052 | ERX25 senza tacche, alte velocità, eccentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **19,50** |
| MA7777070100053 | ERX32 senza tacche, alte velocità, eccentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **19,50** |
| MA7777070100054 | ERX40 senza tacche, alte velocità, eccentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **24,00** |

## Ghiera senza tacche per alte velocità, concentrica






| Codice | Tipo | d9 | d8-M | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100055 | ERX25 senza tacche, alte velocità, concentrica | 42 | M32x1,5 | 1 ÷ 20 | 1 | **19,50** |
| MA7777070100056 | ERX32 senza tacche, alte velocità, concentrica | 50 | M40x1,5 | 2 ÷ 22 | 1 | **19,50** |
| MA7777070100057 | ERX40 senza tacche, alte velocità, concentrica | 63 | M50x1,5 | 3 ÷ 30 | 1 | **24,00** |

## Ghiera con filetto esterno

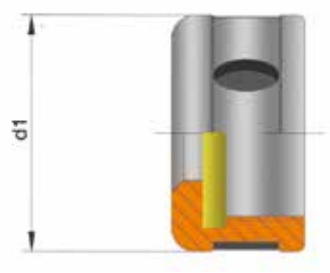





| Codice | Tipo | F-M | T | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100049 | ERX32A | M40x1,5 | 14 | 2 ÷ 20 | 1 | **25,50** |

## Ghiera bilanciata HS20 per alte velocità, per mandrini ad alta precisione

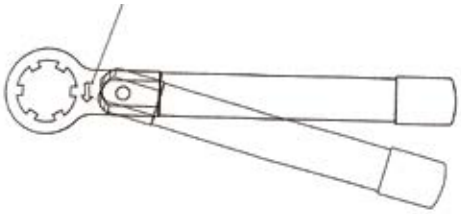





| Codice | Tipo | d1 | Capacità di serraggio | | € / cad. |
|---|---|---|---|---|---|
| MA7777070100080 | HS20 | 48,5 | 3 ÷ 20 | 1 | **36,00** |

## Chiave dinamometrica per ghiere mini ERX

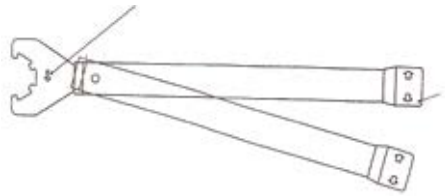




| Codice | Ghiera | Ø ghiera | Lunghezza chiave | Nm | | € / cad. |
|---|---|---|---|---|---|---|
| MA7777070100063 | ERX8M mini | 12 mm | 117 mm | 8 | 1 | **153,00** |
| MA7777070100064 | ERX11M mini | 16 mm | 120 mm | 18 | 1 | **153,00** |
| MA7777070100065 | ERX16M mini | 22 mm | 175 mm | 28 | 1 | **153,00** |
| MA7777070100066 | ERX20M mini | 28 mm | 180 mm | 35 | 1 | **168,00** |
| MA7777070100067 | ERX25M mini | 35 mm | 185 mm | 40 | 1 | **168,00** |

## Chiave dinamometrica per ghiere ERX standard, con due tarature

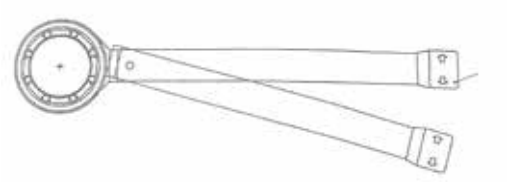




| Codice | Ghiera | Ø ghiera | Lunghezza chiave | Nm pinze scaricate | Nm pinze non scaricate | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA7777070100068 | ERX16 | 32 mm | 380 mm | 25 ÷ 35 | 45 ÷ 55 | 1 | **186,00** |
| MA7777070100069 | ERX20 | 35 mm | 380 mm | 30 ÷ 40 | 60 ÷ 70 | 1 | **186,00** |
| MA7777070100070 | ERX25 | 42 mm | 400 mm | 45 ÷ 55 | 80 ÷ 90 | 1 | **201,00** |
| MA7777070100071 | ERX32 | 50 mm | 400 mm | 65 ÷ 70 | 120 ÷ 130 | 1 | **201,00** |
| MA7777070100072 | ERX40 | 63 mm | 450 mm | 110 ÷ 120 | 190 ÷ 200 | 1 | **252,00** |

## Chiave dinamometrica con due tarature, per ghiere ERX senza tacche





| Codice | Ghiera | Ø ghiera | Lunghezza chiave | Nm pinze scaricate | Nm pinze non scaricate | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA7777070100058 | ERX16 | 32 mm | 380 mm | 25 ÷ 35 | 45 ÷ 55 | 1 | **186,00** |
| MA7777070100059 | ERX20 | 35 mm | 380 mm | 30 ÷ 40 | 60 ÷ 70 | 1 | **186,00** |
| MA7777070100060 | ERX25 | 42 mm | 400 mm | 45 ÷ 55 | 80 ÷ 90 | 1 | **201,00** |
| MA7777070100061 | ERX32 | 50 mm | 400 mm | 65 ÷ 70 | 120 ÷ 130 | 1 | **201,00** |
| MA7777070100062 | ERX40 | 63 mm | 450 mm | 110 ÷ 120 | 190 ÷ 200 | 1 | **252,00** |

## Chiave digitale dinamometrica 20-200 Nm



| Codice | Capacità | | € / cad. |
|---|---|---|---|
| MA7777070100083 | 20-200 Nm | 1 | **a richiesta** |

## Inserti per chiave dinamometrica



| Codice | Ghiera | | € / cad. |
|---|---|---|---|
| MA7777070100084 | ER16 mini | 1 | **a richiesta** |
| MA7777070100085 | ER20 mini | 1 | **a richiesta** |
| MA7777070100086 | ER25 mini | 1 | **a richiesta** |
| MA7777070100087 | ER16 esagonale | 1 | **a richiesta** |
| MA7777070100088 | ER20 esagonale | 1 | **a richiesta** |
| MA7777070100089 | ER25 standard | 1 | **a richiesta** |
| MA7777070100090 | ER32 standard | 1 | **a richiesta** |
| MA7777070100091 | ER40 standard | 1 | **a richiesta** |
| MA7777070100092 | ER32 senza tacche | 1 | **a richiesta** |

## Chiave di serraggio per ghiere ERX standard



| Codice | Ghiera | | € / cad. |
|---|---|---|---|
| MA7777070100024 | ERX16 | 1 | **14,25** |
| MA7777070100025 | ERX20 | 1 | **14,25** |
| MA7777070100026 | ERX25 | 1 | **15,00** |
| MA7777070100027 | ERX32 | 1 | **15,00** |
| MA7777070100028 | ERX40 | 1 | **21,75** |

## Chiave di serraggio per ghiere ERX mini



| Codice | Ghiera | | € / cad. |
|---|---|---|---|
| MA7777070100019 | ERX8M mini | 1 | **15,00** |
| MA7777070100020 | ERX11M mini | 1 | **15,00** |
| MA7777070100021 | ERX16M mini | 1 | **15,00** |
| MA7777070100022 | ERX20M mini | 1 | **15,00** |
| MA7777070100023 | ERX25M mini | 1 | **16,50** |

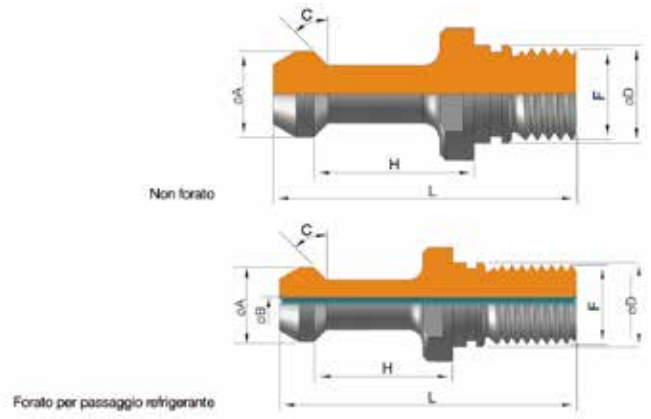
## Chiave di serraggio per ghiere HS20 ad alta precisione



| Codice | Ghiera | | € / cad. |
|---|---|---|---|
| MA7777070100073 | HS20 | 1 | **a richiesta** |

## Codolo di aggancio MAS403 BT

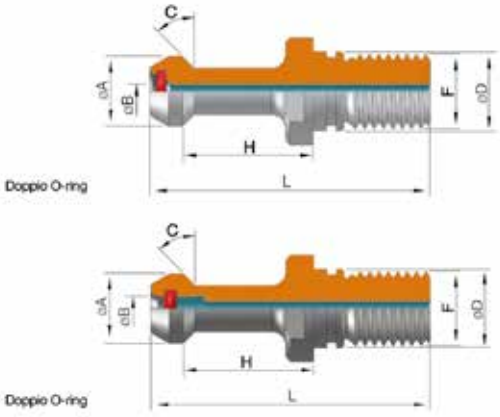





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100003 | non forato | 60 | 28 | 17 | M16 | 15 | 45° | - | BT40 | 1 | **12,15** |
| MA8888080100004 | non forato | 60 | 28 | 17 | M16 | 15 | 60° | - | BT40 | 1 | **12,15** |
| MA8888080100005 | non forato | 60 | 28 | 17 | M16 | 15 | 90° | - | BT40 | 1 | **12,15** |
| MA8888080100011 | forato | 60 | 28 | 17 | M16 | 15 | 45° | 3 | BT40 | 1 | **12,15** |
| MA8888080100012 | forato | 60 | 28 | 17 | M16 | 15 | 60° | 3 | BT40 | 1 | **12,15** |
| MA8888080100013 | forato | 60 | 28 | 17 | M16 | 15 | 90° | 3 | BT40 | 1 | **12,15** |

## Codolo di aggancio MAS403 BT, forato, con doppio O-ring per refrigerante ad alta pressione

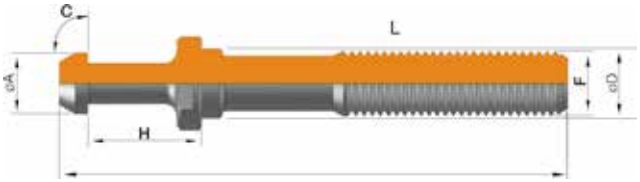





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100017 | forato | 60 | 28 | 17 | M16 | 15 | 45° | 3 | BT40 | 1 | **25,65** |
| MA8888080100018 | forato | 60 | 28 | 17 | M16 | 15 | 45° | 3 | BT40 | 1 | **32,40** |

## Codolo di aggancio MAS403 BT prolungato, per frese CM, non forato

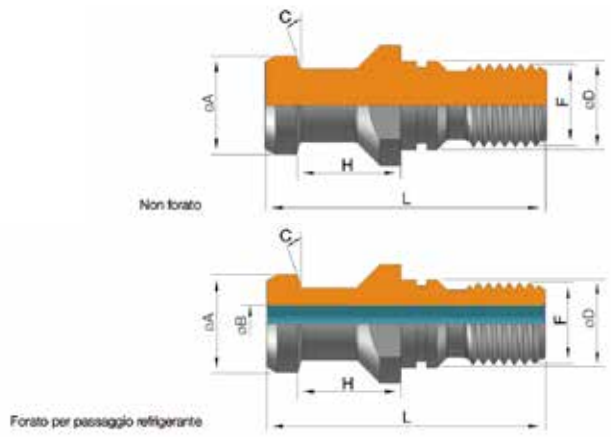





| Codice | Tipo | L | H | D | F | A | C | Attacco utensile | C.M. | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100022 | prolungato | 120 | 28 | 17 | M10 | 15 | 45° | BT40 | 2 | 1 | **a richiesta** |
| MA8888080100023 | prolungato | 120 | 28 | 17 | M12 | 15 | 45° | BT40 | 3 | 1 | **a richiesta** |
| MA8888080100024 | prolungato | 125 | 28 | 17 | M16 | 15 | 45° | BT40 | 4 | 1 | **a richiesta** |
| MA8888080100025 | prolungato | 120 | 28 | 17 | M10 | 15 | 60° | BT40 | 2 | 1 | **a richiesta** |
| MA8888080100026 | prolungato | 120 | 28 | 17 | M12 | 15 | 60° | BT40 | 3 | 1 | **a richiesta** |
| MA8888080100027 | prolungato | 125 | 28 | 17 | M16 | 15 | 60° | BT40 | 4 | 1 | **a richiesta** |
| MA8888080100028 | prolungato | 120 | 28 | 17 | M10 | 15 | 90° | BT40 | 2 | 1 | **a richiesta** |
| MA8888080100029 | prolungato | 120 | 28 | 17 | M12 | 15 | 90° | BT40 | 3 | 1 | **a richiesta** |
| MA8888080100030 | prolungato | 125 | 28 | 17 | M16 | 15 | 90° | BT40 | 4 | 1 | **a richiesta** |

## Codolo di aggancio DIN69872, forma A

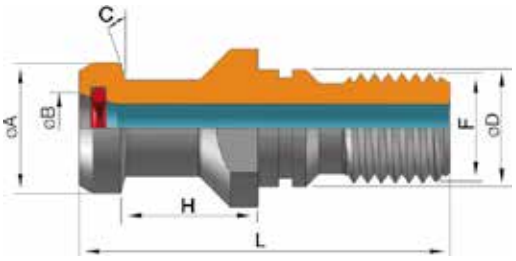





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100035 | non forato | 54 | 20 | 17 | M16 | 19 | 15° | - | DIN 40 | 1 | **12,15** |
| MA8888080100036 | non forato | 74 | 25 | 25 | M24 | 28 | 15° | - | DIN 50 | 1 | **17,55** |
| MA8888080100032 | forato | 54 | 20 | 17 | M16 | 19 | 15° | 7 | DIN 40 | 1 | **12,15** |
| MA8888080100033 | forato | 74 | 25 | 25 | M24 | 28 | 15° | 11,5 | DIN 50 | 1 | **17,55** |

## Codolo di aggancio DIN69872, forma A, forato, con doppio O-ring per refrigerante ad alta pressione

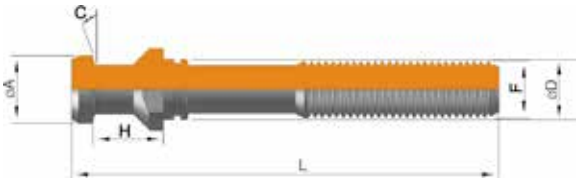





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100039 | forato | 54 | 20 | 17 | M16 | 19 | 15° | 7 | DIN 40 | 1 | **21,60** |
| MA8888080100040 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 7 | DIN 40 | 1 | **21,60** |
| MA8888080100041 | forato | 74 | 25 | 25 | M24 | 28 | 15° | 11,5 | DIN 50 | 1 | **29,70** |

## Codolo di aggancio DIN69872, forma A, prolungato, per frese CM, non forato

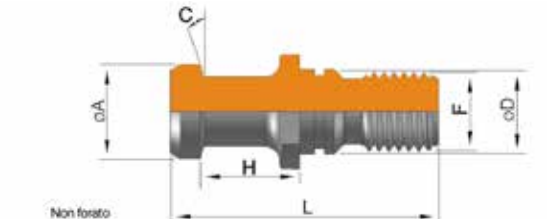


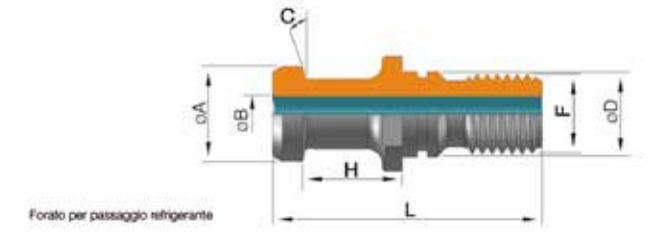



| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100042 | prolungato | 111 | 20 | 17 | M10 | 19 | 15° | DIN 40 | 2 | 1 | **a richiesta** |
| MA8888080100043 | prolungato | 116 | 20 | 17 | M12 | 19 | 15° | DIN 40 | 3 | 1 | **a richiesta** |
| MA8888080100044 | prolungato | 121 | 20 | 17 | M16 | 19 | 15° | DIN 40 | 4 | 1 | **a richiesta** |

## Codolo di aggancio DIN7388/2, forma A



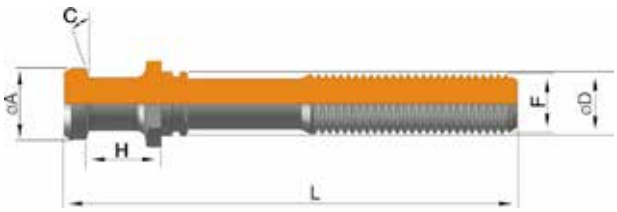



| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100049 | non forato | 54 | 20 | 17 | M16 | 19 | 15° | - | DIN 40 | 1 | **12,15** |
| MA8888080100050 | non forato | 74 | 25 | 25 | M24 | 28 | 15° | - | DIN 50 | 1 | **17,55** |
| MA8888080100046 | forato | 54 | 20 | 17 | M16 | 19 | 15° | 7 | DIN 40 | 1 | **12,15** |
| MA8888080100047 | forato | 74 | 25 | 25 | M24 | 28 | 15° | 11,5 | DIN 50 | 1 | **17,55** |

## Codolo di aggancio DIN7388/2, forma A, prolungato

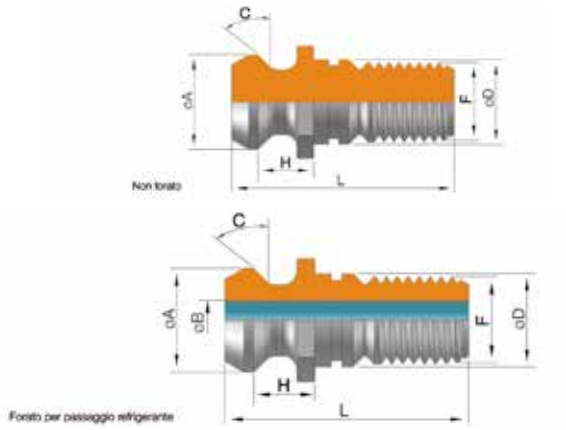





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100051 | prolungato, non forato | 111 | 20 | 17 | M10 | 19 | 15° | DIN 40 | 2 | 1 | **a richiesta** |
| MA8888080100052 | prolungato, non forato | 116 | 20 | 17 | M12 | 19 | 15° | DIN 40 | 3 | 1 | **a richiesta** |
| MA8888080100053 | prolungato, non forato | 121 | 20 | 17 | M16 | 19 | 15° | DIN 40 | 4 | 1 | **a richiesta** |

## Codolo di aggancio DIN7388/2, forma B

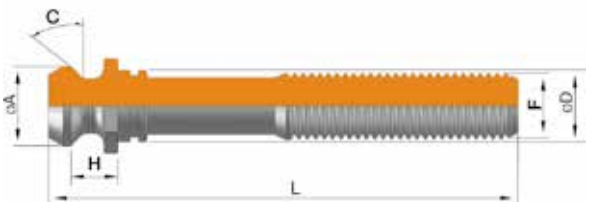





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100058 | non forato | 44,5 | 11,15 | 17 | M16 | 18,95 | 45° | - | DIN 40 | 1 | **12,15** |
| MA8888080100059 | non forato | 65,5 | 17,95 | 25 | M24 | 29,1 | 45° | - | DIN 50 | 1 | **17,55** |
| MA8888080100055 | forato | 44,5 | 11,15 | 17 | M16 | 18,95 | 45° | 7 | DIN 40 | 1 | **12,15** |
| MA8888080100056 | forato | 66,5 | 17,95 | 25 | M24 | 29,1 | 45° | 11,5 | DIN 50 | 1 | **17,55** |

## Codolo di aggancio DIN7388/2, forma B, prolungato

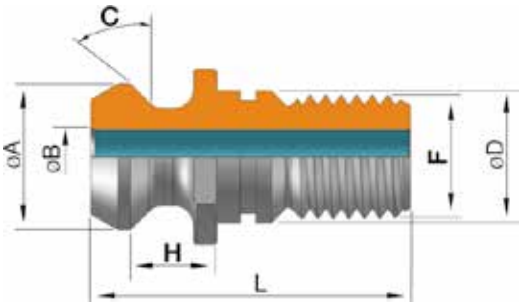





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100060 | prolungato, non forato | 101,4 | 11,15 | 17 | M10 | 18,95 | 15° | DIN 40 | 2 | 1 | **a richiesta** |
| MA8888080100061 | prolungato, non forato | 106,4 | 11,15 | 17 | M12 | 18,95 | 15° | DIN 40 | 3 | 1 | **a richiesta** |
| MA8888080100062 | prolungato, non forato | 111,4 | 11,15 | 17 | M16 | 18,95 | 15° | DIN 40 | 4 | 1 | **a richiesta** |

## Codolo di aggancio CAT METRIC

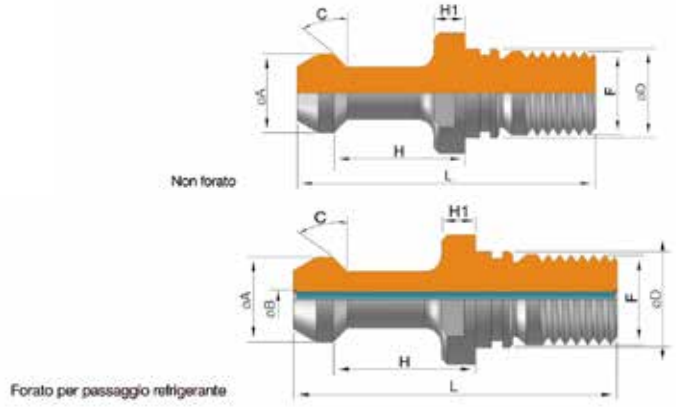





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100066 | non forato | 41,25 | 11,17 | 17 | M16 | 18,,8 | 45° | - | DIN 40 | 1 | **13,50** |
| MA8888080100067 | non forato | 44,1 | 14,02 | 17 | M16 | 18,8 | 45° | - | BT40 | 1 | **17,55** |
| MA8888080100070 | forato | 41,25 | 11,17 | 17 | M16 | 18,8 | 45° | 7 | DIN 40 | 1 | **13,50** |
| MA8888080100071 | forato | 44,1 | 14,02 | 17 | M16 | 18,8 | 45° | 7 | BT40 | 1 | **17,55** |
| MA8888080100069 | forato | 65,4 | 17,78 | 25 | M24 | 28,95 | 45° | 10 | DIN 50 | 1 | **24,30** |

## Codolo di aggancio HURCO

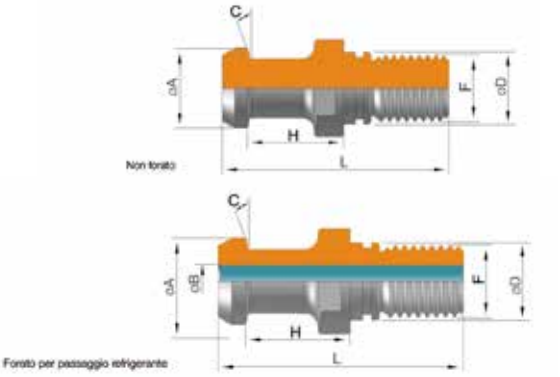





| Codice | Tipo | L | H | D | F | A | C | B | H1 | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100077 | non forato | 57,15 | 25,15 | 17 | M16 | 15 | 45° | - | 6 | BT40 | 1 | **12,15** |
| MA8888080100078 | non forato | 57,15 | 25,15 | 17 | M16 | 15 | 45° | - | 3 | BT40 | 1 | **20,25** |
| MA8888080100079 | non forato | 57,15 | 25,15 | 17 | M16 | 15 | 60° | - | 6 | BT40 | 1 | **12,15** |
| MA8888080100080 | non forato | 57,15 | 25,15 | 17 | M16 | 15 | 90° | - | 6 | BT40 | 1 | **12,15** |
| MA8888080100072 | forato | 57,15 | 28,15 | 17 | M16 | 15 | 45° | 3 | 6 | BT40 | 1 | **12,15** |
| MA8888080100073 | forato | 57,15 | 28,15 | 17 | M16 | 15 | 45° | 4,5 | 6 | BT40 | 1 | **16,20** |
| MA8888080100074 | forato | 57,15 | 28,15 | 17 | M16 | 15 | 45° | 3 | 3 | BT40 | 1 | **18,90** |
| MA8888080100075 | forato | 57,15 | 25,15 | 17 | M16 | 15 | 60° | 3 | 6 | BT40 | 1 | **12,15** |
| MA8888080100076 | forato | 57,15 | 25,15 | 17 | M16 | 15 | 90° | 3 | 6 | BT40 | 1 | **18,90** |

## Codolo di aggancio JIS/B 6339

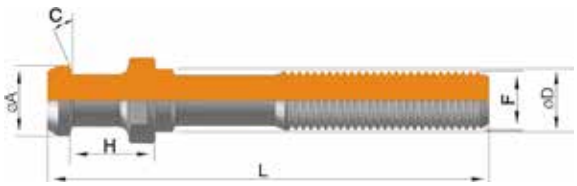





| Codice | Tipo | L | H | D | F | A | C | Attacco utensile | C.M. | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100090 | non forato | 54 | 23 | 17 | M16 | 19 | 15° | - | BT40 | 1 | **14,85** |
| MA8888080100082 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 7 | BT40 | 1 | **14,85** |
| MA8888080100083 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 6 | BT40 | 1 | **14,85** |
| MA8888080100084 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 5,5 - 4 | BT40 | 1 | **14,85** |
| MA8888080100085 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 5 | BT40 | 1 | **14,85** |
| MA8888080100086 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 4 | BT40 | 1 | **14,85** |
| MA8888080100087 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 3 | BT40 | 1 | **14,85** |

## Codolo di aggancio JIS/B 6339, prolungato

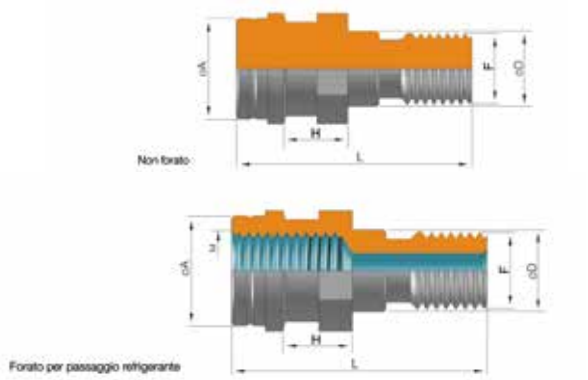





| Codice | Tipo | L | H | D | F | A | C° | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100092 | prolungato, non forato | 114 | 23 | 17 | M10 | 19 | 15° | BT40 | 2 | 1 | **a richiesta** |
| MA8888080100093 | prolungato, non forato | 114 | 23 | 17 | M12 | 19 | 15° | BT40 | 3 | 1 | **a richiesta** |
| MA8888080100094 | prolungato, non forato | 119 | 23 | 17 | M16 | 19 | 15° | BT40 | 4 | 1 | **a richiesta** |

## Codolo di aggancio DIN69871 OTT/TC

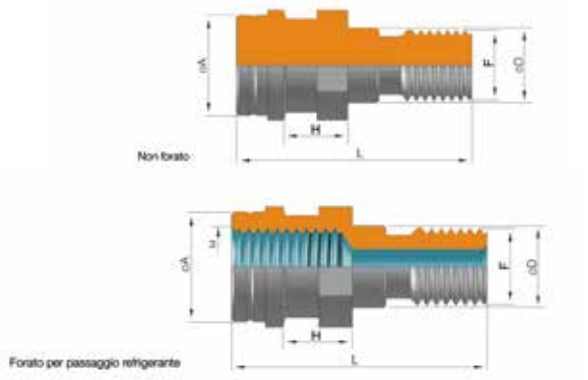





| Codice | Tipo | L | H | D | F | A | M | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100095 | non forato | 53,1 | 14,52 | 17 | M16 | 25 | - | DIN 40 | 1 | **13,50** |
| MA8888080100096 | non forato | 65 | 14 | 25 | M24 | 39,6 | - | DIN 50 | 1 | **18,90** |
| MA8888080100097 | forato | 53,1 | 14,52 | 17 | M16 | 25 | M16 | DIN 40 | 1 | **13,50** |
| MA8888080100098 | forato | 65 | 14 | 25 | M24 | 39,6 | - | DIN 50 | 1 | **18,90** |

## Codolo di aggancio MAS403 OTT/BT

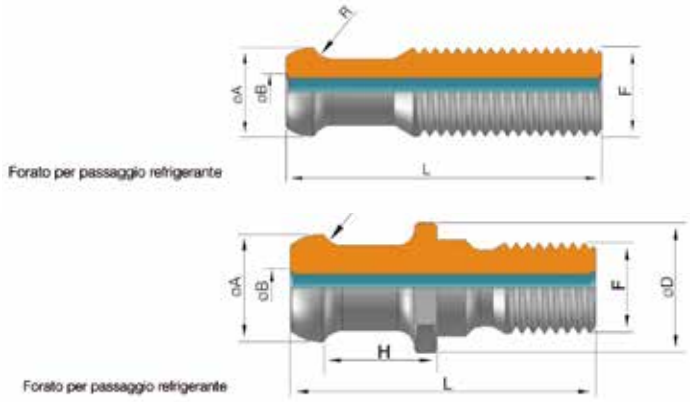





| Codice | Tipo | L | H | D | F | A | M | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100100 | non forato | 56 | 17,54 | 17 | M16 | 25 | - | BT40 | 1 | **13,50** |
| MA8888080100099 | forato | 56 | 17,54 | 17 | M16 | 25 | M16 | BT40 | 1 | **13,50** |

## Codolo di aggancio C.B. FERRARI, forato

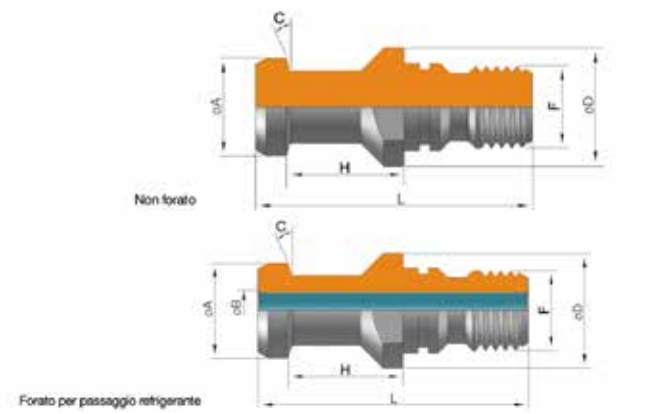





| Codice | Tipo | L | H | R | D | F | A | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100103 | forato, completo di dado | 57 | - | 3,7 | - | M16 | 16 | 5 | DIN 40 | 1 | **22,95** |
| MA8888080100104 | forato | 54 | 3,7 | - | 17 | M16 | 19 | 5 | DIN 40 | 1 | **20,25** |
| MA8888080100105 | forato | 74 | 4,3 | - | 25 | M24 | 28 | 6 | DIN 50 | 1 | **27,00** |

## Codolo di aggancio KITAMURA

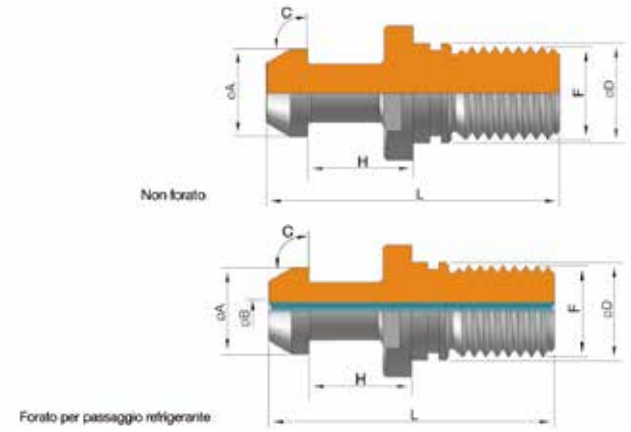





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100107 | non forato | 57,2 | 23,2 | 17 | M16 | 19 | 15° | - | BT40 | 1 | **21,60** |
| MA8888080100106 | forato | 54 | 23 | 17 | M16 | 19 | 15° | 7 | BT40 | 1 | **21,60** |

## Codolo di aggancio MITSUI SEIKI

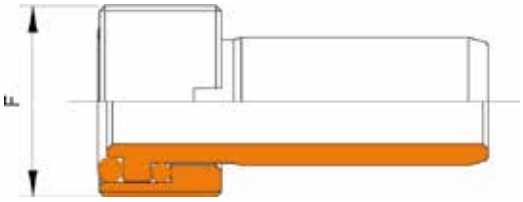





| Codice | Tipo | L | H | D | F | A | C | B | Attacco utensile | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA8888080100110 | non forato | 50 | 18 | 17 | M16 | 15 | 90° | - | BT40 | 1 | **21,60** |
| MA8888080100108 | forato | 50 | 18 | 17 | M16 | 15 | 90° | 3 | BT40 | 1 | **21,60** |

## Raccordo per refrigerante HSK

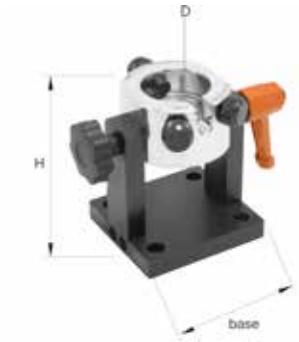





| Codice | Tipo | F | | € / cad. |
|---|---|---|---|---|
| MA9999090100003 | HSK63 | M18 x 1 | 1 | **15,00** |
| MA9999090100004 | HKS100 | M24 x 1,5 | 1 | **19,50** |

## Supporto di montaggio orientabile universale






| Codice | Tipo | D | Base | H | Gambo utensile | | € / cad. |
|---|---|---|---|---|---|---|---|
| MA9999090100001 | 40 | 63 | 130 x 120 | 160 | SK40 DIN - ISO40 - BT40 - CAT40 - HSK63A | 1 | **217,50** |
| MA9999090100002 | 50 | 100 | 160 x 120 | 210 | SK50 DIN - ISO50 - BT50 - CAT50 - HSK100A | 1 | **285,00** |

## Smontacono a rulli



| Codice | Tipo | | € / cad. |
|---|---|---|---|
| MA9999090100005 | TC40-BT40-ISO40-HSK63-CAPTO63 | 1 | **217,50** |
| MA9999090100006 | TC50-BT50-ISO50-HSK100-CAPTO100 | 1 | **420,00** |

## Smontacono a rulli per mandrini cilindrici



| Codice | Tipo | | € / cad. |
|---|---|---|---|
| MA9999090100007 | D.12-D.16-D.20-D.25-D.32 | 1 | **804,00** |

**Mandrino portapunte automatico specifico per trapani a colonna, piccoli macchinari stazionari e officine; serie professionale, con accoppiamento conico. Eccentricità massima 0,12 mm.**



| Codice | Tipo | Capacità pinze | H | A | | € / cad. |
|---|---|---|---|---|---|---|
| UT0020010013016 | 1-13 mm | B16 | 110 mm | 91 mm | 1 | **72,00** |
| UT0020010016016 | 1-16 mm | B16 | 112 mm | 102 mm | 1 | **78,02** |
| UT0020010016018 | 1-16 mm | B18 | 112 mm | 102 mm | 1 | **78,02** |

**Attacco cono morse per mandrino portapunte DIN 228/238, con accoppiamento conico.**



| Codice | Tipo | Capacità pinze | H | | € / cad. |
|---|---|---|---|---|---|
| UT00200100100A1 | N.2 | B16 | 112 | 1 | **12,25** |
| UT00200100100A2 | N.3 | B16 | 134 | 1 | **14,75** |
| UT00200100100A3 | N.3 | B18 | 140 | 1 | **14,75** |
| UT00200100100A4 | N.4 | B16 | 158 | 1 | **23,00** |
| UT00200100100A5 | N.4 | B18 | 166 | 1 | **23,00** |

## Stazione di calettamento a induzione, con bobina intelligente




### Caratteristiche

Stazione di calettamento a induzione. Montaggio e smontaggio di tutti i tipi di utensili (acciaio, HSS, metallo duro, portainserti, prolunghe, riduzioni)

- Montaggio dei gambi utensile da Ø 2 a Ø 40, con tolleranza h6, con un solo induttore
- Tempo di calettamento da 2 a 7 secondi, tempo di raffreddamento da 1 minuto e 30 a 3 minuti (secondo la geometria)
- Totale autoregolazione: definizione del Ø, potenza del riscaldamento parametrata automaticamente
- Riscaldamento localizzato del portautensile, senza alterazione dell'utensile e del portautensile
- La concentrazione dei campi magnetici permette il calettamento di portautensili con chip
- La scheda elettronica e l'induttore removibile permettono delle riparazioni veloci
- Nessun rischio di scheggiatura dei taglienti
- Design ergonomico con scatola comandi separata
- Postazione di lavoro adatta ad operatori con mobilità ridotta

| Codice | | € / cad. |
|---|---|---|
| MA9999090300000 | 1 | **11.700,00** |

## Modulo di raffreddamento




### Caratteristiche

Modulo di raffreddamento. Caratteristiche tecniche:

- Comando tramite la stazione di calettamento oppure manualmente (Opzione)
- Alimentazione pneumatica: 4–6 BAR
- Tempo di raffreddamento da 1 minuto e 30 a 3 minuti (secondo la geometria)
- Con filtro e regolatore di pressione

| Codice | | € / cad. |
|---|---|---|
| MA9999090300020 | 1 | **1.800,00** |

## Supporto portacono per calettatrice



| Codice | Tipo | | € / cad. |
|---|---|---|---|
| MA9999090300030 | SK30 | 1 | **109,20** |
| MA9999090300040 | SK40 | 1 | **109,20** |
| MA9999090300050 | SK50 | 1 | **136,50** |
| MA9999090300063 | SK63 | 1 | **109,20** |
| MA9999090300100 | SK100 | 1 | **a richiesta** |

## Anello per calettatrice



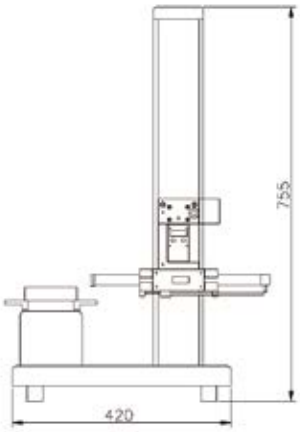
| Codice | Tipo | | € / cad. |
|---|---|---|---|
| MA9999090300205 | anello D.2÷5 | 1 | **191,10** |
| MA9999090300612 | anello D.6÷12 | 1 | **169,20** |
| MA9999090301420 | anello D.14÷20 | 1 | **136,50** |
| MA9999090302532 | anello D.25÷32 | 1 | **149,10** |
| MA9999090304040 | anello D.40 | 1 | **176,40** |

## Presetting



### Caratteristiche

Presetting con mandrino rotante interscambiabile, uscita elettronica RS 232 mm/pollici resistente all'acqua, asse Z a sganciamento rapido, mandrino ISO 40 di serie, fornito in scatola di legno.



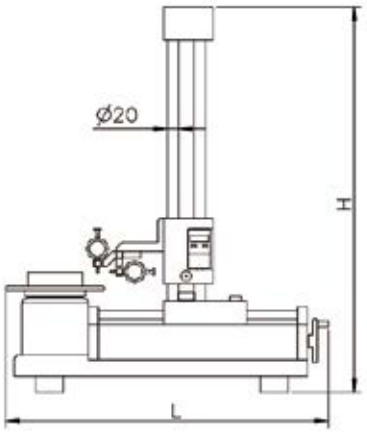

| Codice | Campo di misura ASSE X | Campo di misura ASSE Z | Angolo ASSI | Risoluzioni | | € / cad. |
|---|---|---|---|---|---|---|
| SM9500100200160 | 160 mm (d.320) | 320 mm | 0,02 | 0,01 | 1 | **3.750,00** |

## Presetting bidimensionale



### Caratteristiche

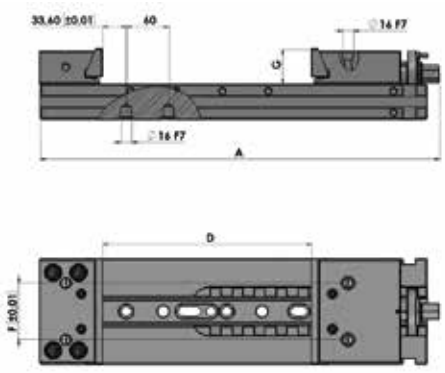
Presetting per utensili bidimensionale con mandrino rotante intercambiabile, uscita elettronica RS 232 mm/pollici resistente all'acqua, asse Z e X a sganciamento rapido, volantini registrazione fine, mandrino ISO 40, fornito in scatola di legno.




| Codice | Campo di misura ASSE X | Campo di misura ASSE Z | L | H | Angolo ASSI | Risoluzione | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM9510100200160 | 160 mm (d.320) | 320 mm | 584 mm | 520 mm | 0,02 | 0,01 | 1 | **5.250,00** |
| SM9510100200260 | 260 mm (d.520) | 520 mm | 684 mm | 848 mm | 0,03 | 0,01 | 1 | **6.300,00** |

## Morsa modulare con ganasce fisse

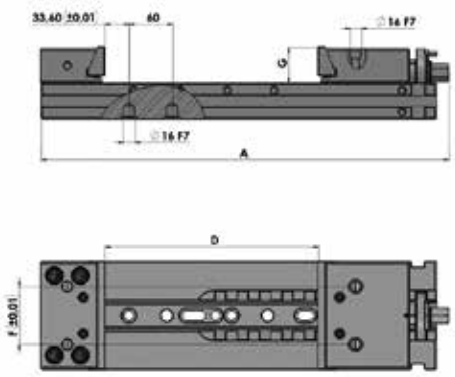




| Codice | Dimensioni | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101F0150 | 125x150 mm | 405 | 125 | 124 | 155 | 64 | 40 | 80 | 40 | 21,50 | 1 | **1.612,50** |
| MM01250101F0250 | 125x250 mm | 505 | 125 | 124 | 255 | 64 | 40 | 80 | 40 | 25,50 | 1 | **1.725,00** |
| MM01500101F0200 | 150x200mm | 470 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33,00 | 1 | **1.737,50** |
| MM01500101F0250 | 150x250 mm | 520 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36,00 | 1 | **1.825,00** |
| MM01500101F0300 | 150x300 mm | 570 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,50 | 1 | **1.912,50** |
| MM01500101F0400 | 150x400 mm | 670 | 150 | 149 | 405 | 80 | 50 | 100 | 50 | 45,00 | 1 | **2.087,50** |
| MM01500101F0500 | 150x500 mm | 770 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,50 | 1 | **2.275,00** |
| MM01750101F0300 | 175x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,50 | 1 | **2.275,00** |
| MM01750101F0400 | 175x400 mm | 725 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,50 | 1 | **2.500,00** |
| MM01750101F0500 | 175x500 mm | 825 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,50 | 1 | **2.762,50** |
| MM02000101F0300 | 200x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,50 | 1 | **2.825,00** |
| MM02000101F0400 | 200x400 mm | 725 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,50 | 1 | **3.037,50** |
| MM02000101F0500 | 200x500 mm | 825 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,50 | 1 | **3.275,00** |

## Morsa modulare con ganasce discendenti

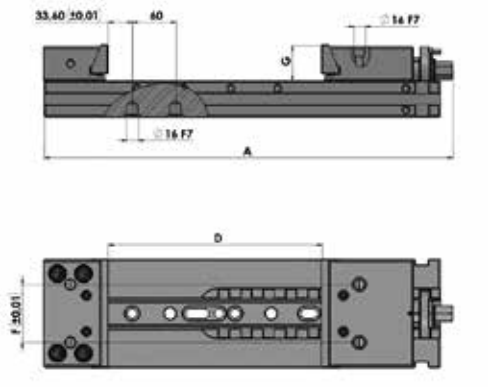




| Codice | Dimensioni | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101D0150 | 125x150 mm | 405 | 125 | 124 | 155 | 64 | 40 | 80 | 40 | 21,50 | 1 | **1.675,00** |
| MM01250101D0250 | 125x250 mm | 505 | 125 | 124 | 255 | 64 | 40 | 80 | 40 | 25,50 | 1 | **1.800,00** |
| MM01500101D0200 | 150x200mm | 470 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33,00 | 1 | **1.825,00** |
| MM01500101D0250 | 150x250 mm | 520 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36,00 | 1 | **1.912,50** |

## Morsa modulare con ganasce discendenti

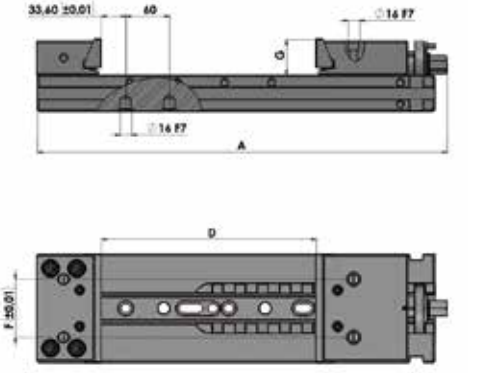




| Codice | Dimensioni | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01500101D0300 | 150x300 mm | 570 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,50 | 1 | **1.997,50** |
| MM01500101D0400 | 150x400 mm | 670 | 150 | 149 | 405 | 80 | 50 | 100 | 50 | 45,00 | 1 | **2.175,00** |
| MM01500101D0500 | 150x500 mm | 770 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,50 | 1 | **2.362,50** |
| MM01750101D0300 | 175x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,50 | 1 | **2.387,50** |
| MM01750101D0400 | 175x400 mm | 725 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,50 | 1 | **2.612,50** |
| MM01750101D0500 | 175x500 mm | 825 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,50 | 1 | **2.862,50** |
| MM02000101D0300 | 200x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,50 | 1 | **2.925,00** |
| MM02000101D0400 | 200x400 mm | 725 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,50 | 1 | **3.137,50** |
| MM02000101D0500 | 200x500 mm | 825 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,50 | 1 | **3.375,00** |

## Morsa modulare con ganascia fissa e discendente

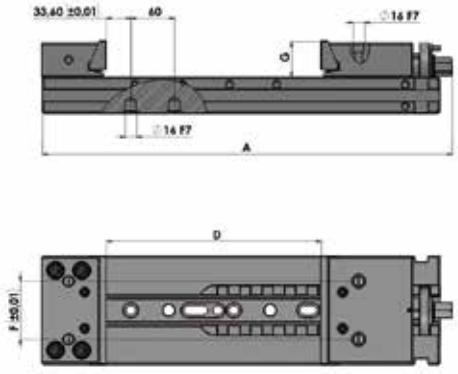




| Codice | Dimensioni | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101FD150 | 125x150 mm | 405 | 125 | 124 | 155 | 64 | 40 | 80 | 40 | 21,50 | 1 | **1.637,50** |
| MM01250101FD250 | 125x250 mm | 505 | 125 | 124 | 255 | 64 | 40 | 80 | 40 | 25,50 | 1 | **1.775,00** |
| MM01500101FD200 | 150x200mm | 470 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33,00 | 1 | **1.787,50** |
| MM01500101FD250 | 150x250 mm | 520 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36,00 | 1 | **1.875,00** |

## Morsa modulare con ganascia fissa e discendente






| Codice | Dimensioni | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01500101FD300 | 150x300 mm | 570 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,50 | 1 | **1.962,50** |
| MM01500101FD400 | 150x400 mm | 670 | 150 | 149 | 405 | 80 | 50 | 100 | 50 | 45,00 | 1 | **2.137,50** |
| MM01500101FD500 | 150x500 mm | 770 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,50 | 1 | **2.312,50** |
| MM01750101FD300 | 175x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,50 | 1 | **2.325,00** |
| MM01750101FD400 | 175x400 mm | 725 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,50 | 1 | **2.575,00** |
| MM01750101FD500 | 175x500 mm | 825 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,50 | 1 | **2.812,50** |
| MM02000101FD300 | 200x300 mm | 625 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,50 | 1 | **2.862,50** |
| MM02000101FD400 | 200x400 mm | 725 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,50 | 1 | **3.100,00** |
| MM02000101FD500 | 200x500 mm | 825 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,50 | 1 | **3.312,50** |

## Vite comando per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC01 | 125 mm | 1 | **150,00** |
| MM01500101RIC01 | 150 mm | 1 | **195,00** |
| MM01750101RIC01 | 175-200 mm | 1 | **217,50** |

## Contrasto per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC02 | 125 mm | 1 | **195,00** |
| MM01500101RIC02 | 150 mm | 1 | **217,50** |
| MM01750101RIC02 | 175-200 mm | 1 | **262,50** |

## Corsoio per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC03 | 125 mm | 1 | **74,25** |
| MM01500101RIC03 | 150 mm | 1 | **82,50** |
| MM01750101RIC03 | 175-200 mm | 1 | **99,00** |

## Anello frizione per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC04 | 125 mm | 1 | **13,50** |
| MM01500101RIC04 | 150 mm | 1 | **18,00** |
| MM01750101RIC04 | 175-200 mm | 1 | **21,75** |

## Seeger per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC05 | 125 mm | 1 | **3,75** |
| MM01500101RIC05 | 150 mm | 1 | **4,50** |
| MM01750101RIC05 | 175-200 mm | 1 | **5,25** |

## Gruppo vite completo per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM0125010100VIT | 125 mm | 1 | **405,00** |
| MM0150010100VIT | 150 mm | 1 | **480,00** |
| MM0175010100VIT | 175-200 mm | 1 | **577,50** |

## Chiocciola per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC06 | 125 mm | 1 | **127,50** |
| MM01500101RIC06 | 150 mm | 1 | **172,50** |
| MM01750101RIC06 | 175-200 mm | 1 | **195,00** |

## Lardone per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC07 | 125 mm | 1 | **112,50** |
| MM01500101RIC07 | 150 mm | 1 | **127,50** |
| MM01750101RIC07 | 175-200 mm | 1 | **150,00** |

## Carro mobile con ganasce fisse per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC8F | 125 mm | 1 | **742,50** |
| MM01500101RIC8F | 150 mm | 1 | **915,75** |
| MM01750101RIC8F | 175 mm | 1 | **1.179,75** |
| MM02000101RIC8F | 200 mm | 1 | **1.509,75** |

## Carro mobile con ganasce discendenti per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC8D | 125 mm | 1 | **783,75** |
| MM01500101RIC8D | 150 mm | 1 | **965,25** |
| MM01750101RIC8D | 175 mm | 1 | **1.245,75** |
| MM02000101RIC8D | 200 mm | 1 | **1.575,75** |

## Portaganasce fisse per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC9F | 125 mm | 1 | **371,25** |
| MM01500101RIC9F | 150 mm | 1 | **453,75** |
| MM01750101RIC9F | 175 mm | 1 | **585,75** |
| MM02000101RIC9F | 200 mm | 1 | **750,75** |

## Portaganasce discendenti per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC9D | 125 mm | 1 | **412,50** |
| MM01500101RIC9D | 150 mm | 1 | **511,50** |
| MM01750101RIC9D | 175 mm | 1 | **651,75** |
| MM02000101RIC9D | 200 mm | 1 | **816,75** |

## Staffa laterale standard per morsa modulare



| Codice | Larghezza ganascia | Cava | | € / cad. |
|---|---|---|---|---|
| MM12120101RIC15 | 125 mm | 12 mm | 1 | **52,50** |
| MM12140101RIC15 | 125 mm | 14 mm | 1 | **52,50** |
| MM12160101RIC15 | 125 mm | 16 mm | 1 | **52,50** |
| MM12180101RIC15 | 125 mm | 18 mm | 1 | **52,50** |
| MM12200101RIC15 | 125 mm | 20 mm | 1 | **52,50** |
| MM12220101RIC15 | 125 mm | 22 mm | 1 | **52,50** |
| MM15120101RIC15 | 150 mm | 12 mm | 1 | **57,00** |
| MM15140101RIC15 | 150 mm | 14 mm | 1 | **57,00** |
| MM15160101RIC15 | 150 mm | 16 mm | 1 | **57,00** |
| MM15180101RIC15 | 150 mm | 18 mm | 1 | **57,00** |
| MM15200101RIC15 | 150 mm | 20 mm | 1 | **57,00** |
| MM15220101RIC15 | 150 mm | 22 mm | 1 | **57,00** |
| MM17120101RIC15 | 175-200 mm | 12 mm | 1 | **60,00** |
| MM17140101RIC15 | 175-200 mm | 14 mm | 1 | **60,00** |
| MM17160101RIC15 | 175-200 mm | 16 mm | 1 | **60,00** |
| MM17180101RIC15 | 175-200 mm | 18 mm | 1 | **60,00** |
| MM17200101RIC15 | 175-200 mm | 20 mm | 1 | **60,00** |
| MM17220101RIC15 | 175-200 mm | 22 mm | 1 | **60,00** |

## Staffa laterale per banchine tenere per morsa modulare



| Codice | Larghezza ganascia | Cava | | € / cad. |
|---|---|---|---|---|
| MM12120101RIC16 | 125 mm | 12 mm | 1 | **60,00** |
| MM12140101RIC16 | 125 mm | 14 mm | 1 | **60,00** |
| MM12160101RIC16 | 125 mm | 16 mm | 1 | **60,00** |
| MM12180101RIC16 | 125 mm | 18 mm | 1 | **60,00** |
| MM12200101RIC16 | 125 mm | 20 mm | 1 | **60,00** |
| MM12220101RIC16 | 125 mm | 22 mm | 1 | **60,00** |
| MM15120101RIC16 | 150 mm | 12 mm | 1 | **64,50** |
| MM15140101RIC16 | 150 mm | 14 mm | 1 | **64,50** |
| MM15160101RIC16 | 150 mm | 16 mm | 1 | **64,50** |
| MM15180101RIC16 | 150 mm | 18 mm | 1 | **64,50** |
| MM15200101RIC16 | 150 mm | 20 mm | 1 | **64,50** |
| MM15220101RIC16 | 150 mm | 22 mm | 1 | **64,50** |
| MM17120101RIC16 | 175-200 mm | 12 mm | 1 | **67,50** |
| MM17140101RIC16 | 175-200 mm | 14 mm | 1 | **67,50** |
| MM17160101RIC16 | 175-200 mm | 16 mm | 1 | **67,50** |
| MM17180101RIC16 | 175-200 mm | 18 mm | 1 | **67,50** |
| MM17200101RIC16 | 175-200 mm | 20 mm | 1 | **67,50** |
| MM17220101RIC16 | 175-200 mm | 22 mm | 1 | **67,50** |

## Tasselli di allineamento cava per morsa modulare



| Codice | Larghezza ganascia | Cava | | € / cad. |
|---|---|---|---|---|
| MM00120101RIC11 | 125 - 150 - 175 - 200 mm | 12 mm | 1 | **30,00** |
| MM00160101RIC11 | 125 - 150 - 175 - 200 mm | 16 mm | 1 | **30,00** |
| MM00180101RIC11 | 125 - 150 - 175 - 200 mm | 18 mm | 1 | **30,00** |
| MM00200101RIC11 | 125 - 150 - 175 - 200 mm | 20 mm | 1 | **34,50** |
| MM00220101RIC11 | 125 - 150 - 175 - 200 mm | 22 mm | 1 | **34,50** |

## Tasselli di allineamento cilindrici per morsa modulare



| Codice | Larghezza ganascia | Cava | | € / cad. |
|---|---|---|---|---|
| MM00120101RIC17 | 125 - 150 - 175 - 200 mm | 12 mm | 1 | **27,00** |
| MM00140101RIC17 | 125 - 150 - 175 - 200 mm | 14 mm | 1 | **27,00** |
| MM00160101RIC17 | 125 - 150 - 175 - 200 mm | 16 mm | 1 | **27,00** |
| MM00180101RIC17 | 125 - 150 - 175 - 200 mm | 18 mm | 1 | **27,00** |
| MM00200101RIC17 | 125 - 150 - 175 - 200 mm | 20 mm | 1 | **30,00** |
| MM00220101RIC17 | 125 - 150 - 175 - 200 mm | 22 mm | 1 | **30,00** |

## Fermo laterale per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC14 | 125 mm | 1 | **74,25** |
| MM01500101RIC14 | 150 - 175 - 200 mm | 1 | **82,50** |

## Chiave a pipa esagonale per morsa modulare



| Codice | Larghezza ganascia | Ø chiave | | € / cad. |
|---|---|---|---|---|
| MM00190101RIC12 | 125 mm | 19 mm | 1 | **74,25** |
| MM00220101RIC12 | 150 mm | 22 mm | 1 | **90,75** |
| MM00270101RIC12 | 175-200 mm | 27 mm | 1 | **107,25** |

## Ganascia romboidale per morsa modulare



| Codice | Larghezza ganascia | Tipologia | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN1D | 125 mm | Discendente | 1 | **156,75** |
| MM01250101GAN1F | 125 mm | Fissa | 1 | **112,20** |
| MM01500101GAN1D | 150 mm | Discendente | 1 | **193,05** |
| MM01500101GAN1F | 150 mm | Fissa | 1 | **141,90** |
| MM01750101GAN1D | 175 mm | Discendente | 1 | **231,00** |
| MM01750101GAN1F | 175 mm | Fissa | 1 | **163,35** |
| MM02000101GAN1D | 200 mm | Discendente | 1 | **252,45** |
| MM02000101GAN1F | 200 mm | Fissa | 1 | **186,45** |

## Ganascia rigata per morsa modulare



| Codice | Larghezza ganascia | Tipologia | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN2D | 125 mm | Discendente | 1 | **156,75** |
| MM01250101GAN2F | 125 mm | Fissa | 1 | **112,20** |
| MM01500101GAN2D | 150 mm | Discendente | 1 | **193,05** |
| MM01500101GAN2F | 150 mm | Fissa | 1 | **141,90** |
| MM01750101GAN2D | 175 mm | Discendente | 1 | **231,00** |
| MM01750101GAN2F | 175 mm | Fissa | 1 | **163,35** |
| MM02000101GAN2D | 200 mm | Discendente | 1 | **252,45** |
| MM02000101GAN2F | 200 mm | Fissa | 1 | **186,45** |

## Ganascia liscia per morsa modulare



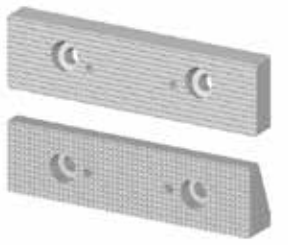
| Codice | Larghezza ganascia | Tipologia | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN3D | 125 mm | Discendente | 1 | **156,75** |
| MM01250101GAN3F | 125 mm | Fissa | 1 | **112,20** |
| MM01500101GAN3D | 150 mm | Discendente | 1 | **193,05** |
| MM01500101GAN3F | 150 mm | Fissa | 1 | **141,90** |
| MM01750101GAN3D | 175 mm | Discendente | 1 | **231,00** |
| MM01750101GAN3F | 175 mm | Fissa | 1 | **163,35** |
| MM02000101GAN3D | 200 mm | Discendente | 1 | **252,45** |
| MM02000101GAN3F | 200 mm | Fissa | 1 | **186,45** |

## Ganascia a gradino (5 mm) per morsa modulare



| Codice | Larghezza ganascia | Tipologia | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN4D | 125 mm | Discendente | 1 | **178,20** |
| MM01250101GAN4F | 125 mm | Fissa | 1 | **133,65** |
| MM01500101GAN4D | 150 mm | Discendente | 1 | **216,15** |
| MM01500101GAN4F | 150 mm | Fissa | 1 | **163,35** |
| MM01750101GAN4D | 175 mm | Discendente | 1 | **252,45** |
| MM01750101GAN4F | 175 mm | Fissa | 1 | **186,45** |
| MM02000101GAN4D | 200 mm | Discendente | 1 | **275,55** |
| MM02000101GAN4F | 200 mm | Fissa | 1 | **207,90** |

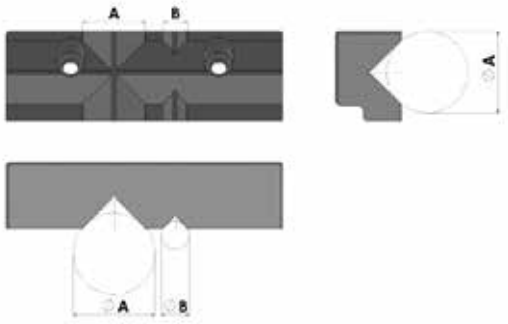
## Ganascia dentata, passo 3, per morsa modulare



| Codice | Larghezza ganascia | Tipologia | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN5D | 125 mm | Discendente | 1 | **201,30** |
| MM01250101GAN5F | 125 mm | Fissa | 1 | **156,75** |
| MM01500101GAN5D | 150 mm | Discendente | 1 | **237,60** |
| MM01500101GAN5F | 150 mm | Fissa | 1 | **186,45** |
| MM01750101GAN5D | 175 mm | Discendente | 1 | **282,15** |
| MM01750101GAN5F | 175 mm | Fissa | 1 | **216,15** |
| MM02000101GAN5D | 200 mm | Discendente | 1 | **320,10** |
| MM02000101GAN5F | 200 mm | Fissa | 1 | **252,45** |

## Ganascia a V per morsa modulare

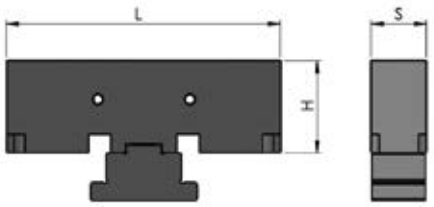





| Codice | Larghezza ganascia | Tipologia | Ø A min | Ø A max | Ø B min | Ø B max | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MM01250101GAN6D | 125 mm | Discendente | 13 mm | 42 mm | 6 mm | 18,5 mm | 1 | **275,40** |
| MM01250101GAN6F | 125 mm | Fissa | 13 mm | 42 mm | 6 mm | 18,5 mm | 1 | **226,80** |
| MM01500101GAN6D | 150 mm | Discendente | 15 mm | 47 mm | 6,5 mm | 20 mm | 1 | **333,00** |
| MM01500101GAN6F | 150 mm | Fissa | 15 mm | 47 mm | 6,5 mm | 20 mm | 1 | **275,40** |
| MM01750101GAN6D | 175 mm | Discendente | 19 mm | 63 mm | 11 mm | 35 mm | 1 | **397,80** |
| MM01750101GAN6F | 175 mm | Fissa | 19 mm | 63 mm | 11 mm | 35 mm | 1 | **324,00** |
| MM02000101GAN6D | 200 mm | Discendente | 19 mm | 63 mm | 11 mm | 35 mm | 1 | **446,40** |
| MM02000101GAN6F | 200 mm | Fissa | 19 mm | 63 mm | 11 mm | 35 mm | 1 | **372,60** |

## Ganascia mobile intermedia per morsa modulare

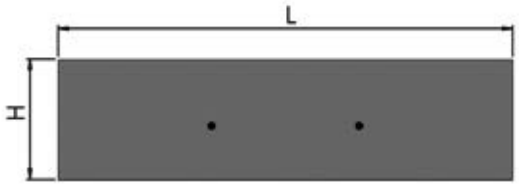





| Codice | Larghezza ganascia | L | H | S | | € / cad. |
|---|---|---|---|---|---|---|
| MM01250101GAN7I | 125 mm | 124 mm | 40 mm | 30 mm | 1 | **321,75** |
| MM01500101GAN7I | 150 mm | 150 mm | 50 mm | 30 mm | 1 | **354,75** |
| MM01750101GAN7I | 175 mm | 175 mm | 60 mm | 30 mm | 1 | **379,50** |
| MM02000101GAN7I | 200 mm | 200 mm | 60 mm | 30 mm | 1 | **412,50** |

## Parallele ad aggancio rapido (spessore 5 mm) per morsa modulare





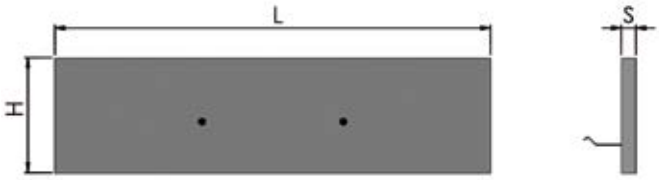




| Codice | Ganasce | H | S | | € / cad. |
|---|---|---|---|---|---|
| MM01250101PL524 | 125 mm | 24 mm | 5 mm | 1 | **75,00** |
| MM01250101PL529 | 125 mm | 29 mm | 5 mm | 1 | **75,00** |
| MM01250101PL534 | 125 mm | 34 mm | 5 mm | 1 | **75,00** |
| MM01500101PL524 | 150 mm | 24 mm | 5 mm | 1 | **82,50** |
| MM01500101PL529 | 150 mm | 29 mm | 5 mm | 1 | **82,50** |
| MM01500101PL534 | 150 mm | 34 mm | 5 mm | 1 | **82,50** |
| MM01500101PL539 | 150 mm | 39 mm | 5 mm | 1 | **87,00** |
| MM01500101PL544 | 150 mm | 44 mm | 5 mm | 1 | **87,00** |
| MM01750101PL529 | 175 mm | 29 mm | 5 mm | 1 | **90,00** |
| MM01750101PL534 | 175 mm | 34 mm | 5 mm | 1 | **90,00** |
| MM01750101PL539 | 175 mm | 39 mm | 5 mm | 1 | **90,00** |
| MM01750101PL544 | 175 mm | 44 mm | 5 mm | 1 | **94,50** |
| MM01750101PL549 | 175 mm | 49 mm | 5 mm | 1 | **94,50** |
| MM01750101PL554 | 175 mm | 54 mm | 5 mm | 1 | **94,50** |
| MM02000101PL529 | 200 mm | 29 mm | 5 mm | 1 | **97,50** |
| MM02000101PL534 | 200 mm | 34 mm | 5 mm | 1 | **97,50** |
| MM02000101PL539 | 200 mm | 39 mm | 5 mm | 1 | **97,50** |
| MM02000101PL544 | 200 mm | 44 mm | 5 mm | 1 | **102,00** |
| MM02000101PL549 | 200 mm | 49 mm | 5 mm | 1 | **102,00** |
| MM02000101PL554 | 200 mm | 54 mm | 5 mm | 1 | **102,00** |

## Kit parallele ad aggancio rapido per morsa modulare

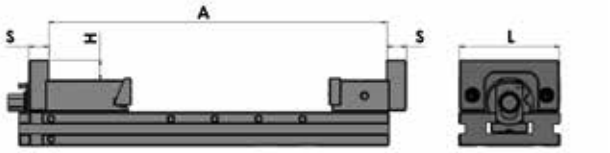





| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101PLKIT | 125 mm | 3 coppie | **450,00** |
| MM01750101PLKIT | 150 mm | 6 coppie | **1.050,00** |
| MM02000101PLKIT | 175 mm | 6 coppie | **1.110,00** |
| MM01500101PLKIT | 200 mm | 5 coppie | **795,00** |

## Ganasce grandi aperture per morsa modulare






| Codice | Dimensioni | A min (mm) | A max (mm) | L (mm) | H (mm) | S (mm) | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| MM01250101GAN8G | 125x150-250 mm | 196 | 349-449 | 123 | 25 | 28 | 1 | **297,00** |
| MM01500101GAN8G | 150x200-250-300-400-500 mm | 208 | 412-462-512 612-712 | 148 | 30 | 29 | 1 | **371,25** |
| MM01750101GAN8G | 175x300-400-500 mm | 258 | 562-662-762 | 173 | 30 | 29 | 1 | **445,50** |
| MM02000101GAN8G | 200x300-400-500 mm | 258 | 562-662-762 | 198 | 30 | 29 | 1 | **519,75** |

## Sovraganasce tenere per morsa modulare






| Codice | Larghezza ganascia | H | | € / cad. |
|---|---|---|---|---|
| MM01250101GAN9S | 125 mm | 40 mm | 1 | **297,00** |
| MM01500101GAN9S | 150 mm | 50 mm | 1 | **326,70** |
| MM01750101GAN9S | 175 mm | 50 mm | 1 | **371,25** |
| MM02000101GAN9S | 200 mm | 50 mm | 1 | **396,00** |

## Modulo di prolunga per morsa modulare



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC19 | 125 mm | 1 | **707,74** |
| MM01500101RIC19 | 150 mm | 1 | **882,49** |
| MM01750101RIC19 | 175 - 200 mm | 1 | **1.223,25** |

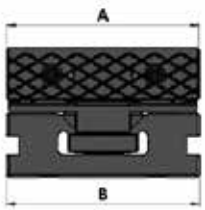
## Aggancio per morsa modulare

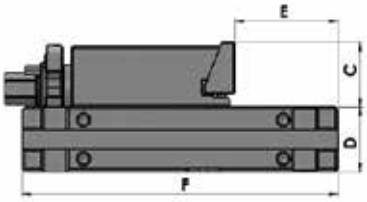


| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MM01250101RIC18 | 125 mm | 1 | **412,50** |

## Modulo di prolunga con carro per morsa modulare



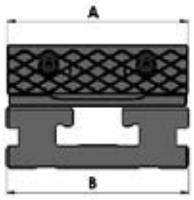


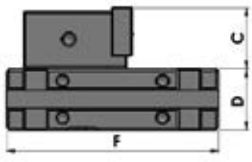




| Codice | Larghezza ganascia | Ganascia | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101MODCD | 125 mm | Discendente | 124 | 125 | 40 | 40 | 55 | 210 | 11 | 1 | **1.537,80** |
| MM01250101MODCF | 125 mm | Fissa | 124 | 125 | 40 | 40 | 55 | 210 | 11 | 1 | **1.494,11** |
| MM01500101MODCD | 150 mm | Discendente | 149 | 150 | 50 | 50 | 65 | 245 | 18,6 | 1 | **1.904,78** |
| MM01500101MODCF | 150 mm | Fissa | 149 | 150 | 50 | 50 | 65 | 245 | 18,6 | 1 | **1.843,61** |
| MM01750101MODCD | 175 mm | Discendente | 174 | 175 | 58 | 60 | 120 | 312 | 31,5 | 1 | **2.542,61** |
| MM01750101MODCF | 175 mm | Fissa | 174 | 175 | 58 | 60 | 120 | 312 | 31,5 | 1 | **2.463,98** |
| MM02000101MODCD | 200 mm | Discendente | 200 | 175 | 58 | 60 | 120 | 312 | 33 | 1 | **2.892,11** |
| MM02000101MODCF | 200 mm | Fissa | 200 | 175 | 58 | 60 | 120 | 312 | 33 | 1 | **2.822,21** |

## Modulo di prolunga con portaganascia per morsa modulare



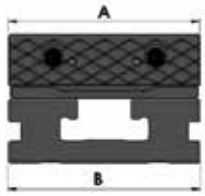


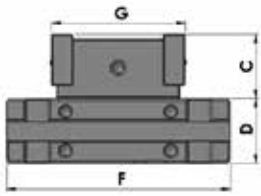




| Codice | Larghezza ganascia | Ganascia | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101MODPD | 125 mm | Discendente | 124 | 125 | 40 | 40 | 174 | 8 | 1 | **1.188,30** |
| MM01250101MODPF | 125 mm | Fissa | 124 | 125 | 40 | 40 | 174 | 8 | 1 | **1.135,88** |
| MM01500101MODPD | 150 mm | Discendente | 149 | 150 | 50 | 50 | 174 | 11 | 1 | **1.459,16** |
| MM01500101MODPF | 150 mm | Fissa | 149 | 150 | 50 | 50 | 174 | 11 | 1 | **1.406,74** |
| MM01750101MODPD | 175 mm | Discendente | 174 | 175 | 58 | 60 | 198 | 18 | 1 | **1.957,20** |
| MM01750101MODPF | 175 mm | Fissa | 174 | 175 | 58 | 60 | 198 | 18 | 1 | **1.887,30** |
| MM02000101MODPD | 200 mm | Discendente | 200 | 175 | 58 | 60 | 198 | 19 | 1 | **2.131,95** |
| MM02000101MODPF | 200 mm | Fissa | 200 | 175 | 58 | 60 | 198 | 19 | 1 | **2.062,05** |

## Modulo di prolunga con portaganascia doppio



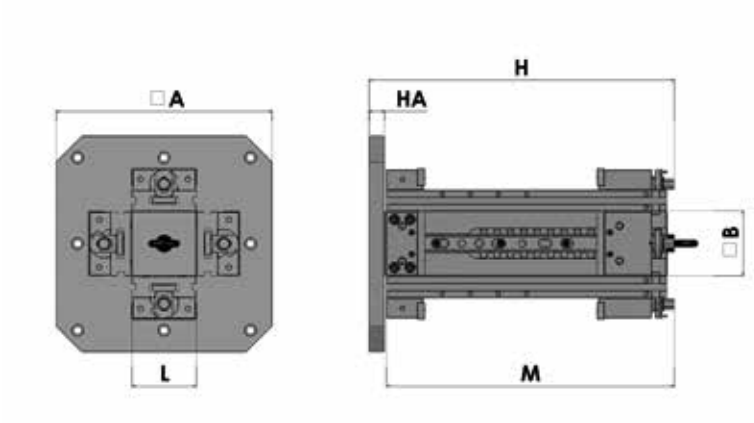



| Codice | Larghezza ganascia | Ganascia | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MM01250101MODDD | 125 mm | Discendente | 124 | 125 | 40 | 40 | 174 | 93 | 9 | 1 | **1.616,44** |
| MM01250101MODDF | 125 mm | Fissa | 124 | 125 | 40 | 40 | 174 | 93 | 9 | 1 | **1.529,06** |
| MM01500101MODDD | 150 mm | Discendente | 149 | 150 | 50 | 50 | 174 | 104 | 12 | 1 | **1.992,15** |
| MM01500101MODDF | 150 mm | Fissa | 149 | 150 | 50 | 50 | 174 | 104 | 12 | 1 | **1.887,30** |
| MM01750101MODDD | 175 mm | Discendente | 174 | 175 | 58 | 60 | 198 | 125 | 19 | 1 | **2.638,73** |
| MM01750101MODDF | 175 mm | Fissa | 174 | 175 | 58 | 60 | 198 | 125 | 19 | 1 | **2.498,93** |
| MM02000101MODDD | 200 mm | Discendente | 200 | 175 | 58 | 60 | 198 | 125 | 20 | 1 | **2.988,23** |
| MM02000101MODDF | 200 mm | Fissa | 200 | 175 | 58 | 60 | 198 | 125 | 20 | 1 | **2.848,43** |

## Cubo modulare con 4 morse

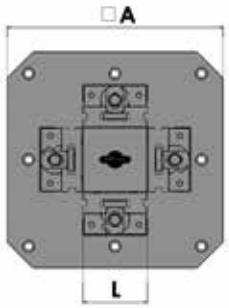


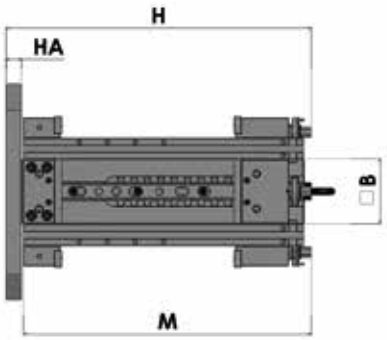



| Codice | Ganascia | Dimensioni (mm) | A (mm) | B (mm) | H (mm) | L (mm) | M (mm) | HA (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MMC1250101D0150 | Discendente | 125x150 | 280 | 125 | 443 | 125 | 405 | 3 | 138 | 1 | **a richiesta** |
| MMC1250101D0250 | Discendente | 125x150 | 280 | 125 | 543 | 125 | 505 | 33 | 161 | 1 | **a richiesta** |
| MMC1250101F0150 | Fissa | 125x150 | 280 | 125 | 443 | 125 | 405 | 3 | 138 | 1 | **a richiesta** |
| MMC1250101F0250 | Fissa | 125x150 | 280 | 125 | 543 | 125 | 505 | 33 | 161 | 1 | **a richiesta** |
| MMC1250101FD150 | Fissa + Discendente | 125x150 | 280 | 125 | 443 | 125 | 405 | 3 | 138 | 1 | **a richiesta** |
| MMC1250101FD250 | Fissa + Discendente | 125x150 | 280 | 125 | 543 | 125 | 505 | 33 | 161 | 1 | **a richiesta** |
| MMC1500101D0200 | Discendente | 150x200 | 320 | 150 | 508 | 150 | 470 | 33 | 233 | 1 | **a richiesta** |
| MMC1500101D0250 | Discendente | 150x250 | 320 | 150 | 558 | 150 | 520 | 33 | 241 | 1 | **a richiesta** |
| MMC1500101D0300 | Discendente | 150 300 | 320 | 150 | 608 | 150 | 570 | 33 | 258 | 1 | **a richiesta** |
| MMC1500101D0400 | Discendente | 150x400 | 320 | 150 | 708 | 150 | 670 | 33 | 295 | 1 | **a richiesta** |
| MMC1500101F0200 | Fissa | 150x200 | 320 | 150 | 508 | 150 | 470 | 33 | 233 | 1 | **a richiesta** |
| MMC1500101F0250 | Fissa | 150x250 | 320 | 150 | 558 | 150 | 520 | 33 | 241 | 1 | **a richiesta** |
| MMC1500101F0300 | Fissa | 150x300 | 320 | 150 | 608 | 150 | 570 | 33 | 258 | 1 | **a richiesta** |
| MMC1500101F0400 | Fissa | 150x400 | 320 | 150 | 708 | 150 | 670 | 33 | 295 | 1 | **a richiesta** |
| MMC1500101FD200 | Fissa + Discendente | 150x200 | 320 | 150 | 508 | 150 | 470 | 33 | 233 | 1 | **a richiesta** |
| MMC1500101FD250 | Fissa + Discendente | 150x250 | 320 | 150 | 558 | 150 | 520 | 33 | 241 | 1 | **a richiesta** |
| MMC1500101FD300 | Fissa + Discendente | 150x300 | 320 | 150 | 608 | 150 | 570 | 33 | 258 | 1 | **a richiesta** |
| MMC1500101FD400 | Fissa + Discendente | 150x400 | 320 | 150 | 708 | 150 | 670 | 3 | 295 | 1 | **a richiesta** |
| MMC1750101D0300 | Discendente | 175x300 | 400 | 175 | 668 | 175 | 625 | 38 | 402 | 1 | **a richiesta** |
| MMC1750101D0400 | Discendente | 175x400 | 400 | 175 | 768 | 175 | 725 | 38 | 450 | 1 | **a richiesta** |
| MMC1750101F0300 | Fissa | 175x300 | 400 | 175 | 668 | 175 | 625 | 38 | 402 | 1 | **a richiesta** |
| MMC1750101F0400 | Fissa | 175x400 | 400 | 175 | 768 | 175 | 725 | 38 | 450 | 1 | **a richiesta** |
| MMC1750101FD300 | Fissa + Discendente | 175x300 | 400 | 175 | 668 | 175 | 625 | 38 | 402 | 1 | **a richiesta** |

## Cubo modulare con 4 morse



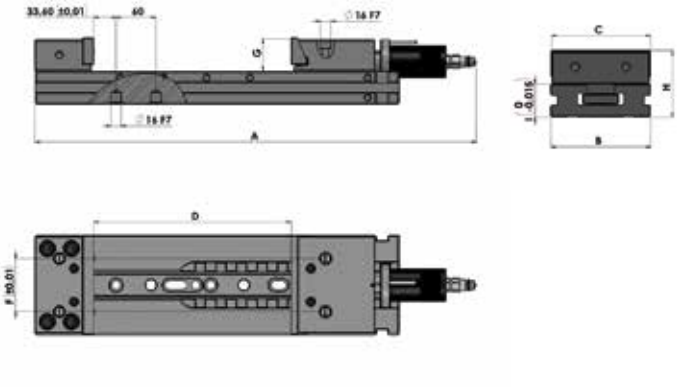



| Codice | Ganascia | Dimensioni (mm) | A (mm) | B (mm) | H (mm) | L (mm) | M (mm) | HA (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MMC1750101FD400 | Fissa + Discendente | 175x400 | 400 | 175 | 768 | 175 | 725 | 38 | 450 | 1 | **a richiesta** |
| MMC2000101D0300 | Discendente | 200x300 | 400 | 200 | 668 | 200 | 625 | 38 | 458 | 1 | **a richiesta** |
| MMC2000101D0400 | Discendente | 200x400 | 400 | 200 | 768 | 200 | 725 | 38 | 516 | 1 | **a richiesta** |
| MMC2000101F0300 | Fissa | 200x30 | 400 | 200 | 668 | 200 | 625 | 38 | 458 | 1 | **a richiesta** |
| MMC2000101F0400 | Fissa | 200x400 | 400 | 200 | 768 | 200 | 725 | 38 | 516 | 1 | **a richiesta** |
| MMC2000101FD300 | Fissa + Discendente | 200x300 | 400 | 200 | 668 | 200 | 625 | 38 | 458 | 1 | **a richiesta** |
| MMC2000101FD400 | Fissa + Discendente | 200x400 | 400 | 200 | 768 | 200 | 725 | 38 | 516 | 1 | **a richiesta** |

## Morsa modulare oleopneumatica con centralina idraulica

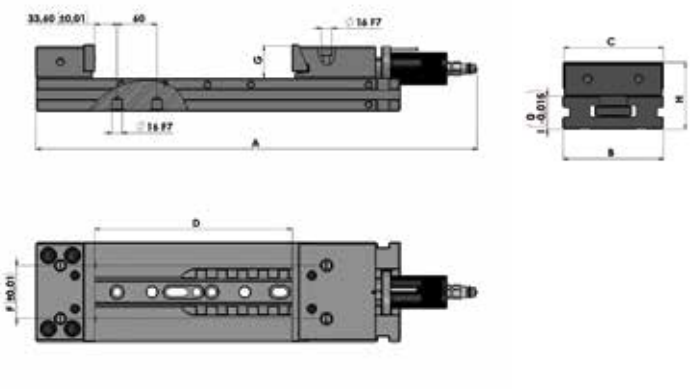




| Codice | Ganascia | Dim. (mm) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMH1500101D0200 | Discendente | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **5.119,59** |
| MMH1500101D0250 | Discendente | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **5.215,71** |
| MMH1500101D0300 | Discendente | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **5.305,41** |
| MMH1500101D0400 | Discendente | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **5.497,64** |
| MMH1500101D0500 | Discendente | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **5.683,45** |
| MMH1500101F0200 | Fissa | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **5.036,30** |
| MMH1500101F0250 | Fissa | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **5.132,41** |
| MMH1500101F0300 | Fissa | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **5.222,11** |
| MMH1500101F0400 | Fissa | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **5.414,34** |
| MMH1500101F0500 | Fissa | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **5.600,16** |
| MMH1500101FD200 | Fissa+ Discendente | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **5.081,15** |
| MMH1500101FD250 | Fissa+ Discendente | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **5.177,26** |
| MMH1500101FD300 | Fissa+Dis-cendente | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **5.266,97** |
| MMH1500101FD400 | Fissa+ Discendente | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **5.459,19** |
| MMH1500101FD500 | Fissa+ Discendente | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **5.645,01** |
| MMH1750101D0300 | Discendente | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **5.709,08** |
| MMH1750101D0400 | Discendente | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **5.971,79** |
| MMH1750101D0500 | Discendente | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **6.228,09** |
| MMH1750101F0300 | Fissa | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **5.600,16** |
| MMH1750101F0400 | Fissa | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **5.862,86** |
| MMH1750101F0500 | Fissa | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **6.119,16** |
| MMH1750101FD300 | Fissa+ Discendente | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **5.657,82** |
| MMH1750101FD400 | Fissa+ Discendente | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **5.920,53** |
| MMH1750101FD500 | Fissa+ Discendente | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **6.176,83** |
| MMH2000101D0300 | Discendente | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **6.304,98** |
| MMH2000101D0400 | Discendente | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **6.548,47** |
| MMH2000101D0500 | Discendente | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 k | 1 | **6.791,95** |

## Morsa modulare oleopneumatica con centralina idraulica

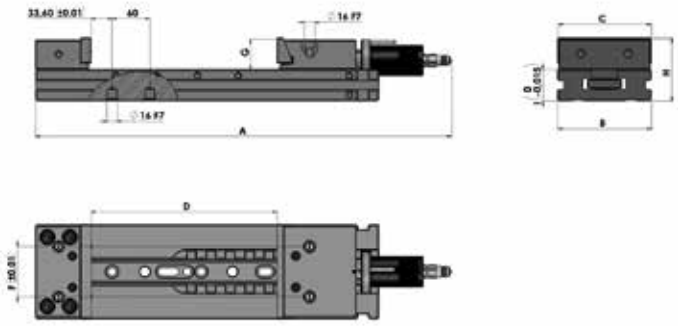




| Codice | Ganascia | Dim. (mm) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMH2000101F0300 | Fissa | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **6.196,05** |
| MMH2000101F0400 | Fissa | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **6.439,54** |
| MMH2000101F0500 | Fissa | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 | 1 | **6.683,02** |
| MMH2000101FD300 | Fissa+ Discendente | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **6.253,72** |
| MMH2000101FD400 | Fissa+ Discendente | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **6.497,21** |
| MMH2000101FD500 | Fissa+ Discendente | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 | 1 | **6.740,69** |

## Morsa modulare oleopneumatica senza centralina idraulica

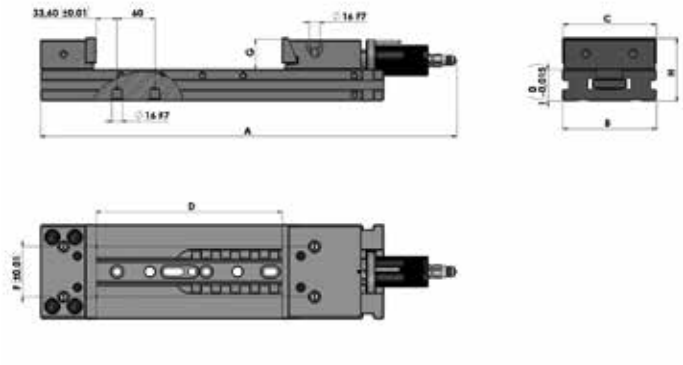




| Codice | Ganascia | Dim. (mm) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMH1500101D020N | Discendente | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **2.928,23** |
| MMH1500101D025N | Discendente | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **3.024,34** |
| MMH1500101D030N | Discendente | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **3.114,05** |
| MMH1500101D040N | Discendente | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **3.306,27** |
| MMH1500101D050N | Discendente | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **3.492,09** |
| MMH1500101F020N | Fissa | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **2.844,93** |
| MMH1500101F025N | Fissa | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **2.941,04** |
| MMH1500101F030N | Fissa | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **3.030,75** |
| MMH1500101F040N | Fissa | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **3.222,97** |
| MMH1500101F050N | Fissa | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **3.408,79** |
| MMH1500101FD20N | Fissa+ Discendente | 150x200 | 565 | 150 | 149 | 205 | 80 | 50 | 100 | 50 | 33 | 1 | **2.889,78** |
| MMH1500101FD25N | Fissa+ Discendente | 150x250 | 615 | 150 | 149 | 255 | 80 | 50 | 100 | 50 | 36 | 1 | **2.985,90** |
| MMH1500101FD30N | Fissa+ Discendente | 150x300 | 665 | 150 | 149 | 305 | 80 | 50 | 100 | 50 | 38,5 | 1 | **3.075,60** |
| MMH1500101FD40N | Fissa+ Discendente | 150x400 | 765 | 443 | 149 | 405 | 80 | 50 | 100 | 50 | 45 | 1 | **3.267,83** |
| MMH1500101FD50N | Fissa+ Discendente | 150x500 | 865 | 150 | 149 | 505 | 80 | 50 | 100 | 50 | 51,5 | 1 | **3.453,64** |
| MMH1750101D030N | Discendente | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **3.517,72** |
| MMH1750101D040N | Discendente | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **3.780,43** |
| MMH1750101D050N | Discendente | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **4.036,73** |
| MMH1750101F030N | Fissa | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **3.408,79** |
| MMH1750101F040N | Fissa | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **3.671,50** |
| MMH1750101F050N | Fissa | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **3.927,80** |
| MMH1750101FD30N | Fissa+ Discendente | 175x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 58,5 | 1 | **3.466,46** |
| MMH1750101FD40N | Fissa+ Discendente | 175x400 | 820 | 175 | 174 | 405 | 100 | 60 | 118 | 58 | 64,5 | 1 | **3.729,17** |
| MMH1750101FD50N | Fissa+ Discendente | 175x500 | 920 | 175 | 174 | 505 | 100 | 60 | 118 | 58 | 70,5 | 1 | **3.985,47** |
| MMH2000101D030N | Discendente | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **4.113,62** |
| MMH2000101D040N | Discendente | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **4.357,10** |
| MMH2000101D050N | Discendente | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 | 1 | **4.600,59** |

## Morsa modulare oleopneumatica senza centralina idraulica





| Codice | Ganascia | Dim. (mm) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMH2000101F030N | Fissa | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **4.004,69** |
| MMH2000101F040N | Fissa | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **4.248,17** |
| MMH2000101F050N | Fissa | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 | 1 | **4.491,66** |
| MMH2000101FD30N | Fissa+ Discendente | 200x300 | 720 | 175 | 174 | 305 | 100 | 60 | 118 | 58 | 61,5 | 1 | **4.062,36** |
| MMH2000101FD40N | Fissa+ Discendente | 200x400 | 820 | 175 | 198 | 405 | 100 | 60 | 118 | 58 | 67,5 | 1 | **4.305,84** |
| MMH2000101FD50N | Fissa+ Discendente | 200x500 | 920 | 175 | 198 | 505 | 100 | 60 | 118 | 58 | 75,5 | 1 | **4.549,33** |

## Centralina oleopneumatica



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC20 | 150 mm | 1 | **1.947,00** |
| MMH1750101RIC20 | 175 - 200 mm | 1 | **1.947,00** |

## Cilindro oleopneumatico



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC21 | 125 mm | 1 | **1.056,00** |
| MMH1750101RIC21 | 150 mm | 1 | **1.122,00** |

## Carro mobile con cilindro oleopneumatico



| Codice | Larghezza ganascia | Ganascia | | € / cad. |
|---|---|---|---|---|
| MMH1500101RIC22 | 150 mm | Fissa | 1 | **1.584,00** |
| MMH1500101RIC23 | 150 mm | Discendente | 1 | **1.641,75** |
| MMH1750101RIC22 | 175 mm | Fissa | 1 | **1.815,00** |
| MMH1750101RIC23 | 175 mm | Discendente | 1 | **1.897,50** |
| MMH2000101RIC22 | 200 mm | Fissa | 1 | **2.178,00** |
| MMH2000101RIC23 | 200 mm | Discendente | 1 | **2.260,50** |

## Comando a leva per morsa modulare oleopneumatica



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC24 | 150 - 175 - 200 mm | 1 | **351,00** |

## Comando pneumatico per morsa modulare oleopneumatica



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC25 | 150 - 175 - 200 mm | 1 | **279,00** |

## Comando pneumatico a leva per morsa modulare oleopneumatica



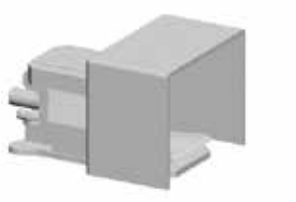
| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC28 | 150 - 175 - 200 mm | 1 | **234,00** |

## Comando Elettrico per morsa modulare oleopneumatica



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC27 | 150 - 175 - 200 mm | 1 | **252,00** |

## Pedale per morsa modulare oleopneumatica



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC26 | 150 - 175 - 200 mm | 1 | **225,00** |

## Gruppo filtro riduttore e lubrificatore per morsa modulare oleopneumatica



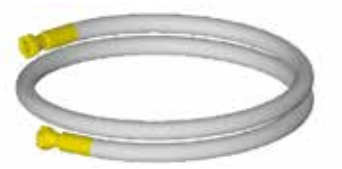
| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC29 | 150 - 175 - 200 mm | 1 | **261,00** |

## Connettore per morsa modulare oleopneumatica



| Codice | Larghezza ganascia | Uscite | | € / cad. |
|---|---|---|---|---|
| MMH1500101RIC31 | 150 - 175 - 200 mm | 2 | 1 | **198,00** |
| MMH1500101RIC32 | 150 - 175 - 200 mm | 3 | 1 | **261,00** |
| MMH1500101RIC33 | 150 - 175 - 200 mm | 4 | 1 | **342,00** |
| MMH1500101RIC34 | 150 - 175 - 200 mm | 5 | 1 | **423,00** |

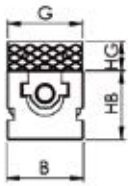
## Tubo speciale ad alta pressione per morsa modulare oleopneumatica

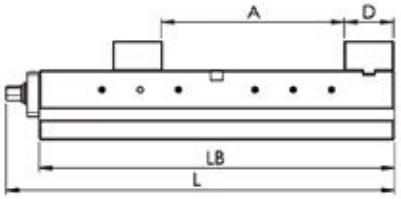


| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMH1500101RIC30 | 150 - 175 - 200 mm | 1 | **162,00** |

## Morsa modulare TOP semplice



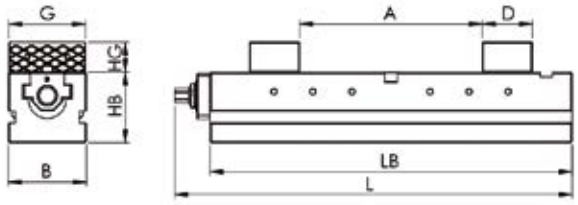



| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTS10010100370 | 100 mm | 242 | 100 | 90 | 64 | 98 | 38 | 412 | 368 | 26 | 1 | **1.930,00** |
| MMTS10010100470 | 100 mm | 342 | 100 | 90 | 64 | 98 | 38 | 512 | 468 | 32 | 1 | **2.261,25** |
| MMTS10010100570 | 100 mm | 442 | 100 | 90 | 64 | 98 | 38 | 612 | 568 | 38 | 1 | **2.592,50** |
| MMTS15010100370 | 150 mm | 242 | 100 | 90 | 64 | 150 | 48 | 412 | 368 | 29,8 | 1 | **2.167,50** |
| MMTS15010100470 | 150 mm | 342 | 100 | 90 | 64 | 150 | 48 | 512 | 468 | 35,3 | 1 | **2.497,50** |
| MMTS15010100570 | 150 mm | 442 | 100 | 90 | 64 | 150 | 48 | 612 | 568 | 40,8 | 1 | **2.822,50** |

## Morsa modulare TOP doppia, bloccaggio 2 pezzi

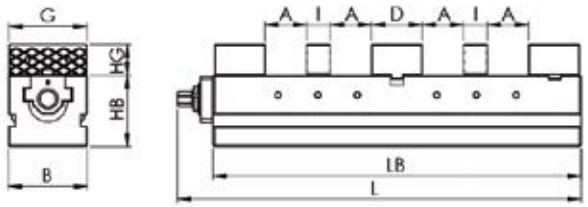





| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTD10010100370 | 100 mm | 90 | 100 | 90 | 64 | 98 | 38 | 412 | 368 | 29 | 1 | **2.350,00** |
| MMTD10010100470 | 100 mm | 140 | 100 | 90 | 64 | 98 | 38 | 512 | 468 | 35 | 1 | **2.642,50** |
| MMTD10010100570 | 100 mm | 190 | 100 | 90 | 64 | 98 | 38 | 612 | 568 | 41 | 1 | **3.005,00** |
| MMTD15010100370 | 150 mm | 90 | 100 | 90 | 64 | 150 | 48 | 412 | 368 | 34,5 | 1 | **2.715,00** |
| MMTD15010100470 | 150 mm | 140 | 100 | 90 | 64 | 150 | 48 | 512 | 468 | 40 | 1 | **3.045,00** |
| MMTD15010100570 | 150 mm | 190 | 100 | 90 | 64 | 150 | 48 | 612 | 568 | 48,5 | 1 | **3.367,50** |

## Morsa modulare TOP doppia, bloccaggio 4 pezzi

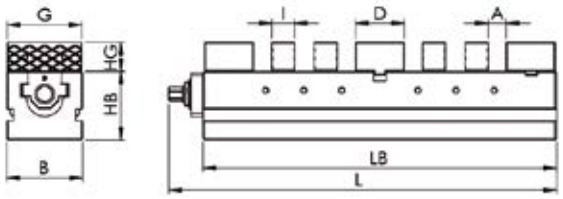





| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | I (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTM10010100370 | 100 mm | 30 | 100 | 90 | 64 | 98 | 38 | 30 | 412 | 368 | 31,2 | 1 | **2.930,00** |
| MMTM10010100470 | 100 mm | 55 | 100 | 90 | 64 | 98 | 38 | 30 | 412 | 468 | 37,2 | 1 | **3.252,50** |
| MMTM10010100570 | 100 mm | 80 | 100 | 90 | 64 | 98 | 38 | 30 | 412 | 568 | 43 | 1 | **3.585,00** |

## Morsa modulare TOP doppia, bloccaggio 6 pezzi

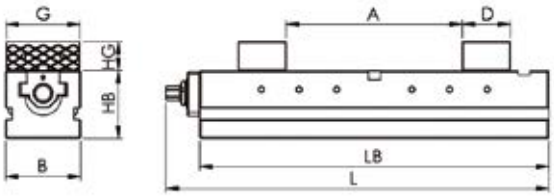





| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | I (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTM11010100470 | 100 mm | 25 | 100 | 90 | 64 | 98 | 38 | 30 | 512 | 468 | 39,4 | 1 | **3.835,00** |
| MMTM11010100570 | 100 mm | 42 | 100 | 90 | 64 | 98 | 38 | 30 | 512 | 568 | 45,4 | 1 | **4.165,00** |

## Morsa modulare TOP autocentrante con ganasce lisce romboidali

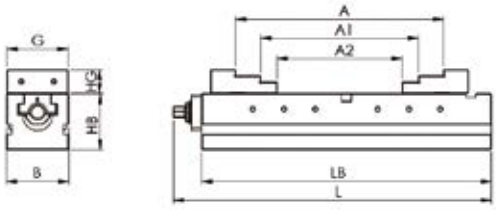





| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTA10010100370 | 100 mm | 240 | 100 | 90 | 64 | 98 | 38 | 412 | 368 | 28 | 1 | **2.080,00** |
| MMTA10010100470 | 100 mm | 340 | 100 | 90 | 64 | 98 | 38 | 512 | 468 | 34 | 1 | **2.402,50** |
| MMTA10010100570 | 100 mm | 440 | 100 | 90 | 64 | 98 | 38 | 612 | 568 | 40 | 1 | **2.735,00** |
| MMTA15010100370 | 150 mm | 240 | 100 | 90 | 64 | 150 | 48 | 412 | 368 | 30 | 1 | **2.322,50** |
| MMTA15010100470 | 150 mm | 340 | 100 | 90 | 64 | 150 | 48 | 512 | 468 | 35,5 | 1 | **2.647,50** |
| MMTA15010100570 | 150 mm | 440 | 100 | 90 | 64 | 150 | 48 | 612 | 568 | 41 | 1 | **2.977,50** |

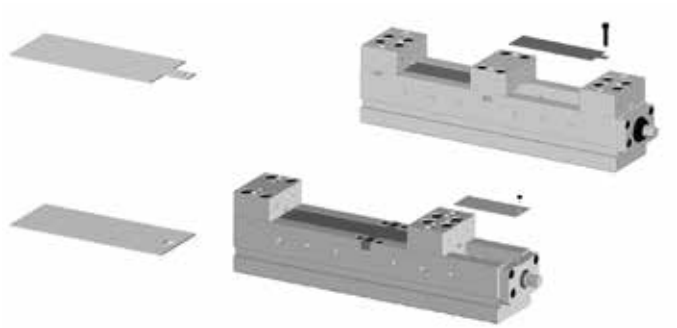
## Morsa modulare TOP autocentrante con ganasce a gradini





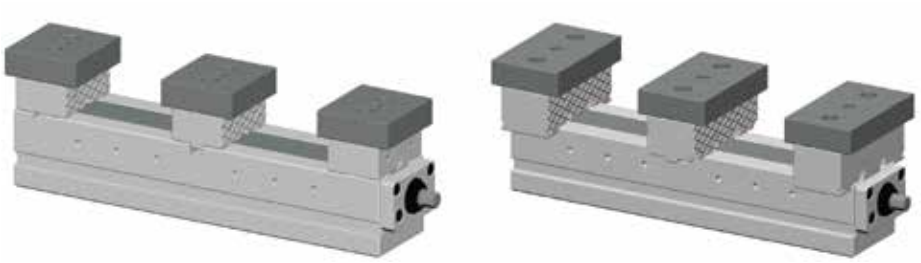

| Codice | Ganasce | A (mm) | A1 (mm) | A2 (mm) | B (mm) | HB (mm) | G (mm) | HG (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MMTG10010100370 | 100 mm | 315 | 235 | 155 | 100 | 90 | 98 | 38 | 412 | 368 | 29 | 1 | **2.172,50** |
| MMTG10010100470 | 100 mm | 415 | 335 | 255 | 100 | 90 | 98 | 38 | 512 | 468 | 35 | 1 | **2.505,00** |
| MMTG10010100570 | 100 mm | 515 | 435 | 355 | 100 | 90 | 98 | 38 | 612 | 568 | 41 | 1 | **2.827,50** |

## Riparo per morsa modulare TOP



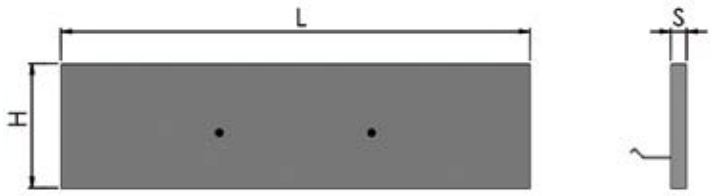
| Codice | Dimensioni | L | | € / cad. |
|---|---|---|---|---|
| MMTS100101RI050 | 100 mm | 50 mm | 1 | **14,50** |
| MMTS100101RI080 | 100 mm | 80 mm | 1 | **14,50** |
| MMTS100101RI100 | 100 mm | 100 mm | 1 | **14,50** |
| MMTS100101RI130 | 100 mm | 130 mm | 1 | **14,50** |
| MMTS100101RI150 | 100 mm | 150 mm | 1 | **16,25** |
| MMTS100101RI245 | 100 mm | 245 mm | 1 | **18,00** |
| MMTS100101RI345 | 100 mm | 345 mm | 1 | **21,75** |
| MMTS100101RF100 | 100 mm | - | 1 | **12,75** |

## Sovraganascia tenera per morsa modulare TOP



| Codice | Ganascia | | € / cad. |
|---|---|---|---|
| MMTS10010100100 | 100 mm | 1 | **a richiesta** |
| MMTS10010100150 | 150 mm | 1 | **a richiesta** |

## Parallele ad aggancio rapido (spessore 5 mm) per morsa modulare TOP

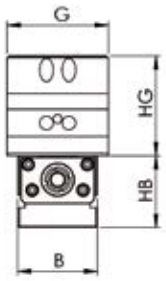


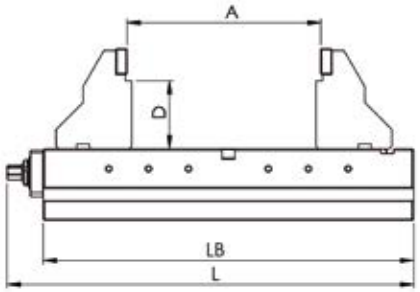

| Codice | Ganasce | H | S | | € / cad. |
|---|---|---|---|---|---|
| MM01000101PL524 | 100 mm | 34 mm | 5 mm | 1 | **72,00** |
| MM01000101PL529 | 100 mm | 39 mm | 5 mm | 1 | **72,00** |
| MM01000101PL534 | 100 mm | 44 mm | 5 mm | 1 | **72,00** |
| MM01000101PLKIT* | 100 mm | - | 5 mm | 3 coppie | **432,50** |

* Kit 3 coppie

## Morsa modulare TOP 5 assi






| Codice | Ganasce | A (mm) | B (mm) | HB (mm) | D (mm) | G (mm) | HG (mm) | L (mm) | LB (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM5A010100370 | 125 mm | 15-190 | 100 | 90 | 85 | 127 | 125 | 412 | 368 | 21,5 | 1 | **2.632,50** |
| MM5A010100470 | 125 mm | 15-290 | 100 | 90 | 85 | 127 | 125 | 512 | 468 | 25,5 | 1 | **2.957,50** |
| MM5A010100570 | 125 mm | 15-390 | 100 | 90 | 85 | 127 | 125 | 612 | 568 | 33 | 1 | **3.280,00** |

## Ganascia fissa romboidale-romboidale per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110ROF | Fissa | 100 mm | 1 | **288,00** |
| MMTS10010115ROF | Fissa | 150 mm | 1 | **288,00** |

## Ganascia fissa rigata-rigata per morsa modulare TOP



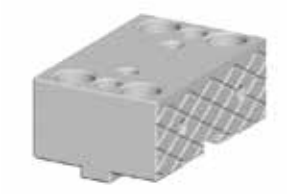
| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110RIF | Fissa | 100 mm | 1 | **288,00** |
| MMTS10010115RIF | Fissa | 150 mm | 1 | **288,00** |

## Ganascia fissa liscia-liscia per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110LIF | Fissa | 100 mm | 1 | **288,00** |
| MMTS10010115LIF | Fissa | 150 mm | 1 | **288,00** |

## Ganascia fissa liscia-romboidale per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110RLF | Fissa | 100 mm | 1 | **288,00** |
| MMTS10010115RLF | Fissa | 150 mm | 1 | **288,00** |

## Ganascia fissa liscia-rigata per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110GLF | Fissa | 100 mm | 1 | **288,00** |
| MMTS10010115GLF | Fissa | 150 mm | 1 | **288,00** |

## Ganascia mobile liscia-romboidale per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110RLM | Mobile | 100 mm | 1 | **288,00** |
| MMTS10010115RLM | Mobile | 150 mm | 1 | **450,00** |

## Ganascia mobile liscia-rigata per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110GLM | Mobile | 100 mm | 1 | **288,00** |
| MMTS10010115GLM | Mobile | 150 mm | 1 | **450,00** |

## Ganascia mobile a gradini per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110GRM | Mobile | 100 mm | 1 | **370,00** |

## Ganascia mobile intermedia romboidale-romboidale per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110ROI | Mobile | 100 mm | 1 | **396,25** |
| MMTS10010115ROI | Mobile | 150 mm | 1 | **432,50** |

## Ganascia mobile intermedia rigata-rigata per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110RII | Mobile | 100 mm | 1 | **396,25** |
| MMTS10010115RII | Mobile | 150 mm | 1 | **432,50** |

## Ganascia mobile intermedia liscia-liscia per morsa modulare TOP



| Codice | Tipologia | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS10010110LII | Mobile | 100 mm | 1 | **396,25** |
| MMTS10010115LII | Mobile | 150 mm | 1 | **432,50** |

## Staffa laterale standard per morsa modulare TOP



| Codice | Larghezza ganascia | Cava | | € / cad. |
|---|---|---|---|---|
| MMTS100101TA12 | 100 mm | 12 mm | 1 | **68,50** |
| MMTS100101TA14 | 100 mm | 14 mm | 1 | **68,50** |
| MMTS100101TA16 | 100 mm | 16 mm | 1 | **68,50** |
| MMTS100101TA18 | 100 mm | 18 mm | 1 | **68,50** |
| MMTS100101TA20 | 100 mm | 20 mm | 1 | **68,50** |
| MMTS100101TA22 | 100 mm | 22 mm | 1 | **68,50** |

## Chiave a pipa esagonale per morsa modulare TOP



| Codice | Larghezza ganascia | Ø chiave | | € / cad. |
|---|---|---|---|---|
| MM00170101RIC12 | 100 mm | 17 mm | 1 | **74,25** |

## Chiocciola autocentrante per morsa modulare TOP o 5 assi



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101CHADX | 100 mm - sinistra | 1 | **325,00** |
| MMTS100101CHASX | 100 mm - destra | 1 | **325,00** |

## Chiocciola per morsa modulare TOP



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101CHSDX | 100 mm - sinistra | 1 | **280,00** |
| MMTS100101CHSSX | 100 mm - destra | 1 | **280,00** |

## Contrasto per vite comando autocentrante morsa modulare TOP



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101CONTA | 100-150 mm | 1 | **105,00** |

## Rocchetto per vite comando autocentrante morsa modulare TOP



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101ROCCA | 100-150 mm | 1 | **122,50** |

## Tassello centrale per morsa modulare TOP semplice



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101TASSS | 100-150 mm | 1 | **32,50** |

## Supporto per vite comando morsa modulare TOP



| Codice | Vite | Larghezza ganascia | | € / cad. |
|---|---|---|---|---|
| MMTS100101SUPPA | semplice | 100-150 mm | 1 | **72,50** |
| MMTS100101SUPPD | doppia | 100-150 mm | 1 | **100,00** |
| MMTS100101SUPPS | autocentrante | 100-150 mm | 1 | **108,00** |

## Molla a tazza per morsa modulare TOP doppia



| Codice | Larghezza ganascia | | € / cad. |
|---|---|---|---|
| MMTS100101MOLLD | 100-150 mm | 1 | **21,63** |

# 4 STRUMENTIMISURA



Calibri digitali e meccanici     527-553

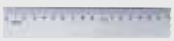
Micrometri     554-567

Comparatori    567-571

Tastatori e alesametri     572-575

Strumenti controllo e truschini     576-583

Goniometri    584-585

Squadre, righe e livelle     586-593

Blocchetti, tamponi ed accessori      594-598

Durometri    598-599

Spessimetri    600-601

Tracciatori     602-604

Presetting   604-605

# Legenda simboli

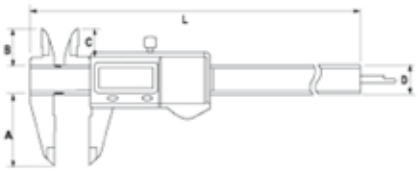
| | |
|---|---|
| IP 54 | IP 54 |
| IP 65 | IP 65 |
| IP 66 | IP 66 |
| IP 67 | IP 67 |
| 0,01 mm. | Risoluzione centesimale |
| 0,001 mm. | Risoluzione millesimale |
| 1,5V | Batteria litio 1,5 V |
| 3V | Batteria litio 3 V |
| LCD | Display LCD |
| LCD | Display LCD con numeri grandi |
| | Quadrante girevole |
| | Asta di profondità piatta |
| | Asta di profondità tonda |
| 6,5mm | Stelo Ø 6,5 mm |
| 8mm | Stelo Ø 8 mm |
| mm inch | Convertitore mm/pollici |
| DATI | Uscita dati |
| | Dispositivo antiurto |
| INOX | Acciaio INOX temperato |
| | Superfici di contatto in MD |
| DIN | DIN |
| Norma | Esecuzione accurata |
| | Custodia rigida |
| | Custodia morbida |
| OK! | OK dati |

## Calibro a corsoio digitale IP67



### Caratteristiche

Calibro a corsoio digitale con alto grado di protezione contro la penetrazione di polveri e liquidi anche in immersione temporanea. Bloccaggio a vite. Accensione e spegnimento con pulsante. Conversione mm/pollici. Risoluzione 0,01.



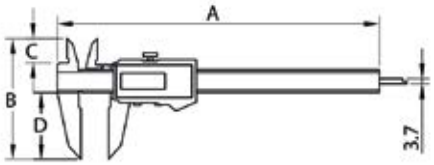
| Codice | Campo di misura | A | B | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2200010100150 | 0-150 mm | 40 mm | 22 mm | 16 mm | 16 mm | 1 | **207,00** |
| SM2200010100200 | 0-200 mm | 50 mm | 22 mm | 17 mm | 16 mm | 1 | **262,20** |
| SM2200010100300 | 0-300 mm | 62 mm | 22 mm | 17 mm | 16 mm | 1 | **310,50** |

## Calibro a corsoio digitale IP67



### Caratteristiche

Calibro a corsoio digitale. In acciaio inox temprato. Bloccaggio a vite. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Risoluzione 0,01.




| Codice | Campo di misura | A | B | C | D | Becchi | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM2030010200150 | 0-150 mm | 234 mm | 76 mm | 17 mm | 40 mm | Acciaio inox | 1 | **282,00** |
| SM2030010201501 | 0-150 mm | 233 mm | 85 mm | 16 mm | 47 mm | Acciaio inox | 1 | **291,00** |
| SM2030010200200 | 0-200 mm | 290 mm | 96 mm | 20 mm | 55 mm | Acciaio inox | 1 | **442,50** |
| SM2030010200250 | 0-250 mm | 340 mm | 96 mm | 20 mm | 55 mm | Acciaio inox | 1 | **465,00** |
| SM2030010200300 | 0-300 mm | 390 mm | 96 mm | 20 mm | 55 mm | Acciaio inox | 1 | **570,00** |
| SM2030010201155 | 0-155 mm | 233 mm | 233 mm | 16 mm | 47 mm | Metallo duro | 1 | **585,00** |
| SM2030010201200 | 0-200 mm | 290 mm | 290 mm | 20 mm | 47 mm | Metallo duro | 1 | **622,50** |
| SM2030010202200 | 0-200 mm | 290 mm | 290 mm | 20 mm | 55 mm | Metallo duro | 1 | **690,00** |
| SM2030010201250 | 0-250 mm | 340 mm | 340 mm | 20 mm | 55 mm | Metallo duro | 1 | **742,50** |
| SM2030010201300 | 0-300 mm | 390 mm | 390 mm | 20 mm | 55 mm | Metallo duro | 1 | **840,00** |

## Calibro digitale con display LCD IP54



### Caratteristiche

Calibro a corsoio digitale con grande display a cristalli liquidi LCD (altezza cifre 7,5 mm). Conversione mm/pollici. Quattro tipi di misurazione. Accensione e spegnimento con pulsante. Accensione e spegnimento automatico. Azzeramento in qualsiasi posizione. Dotato di ABS. Risoluzione 0,01.



| Codice | Campo di misura | A | B | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2500010100150 | 0-150 mm | 40 mm | 20 mm | 15,5 mm | 16 mm | 1 | **115,58** |
| SM2500010100200 | 0-200 mm | 50 mm | 24 mm | 19 mm | 16 mm | 1 | **141,45** |
| SM2500010100300 | 0-300 mm | 60 mm | 26 mm | 21 mm | 16 mm | 1 | **213,90** |

## Calibro a corsoio digitale



### Caratteristiche

Calibro a corsoio digitale con grande display a cristalli liquidi LCD. Conversione mm/pollici. Accensione e spegnimento con pulsante. Accensione e spegnimento automatico. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Quattro tipi di misurazione. Risoluzione 0,01.



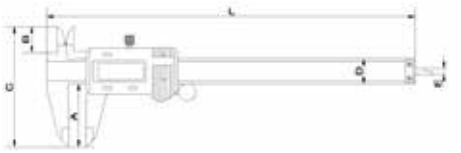
| Codice | Campo di misura | A | B | C | D | E | L | Asta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SM2040010100150 | 0-150 mm | 40 mm | 16 mm | 76 mm | 16 mm | 1,5 mm | 235 mm | tonda | 1 | **86,25** |
| SM2040010100200 | 0-200 mm | 50 mm | 18 mm | 81 mm | 16 mm | 3,5 mm | 290 mm | piatta | 1 | **113,85** |
| SM2040010100300 | 0-300 mm | 62 mm | 18 mm | 100 mm | 16 mm | 3,5 mm | 380 mm | piatta | 1 | **188,03** |

## Calibro a corsoio digitale ECO



### Caratteristiche

Calibro a corsoio digitale, versione economica. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Conversione mm/pollici. Risoluzione 0,01.



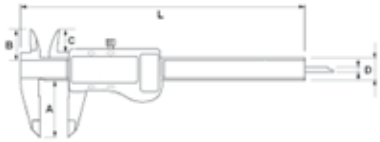
| Codice | Campo di misura | A | B | C | D | E | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SM2600010100150 | 0-150 mm | 44 mm | 16,5 mm | 76,5 mm | 16 mm | 4 mm | 236 mm | 1 | **32,78** |
| SM2600010100200 | 0-200 mm | 50 mm | 19,7 mm | 90 mm | 16 mm | 4 mm | 290 mm | 1 | **63,83** |

## Calibro digitale con cassa in metallo



### Caratteristiche

Calibro a corsoio digitale con becchi e punte con inserti in metallo duro. Bloccaggio a vite. Accensione e spegnimento con pulsante. Conversione mm/pollici. Risoluzione 0,01.



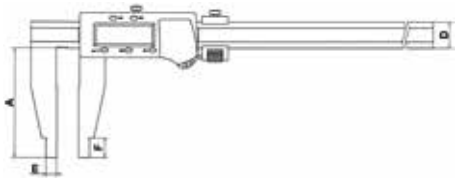
| Codice | Campo di misura | A | B | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2000010100100 | 0-100 mm | 30 mm | 13 mm | 11 mm | 12 mm | 1 | **62,10** |
| SM2000010100150 | 0-150 mm | 40 mm | 18 mm | 15 mm | 16 mm | 1 | **56,93** |
| SM2000010100200 | 0-200 mm | 50 mm | 18 mm | 16 mm | 16 mm | 1 | **84,53** |
| SM2000010100300 | 0-300 mm | 62 mm | 21 mm | 17 mm | 16 mm | 1 | **124,20** |

## Calibro elettronico digitale



### Caratteristiche

Calibro a corsoio elettronico digitale con regolazione micrometrica. In acciaio inox. Grande display a cristalli liquidi LCD. Accensione e spegnimento con pulsante. Bloccaggio a vite. Dotato di ABS. Risoluzione 0,01.



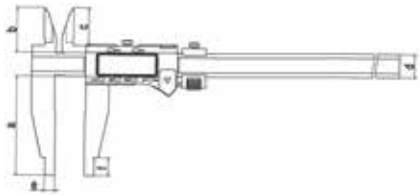
| Codice | Campo di misura | A | D | E | F | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2700010100300 | 0-300 mm | 100 mm | 24 mm | 10 mm | 18 mm | 1 | **232,88** |
| SM2700010100500 | 0-500 mm | 150 mm | 24 mm | 10 mm | 18 mm | 1 | **310,50** |
| SM2700010100600 | 0-600 mm | 150 mm | 24 mm | 10 mm | 18 mm | 1 | **557,50** |
| SM2700010100800 | 0-800 mm | 150 mm | 31 mm | 10 mm | 16 mm | 1 | **712,50** |
| SM2700010101000 | 0-1000 mm | 150 mm | 31 mm | 10 mm | 16 mm | 1 | **982,50** |

## Calibro digitale con punte per interni ed esterni



### Caratteristiche

Calibro a corsoio digitale con punte per interni ed esterni. Regolazione micrometrica. Grande display a cristalli liquidi LCD. Accensione e spegnimento con pulsante. Bloccaggio a vite. Risoluzione 0,01.



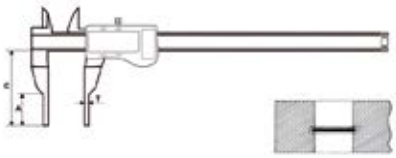
| Codice | Campo di misura | A | B | C | D | E | F | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SM2700010100030 | 0-300 mm | 100 mm | 42 mm | 36,5 mm | 20 mm | 5 mm | 12 mm | 1 | **350,18** |
| SM2700010100060 | 0-600 mm | 150 mm | 60 mm | 51,5 mm | 31 mm | 10 mm | 24 mm | 1 | **634,80** |
| SM2700010100100 | 0-1000 mm | 150 mm | 60 mm | 51,5 mm | 31 mm | 10 mm | 24 mm | 1 | **1.152,30** |

## Calibro digitale per gole interne



### Caratteristiche

Calibro a corsoio digitale per la misurazione di gole interne ed esterne. In acciaio inox. Accensione e spegnimento con pulsante. Dotato di funzione presettaggio. Bloccaggio a vite. Filetto 2,5 mm. Risoluzione 0,01. Puntalini intercambiabili, da ordinare separatamente.



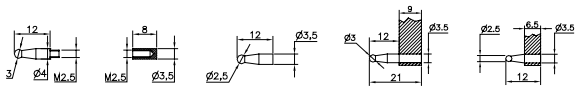
| Codice | Campo di misura | A | C | T | | € / cad. |
|---|---|---|---|---|---|---|
| SM2800010100150 | 0-150 mm | 23 mm | 50 mm | 5 mm | 1 | **258,75** |
| SM2800010100200 | 0-200 mm | 23 mm | 50 mm | 5 mm | 1 | **310,50** |

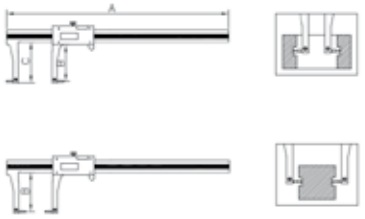
## Calibro digitale per gole interne ed esterne IP67



### Caratteristiche

Calibro a corsoio digitale per la misurazione di gole interne ed esterne. In acciaio inox temprato. Uscita dati elettronica RS 232 mm, resistente all'acqua. Puntalini intercambiabili, da ordinare separatamente. Coppia di terminali sferici da 3 mm, di serie. Fornito in scatola di legno. Risoluzione 0,01.





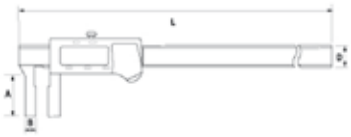
| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM1300010200250 | interno: 24-250 mm esterno: 0-210 mm | 310 mm | 52 mm 61 mm | 64 mm | 1 | **1.110,00** |
| SM1300010200350 | interno: 42-350 mm esterno: 0-270 mm | 420 mm | 96 mm 100 mm | 103 mm | 1 | **1.230,00** |
| SM1300010200450 | interno: 42-450 mm esterno: 0-370 mm | 520 mm | 96 mm 100 mm | 103 mm | 1 | **1.492,50** |
| SM1300010200650 | interno: 42-650 mm esterno: 0-570 mm | 720 mm | 96 mm 100 mm | 103 mm | 1 | **1.950,00** |

## Calibro digitale con puntalini intercambiabili



### Caratteristiche

Calibro a corsoio digitale con puntalini intercambiabili. Corsoio con vite di regolazione micrometrica e vite di bloccaggio. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Dotato di ABS. Puntalini da ordinare separatamente. Risoluzione 0,01.



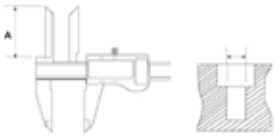
| Codice | Campo di misura | A | B | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2002010100300 | interno: 24-250 mm esterno: 0-210 mm | 75 mm | 12 mm | 19 mm | 430 mm | 1 | **621,00** |
| SM2002010100500 | interno: 42-350 mm esterno: 0-270 mm | 88 mm | 16 mm | 23 mm | 680 mm | 1 | **802,13** |

## Calibro digitale con punte lunghe



### Caratteristiche

Calibro a corsoio digitale con punte lunghe. In acciaio inox. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Risoluzione 0,01.



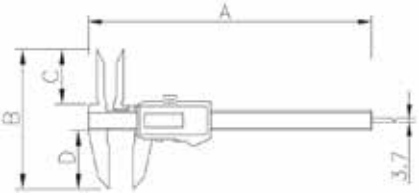
| Codice | Campo di misura | A | Becchi | | € / cad. |
|---|---|---|---|---|---|
| SM280001010150L | 0-150 mm | 45 mm | 40 mm | 1 | **246,68** |
| SM280001010200L | 0-200 mm | 50 mm | 50 mm | 1 | **279,45** |
| SM280001010300L | 0-300 mm | 50 mm | 62 mm | 1 | **382,95** |

## Calibro a corsoio digitale IP67



### Caratteristiche

Calibro a corsoio digitale. In acciaio inox temprato. Becche superiori 45 mm. Bloccaggio a vite. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Risoluzione 0,01.



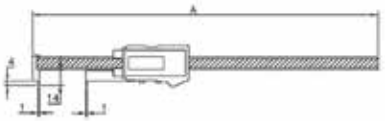
| Codice | Campo di misura | A | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2040010200150 | 0-150 mm | 233 mm | 113 mm | 45 mm | 47 mm | 1 | **690,00** |

## Calibro digitale per cave interne IP67



### Caratteristiche

Calibro a corsoio digitale per la misurazione di cave interne,con becchi corti. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Fornito in scatola di legno. Risoluzione 0,01.



LCD · mm inch · INOX · DATI · 0,01 mm. · IP 67

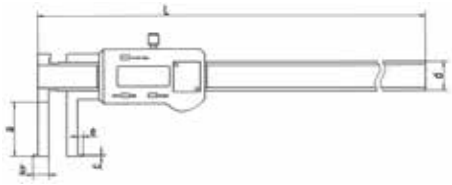
| Codice | Campo di misura | A | | € / cad. |
|---|---|---|---|---|
| SM1800010200200 | interno: 2-200 mm esterno: 0-200 mm | 312 mm | 1 | **1.191,00** |

## Calibro digitale per cave interne



### Caratteristiche

Calibro a corsoio digitale per la misurazione di cave interne. In acciaio inox. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Dotato di funzione presettaggio. Risoluzione 0,01.



LCD · INOX · mm inch · 1,5V · 0,01 mm.

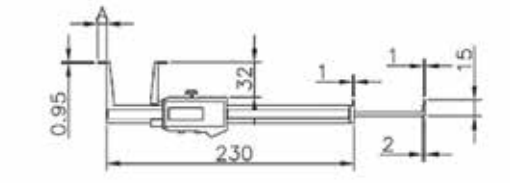
| Codice | Campo di misura | A | B | C | D | E | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SM2900010100150 | 14-150 mm | 30 mm | 12 mm | 1 mm | 16 mm | 5 mm | 236 mm | 1 | **272,55** |
| SM2900010100200 | 15-200 mm | 40 mm | 13 mm | 1 mm | 16 mm | 5 mm | 290 mm | 1 | **324,30** |
| SM2900010100300 | 17-300 mm | 50 mm | 15 mm | 1,5 mm | 17 mm | 5 mm | 400 mm | 1 | **376,05** |
| SM2900010100500 | 35-500 mm | 120 mm | 33 mm | 1,5 mm | 24 mm | 8 mm | 670 mm | 1 | **445,05** |

## Calibro digitale per gole e canalini IP67



### Caratteristiche

Calibro a corsoio digitale per la misurazione di gole e canalini. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Risoluzione 0,01.




LCD · mm inch · INOX · DATI · 0,01 mm. · IP 67

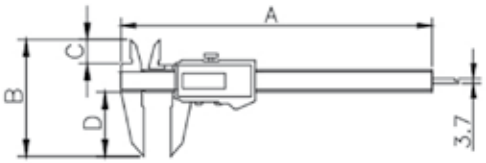
| Codice | Campo di misura | A | | € / cad. |
|---|---|---|---|---|
| SM1020010200170 | 10-170 mm | 3,5 mm | 1 | **729,00** |
| SM1020010200180 | 20-180 mm | 8,5 mm | 1 | **780,00** |

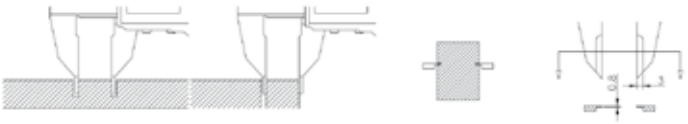
## Calibro digitale per gole Seeger IP67



### Caratteristiche

Calibro a corsoio digitale per la misurazione di gole Seeger. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Risoluzione 0,01.



LCD · mm inch · DATI · 0,01 mm. · IP 67

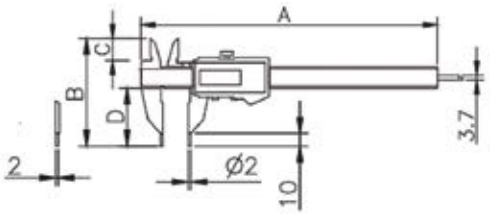
| Codice | Campo di misura | A | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM1900010200150 | 0-150 mm | 233 mm | 85 mm | 16 mm | 47 mm | 1 | **480,00** |
| SM1900010200200 | 0-200 mm | 290 mm | 96 mm | 20 mm | 55 mm | 1 | **592,50** |
| SM1900010200250 | 0-250 mm | 340 mm | 96 mm | 20 mm | 55 mm | 1 | **735,00** |

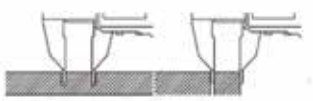
## Calibro digitale per piccoli canalini e fori IP67



### Caratteristiche

Calibro a corsoio digitale per la misurazione di piccoli canalini e fori. Uscita dati elettronica RS 232 mm, resistente all'acqua. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Risoluzione 0,01.



LCD · mm inch · DATI · 0,01 mm. · IP 67

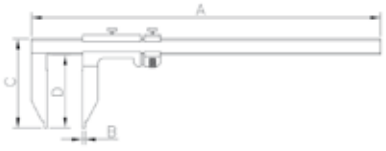
| Codice | Campo di misura | A | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM1010010200150 | 0-150 mm | 233 mm | 85 mm | 16 mm | 47 mm | 1 | **600,00** |

## Calibro digitale per misure interne ed esterne con doppio carrello IP67

### Caratteristiche

Calibro a corsoio digitale per misure interne ed esterne, con doppio carrello di regolazione fine. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Fornito in scatola di legno. Risoluzione 0,01.






LCD · INOX · mm inch · 3V · OK! · DATI · 0,01 mm. · IP 67

| Codice | Campo di misura | A | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2050010200400 | 0-400 mm | 560 mm | 5 mm | 122 mm | 100 mm | 1 | **1.530,00** |
| SM2050010200500 | 0-500 mm | 650 mm | 5 mm | 148 mm | 125 mm | 1 | **1.500,00** |
| SM2050010205001 | 0-500 mm | 660 mm | 5 mm | 148 mm | 125 mm | 1 | **1.650,00** |
| SM2050010200600 | 0-600 mm | 760 mm | 5 mm | 148 mm | 125 mm | 1 | **1.695,00** |
| SM2050010206001 | 0-600 mm | 800 mm | 5 mm | 177 mm | 150 mm | 1 | **1.950,00** |
| SM2050010200800 | 0-800 mm | 1000 mm | 5 mm | 177 mm | 150 mm | 1 | **2.250,00** |
| SM2050010201000 | 0-1000 mm | 1200 mm | 10 mm | 182 mm | 150 mm | 1 | **2.700,00** |

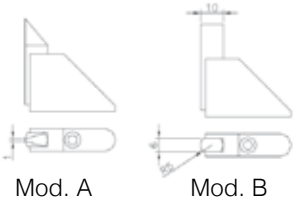
## Calibro digitale in fibra di carbonio IP54



### Caratteristiche

Calibro a corsoio digitale in fibra di carbonio. Becchi ricoperti TiN. Becchi superiori a scelta (mod.A o mod.B). Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Bloccaggio a vite. Carrello di regolazione fine. Fornito in scatola di legno. Risoluzione 0,01.





Mod. A Mod. B

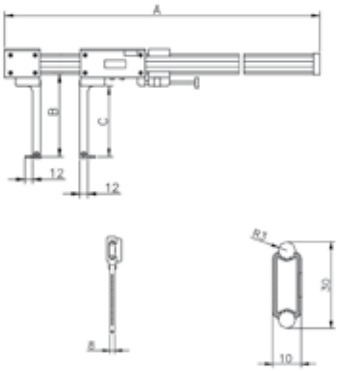
| Codice | Campo di misura | A | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2060010210001 | 0-1000 mm | 1310 mm | 247 mm | 125 mm | 150 mm | 1 | **2.445,00** |
| SM2060010210002 | 0-1000 mm | 1310 mm | 297 mm | 160 mm | 200 mm | 1 | **3.015,00** |
| SM2060010210003 | 0-1000 mm | 1310 mm | 397 mm | 240 mm | 300 mm | 1 | **3.975,00** |
| SM2060010210005 | 0-1000 mm | 1310 mm | 597 mm | 440 mm | 500 mm | 1 | **4.920,00** |
| SM2060010215001 | 0-1500 mm | 1810 mm | 247 mm | 125 mm | 150 mm | 1 | **3.855,00** |
| SM2060010215002 | 0-1500 mm | 1810 mm | 297 mm | 160 mm | 200 mm | 1 | **4.170,00** |
| SM2060010215003 | 0-1500 mm | 1810 mm | 397 mm | 240 mm | 300 mm | 1 | **5.430,00** |
| SM2060010215005 | 0-1500 mm | 1810 mm | 597 mm | 440 mm | 500 mm | 1 | **6.600,00** |
| SM2060010220001 | 0-2000 mm | 2310 mm | 247 mm | 125 mm | 150 mm | 1 | **4.575,00** |
| SM2060010220002 | 0-2000 mm | 2310 mm | 297 mm | 160 mm | 200 mm | 1 | **5.100,00** |
| SM2060010220003 | 0-2000 mm | 2310 mm | 397 mm | 240 mm | 300 mm | 1 | **6.450,00** |
| SM2060010220005 | 0-2000 mm | 2310 mm | 597 mm | 440 mm | 500 mm | 1 | **7.425,00** |
| SM2060010225002 | 0-2500 mm | 2810 mm | 297 mm | 160 mm | 200 mm | 1 | **6.675,00** |
| SM2060010225003 | 0-2500 mm | 2810 mm | 397 mm | 240 mm | 300 mm | 1 | **7.470,00** |
| SM2060010230002 | 0-3000 mm | 3310 mm | 297 mm | 160 mm | 200 mm | 1 | **7.575,00** |
| SM2060010230003 | 0-3000 mm | 3310 mm | 397 mm | 240 mm | 300 mm | 1 | **8.175,00** |

## Calibro digitale in fibra di carbonio per gole profonde IP54



### Caratteristiche

Calibro a corsoio digitale in fibra di carbonio per la misurazione di gole profonde. Con cursore supersensibile e precarica I/E. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Bloccaggio a vite. Puntalini intercambiabili. Fornito in scatola di legno. Risoluzione 0,01.




LCD · mm inch · DATI · 0,01 mm. · IP 54

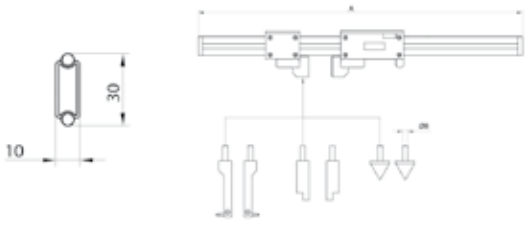
| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM2070010240012 | interno: 48-448 mm esterno: 0-376 mm | 610 mm | 125 mm | 107 mm | 1 | **3.300,00** |
| SM2070010240015 | interno: 48-448 mm esterno: 0-376 mm | 610 mm | 150 mm | 132 mm | 1 | **3.570,00** |
| SM2070010260012 | interno: 48-648 mm esterno: 0-576 mm | 810 mm | 125 mm | 107 mm | 1 | **3.900,00** |
| SM2070010260015 | interno: 48-648 mm esterno: 0-576 mm | 810 mm | 150 mm | 132 mm | 1 | **4.200,00** |
| SM2070010280012 | interno: 48-848 mm esterno: 0-776 mm | 1010 mm | 125 mm | 107 mm | 1 | **4.350,00** |
| SM2070010280015 | interno: 48-848 mm esterno: 0-776 mm | 1010 mm | 150 mm | 132 mm | 1 | **4.485,00** |

## Calibro digitale multifunzione IP67



### Caratteristiche

Calibro digitale multifunzione con doppio corsoio mobile. Corpo in fibra di carbonio. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Bloccaggio a vite. Puntalini intercambiabili da ordinare separatamente. Fornito in scatola di legno. Risoluzione 0,01.




LCD · mm inch · DATI · 0,01 mm. · IP 67

| Codice | Campo di misura | A | | € / cad. |
|---|---|---|---|---|
| SM2080010200400 | 0-400 mm | 610 mm | 1 | **2.070,00** |
| SM2080010200600 | 0-600 mm | 810 mm | 1 | **2.250,00** |
| SM2080010201000 | 0-1000 mm | 1210 mm | 1 | **3.165,00** |

## Puntalini per filettature interne ed esterne




### Caratteristiche

Puntalini per filettature interne ed esterne

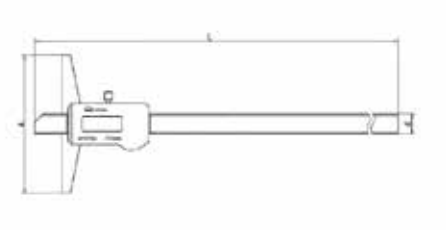
| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM4000030100033 | 0,4-0,5 mm | 1 | **266,70** |
| SM4000030100034 | 0,6-0,9 mm | 1 | **266,70** |
| SM4000030100035 | 1-1,75 mm | 1 | **266,70** |
| SM4000030100036 | 2-3 mm | 1 | **266,70** |
| SM4000030100037 | 3,5-5 mm | 1 | **266,70** |
| SM4000030100038 | 5,5-7 mm | 1 | **266,70** |

## Calibro digitale di profondità



### Caratteristiche

Calibro digitale di profondità. In acciaio inox. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Bloccaggio a vite. Risoluzione 0,01.






| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM2003010100150 | 0-150 mm | 100 mm | 14,5 mm | 230 mm | 1 | **103,50** |
| SM2003010100200 | 0-200 mm | 100 mm | 14,5 mm | 280 mm | 1 | **117,30** |
| SM2003010100300 | 0-300 mm | 150 mm | 14,5 mm | 380 mm | 1 | **169,05** |
| SM2003010100500 | 0-500 mm | 150 mm | 16 mm | 590 mm | 1 | **284,63** |
| SM2003010101000 | 0-1000 mm | 200 mm | 18 mm | 1200 mm | 1 | **931,50** |

## Calibro digitale di profondità per piccoli fori IP67



### Caratteristiche

Calibro a corsoio digitale di profondità per la misurazione di piccoli fori a partire da Ø 6mm. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Bloccaggio a vite. Fornito in scatola di legno. Risoluzione 0,01.



LCD · mm inch · INOX · DATI · 0,01 mm. · IP 67

| Codice | Campo di misura | Spina | | € / cad. |
|---|---|---|---|---|
| SM1700010200120 | 0-120 mm | 78x0,9 mm | 1 | **810,00** |
| SM1700010201201 - 120° | 0-120 mm | 5,8x0,6 mm | 1 | **810,00** |

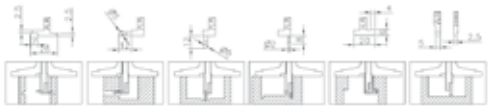
## Calibro digitale di profondità IP67



### Caratteristiche

Calibro a corsoio digitale di profondità IP67. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Puntale intercambiabile tiro/spinta sullo stesso piano. Bloccaggio a vite. Fornito in scatola di legno. Risoluzione 0,01.





IP 67 · LCD · INOX · mm inch · DATI · 0,01 mm.

| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM1400010200150 | 0-150 mm | 250 mm | 8 mm | 105 mm | 1 | **675,00** |
| SM1400010200200 | 0-200 mm | 300 mm | 10 mm | 105 mm | 1 | **690,00** |
| SM1400010200250 | 0-250 mm | 350 mm | 10 mm | 105 mm | 1 | **727,50** |
| SM1400010200300 | 0-300 mm | 400 mm | 10 mm | 105 mm | 1 | **795,00** |
| SM1400010200400 | 0-400 mm | 500 mm | 10 mm | 105 mm | 1 | **915,00** |
| SM1400010200500 | 0-500 mm | 600 mm | 10 mm | 105 mm | 1 | **1.065,00** |
| SM1400010200600 | 0-600 mm | 700 mm | 10 mm | 105 mm | 1 | **1.260,00** |

## Calibro a corsoio digitale di profondità IP67



### Caratteristiche

Calibro a corsoio digitale di profondità IP67. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Puntale intercambiabile tiro/spinta sullo stesso piano. Bloccaggio a vite. Fornito in scatola di legno. Risoluzione 0,01.



IP 67 · LCD · INOX · mm inch · DATI · 0,01 mm.

| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM1500010200300 | 0-300 mm | 400 mm | 12 mm | 150 mm | 1 | **810,00** |
| SM1500010200400 | 0-400 mm | 500 mm | 12 mm | 150 mm | 1 | **982,50** |
| SM1500010200500 | 0-500 mm | 600 mm | 12 mm | 150 mm | 1 | **1.074,00** |
| SM1500010200600 | 0-600 mm | 700 mm | 12 mm | 150 mm | 1 | **1200,00** |

## Calibro digitale di profondità a ponte mobile IP67



### Caratteristiche

Calibro a corsoio digitale di profondità a ponte mobile. In acciaio inox temprato. Uscita dati elettronica RS 232 mm/ pollici, resistente all'acqua. Bloccaggio a vite. Puntale intercambiabile tiro/spinta sullo stesso piano. Fornito in scatola di legno. Risoluzione 0,01.



IP 67 · LCD · INOX · mm inch · DATI · 0,01 mm.

| Codice | Campo di misura | Base | | € / cad. |
|---|---|---|---|---|
| SM1600010200300 | 0-300 mm | 400 mm | 1 | **1.027,50** |
| SM1600010200400 | 0-400 mm | 500 mm | 1 | **1.185,00** |
| SM1600010200500 | 0-500 mm | 600 mm | 1 | **1.395,00** |
| SM1600010200600 | 0-600 mm | 700 mm | 1 | **1.545,00** |
| SM1600010200800 | 0-800 mm | 900 mm | 1 | **2.250,00** |

## Ponte mobile per calibro di profondità

### Caratteristiche

Ponte mobile per calibro di profondità



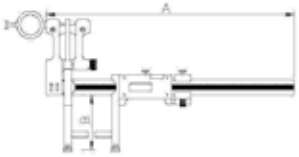
| Codice | Lunghezza | | € / cad. |
|---|---|---|---|
| SM160001020400P | 400 mm | 1 | **701,04** |
| SM160001020500P | 500 mm | 1 | **809,63** |
| SM160001020600P | 600 mm | 1 | **1.047,75** |

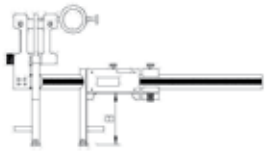
## Calibro a comparazione per interno ed esterno IP54

### Caratteristiche



Calibro a comparazione per misurazioni interne ed esterne. Corpo in lega leggera ed asta in acciaio inox temprato. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Puntali intercambiabili per gole e filetti da ordinare separatamente. Dotazione di serie: comparatore risoluzione 0,01 e coppia di terminali intercambiabili. Fornito in scatola di legno.





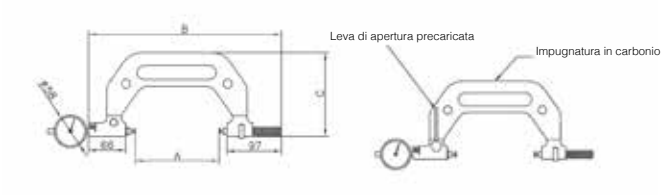
| Codice | Campo di misura | A | B | | € / cad. |
|---|---|---|---|---|---|
| SM2010001020200 | interno: 20-200 mm esterno: 0-138 mm | 325 mm | 55 mm 62 mm | 1 | **2.520,00** |
| SM2010001020300 | interno: 24-300 mm esterno: 0-230 mm | 435 mm | 75 mm 80 mm | 1 | **2.850,00** |
| SM2010001020500 | interno: 24-500 mm esterno: 0-430 mm | 635 mm | 75 mm 80 mm | 1 | **3.375,00** |

## Calibro a forcella



### Caratteristiche

Calibro a forcella in fibra di carbonio. Particolari in lega leggera. Puntali intercambiabili da Ø 3,5 mm. da ordinare separatamente. Corsa utile 5 mm. Dotazione di serie: comparatore risoluzione 0,01. Fornito in scatola di legno.



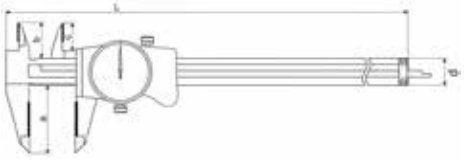

| Codice | Campo di misura | B | C | | € / cad. |
|---|---|---|---|---|---|
| SM2020001020050 | 0-50 mm | 247 mm | 92 mm | 1 | **1.275,00** |
| SM2020001020100 | 50-100 mm | 297 mm | 124 mm | 1 | **1.335,00** |
| SM2020001020150 | 100-150 mm | 347 mm | 150 mm | 1 | **1.485,00** |
| SM2020001020200 | 150-200 mm | 397 mm | 174 mm | 1 | **1.740,00** |
| SM2020001020250 | 200-250 mm | 447 mm | 210 mm | 1 | **1.957,50** |
| SM2020001020300 | 250-300 mm | 497 mm | 234 mm | 1 | **2.295,00** |

## Calibro a orologio



### Caratteristiche

Calibro a corsoio con orologio. In acciaio inox. Quadrante girevole con vite di bloccaggio. Scala cromata opaca. Risoluzione 0,02.



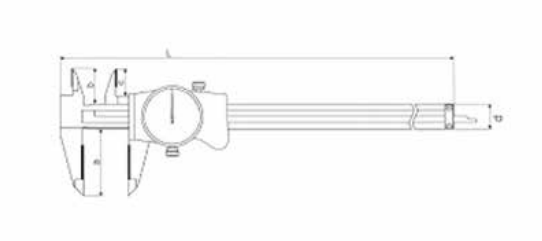
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1050010100150 | 0-150 mm | 40 mm | 20 mm | 14 mm | 16 mm | 235 mm | 1 | **65,55** |
| SM1050010100200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 285 mm | 1 | **82,80** |
| SM1050010100300 | 0-300 mm | 62 mm | 22 mm | 16 mm | 16,5 mm | 400 mm | 1 | **139,73** |

## Calibro a orologio



### Caratteristiche

Calibro a corsoio con orologio. In acciaio inox. Quadrante girevole con vite di bloccaggio. Scala cromata opaca. Risoluzione 0,01.



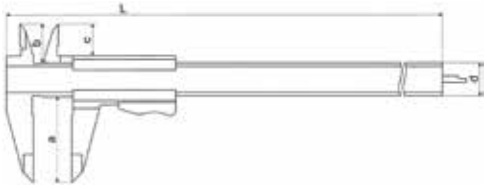
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1050010101150 | 0-150 mm | 40 mm | 20 mm | 16 mm | 16 mm | 235 mm | 1 | **82,80** |
| SM1050010101200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 285 mm | 1 | **94,88** |
| SM1050010101300 | 0-300 mm | 62 mm | 22 mm | 16 mm | 16,5 mm | 400 mm | 1 | **170,78** |

## Calibro a corsoio



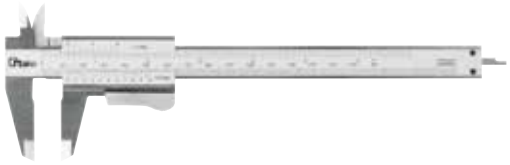
### Caratteristiche

Calibro a corsoio monoblocco. Scala cromata opaca. Bloccaggio a pulsante. Esecuzione accurata. Lettura 0,05.



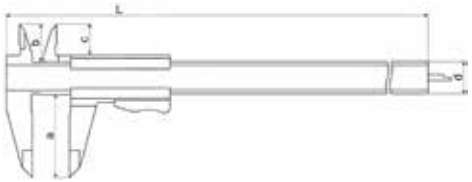
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1100010100150 | 0-150 mm | 40 mm | 20 mm | 16 mm | 16 mm | 235 mm | 1 | **48,30** |
| SM1100010100200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 285 mm | 1 | **82,80** |
| SM1100010100300 | 0-300 mm | 62 mm | 22 mm | 16 mm | 16,5 mm | 400 mm | 1 | **103,50** |

## Calibro a corsoio



### Caratteristiche

Calibro a corsoio monoblocco. Scala cromata opaca. Bloccaggio a pulsante. Lettura 0,05.



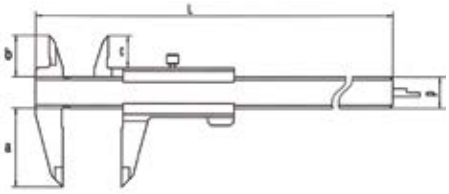
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1200010100150 | 0-150 mm | 40 mm | 20 mm | 16 mm | 16 mm | 235 mm | 1 | **29,33** |
| SM1200010100200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 285 mm | 1 | **46,58** |

## Calibro a corsoio con vite



### Caratteristiche

Calibro a corsoio. Scala cromata opaca. Bloccaggio a vite. Esecuzione accurata. Lettura 0,05.



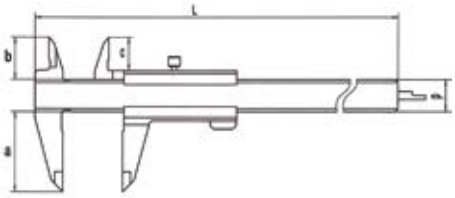
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1000010100150 | 0-150 mm | 40 mm | 20 mm | 15 mm | 16 mm | 230 mm | 1 | **55,89** |
| SM1000010100200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 280 mm | 1 | **91,60** |
| SM1000010100300 | 0-300 mm | 62 mm | 17 mm | 27 mm | 19 mm | 400 mm | 1 | **139,73** |

## Calibro monoblocco cromato



### Caratteristiche

Calibro a corsoio monoblocco cromato. Bloccaggio a vite. Lettura 0,05.



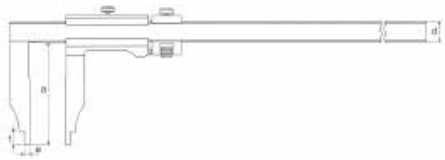
| Codice | Campo di misura | A | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1400010100150 | 0-150 mm | 40 mm | 20 mm | 15 mm | 16 mm | 230 mm | 1 | **29,33** |
| SM1400010100200 | 0-200 mm | 50 mm | 21 mm | 17 mm | 16 mm | 280 mm | 1 | **46,58** |
| SM1400010100300 | 0-300 mm | 62 mm | 17 mm | 27 mm | 19 mm | 400 mm | 1 | **86,25** |

## Calibro a corsoio cromato opaco



### Caratteristiche

Calibro a corsoio cromato opaco. In acciaio inox temprato. Nonio scala ribassata, numerazione incisa e profonda. Superfici di contatto lappate. Bloccaggio a vite. In conformità norma DIN 862. Lettura 0,02.



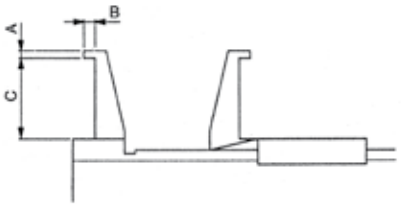
| Codice | Campo di misura | A | D | E | F | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2090010125080 | 0-250 mm | 75 mm | 20 mm | 5 mm | 12 mm | 1 | **169,05** |
| SM2090010130010 | 0-300 mm | 10 mm | 24 mm | 5 mm | 12 mm | 1 | **220,80** |
| SM2090010130015 | 0-300 mm | 150 mm | 24 mm | 5 mm | 12 mm | 1 | **310,50** |
| SM2090010140012 | 0-400 mm | 125 mm | 25 mm | 10 mm | 15 mm | 1 | **336,38** |
| SM2090010150015 | 0-500 mm | 150 mm | 28 mm | 10 mm | 15 mm | 1 | **427,80** |
| SM2090010160015 | 0-600 mm | 150 mm | 28 mm | 10 mm | 15 mm | 1 | **505,43** |
| SM2090010160030 | 0-600 mm | 300 mm | 30 mm | 10 mm | 15 mm | 1 | **931,50** |
| SM2090010180015 | 0-800 mm | 150 mm | 32 mm | 10 mm | 20 mm | 1 | **595,13** |
| SM2090010110015 | 0-1000 mm | 150 mm | 32 mm | 10 mm | 20 mm | 1 | **841,80** |
| SM2090010110030 | 0-1000 mm | 300 mm | 32 mm | 10 mm | 20 mm | 1 | **1.267,88** |
| SM2090010110050 | 0-1000 mm | 500 mm | 32 mm | 10 mm | 20 mm | 1 | **2.135,55** |
| SM2090010115015 | 0-1500 mm | 150 mm | 40 mm | 10 mm | 20 mm | 1 | **2.173,50** |
| SM2090010120030 | 0-2000 mm | 300 mm | 40 mm | 10 mm | 20 mm | 1 | **3.041,18** |

## Calibro rovescio per gole interne



### Caratteristiche

Calibro rovescio a corsoio per la misurazione di gole interne. Scala cromata opaca. Bloccaggio a vite. Lettura 0,05.



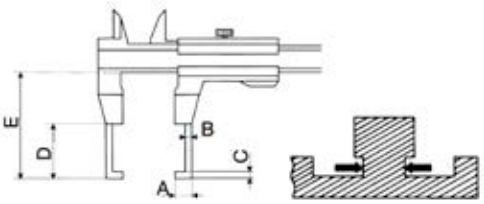

| Codice | Campo di misura | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|
| SM1601010100160 | 9,5-160 mm | 0,9 mm | 3 mm | 25 mm | 1 | **121,10** |
| SM1601010100200 | 26-200 mm | 3 mm | 7 mm | 60 mm | 1 | **201,83** |
| SM1601010100300 | 60-300 mm | 5 mm | 10 mm | 100 mm | 1 | **341,55** |

## Calibro monoblocco con puntalini interni



### Caratteristiche

Calibro monoblocco a corsoio con puntalini rivolti verso l'interno per la misurazione di gole esterne. In acciaio inox cromato. Bloccaggio con pulsante. Lettura 1/20 – 1/28".



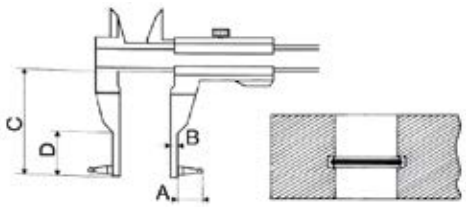

| Codice | Campo di misura | A | B | C | D | E | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1502010100150 | 0-150 mm | 5 mm | 2,5 mm | 2,5 mm | 23 mm | 50 mm | 1 | **186,30** |
| SM1502010100200 | 0-200 mm | 10 mm | 4 mm | 2,5 mm | 23 mm | 50 mm | 1 | **217,35** |

## Calibro monoblocco con puntalini esterni



### Caratteristiche

Calibro monoblocco a corsoio con puntalini rivolti verso l'esterno per la misurazione di gole interne. In acciaio inox cromato. Bloccaggio con pulsante. Lettura 1/20 – 1/28".



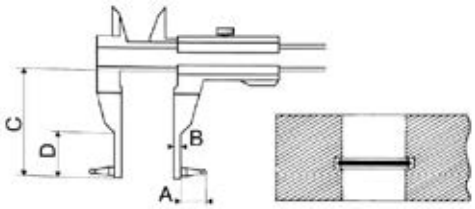

| Codice | Campo di misura | A | B | C | D | E | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM1500010100150 | 10-150 mm | 5 mm | 2,5 mm | 2,5 mm | 25 mm | 50 mm | 1 | **124,20** |
| SM1500010100200 | 20-200 mm | 10 mm | 4 mm | 2,5 mm | 25 mm | 50 mm | 1 | **152,15** |

## Calibro monoblocco senza puntalini



### Caratteristiche

Calibro monoblocco a corsoio per la misurazione di gole interne. In acciaio inox cromato. Bloccaggio con pulsante. Fornito senza puntalini. Lettura 1/20 – 1/28".



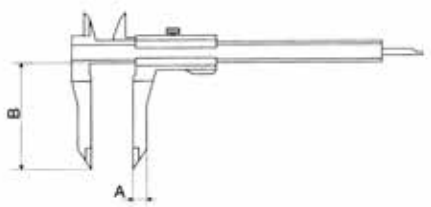

| Codice | Campo di misura | A (Accessori) | B | C | D | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM1501010100150 | 0-150 mm | sfere Ø 1-6 = 12mm sfere Ø 7-12 = 18mm | 5 mm | 50 mm | 23 mm | 1 | **124,20** |
| SM1501010100200 | 0-200 mm | sfere Ø 1-6 = 12mm sfere Ø 7-12 = 18mm | 5 mm | 50 mm | 23 mm | 1 | **152,15** |

## Calibro monoblocco con becchi lunghi



### Caratteristiche

Calibro monoblocco a corsoio con becchi lunghi. In acciaio inox cromato. Bloccaggio con pulsante. Lettura 1/20–1/28".



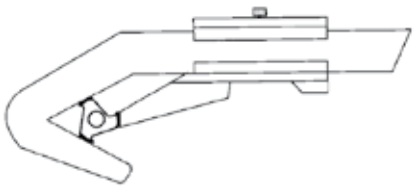

| Codice | Campo di misura | A | B | | € / cad. |
|---|---|---|---|---|---|
| SM1600010100150 | 0-150 mm | 10 mm | 60 mm | 1 | **186,30** |
| SM1600010100200 | 0-200 mm | 10 mm | 80 mm | 1 | **232,88** |

## Calibro per frese

### Caratteristiche

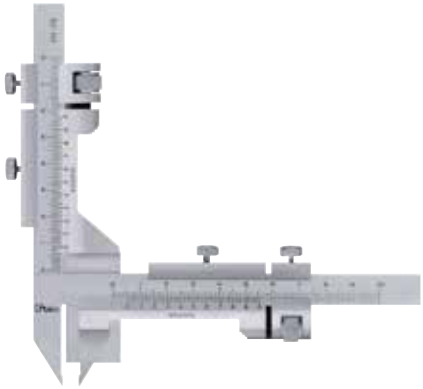
Calibro per frese con incudine a V a 3-5 taglienti. In acciaio inox satinato. Bloccaggio a vite. Lettura 1/20 – 1/28".





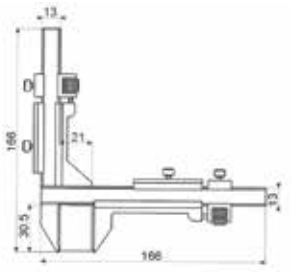
| Codice | Campo di misura | Taglienti | | € / cad. |
|---|---|---|---|---|
| SM2012010100045 | 5-45 mm | 3 mm | 1 | **103,50** |
| SM2012010100060 | 5-60 mm | 5 mm | 1 | **98,33** |

## Calibro per ingranaggi



### Caratteristiche

Calibro a doppio corsoio per ingranaggi. In acciaio inox temprato. Bloccaggio a vite. Avanzamento micrometrico. Lettura 0,02.



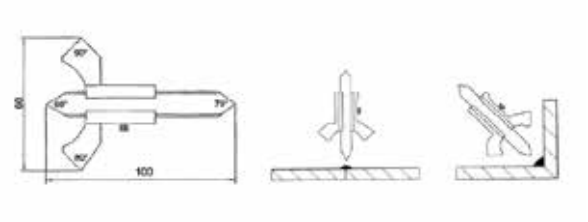
| Codice | Modulo | | € / cad. |
|---|---|---|---|
| SM2012010100026 | 1-26 mm | 1 | **143,18** |
| SM2012010100050 | 5-50 mm | 1 | **258,75** |

## Calibro per saldature




### Caratteristiche

Calibro per la misurazione di saldature. In acciaio inox cromato. Angoli 60° - 70° - 80° - 90°.



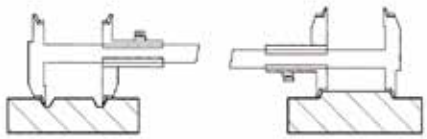
| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM2012010100020 | 0-20 mm | 1 | **46,58** |

## Calibro a corsoio per ring joint



### Caratteristiche

Calibro a corsoio cromato per la misurazione di ring joint. In acciaio inox. Bloccaggio a vite.



| Codice | Campo di misura | Becchi | | € / cad. |
|---|---|---|---|---|
| SM2011010100300 | 0-300 mm | 23° | 1 | **745,20** |
| SM2011010100500 | 0-500 mm | 23° | 1 | **1.086,75** |
| SM2011010101000 | 0-1000 mm | 23° | 1 | **1.676,70** |
| SM2011010101500 * | 0-1500 mm | 23° | 1 | **4.347,00** |

*fornito senza becchi superiori

## Calibro per controllo battistrada pneumatici



### Caratteristiche

Calibro per il controllo del battistrada dei pneumatici. In acciaio inox.



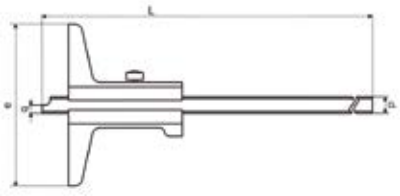
| Codice | Campo di misura | A | | € / cad. |
|---|---|---|---|---|
| SM201301010030M | 0-30 mm | 50 mm | 1 | **46,58** |
| SM201301010050M | 0-50 mm | 70 mm | 1 | **46,58** |

## Calibro di profondità



### Caratteristiche

Calibro di profondità a corsoio. In acciaio inox. Scala cromata opaca. Bloccaggio a vite. Lettura 0,05.



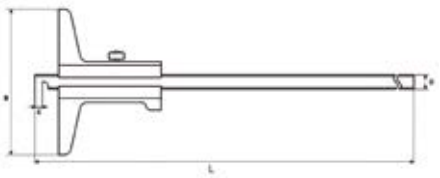
| Codice | Campo di misura | A | B | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM2014010100150 | 0-150 mm | 100 mm | 5 mm | 10 mm | 250 mm | 1 | **46,58** |
| SM2014010100200 | 0-200 mm | 100 mm | 5 mm | 10 mm | 300 mm | 1 | **58,65** |
| SM2014010100300 | 0-300 mm | 150 mm | 5 mm | 10 mm | 400 mm | 1 | **119,03** |
| SM2014010100400 | 0-400 mm | 150 mm | 4 mm | 11 mm | 500 mm | 1 | **150,08** |
| SM2014010100500 | 0-500 mm | 150 mm | 4 mm | 11 mm | 600 mm | 1 | **220,80** |
| SM2014010101000 | 0-1000 mm | 200 mm | 7,5 mm | 18 mm | 1160 mm | 1 | **776,25** |

## Calibro di profondità con piedino



### Caratteristiche

Calibro di profondità a corsoio con piedino. Scala cromata opaca. Bloccaggio a vite. Utilizzabile nei due sensi. Lettura 0,05.



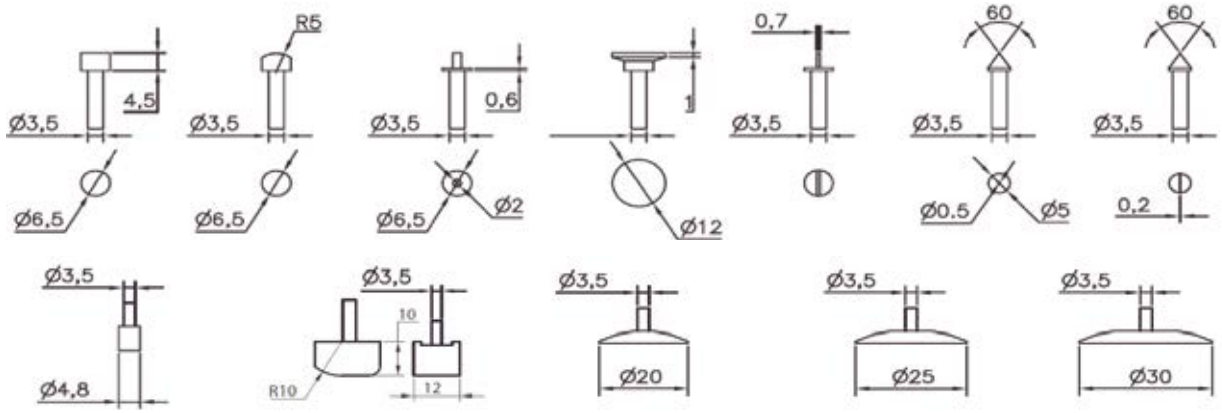
| Codice | Campo di misura | Base | B | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM201401010200P | 0-200 mm | 100 mm | 25 mm | 3,5 mm | 12 mm | 285 mm | 1 | **84,53** |
| SM201401010300P | 0-300 mm | 150 mm | 25 mm | 3,5 mm | 12 mm | 305 mm | 1 | **119,03** |

## Terminali per misurazioni diverse



### Caratteristiche

Terminali per misurazioni diverse



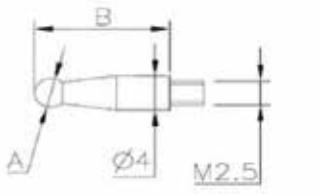

| Codice | Puntale | | € / cad. |
|---|---|---|---|
| SM4000030100039 | cilindrico | 1 | **167,64** |
| SM4000030100040 | semisferico | 1 | **167,64** |
| SM4000030100041 | doppio diametro | 1 | **167,64** |
| SM4000030100042 | a disco | 1 | **200,03** |
| SM4000030100043 | piatto | 1 | **167,64** |
| SM4000030100044 | conico a 60° | 1 | **167,64** |
| SM4000030100045 | a cuneo a 60° | 1 | **167,64** |
| SM4000030100046 | cilindrico | 1 | **167,64** |
| SM4000030100047 | piatto | 1 | **209,55** |
| SM4000030100048 | a disco | 1 | **247,65** |
| SM4000030100049 | a disco | 1 | **276,23** |
| SM4000030100050 | a disco | 1 | **276,23** |

## Terminali intercambiabili con sfere calibrate



### Caratteristiche

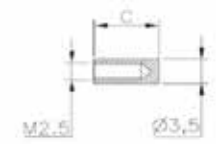
Terminali intercambiabili con sfere calibrate




| Codice | Puntale | | € / cad. |
|---|---|---|---|
| SM4000030100051 | Ø 1,5 mm | 1 | **91,44** |
| SM4000030100052 | Ø 2 mm | 1 | **91,44** |
| SM4000030100053 | Ø 2,5 mm | 1 | **91,44** |
| SM4000030100054 | Ø 3 mm | 1 | **91,44** |
| SM4000030100055 | Ø 3,5 mm | 1 | **91,44** |
| SM4000030100056 | Ø 4 mm | 1 | **91,44** |
| SM4000030100057 | Ø 4,5 mm | 1 | **91,44** |
| SM4000030100058 | Ø 5 mm | 1 | **91,44** |
| SM4000030100059 | Ø 5,5 mm | 1 | **91,44** |
| SM4000030100600 | Ø 6 mm | 1 | **91,44** |
| SM4000030100061 | Ø 6,5 mm | 1 | **99,06** |
| SM4000030100062 | Ø 7 mm | 1 | **99,06** |
| SM4000030100063 | Ø 8 mm | 1 | **99,06** |
| SM4000030100064 | Ø 10 mm | 1 | **99,06** |

| Codice | Puntale | | € / cad. |
|---|---|---|---|
| SM4000030100065 | Ø 1,5 mm | 1 | **200,03** |
| SM4000030100066 | Ø 2 mm | 1 | **200,03** |
| SM4000030100067 | Ø 2,5 mm | 1 | **200,03** |
| SM4000030100068 | Ø 3 mm | 1 | **200,03** |
| SM4000030100069 | Ø 3,5 mm | 1 | **200,03** |
| SM4000030100070 | Ø 4 mm | 1 | **200,03** |
| SM4000030100071 | Ø 4,5 mm | 1 | **200,03** |
| SM4000030100072 | Ø 5 mm | 1 | **200,03** |
| SM4000030100073 | Ø 5,5 mm | 1 | **200,03** |
| SM4000030100074 | Ø 6 mm | 1 | **200,03** |
| SM4000030100075 | Ø 6,5 mm | 1 | **200,03** |
| SM4000030100076 | Ø 7 mm | 1 | **200,03** |
| SM4000030100077 | Ø 8 mm | 1 | **200,03** |
| SM4000030100078 | Ø 10 mm | 1 | **200,03** |

## Adattatore per terminali




### Caratteristiche

Adattatore per terminali

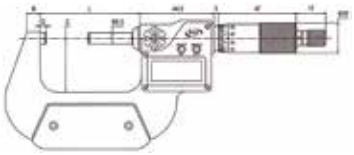
| Codice | C | | € / cad. |
|---|---|---|---|
| SM4000030100079 | 8 mm | 1 | **22,00** |
| SM4000030100080 | 10 mm | 1 | **22,00** |
| SM4000030100081 | 12 mm | 1 | **38,00** |
| SM4000030100082 | 20 mm | 1 | **45,00** |
| SM4000030100093 | 50 mm | 1 | **65,00** |

## Micrometro digitale IP65



### Caratteristiche

Micrometro digitale IP65 resistente alla polvere e all'acqua. Misurazione assoluta/incrementale in qualunque posizione. Tamburo graduato cromato opaco. Frizione sensitiva. Nottolino di bloccaggio. Arco con guanciali termoisolanti. Stelo ø 6,5 mm. Superfici di contatto riportate in metallo duro. Tasti: on/off – zero/abs – mm/pollici – unit. Risoluzione 0,001.



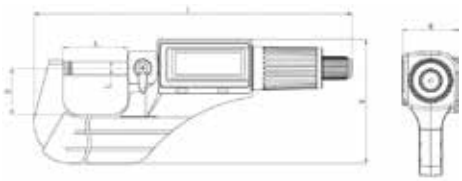
| Codice | Campo di misura | Precisione | A | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3100020100025 | 0-25 mm | ± 0,001 mm | 6 mm | 25 mm | 3 mm | 34,5 mm | 1 | **194,93** |
| SM3100020102550 | 25-50 mm | ± 0,001 mm | 8 mm | 32 mm | 3 mm | 59,5 mm | 1 | **220,80** |
| SM3100020105075 | 50-75 mm | ± 0,001 mm | 8 mm | 44,5 mm | 3 mm | 84,5 mm | 1 | **265,65** |
| SM3100020175100 | 75-100 mm | ± 0,002 mm | 8 mm | 57 mm | 3 mm | 109,5 mm | 1 | **298,43** |
| SM3100020100125 | 100-125 mm | ± 0,002 mm | 10 mm | 70 mm | 3 mm | 135 mm | 1 | **336,38** |
| SM3100020125150 | 125-150 mm | ± 0,002 mm | 10 mm | 82 mm | 3 mm | 160,5 mm | 1 | **362,25** |
| SM3100020150175 | 150-175 mm | ± 0,003 mm | 12 mm | 94,5 mm | 5,5 mm | 186 mm | 1 | **414,00** |
| SM3100020175200 | 175-200 mm | ± 0,003 mm | 12 mm | 107 mm | 5,5 mm | 211,5 mm | 1 | **439,88** |
| SM3100020100225 | 200-225 mm | ± 0,004 mm | 23 mm | 129 mm | 5,5 mm | 236 mm | 1 | **465,75** |
| SM3100020225250 | 225-250 mm | ± 0,004 mm | 23 mm | 142,5 mm | 5,5 mm | 261,5 mm | 1 | **491,63** |
| SM3100020250275 | 250-275 mm | ± 0,005 mm | 23 mm | 155 mm | 5,5 mm | 287 mm | 1 | **517,50** |
| SM3100020275300 | 275-300 mm | ± 0,005 mm | 23 mm | 170 mm | 5,5 mm | 310 mm | 1 | **543,38** |

## Micrometro digitale con superfici contatto in metallo duro



### Caratteristiche

Micrometro digitale con superfici di contatto in metallo duro e arco verniciato. Conversione mm/inch. Risoluzione 0,001.



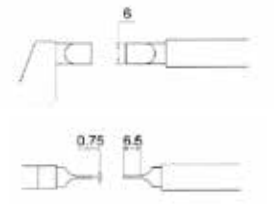
| Codice | Campo di misura | Precisione | A | B | C | L | W | H | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SM3100020000025 | 0-25 mm | ± 0,002 mm | 31,5 mm | 22,5 mm | Ø 6,5 mm | 155 mm | 60,2 mm | 27,3 mm | 1 | **117,30** |
| SM3100020005025 | 25-50 mm | ± 0,002 mm | 56,5 mm | 31 mm | Ø 6,5 mm | 185,4 mm | 77,9 mm | 27,3 mm | 1 | **143,18** |

## Micrometro digitale per cave IP65



### Caratteristiche

Micrometro digitale IP65 per cave con stelo non rotante. Superficie di contatto 0,75x6,50. Risoluzione 0,001.






IP 65 · LCD · mm inch · 0,001 mm. · 1,5V

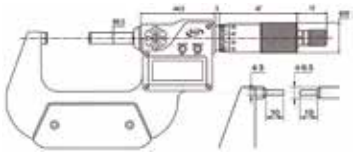
| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3110020100025 | 0-25 mm | ± 0,002 mm | 1 | **434,70** |
| SM3110020100050 | 25-50 mm | ± 0,002 mm | 1 | **465,75** |
| SM3110020100075 | 50-75 mm | ± 0,002 mm | 1 | **496,80** |
| SM3110020100100 | 75-100 mm | ± 0,002 mm | 1 | **527,85** |

## Micrometro digitale con contatti ridotti IP65



### Caratteristiche

Micrometro digitale IP65 resistente all'acqua ed all'olio lubrorefrigerante. Stelo ø 3x10 mm. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi posizione. In conformità norma DIN 863. Risoluzione 0,001.



IP 65 · DIN · LCD · mm inch · 1,5V · 0,001 mm.

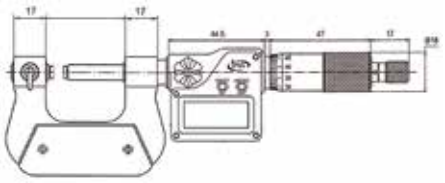
| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM3120020100025 | 0-25 mm | 1 | **381,92** |
| SM3120020100050 | 25-50 mm | 1 | **416,07** |
| SM3120020100075 | 50-75 mm | 1 | **434,70** |
| SM3120020100100 | 75-100 mm | 1 | **450,23** |

## Micrometro digitale per controllo filettature metriche esterne IP65



### Caratteristiche

Micrometro digitale IP65 per il controllo delle filettature metriche esterne, completo di capruggini 60°. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi punto. Completo di chiave e riscontro d'azzeramento 60° metrico. Risoluzione 0,001.



IP 65 · LCD · mm inch · 1,5V · 0,001 mm.

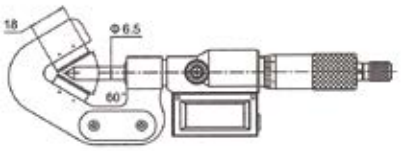
| Codice | Campo di misura | Precisione | Passo | | € / cad. |
|---|---|---|---|---|---|
| SM3130020100025 | 0-25 mm | ± 0,002 mm | 1, 2, 3, 4, 5 | 1 | **434,70** |
| SM3130020100050 | 25-50 mm | ± 0,002 mm | 2, 3, 4, 5, 6 | 1 | **481,28** |
| SM3130020100075 | 50-75 mm | ± 0,002 mm | 3, 4, 5, 6 | 1 | **527,85** |
| SM3130020100100 | 75-100 mm | ± 0,003 mm | 3, 4, 5, 6 | 1 | **558,90** |
| SM3130020100125 | 100-125 mm | ± 0,003 mm | 4, 5, 6 | 1 | **605,48** |
| SM3130020100150 | 125-150 mm | ± 0,003 mm | 4, 5, 6 | 1 | **652,05** |

## Micrometro digitale con incudine a prisma IP65



### Caratteristiche

Micrometro digitale IP65 per misurare utensili a 3 e 5 taglienti. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi, misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi posizione. In conformità norma DIN 863. Risoluzione 0,001.



DIN · IP 65 · LCD · mm inch · 0,001 mm. · 1,5V

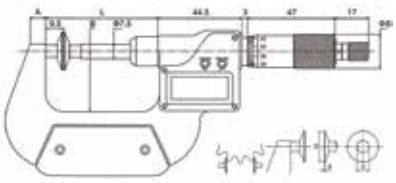
| Codice | Campo di misura | Precisione | Taglienti | | € / cad. |
|---|---|---|---|---|---|
| SM3140020100015 | 1-15 mm | ± 0,002 mm | 3 | 1 | **434,70** |
| SM3140020100020 | 5-20 mm | ± 0,002 mm | 3 | 1 | **465,75** |
| SM3140020100025 | 5-25 mm | ± 0,002 mm | 5 | 1 | **512,33** |
| SM3140020100035 | 20-35 mm | ± 0,003 mm | 3 | 1 | **496,80** |
| SM3140020100045 | 25-45 mm | ± 0,003 mm | 5 | 1 | **543,38** |
| SM3140020100050 | 35-50 mm | ± 0,003 mm | 3 | 1 | **558,90** |

## Micrometro digitale per ingranaggi IP65



### Caratteristiche

Micrometro digitale IP65 per la misurazione di ingranaggi. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Con versione mm/pollici. Azzeramento in qualsiasi posizione. In conformità norma DIN 863. Risoluzione 0,001.



DIN · IP 65 · LCD · mm inch · 0,001 mm. · 1,5V

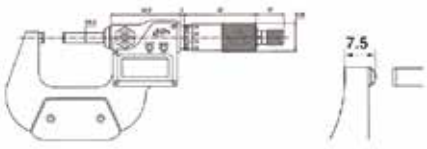
| Codice | Campo di misura | Precisione | Piattello | A | B | L | S | d Ø | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SM3150020100025 | 0-25 mm | ± 0,004 mm | 20 | 8 mm | 32 mm | 59,5 mm | 0,7 mm | 8 mm | 1 | **419,18** |
| SM3150020100050 | 25-50 mm | ± 0,004 mm | 20 | 8 mm | 44,5 mm | 85,5 mm | 0,7 mm | 8 mm | 1 | **450,23** |
| SM3150020100075 | 50-75 mm | ± 0,004 mm | 20 | 8 mm | 57 mm | 109,5 mm | 0,7 mm | 8 mm | 1 | **481,28** |
| SM3150020100100 | 75-100 mm | ± 0,004 mm | 20 | 10 mm | 70 mm | 134,5 mm | 0,7 mm | 8 mm | 1 | **527,85** |

## Micrometro digitale per tubi IP65



### Caratteristiche

Micrometro digitale IP65 per la misurazione di tubi con una superficie di misura sferica. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi posizione. Superfici di contatto in metallo duro. In conformità norma DIN 863. Risoluzione 0,001.




DIN · IP 65 · LCD · mm inch · 0,001 mm. · 1,5V · 6,5mm

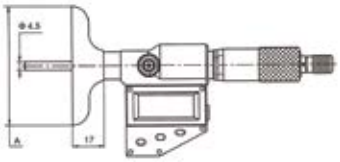
| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3160020100025 | 0-25 mm | ± 0,002 mm | 1 | **298,43** |

## Micrometro digitale di profondità IP65



### Caratteristiche

Micrometro digitale di profondità IP65. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi posizione. Prolunghe intercambiabili senza necessità di azzeramento. In conformità norma DIN 863. Risoluzione 0,001.



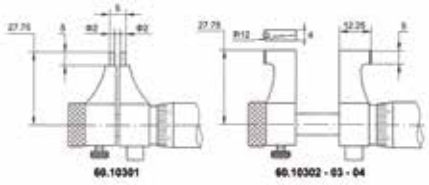
| Codice | Campo di misura | Precisione | A | | € / cad. |
|---|---|---|---|---|---|
| SM3170020100025 | 0-25 mm | ± 0,003 mm | 101, 5 mm | 1 | **326,03** |
| SM3170020100100 | 0-100 mm | ± 0,003 mm | 101, 5 mm | 1 | **372,60** |
| SM3170020100200 | 0-200 mm | ± 0,003 mm | 101, 5 mm | 1 | **434,70** |

## Micrometro digitale per interni



### Caratteristiche

Micrometro digitale per interni. Resistente all'acqua ed all'olio lubrorefrigerante. Arco in acciaio con vite interamente temprata e rettificata. Display a cristalli liquidi. Misurazione assoluta/incrementale. Conversione mm/pollici. Azzeramento in qualsiasi posizione. Completo di chiave e riscontro d'azzeramento. In conformità norma DIN 863. Risoluzione 0,001.



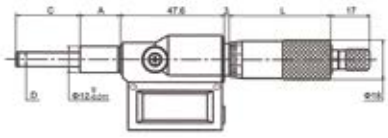
| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3180020100030 | 5-30 mm | ± 0,003 mm | 1 | **388,13** |
| SM3180020100050 | 25-50 mm | ± 0,003 mm | 1 | **419,18** |
| SM3180020100075 | 50-75 mm | ± 0,003 mm | 1 | **434,70** |
| SM3180020100100 | 75-100 mm | ± 0,003 mm | 1 | **450,23** |

## Testina micrometrica digitale IP65



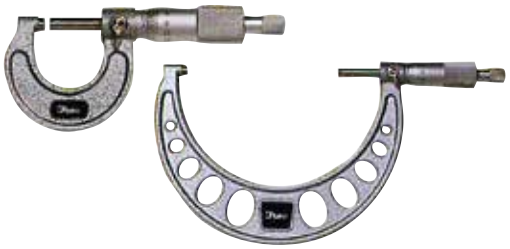
### Caratteristiche

Testina micrometrica digitale IP65. Risoluzione 0,001.



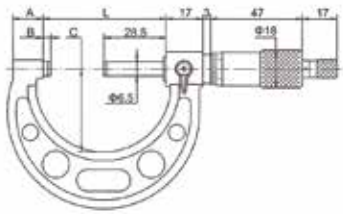
| Codice | Campo di misura | Precisione | A | C | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3190020100025 | 0-25 mm | ± 0,003 mm | 17,5 mm | 28,5 mm | 6,5 mm | 47 mm | 1 | **327,75** |
| SM3190020100050 | 0-50 mm | ± 0,005 mm | 35,5 mm | 53 mm | 7,5 mm | 71,5 mm | 1 | **465,75** |

## Micrometro centesimale per esterni



### Caratteristiche

Micrometro centesimale per esterni. Contatti in metallo duro ed arco verniciato. Stelo ø 6,5 mm. Tamburo graduato cromato opaco. Frizione sensitiva. Leva di bloccaggio. Risoluzione 0,01.



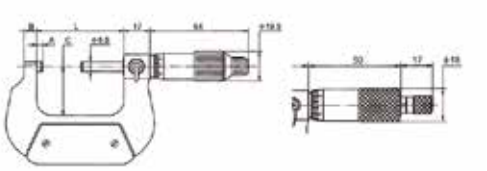
| Codice | Campo di misura | Precisione | A | B | C | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3000010100025 | 0-25 mm | ± 0,004 mm | 9 mm | 3 mm | 28 mm | 32 mm | 1 | **37,95** |
| SM3000010102550 | 25-50 mm | ± 0,004 mm | 14 mm | 3 mm | 38 mm | 57 mm | 1 | **41,40** |
| SM3000010105075 | 50-75 mm | ± 0,005 mm | 15 mm | 3 mm | 49 mm | 82 mm | 1 | **46,58** |
| SM3000010175100 | 75-100 mm | ± 0,005 mm | 15 mm | 3 mm | 60 mm | 107 mm | 1 | **55,20** |
| SM3000010110012 | 100-125 mm | ± 0,006 mm | 16,5 mm | 3 mm | 73 mm | 133 mm | 1 | **67,28** |
| SM3000010112515 | 125-150 mm | ± 0,006 mm | 16,5 mm | 3 mm | 85 mm | 158 mm | 1 | **75,90** |
| SM3000010115017 | 150-175 mm | ± 0,007 mm | 19,4 mm | 3 mm | 104 mm | 183 mm | 1 | **87,98** |
| SM3000010117520 | 175-200 mm | ± 0,007 mm | 19,4 mm | 3 mm | 117 mm | 209 mm | 1 | **98,33** |
| SM3000010112022 | 200-225 mm | ± 0,008 mm | 19,4 mm | 3 mm | 130 mm | 234 mm | 1 | **108,68** |
| SM3000010112225 | 225-250 mm | ± 0,008 mm | 19,4 mm | 3 mm | 142 mm | 260 mm | 1 | **117,30** |
| SM3000010112527 | 250-275 mm | ± 0,009 mm | 19,4 mm | 3 mm | 155 mm | 285 mm | 1 | **127,65** |
| SM3000010112730 | 275-300 mm | ± 0,009 mm | 19,4 mm | 3 mm | 168 mm | 310 mm | 1 | **138,00** |

## Micrometro centesimale per esterni




### Caratteristiche

Micrometro centesimale per esterni con contatti in metallo duro. Frizione sul tamburo ed arco cromato fino a 100 mm. Stelo ø 6,5 mm. Risoluzione 0,01.



| Codice | Campo di misura | Precisione | A | B | C | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3011020100025 | 0-25 mm | ± 0,004 mm | 3 mm | 6 mm | 24 mm | 32 mm | 1 | **41,40** |
| SM3011020100050 | 25-50 mm | ± 0,004 mm | 3 mm | 8 mm | 32 mm | 57 mm | 1 | **55,20** |
| SM3011020100075 | 50-75 mm | ± 0,005 mm | 3 mm | 8 mm | 45 mm | 82 mm | 1 | **62,10** |
| SM3011020100100 | 75-100 mm | ± 0,005 mm | 3 mm | 8 mm | 57 mm | 107 mm | 1 | **72,45** |

## Micrometro ad aste intercambiabili



### Caratteristiche

Micrometro ad aste intercambiabili per grandi diametri. Fornito con riscontri di azzeramento. Superfici di contatto in metallo duro. Corpo in acciaio. Arco verniciato. Tamburo graduato cromato opaco. Frizione sensitiva. Leva di bloccaggio. Risoluzione 0,01.

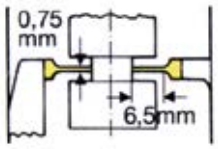
| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3020020100100 | 0-100 mm | ± 0,007 mm | 1 | **205,28** |
| SM3020020100200 | 100-200 mm | ± 0,008 mm | 1 | **324,30** |
| SM3020020100300 | 200-300 mm | ± 0,009 mm | 1 | **343,28** |
| SM3020020100400 | 300-400 mm | ± 0,011 mm | 1 | **414,00** |
| SM3020020100500 | 400-500 mm | ± 0,013 mm | 1 | **465,75** |
| SM3020020100600 | 500-600 mm | ± 0,015 mm | 1 | **557,18** |
| SM3020020100700 | 600-700 mm | ± 0,016 mm | 1 | **672,75** |
| SM3020020100800 | 700-800 mm | ± 0,018 mm | 1 | **776,25** |
| SM3020020100900 | 800-900 mm | ± 0,020 mm | 1 | **919,43** |
| SM3020020101000 | 900-1000 mm | ± 0,020 mm | 1 | **1.022,93** |
| SM3020020101200 | 1000-1200 mm | ± 0,020 mm | 1 | **1.747,43** |
| SM3020020101400 | 1200-1400 mm | ± 0,024 mm | 1 | **2.044,13** |
| SM3020020101600 | 1400-1600 mm | ± 0,028 mm | 1 | **2.264,93** |
| SM3020020101800 | 1600-1800 mm | ± 0,031 mm | 1 | **2.432,25** |
| SM3020020102000 | 1800-2000 mm | ± 0,034 mm | 1 | **2.716,88** |

## Micrometro speciale per cave



### Caratteristiche

Micrometro speciale per cave con stelo non rotante. Superficie di contatto 0,75x6,50 mm. Risoluzione 0,01.



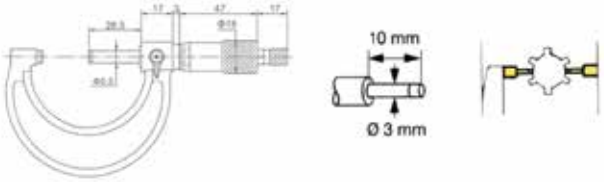

| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3030020100025 | 0-25 mm | ± 0,004 mm | 1 | **276,35** |
| SM3030020100050 | 25-50 mm | ± 0,004 mm | 1 | **291,87** |
| SM3030020100075 | 50-75 mm | ± 0,005 mm | 1 | **310,50** |
| SM3030020100100 | 75-100 mm | ± 0,005 mm | 1 | **341,55** |

## Micrometro speciale con contatti ridotti



### Caratteristiche

Micrometro speciale con contatti ridotti. Stelo Ø 3x10 mm. Risoluzione 0,01.




| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3030020100025R | 0-25 mm | ± 0,004 mm | 1 | **152,15** |
| SM3030020100050R | 25-50 mm | ± 0,004 mm | 1 | **178,54** |
| SM3030020100075R | 50-75 mm | ± 0,005 mm | 1 | **186,30** |
| SM3030020100100R | 75-100 mm | ± 0,005 mm | 1 | **194,06** |

## Micrometro speciale con incudine a prisma



### Caratteristiche

Micrometro speciale con incudine a prisma per la misurazione di utensili a 3 e 5 taglienti. Risoluzione 0,01.



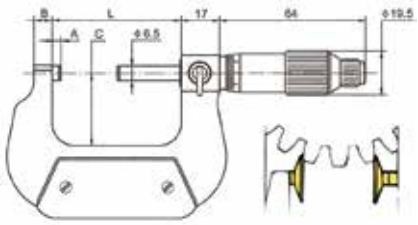
| Codice | Campo di misura | Precisione | Taglienti | | € / cad. |
|---|---|---|---|---|---|
| SM3030020100015P | 1-15 mm | ± 0,004 mm | 3 | 1 | **263,93** |
| SM3030020100020P | 5-20 mm | ± 0,004 mm | 3 | 1 | **310,50** |
| SM3030020100035P | 20-35 mm | ± 0,005 mm | 3 | 1 | **341,55** |
| SM3030020100050P | 35-50 mm | ± 0,005 mm | 3 | 1 | **403,65** |

## Micrometro per ingranaggi



### Caratteristiche

Micrometro per ingranaggi. Fornito di serie con piattelli, con superfici di misura lappate. Leva di bloccaggio. Risoluzione 0,01.



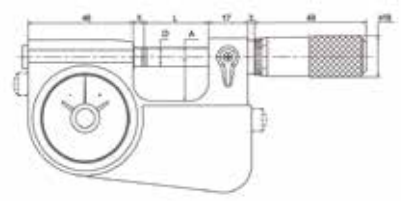
| Codice | Campo di misura | Precisione | Piattello | A | B | C | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3030020100025I | 0-25 mm | ± 0,004 mm | 20 mm | 9,5 mm | 8 mm | 32 mm | 1 | **117,30** |
| SM3030020100050I | 25-50 mm | ± 0,004 mm | 20 mm | 9,5 mm | 8 mm | 44,5 mm | 1 | **136,28** |
| SM3030020100075I | 50-75 mm | ± 0,005 mm | 20 mm | 9,5 mm | 8 mm | 57 mm | 1 | **155,25** |
| SM3030020100100I | 75-100 mm | ± 0,005 mm | 20 mm | 9,5 mm | 10 mm | 70 mm | 1 | **181,13** |
| SM3030020100125I | 100-125 mm | ± 0,006 mm | 30 mm | 9,5 mm | 10 mm | 82 mm | 1 | **194,93** |
| SM3030020100150I | 125-150 mm | ± 0,006 mm | 30 mm | 9,5 mm | 12 mm | 94,5 mm | 1 | **207,00** |
| SM3030020100175I | 150-175 mm | ± 0,007 mm | 30 mm | 9,5 mm | 12 mm | 107 mm | 1 | **232,88** |
| SM3030020100200I | 175-200 mm | ± 0,007 mm | 30 mm | 9,5 mm | 12 mm | 120 mm | 1 | **272,55** |

## Micrometro con comparatore



### Caratteristiche

Micrometro per esterni con comparatore. Scala con riferimenti di tolleranza per misurazioni passa/non passa. Pulsante di comando dell'incudine mobile. Tamburo graduato cromato opaco. Frizione sensitiva. Leva di bloccaggio. Arco con guanciali termoisolanti. Risoluzione 0,001.



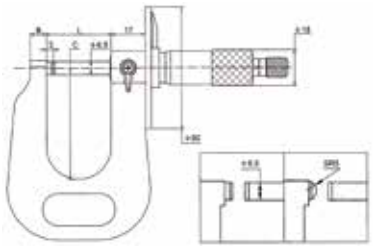
| Codice | Campo di misura | Precisione | A | D | L | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM3050020100025 | 0-25 mm | ± 0,003 mm | 19 mm | 6,5 mm | 28,5 mm | 1 | **558,90** |
| SM3050020100050 | 25-50 mm | ± 0,003 mm | 30 mm | 6,5 mm | 53,5 mm | 1 | **636,53** |

## Micrometro a disco per lamiere



### Caratteristiche

Micrometro a disco per la misurazione delle lamiere. Risoluzione 0,01.



| Codice | Campo di misura | Precisione | Arco | B | C | L | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM3051020100015 | 0-15 mm | ± 0,004 mm | 50 mm | 8 mm | 50 mm | 22 mm | 1 | **136,28** |

## Set micrometri per esterni



### Caratteristiche

Set micrometri per esterni. Con tamburo graduato cromato opaco. Frizione sensitiva. Leva di bloccaggio. Arco verniciato.

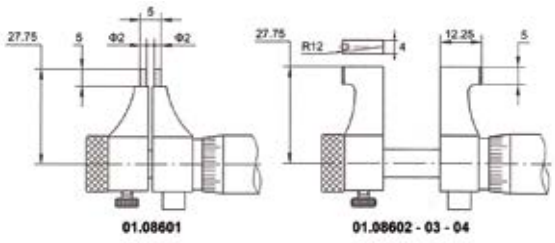
| Codice | Campo di misura | Pezzi | | € / cad. |
|---|---|---|---|---|
| SM3060020100100 | 0-100 mm | 4 | 1 | **201,83** |
| SM3060020100150 | 0-150 mm | 6 | 1 | **298,43** |
| SM3060020100300 | 0-300 mm | 12 | 1 | **879,75** |

## Micrometro per interni

### Caratteristiche

Micrometro per interni. Risoluzione 0,01.






| Codice | Campo di misura | Precisione | | € / cad. |
|---|---|---|---|---|
| SM3070020100030 | 5-30 mm | ± 0,005 mm | 1 | **103,50** |
| SM3070020100050 | 25-50 mm | ± 0,006 mm | 1 | **119,03** |
| SM3070020100075 | 50-75 mm | ± 0,007 mm | 1 | **127,65** |
| SM3070020100100 | 75-100 mm | ± 0,008 mm | 1 | **169,05** |

## Micrometro per interni con prolunghe componibili



### Caratteristiche

Micrometro per interni con prolunghe componibili. Testina micrometrica con superfici di contatto in metallo duro. Composto da una testina micrometrica per interni ed una serie di prolunghe. Fornito in scatola di legno. Risoluzione 0,01.

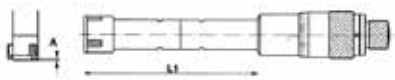
| Codice | Campo di misura | Testina microm. | Ø Prolunghe | Composizione | | € / cad. |
|---|---|---|---|---|---|---|
| SM3071020100150 | 50-150 mm | 50-65 mm | 16 mm | 13 -25 -50 | 1 | **155,25** |
| SM3071020100300 | 50-300 mm | 50-65 mm | 16 mm | 13 - 25 - 50 (2pz) -100 | 1 | **217,35** |
| SM3071020100600 | 50-600 mm | 50-65 mm | 16 mm | 13 - 25 - 50 - 100 -150 - 200 | 1 | **284,63** |
| SM3071020101000 | 50-1000 mm | 50-65 mm | 16 mm | 13 - 25 - 50 - 100 (2pz) - 150 - 200 - 300 | 1 | **905,63** |

## Micrometro per interni a tre punte



### Caratteristiche

Micrometro per interni a tre punte. Fornito con anelli e prolunga. Tamburo graduato con frizione sensitiva. Esecuzione cromata opaca. Superfici di misura in metallo duro. Risoluzione fino a 12 mm: 0,001 mm; oltre 12 mm: 0,005 mm.



| Codice | Campo di misura | Anelli | L1 | A | Precisione | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM3072020100008 | 6-8 mm | Ø 6 mm | 54,5 mm | 1,5 mm | 0,004 mm | 1 | **453,68** |
| SM3072020100010 | 8-10 mm | Ø 8 mm | 54,5 mm | 1,5 mm | 0,004 mm | 1 | **453,68** |
| SM3072020100012 | 10-12 mm | Ø 10 mm | 54,5 mm | 1,5 mm | 0,004 mm | 1 | **453,68** |
| SM3072020100016 | 12-16 mm | Ø 16 mm | 80 mm | 0,5 mm | 0,004 mm | 1 | **336,38** |
| SM3072020100020 | 16-20 mm | Ø 16 mm | 80 mm | 0,5 mm | 0,004 mm | 1 | **336,38** |
| SM3072020100025 | 20-25 mm | Ø 25 mm | 90 mm | 0,5 mm | 0,004 mm | 1 | **453,68** |
| SM3072020100030 | 25-30 mm | Ø 25 mm | 90 mm | 0,5 mm | 0,004 mm | 1 | **453,68** |
| SM3072020100040 | 30-40 mm | Ø 40 mm | 97 mm | 0,5 mm | 0,004 mm | 1 | **465,75** |
| SM3072020100050 | 40-50 mm | Ø 40 mm | 97 mm | 0,5 mm | 0,004 mm | 1 | **543,38** |
| SM3072020100063 | 50-63 mm | Ø 62 mm | 114 mm | 0,5 mm | 0,005 mm | 1 | **595,13** |
| SM3072020100075 | 62-75 mm | Ø 62 mm | 114 mm | 0,5 mm | 0,005 mm | 1 | **595,13** |
| SM3072020100088 | 75-88 mm | Ø 87 mm | 114 mm | 0,5 mm | 0,005 mm | 1 | **621,00** |
| SM3072020100100 | 87-100 mm | Ø 87 mm | 114 mm | 0,5 mm | 0,005 mm | 1 | **660,68** |

## Porta micrometro



### Caratteristiche

Porta micrometro. Supporto con base in ghisa e morsetto intercambiabile in lega leggera.

| Codice | Base | | € / cad. |
|---|---|---|---|
| SM3080020100000 | tonda | 1 | **36,23** |

## Assortimento micrometri per interni a tre punte



### Caratteristiche

Assortimento micrometri per interni a tre punte. Fornito con anelli di azzeramento e prolunga (100mm-150mm). Chiavi per bloccaggio e regolazione. Lettura campo di misura fino a 12 mm: 0,001 mm; oltre 12mm: 0,005 mm.

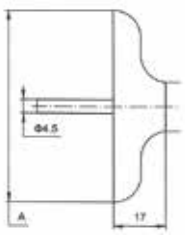
| Codice | Campo di misura | Misura singola | Anelli | Prolunga | | € / cad. |
|---|---|---|---|---|---|---|
| SM3073020100012 | 6-12 mm | 6-8 / 8-10 / 10-12 mm | Ø 6 / 8 / 10 mm | 100 mm | 1 | **1.035,00** |
| SM3073020100020 | 12-20 mm | 12-16 / 16-20 mm | Ø 16 mm | 150 mm | 1 | **543,38** |
| SM3073020100040 | 20-40 mm | 20-25 / 25-30 / 30-40 mm | Ø 25-40 mm | 150 mm | 1 | **1.138,50** |
| SM3073020100100 | 40-100 mm | 40-50 / 50-63 / 62-75 / 75-88 / 87-100 mm | Ø 40 / 62 / 87 mm | 150 mm | 1 | **2.458,13** |

## Micrometro centesimale di profondità



### Caratteristiche

Micrometro centesimale di profondità. Tamburo cromato opaco. Superfici di contatto temprate, rettificate e lappate. Bloccaggio a vite. Risoluzione 0,01.



| Codice | Campo di misura | Precisione | A | Prolunghe | | € / cad. |
|---|---|---|---|---|---|---|
| SM3040020100025 | 0-25 mm | ± 0,004 mm | 100 mm | 1 mm | 1 | **93,15** |
| SM3040020100050 | 0-50 mm | ± 0,004 mm | 100 mm | 2 mm | 1 | **108,68** |
| SM3040020100100 | 0-100 mm | ± 0,005 mm | 100 mm | 4 mm | 1 | **139,73** |
| SM3040020100200 | 0-200 mm | ± 0,006 mm | 100 mm | 8 mm | 1 | **246,68** |

## Comparatore digitale



### Caratteristiche

Comparatore digitale. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Conversione memoria e ricerca valore min/max. Spegnimento automatico. Display a caratteri grandi. Risoluzione 0,01.

| Codice | Campo di misura | Risoluzione | Ø | Batteria | | € / cad. |
|---|---|---|---|---|---|---|
| SM4010030100010 | 0-10 mm | 0,01 mm | 58 mm | 1,5 V | 1 | **183,20** |
| SM4010030100025 | 0-25 mm | 0,01 mm | 58 mm | 1,5 V | 1 | **245,30** |
| SM4010030100050 | 0-50 mm | 0,01 mm | 58 mm | 1,5 V | 1 | **359,84** |
| SM4010030100110 | 0-10 mm | 0,001 mm | 58 mm | 3 V | 1 | **217,35** |

## Comparatore analogico di precisione



### Caratteristiche

Comparatore analogico di precisione. Cassa metallica. Risoluzione 0,01.

| Codice | Campo di misura | Risoluzione | Ø | | € / cad. |
|---|---|---|---|---|---|
| SM400001010010N | 0-10 mm | 0,01 mm | 60 mm | 1 | **25,88** |

## Comparatore analogico di precisione antiurto



### Caratteristiche

Comparatore analogico di precisione, antiurto. Cassa e ghiera in metallo. Puntalino in acciaio. Risoluzione 0,01.

| Codice | Campo di misura | Risoluzione | Ø | | € / cad. |
|---|---|---|---|---|---|
| SM4020030100005 | 0-5 mm | 0,01 mm | 40 mm | 1 | **46,58** |
| SM4020030100010 | 0-10 mm | 0,01 mm | 58 mm | 1 | **36,23** |
| SM4020030100020 | 0-25 mm | 0,01 mm | 58 mm | 1 | **67,28** |
| SM4020030100030 | 0-30 mm | 0,01 mm | 58 mm | 1 | **75,90** |
| SM4020030100050 | 0-50 mm | 0,01 mm | 78 mm | 1 | **169,05** |
| SM4020030100100 | 0-100 mm | 0,01 mm | 80 mm | 1 | **388,13** |

## Portacomparatore snodato magnetico



### Caratteristiche

Supporto portacomparatore snodato magnetico. Aste totalmente snodabili e orientabili con bloccaggio centralizzato e regolazione micrometrica. Base magnetica con superfici di appoggio piana e a “V” rettificate. Attacco comparatore Ø 8 mm.

Norma

| Codice | Base | Forza trazione | Raggio d’azione | | € / cad. |
|---|---|---|---|---|---|
| SM4000010100060 | 60x50x55 mm | 60 kg | 340 mm | 1 | **77,63** |
| SM4000010100080 | 60x50x55 mm | 80 kg | 340 mm | 1 | **248,40** |

## Portacomparatore a chiavetta



### Caratteristiche

Supporto portacomparatore a chiavetta. Base magnetica con superfici di appoggio piana e a “V”. Attacco comparatore Ø 8 mm.

| Codice | Base | Forza trazione | Raggio d’azione | | € / cad. |
|---|---|---|---|---|---|
| SM4000030100060 | 50x65x70 mm | 60 kg | 340 mm | 1 | **27,60** |

## Portacomparatore snodato



### Caratteristiche

Supporto portacomparatore con aste totalmente snodabili e orientabili. Bloccaggio centralizzato e regolazione micrometrica. Base magnetica con superfici di appoggio piana e a "V" rettificate. Attacco comparatore Ø 8 mm. Fornito in scatola di legno.

| Codice | Bloccaggio | Base | Forza trazione | Raggio d'azione | | € / cad. |
|---|---|---|---|---|---|---|
| SM400003010100M | meccanico | 80x50x55 mm | 100 kg | 340 mm | 1 | **388,13** |
| SM400003010100I | idraulico | 80x50x55 mm | 100 kg | 340 mm | 1 | **388,13** |
| SM4000030100000B | solo base | 80x50x55 mm | 100 kg | -- | 1 | **93,15** |

## Portacomparatore a colonna



### Caratteristiche

Colonna e piano in acciaio temprato rettificato, base e braccio portacomparatore in ghisa verniciato. Attacco comparatore Ø 8 mm.

| Codice | H colonna | Base | Braccio | | € / cad. |
|---|---|---|---|---|---|
| SM4000030100200 | 200 mm | Ø 70 mm | 70 mm | 1 | **258,75** |
| SM400003010200V | 200 mm | 100x100 mm con vite micrometrica | 70 mm | 1 | **258,75** |

## Stativo portacomparatore con piano in granito



### Caratteristiche

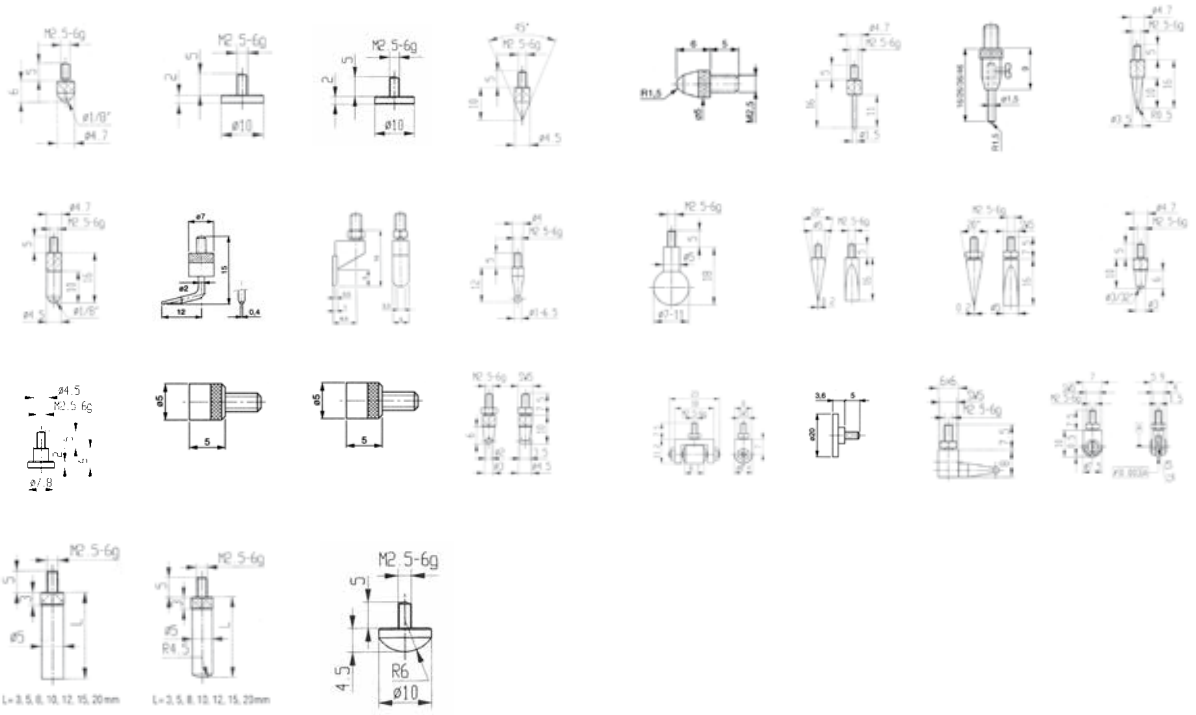
Stativo portacomparatore con piano in granito. Struttura massiccia con elevata stabilità. Colonna in acciaio temprato e rettificato. Piano di verifica finemente lappato. Planarità e precisione in conformità norma DIN 876/00. Attacco comparatore Ø 8 mm.

| Codice | H colonna | Ø colonna | Base | Braccio | | € / cad. |
|---|---|---|---|---|---|---|
| SM400003010200G | 200 mm | 25 mm | 250x160 mm | 75 mm | 1 | **246,68** |
| SM4000030100300 | 300 mm | 30 mm | 300x200 mm | 150 Ø 25 mm | 1 | **258,75** |
| SM400003010300V | 300 mm | 30 mm | 300x200 mm | 150 Ø 25 mm | 1 | **491,63** |
| SM40000301300VG | 300 mm | 30 mm | 300x200 mm | 150 Ø 25 mm | 1 | **595,13** |

## Puntalini di misura per comparatori

### Caratteristiche

Puntalini di misura per comparatori




| Codice | | € / cad. |
|---|---|---|
| SM4000030100001 | 1 | **15,53** |
| SM4000030100002 | 1 | **62,10** |
| SM4000030100003 | 1 | **201,83** |
| SM4000030100004 | 1 | **31,05** |
| SM4000030100005 | 1 | **31,05** |
| SM4000030100006 | 1 | **46,58** |
| SM4000030100007 | 1 | **74,52** |
| SM4000030100008 | 1 | **46,58** |
| SM4000030100009 | 1 | **46,58** |
| SM4000030100010 | 1 | **232,88** |
| SM4000030100011 | 1 | **186,30** |
| SM4000030100012 | 1 | **25,88** |
| SM4000030100013 | 1 | **46,58** |
| SM4000030100015 | 1 | **46,58** |
| SM4000030100016 | 1 | **38,81** |
| SM4000030100017 | 1 | **38,81** |
| SM4000030100018 | 1 | **46,58** |
| SM4000030100019 | 1 | **139,73** |
| SM4000030100020 | 1 | **54,34** |

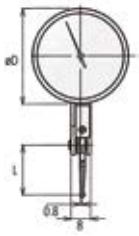
| Codice | | € / cad. |
|---|---|---|
| SM4000030100021 | 1 | **279,45** |
| SM4000030100022 | 1 | **74,52** |
| SM4000030100023 | 1 | **139,73** |
| SM4000030100026 | 1 | **24,84** |
| SM4000030100027 | 1 | **24,84** |
| SM4000030100028 | 1 | **31,05** |
| SM4000030100029 | 1 | **38,81** |
| SM4000030100030 | 1 | **46,58** |
| SM4000030100031 | 1 | **62,10** |
| SM4000030100032 | 1 | **133,52** |

## Tastatore a leva



### Caratteristiche

Tastatore a leva. Corpo in acciaio cromato opaco. Attacco a codolo a coda di rondine. Movimento di precisione montato su rubini. Perno del tastatore montato su sfere. Codolo di presa Ø 8 mm.



| Codice | Campo di misura | Ø | Lettura | | € / cad. |
|---|---|---|---|---|---|
| SM4030030108001 | 0,8 mm | 28 mm | 0,01 mm | 1 | **93,15** |
| SM4030030180001 | 0,8 mm | 38 mm | 0,01 mm | 1 | **96,60** |
| SM4030030120002 | 0,2 mm | 28 mm | 0,002 mm | 1 | **162,15** |

## Accessori per tastatori a leva



### Caratteristiche

Accessori per tastatori a leva.

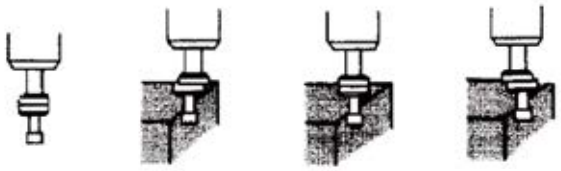
| Codice | Descrizione | Ø | | € / cad. |
|---|---|---|---|---|
| SM40300301000A1 | Asta di fissaggio, attacco a coda di rondine | 4 mm | 1 | **22,43** |
| SM40300301000A2 | Asta di fissaggio, attacco a coda di rondine | 8 mm | 1 | **22,43** |
| SM40300301000A3 | Supporto articolato lungo, corpo cilindrico, attacco a coda di rondine | 8x90 mm | 1 | **76,07** |
| SM40300301000A4 | Supporto di centraggio per i modelli perpendicolari, con corpo cilindrico, punto di serraggio per asta di fissaggio e attacco a coda di rondine | 8x25 mm | 1 | **39,68** |
| SM40300301000A5 | Supporto articolato lungo, con corpo cilindrico, attacco a coda di rondine e regolazione fine | 8x125 mm | 1 | **127,31** |

## Centratore meccanico



### Caratteristiche

Centratore meccanico a rotazione. Sistema di centratura visivo semplice e rapido, particolarmente indicato nelle operazioni correnti di centratura. Velocità consigliata 400/600 g/min.



Norma

| Codice | Ø gambo | Ø sfera contatto | | € / cad. |
|---|---|---|---|---|
| SM4030030100004 | 10 mm | 10/4 mm | 1 | **27,60** |
| SM4030030100010 | 10 mm | 10 mm | 1 | **32,78** |
| SM403003010000M | molla di ricambio | -- | 1 | **13,80** |

## Centratore elettronico



### Caratteristiche

Centratore elettronico con display luminoso a 360° e beep sonoro per la centratura o l'allineamento del pezzo da lavorare rispetto all'asse del mandrino portautensili. Particolarmente indicato per la ricerca di un punto "zero" di partenza per le lavorazioni su macchine utensili. Alimentazione con batterie micro 1,5V (incluse).

| Codice | Ø gambo | Ø sfera contatto | | € / cad. |
|---|---|---|---|---|
| SM403003010010E | 20 mm | 10 mm | 1 | **372,60** |

## Alesametro con comparatore



### Caratteristiche

Alesametro con comparatore. Testina e punte di contatto in acciaio temprato. Impugnatura termoisolante. Attacco comparatore Ø 8 mm. Risoluzione 0,01.

| Codice | Campo di misura | Profondità | | € / cad. |
|---|---|---|---|---|
| SM4040030100010 | 6-10 mm | 40 mm | 1 | **194,93** |
| SM4040030100018 | 10-18 mm | 100 mm | 1 | **194,93** |
| SM4040030100035 | 18-35 mm | 125 mm | 1 | **155,25** |
| SM4040030100050 | 35-50 mm | 150 mm | 1 | **155,25** |
| SM4040030100160 | 50-160 mm | 150 mm | 1 | **169,05** |
| SM4040030100250 | 160-250 mm | 400 mm | 1 | **232,88** |
| SM4040030100450 | 250-450 mm | 400 mm | 1 | **258,75** |

## Serie alesametri



### Caratteristiche

Serie alesametri con comparatore. Testina in acciaio temprato con sfera in metallo duro. Impugnatura in materiale isolante termico. Attacco comparatore Ø 8mm.

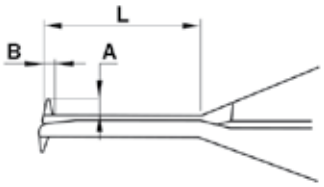
| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM4040030100SET | 18-35; 35-50; 50-160 mm | 1 | **465,75** |

## Misuratore rapido per interni



### Caratteristiche

Misuratore rapido per interni. Bracci studiati per rilevazioni di difficile accesso. Risoluzione 0,01.



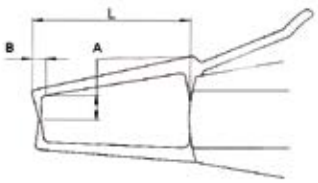

| Codice | Campo di misura | L | B | A | | € / cad. |
|---|---|---|---|---|---|---|
| SM4050030100515 | 5-15 mm | 20 mm | 1,0 mm | 1,5 mm | 1 | **298,43** |
| SM4050030101020 | 10-20 mm | 25 mm | 1,5 mm | 3,0 mm | 1 | **298,43** |
| SM4050030101030 | 10-30 mm | 55 mm | 2,0 mm | 3,5 mm | 1 | **362,25** |
| SM4050030102030 | 20-30 mm | 30 mm | 2,0 mm | 6,5 mm | 1 | **298,43** |
| SM4050030103040 | 30-40 mm | 30 mm | 2,5 mm | 9,0 mm | 1 | **298,43** |
| SM4050030104050 | 40-50 mm | 30 mm | 2,5 mm | 9,0 mm | 1 | **298,43** |
| SM4050030104060 | 40-60 mm | 80 mm | 3,0 mm | 8,5 mm | 1 | **376,05** |

## Misuratore rapido per esterni



### Caratteristiche

Misuratore rapido per esterni. Pressione di misura garantita su tutta la corsa. Risoluzione 0,01.




| Codice | Campo di misura | L | B | A | | € / cad. |
|---|---|---|---|---|---|---|
| SM4050030100020 | 0-20 mm | 80 mm | 6,5 mm | 25 mm | 1 | **324,30** |
| SM4050030100040 | 20-40 mm | 80 mm | 6,5 mm | 25 mm | 1 | **362,25** |
| SM4050030100060 | 40-60 mm | 80 mm | 6,5 mm | 25 mm | 1 | **376,05** |

## Banco di controllo concentricità



### Caratteristiche

Banco di controllo concentricità 0,002. Corpo in lega leggera. Rotori in acciaio temprato. Volatino di manovra. Trasmissione a cinghia piatta. Due supporti comparatori mobili. Fornito senza comparatori.



Norma

| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM6000040200050 | Ø 1,5 - Ø 50 mm | 1 | **3.900,00** |

## Tavola di controllo



### Caratteristiche

Tavola di controllo. Corpo in lega leggera. Piano in acciaio temprato. Puntali intercambiabili. Precaria interno ed esterno. Precisione: 1 micron rip. Due pomelli di fine corsa. Fornita con un comparatore 0,01 ed una coppia di staffe di appoggio.

INOX

0,01 mm.

| Codice | Campo di misura | Dimensioni | Ripetibilità | | € / cad. |
|---|---|---|---|---|---|
| SM6100040200200 | 0-200 mm | 255x150 mm | 0,01 mm | 1 | **3.525,00** |
| SM6100040200330 | 0-330 mm | 406x180 mm | 0,01 mm | 1 | **5.400,00** |
| SM6100040201804 | 0-200 mm | 255x150 mm | 0,01 mm | 1 | **4.650,00** |

## Accessori per tavola di controllo

### Caratteristiche

Accessori per tavola di controllo

| Codice | | € / cad. |
|---|---|---|
| SM4000030100083 | 1 | **295,28** |
| SM4000030100084 | 1 | **342,90** |
| SM4000030100085 | 1 | **323,85** |
| SM4000030100086 | 1 | **323,85** |
| SM4000030100087 | 1 | **333,38** |

| Codice | | € / cad. |
|---|---|---|
| SM4000030100088 | 1 | **257,18** |
| SM4000030100089 | 1 | **257,18** |
| SM4000030100090 | 1 | **342,90** |
| SM4000030100091 | 1 | **438,15** |
| SM4000030100092 | 1 | **304,80** |

## Azzeratore per alesametri e calibri



### Caratteristiche

Azzeratore per alesametri e calibri. Contatti in carburo di Tungsteno. Carrello di regolazione fine. Volantino di manovra. Trasmissione a cinghia piatta. Riga ottica in carbone di silicio. Display elettronico. Fornito in scatola di legno. Risoluzione 0,001.



| Codice | Campo di misura | A | Tolleranza 100mm | Riga | | € / cad. |
|---|---|---|---|---|---|---|
| SM6200040200400 | 0-400 mm | 796 mm | 0,002 mm | ottica | 1 | **18.000,00** |
| SM6200040200700 | 0-700 mm | 1096 mm | 0,002 mm | ottica | 1 | **20.700,00** |
| SM6200040201000 | 0-1000 mm | 1396 mm | 0,002 mm | ottica | 1 | **26.700,00** |

## Azzeratore per alesametri e micrometri



### Caratteristiche

Strumento per la taratura di alesametri con l'ausilio di blocchetti di riscontro. Consente di azzerare con precisione alesametri e micrometri a due ponti per interni. Fornito con blocchetti quadri paralleli.

| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM6200040100001 | 18-400 mm | 1 | **1.100,55** |

## Piano di riscontro in granito nero



### Caratteristiche

Piano di riscontro in granito nero. Grado di planarità e precisione in conformità alla norma DIN 876/00. Per finiture superficiali di alta qualità. Offre isolamento elettrico e amagneticità. Corredato da certificato di planarità.

| Codice | Dimensioni | Precisione ± µm | Peso | | € / cad. |
|---|---|---|---|---|---|
| SM6300040100630 | 630x400x80 mm | 2,2 | 62 kg | 1 | **336,38** |
| SM6300040100800 | 800x500x100 mm | 2,6 | 130 kg | 1 | **543,38** |
| SM6300040101000 | 1000x630x140 mm | 3 | 260 kg | 1 | **1.009,13** |
| SM6300040101200 | 1200x800x160 mm | 3,4 | 460 kg | 1 | **1.876,80** |

## Riga pianparallela in granito nero



### Caratteristiche

Riga pianparallela in granito nero. Grado “00”.

| Codice | Dimensioni | Precisione ± µm | Peso | | € / cad. |
|---|---|---|---|---|---|
| SM640004010500G | 500x50x80 mm | 4 | 5 kg | 1 | **491,63** |
| SM640004010750G | 750x50x100 mm | 5 | 10 kg | 1 | **776,25** |
| SM640004011000G | 1000x60x140 mm | 6 | 23 kg | 1 | **1.035,00** |
| SM640004011500G | 1500x80x180 mm | 8 | 40 kg | 1 | **1.876,80** |
| SM640004012000G | 2000x100x220 mm | 10 | 80 kg | 1 | **2.716,88** |

## Riga di controllo in acciaio indeformabile



### Caratteristiche

Riga di controllo in acciaio indeformabile. Tolleranza in conformità norma DIN 874/1.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM640004010500A | 500x50x10 mm | 1 | **93,15** |
| SM640004010750A | 750x50x10 mm | 1 | **124,20** |
| SM640004011000A | 1000x60x12 mm | 1 | **170,78** |

## Squadra di controllo in granito nero



### Caratteristiche

Squadra di controllo in granito nero. Grado “00”.

| Codice | Dimensioni | Precisione perpendicolarità ± µm | Peso | | € / cad. |
|---|---|---|---|---|---|
| SM6500040100200 | 200x150x30 mm | 2 | 1,8 kg | 1 | **272,55** |
| SM6500040100300 | 300x200x40 mm | 2 | 4,7 kg | 1 | **376,05** |
| SM6500040100400 | 400x250x50 mm | 2 | 10 kg | 1 | **543,38** |
| SM6500040100630 | 630x400x60 mm | 3 | 28 kg | 1 | **931,50** |
| SM6500040101000 | 1000x630x100 mm | 4 | 117 kg | 1 | **2.587,50** |

## Coppia paralleli a croce



### Caratteristiche

Coppia di paralleli a croce in acciaio indeformabile C45. 4 cave a V 90°. Tolleranza 1/100.

| Codice | Dimensioni | Ø Alberi | | € / cad. |
|---|---|---|---|---|
| SM6600040107575 | 75x75 mm | 5-60 mm | 1 | **150,08** |
| SM6600040109570 | 95x70 mm | 5-80 mm | 1 | **194,93** |
| SM6600040110080 | 100x80 mm | 5-80 mm | 1 | **207,00** |
| SM6600040112012 | 120x90 mm | 5-80 mm | 1 | **258,75** |
| SM6600040112090 | 120x120 mm | 5-80 mm | 1 | **246,68** |
| SM6600040115010 | 150x100 mm | 5-85 mm | 1 | **324,30** |

## Coppia prismi ad angolo retto



### Caratteristiche

Coppia di prismi ad angolo retto in acciaio indeformabile C45. Cava a V 90°. Tolleranza 1/100.

| Codice | Dimensioni | Ø Alberi | | € / cad. |
|---|---|---|---|---|
| SM6600040115055 | 150x55 mm | 5-42 mm | 1 | **155,25** |
| SM6600040120070 | 200x70 mm | 5-56 mm | 1 | **227,70** |

## Prisma magnetico



### Caratteristiche

Prisma magnetico. Capacità di bloccaggio da Ø 5 a Ø 70. Tolleranza 1/100.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM6600040107085 | 70x85x85 mm | 1 | **232,88** |

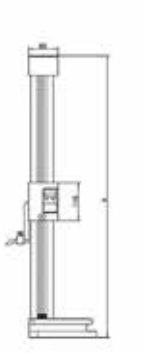
## Truschino digitale a corsoio, doppia colonna



LCD INOX DATI mm inch 0,01 mm.

### Caratteristiche

Truschino digitale a corsoio, con doppia colonna. In acciaio inox e base in ghisa. Anello di regolazione fine. Sgancio rapido. Uscita dati elettronica RS 232 mm/pollici, resistente all'acqua. Dotazione di serie: punta a tracciare temprata. Fornito in scatola di legno. Risoluzione 0,01.



| Codice | Campo di misura | A | Base | Ø colonna | Toll. | Perpendicolarità | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SM5000050200300 | 0-300 mm | 595 mm | 204x117 mm | 20 mm | 0,03 mm | 0,06x600 mm | 1 | **1.185,00** |
| SM5000050200600 | 0-600 mm | 858 mm | 204x117 mm | 20 mm | 0,03 mm | 0,06x600 mm | 1 | **1.485,00** |
| SM5000050201000 | 0-1000 mm | 1058 mm | 204x117 mm | 20 mm | 0,04 mm | 0,08x1000 mm | 1 | **1.800,00** |

## Accessori per truschino digitale a corsoio

### Caratteristiche

Accessori per truschino digitale a corsoio

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| SM50000502000R1 | Tracciatore L=70 (in dotazione) | 1 | **171,45** |
| SM50000502000R2 | Tracciatore L=70 in metallo duro | 1 | **285,75** |
| SM50000502000R3 | Tracciatore L=120 | 1 | **304,80** |
| SM50000502000R4 | Supporto comparatore L=100 | 1 | **247,65** |
| SM50000502000R5 | Supporto comparatore L=120 | 1 | **266,70** |
| SM50000502000R6 | Supporto goniometro | 1 | **266,70** |

## Truschino digitale con cassa in acciaio



### Caratteristiche

Truschino digitale con cassa in acciaio cromato. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Corsa rapida con volantino e regolazione micrometrica. Punta a tracciare con riporto in metallo duro. Risoluzione 0,01.

| Codice | Campo di misura | Accessori | | € / cad. |
|---|---|---|---|---|
| SM5000050100300 | 0-300 mm | -- | 1 | **483,00** |
| SM5000050100600 | 0-600 mm | -- | 1 | **914,25** |
| SM50000501000R1 | -- | punta di ricambio | 1 | **93,15** |
| SM50000501000R2 | -- | supporto portacomparatore | 1 | **77,63** |
| SM50000501000R3 | -- | supporto tastatore | 1 | **77,63** |

## Truschino digitale multifunzione



### Caratteristiche

Truschino digitale multifunzione. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Regolazione micrometrica. Punta a tracciare con riporto in metallo duro. Risoluzione 0,01.

| Codice | Campo di misura | Accessori | | € / cad. |
|---|---|---|---|---|
| SM5000050103000 | 0-300 mm | -- | 1 | **272,55** |
| SM5000050105000 | 0-500 mm | -- | 1 | **414,00** |
| SM5000050101000 | 0-1000 mm | -- | 1 | **1.552,50** |
| SM5000050101500 | 0-1500 mm | -- | 1 | **2.587,50** |
| SM50000501000AP | -- | supporto portacomparatore | 1 | **65,55** |
| SM50000501000AT | -- | supporto tastatore | 1 | **65,55** |

## Truschino ad orologio



### Caratteristiche

Truschino ad orologio. Lettura con doppio contatore azzerabile in qualsiasi posizione. Doppia colonna di guida. Punta a tracciare con riporto in metallo duro. Risoluzione 0,01.

| Codice | Campo di misura | Accessori | | € / cad. |
|---|---|---|---|---|
| SM5100050100300 | 0-300 mm | -- | 1 | **343,28** |
| SM5100050100600 | 0-600 mm | -- | 1 | **646,88** |
| SM51000501000R1 | -- | punta di ricambio | 1 | **77,63** |
| SM51000501000R2 | -- | supporto portacomparatore | 1 | **51,75** |
| SM51000501000R3 | -- | supporto tastatore | 1 | **51,75** |

## Truschino meccanico



### Caratteristiche

Truschino meccanico. Scala cromata opaca. Basamento in ghisa. Corsa con regolazione micrometrica. Punta a tracciare con riporto in metallo duro. Risoluzione 0,02.

| Codice | Campo di misura | Accessori | | € / cad. |
|---|---|---|---|---|
| SM5200050100300 | 0-300 mm | -- | 1 | **298,43** |
| SM5200050100600 | 0-600 mm | -- | 1 | **401,93** |
| SM52000501000R1 | -- | punta di ricambio | 1 | **77,63** |

## Rapportatore d'angolo digitale



### Caratteristiche

Rapportatore d'angolo digitale. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Modalità visualizzazione 360° / 180° x 2 / 90° x 4. Regolazione micrometrica. Squadretta regolabile per sottosquadra e piccoli angoli. Risoluzione 30" e 5/1000°.

| Codice | Asta | | € / cad. |
|---|---|---|---|
| SM5300050100300 | 300 mm | 1 | **636,53** |

## Rapportatore d'angolo con lente



### Caratteristiche

Rapportatore d'angolo in acciaio inox con lente di ingrandimento. Scala cromata opaca. Regolazione micrometrica. Squadretta regolabile per sottosquadra e piccoli angoli. Risoluzione 5' d'arco.

| Codice | Asta | | € / cad. |
|---|---|---|---|
| SM5300050120030 | 200-300 mm | 1 | **103,50** |

## Goniometro con orologio



### Caratteristiche

Goniometro con orologio, in acciaio inox. Risoluzione 5' d'arco.

| Codice | Asta | | € / cad. |
|---|---|---|---|
| SM5400050100300 | 300 mm | 1 | **136,28** |

## Goniometro semplice cromato

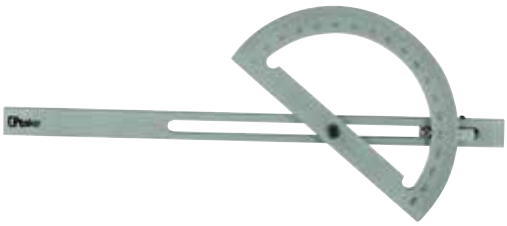


### Caratteristiche

Goniometro semplice in acciaio indeformabile cromato. Scala incisa laser. Ghiera di bloccaggio dell'asta.

| Codice | Asta | Arco | | € / cad. |
|---|---|---|---|---|
| SM5400050115020 | 200 mm | 150 mm | 1 | **29,33** |
| SM5400050120030 | 300 mm | 200 mm | 1 | **36,23** |

## Goniometro ad asta scorrevole



### Caratteristiche

Goniometro ad asta scorrevole in acciaio indeformabile cromato opaco. Scala incisa laser. Ghiera di bloccaggio dell'asta.

| Codice | Asta | Arco | | € / cad. |
|---|---|---|---|---|
| SM5400050115030 | 300 mm | 150 mm | 1 | **41,40** |
| SM5400050120040 | 400 mm | 200 mm | 1 | **48,30** |

## Squadra semplice bisellata



### Caratteristiche

Squadra semplice bisellata in acciaio inox temprato. In conformità norma DIN 875/00.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7010060105040 | 50x40 mm | 1 | **44,85** |
| SM7010060107550 | 75x50 mm | 1 | **50,03** |
| SM7010060110070 | 100x70 mm | 1 | **55,20** |
| SM7010060115010 | 150x100 mm | 1 | **91,43** |
| SM7010060120013 | 200x130 mm | 1 | **103,50** |
| SM7010060125016 | 250x165 mm | 1 | **143,18** |
| SM7010060130020 | 300x200 mm | 1 | **162,15** |

## Squadra semplice



### Caratteristiche

Squadra semplice in acciaio inox temprato. In conformità norma DIN 875/0.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7020060105040 | 50x40 mm | 1 | **39,68** |
| SM7020060107550 | 75x50 mm | 1 | **41,40** |
| SM7020060110070 | 100x70 mm | 1 | **46,58** |
| SM7020060115010 | 150x100 mm | 1 | **65,55** |
| SM7020060120013 | 200x130 mm | 1 | **103,50** |
| SM7020060125016 | 250x165 mm | 1 | **106,95** |
| SM7020060130020 | 300x200 mm | 1 | **117,30** |

## Squadra a cappello



### Caratteristiche

Squadra a cappello in acciaio inox temprato. In conformità norma DIN 875/0.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7000060105040 | 50x40 mm | 1 | **56,93** |
| SM7000060107550 | 75x50 mm | 1 | **60,38** |
| SM7000060110070 | 100x70 mm | 1 | **60,38** |
| SM7000060115010 | 150x100 mm | 1 | **91,43** |
| SM7000060120013 | 200x130 mm | 1 | **103,50** |
| SM7000060125016 | 250x165 mm | 1 | **169,05** |
| SM7000060130020 | 300x200 mm | 1 | **194,93** |

## Squadra a cappello bisellata



### Caratteristiche

Squadra a cappello bisellata in acciaio inox temprato. In conformità norma DIN 875/00.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7200060105040 | 50x40 mm | 1 | **58,65** |
| SM7200060107550 | 75x50 mm | 1 | **72,45** |
| SM7200060110070 | 100x70 mm | 1 | **77,63** |
| SM7200060115010 | 150x100 mm | 1 | **103,50** |
| SM7200060120013 | 200x130 mm | 1 | **143,18** |
| SM7200060125016 | 250x165 mm | 1 | **232,88** |
| SM7200060130020 | 300x200 mm | 1 | **272,55** |

## Squadra semplice indeformabile



### Caratteristiche

Squadra semplice in acciaio indeformabile. In conformità norma DIN 875/1.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7030060105040 | 50x40 mm | 1 | **12,08** |
| SM7030060107550 | 75x50 mm | 1 | **13,80** |
| SM7030060110070 | 100x70 mm | 1 | **15,53** |
| SM7030060115010 | 150x100 mm | 1 | **20,70** |
| SM7030060120013 | 200x130 mm | 1 | **31,05** |
| SM7030060125016 | 250x165 mm | 1 | **37,95** |
| SM7030060130020 | 300x200 mm | 1 | **46,58** |
| SM7030060140025 | 400x250 mm | 1 | **77,63** |
| SM7030060150030 | 500x300 mm | 1 | **91,43** |

## Squadra a cappello indeformabile



### Caratteristiche

Squadra a cappello in acciaio indeformabile. In conformità norma DIN 875/1.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7100060105040 | 50x40 mm | 1 | **18,98** |
| SM7100060107550 | 75x50 mm | 1 | **20,70** |
| SM7000060100100 | 100x70 mm | 1 | **24,15** |
| SM7100060115010 | 150x100 mm | 1 | **31,05** |
| SM7000060100200 | 200x130 mm | 1 | **37,95** |
| SM7100060125016 | 250x165 mm | 1 | **48,30** |
| SM7000060100300 | 300x200 mm | 1 | **69,00** |
| SM7100060140025 | 400x250 mm | 1 | **112,13** |
| SM7100060150030 | 500x300 mm | 1 | **141,45** |

## Guardapiano in acciaio inox



### Caratteristiche

Guardapiano in acciaio inox temprato. In conformità norma DIN 874/0.

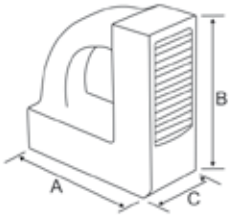
| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7300060100100 | 100 mm | 1 | **32,78** |
| SM7300060100125 | 125 mm | 1 | **34,50** |
| SM7300060100150 | 150 mm | 1 | **41,40** |
| SM7300060100200 | 200 mm | 1 | **51,75** |
| SM7300060100250 | 250 mm | 1 | **69,00** |
| SM7300060100300 | 300 mm | 1 | **91,43** |
| SM7300060100400 | 400 mm | 1 | **117,30** |
| SM7300060100500 | 500 mm | 1 | **207,00** |

## Squadra magnetica permanente



### Caratteristiche

Squadra magnetica permanente. Adatta per un rapido posizionamento di pezzi a 90°. Ideale nelle operazioni di saldatura e tracciatura.




| Codice | AxBxC | Forza | | € / cad. |
|---|---|---|---|---|
| SM7040060100150 | 150x150x60 mm | 100 kg | 1 | **106,95** |
| SM7040060100200 | 200x200x60 mm | 140 kg | 1 | **138,00** |
| SM7040060100300 | 300x300x60 mm | 200 kg | 1 | **207,00** |

## Squadra per tracciare



### Caratteristiche

Squadra per tracciare in acciaio indeformabile cromato.

| Codice | Lunghezza | | € / cad. |
|---|---|---|---|
| SM7050060100200 | 200 mm | 1 | **36,23** |
| SM7050060100250 | 250 mm | 1 | **50,03** |
| SM7050060100300 | 300 mm | 1 | **56,93** |

## Squadra per flange

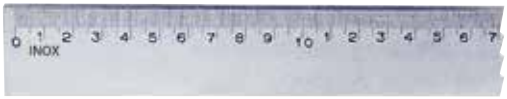


### Caratteristiche

Squadra per flange in acciaio.

| Codice | Dimensioni | Apertura arco | Profondità arco | Sezione | | € / cad. |
|---|---|---|---|---|---|---|
| SM7050060103000 | 300 mm | 60 mm | 160 mm | 30x6 mm | 1 | **65,55** |
| SM7050060105000 | 500 mm | 60 mm | 160 mm | 30x6 mm | 1 | **65,55** |

## Riga millimetrata in acciaio inox




### Caratteristiche

Riga millimetrata in acciaio inox, senza smusso. Divisione millimetrata su una faccia. Tolleranza in conformità norma DIN 866/A.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM7400060150043 | 500x43x5 mm | 1 | **93,15** |
| SM7400060175043 | 750x43x5 mm | 1 | **139,73** |
| SM7400060110004 | 1000x43x5 mm | 1 | **186,30** |
| SM7400060115004 | 1500x43x5 mm | 1 | **326,03** |
| SM7400060120004 | 2000x43x5 mm | 1 | **450,23** |

## Riga flessibile in acciaio inox



### Caratteristiche

Riga flessibile in acciaio inox . Esecuzione cromata opaca. Divisione millimetrata mm-mm su una faccia e mm-1/2 mm sull'altra.

| Codice | Dimensioni | Sezione | | € / cad. |
|---|---|---|---|---|
| SM7400060100200 | 200 mm | 13x0,5 mm | 1 | **1,73** |
| SM7400060100250 | 250 mm | 13x0,5 mm | 1 | **2,07** |
| SM740006010300F | 300 mm | 13x0,5 mm | 1 | **2,42** |

## Riga semirigida in acciaio inox



### Caratteristiche

Riga semirigida in acciaio inox. Esecuzione cromata opaca. Divisione millimetrata su una faccia.

| Codice | Dimensioni | Sezione | | € / cad. |
|---|---|---|---|---|
| SM7400060100300 | 300 mm | 30x1 mm | 1 | **2,76** |
| SM7400060100500 | 500 mm | 30x1 mm | 1 | **5,18** |
| SM7400060101000 | 1000 mm | 30x1 mm | 1 | **16,91** |
| SM7400060101500 | 1500 mm | 30x1 mm | 1 | **38,99** |
| SM7400060102000 | 2000 mm | 30x1 mm | 1 | **58,31** |

## Livella lineare di precisione



### Caratteristiche

Livella lineare di precisione. Corpo in ghisa legata nervata. Base prismatica per controllo di superfici piane e cilindriche. Fiale protette. Guanciali termoisolanti. Fornita in scatola di legno.

| Codice | Campo di misura | Sensibilità | | € / cad. |
|---|---|---|---|---|
| SM7500060115002 | 150 mm | 0,02 mm | 1 | **162,15** |
| SM7500060115005 | 150 mm | 0,05 mm | 1 | **169,05** |
| SM7500060120002 | 200 mm | 0,02 mm | 1 | **194,93** |
| SM7500060120005 | 200 mm | 0,05 mm | 1 | **194,93** |
| SM7500060125002 | 250 mm | 0,02 mm | 1 | **220,80** |
| SM7500060125005 | 250 mm | 0,05 mm | 1 | **207,00** |
| SM7500060130002 | 300 mm | 0,02 mm | 1 | **258,75** |
| SM7500060130005 | 300 mm | 0,05 mm | 1 | **232,88** |

## Livella quadra di precisione



### Caratteristiche

Livella quadra di precisione. Quattro superfici di appoggio ad angolo retto, due piane e due prismatiche per il controllo delle superfici piane e cilindriche. Corpo in ghisa legata nervata. Fiale protette. Impugnatura termoisolante. Fornita in scatola di legno.

| Codice | Campo di misura | Sensibilità | | € / cad. |
|---|---|---|---|---|
| SM7510060110005 | 100 mm | 0,05 mm | 1 | **258,75** |
| SM7510060115002 | 150 mm | 0,02 mm | 1 | **232,88** |
| SM7510060115005 | 150 mm | 0,05 mm | 1 | **279,45** |
| SM7510060120002 | 200 mm | 0,02 mm | 1 | **284,63** |
| SM7510060120005 | 200 mm | 0,05 mm | 1 | **336,38** |
| SM7510060125002 | 250 mm | 0,02 mm | 1 | **343,28** |
| SM7510060125005 | 250 mm | 0,05 mm | 1 | **427,80** |

## Livella digitale




### Caratteristiche

Livella digitale, goniometro a 360° (4x90°) ed inclinometro. Accensione e spegnimento con pulsante. Azzeramento in qualsiasi posizione. Blocco ultimo valore visualizzato. Batteria inclusa. Risoluzione 0,1°.

3V LCD

| Codice | Precisione | | € / cad. |
|---|---|---|---|
| SM7600060100001 | 0°-10° ± 0,1°, 10°-90° ± 1,5° | 1 | **124,20** |

## Livella magnetica



### Caratteristiche

Livella magnetica, utilizzabile da 0 a 360°. Indicatore sempre puntato in posizione verticale. Ideale per controllare i pezzi in macchina in qualsiasi posizione.



| Codice | Misura base | Sensibilità | | € / cad. |
|---|---|---|---|---|
| SM7600060100005 | 93x79x16 mm | 0,083° | 1 | **376,05** |
| SM7600060100083 | 40x130x2 mm | 0,05° | 1 | **181,13** |

## Serie blocchetti di riscontro



### Caratteristiche

Serie di blocchetti di riscontro. Pianparalleli in acciaio HRC64. In conformità norma ISO 3650 – DIN 861.

| Codice | Precisione | Pezzi | Composizione serie | Misura | Progressione | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM8000070100320 | 0 | - | 1 pz - 9 pz - 9 pz 9 pz - 3 pz - 1 pz | 1,005 - 1,01~1,09 - 1,1~1,9 1~9 - 10~30 - 60 | 0,01 - 0,1 - 1 - 10 | 1 | **543,38** |
| SM8000070100321 | 1 | 32 | | | | 1 | **310,50** |
| SM8000070100322 | 2 | - | | | | 1 | **207,00** |
| SM8000070100470 | 0 | - | 1 pz - 9 pz - 9 pz 24 pz - 4 pz | 1,005 - 1,01~1,09 - 1,1~1,9 - 1~24 - 25~100 | 0,01 - 0,1 - 1 - 25 | 1 | **698,63** |
| SM8000070100471 | 1 | 47 | | | | 1 | **434,70** |
| SM8000070100472 | 2 | - | | | | 1 | **284,63** |
| SM8000070100870 | 0 | - | 9 pz - 49 pz 19 pz - 10 pz | 1,001~ 1,009 - 1,01~1,49 - 0,5 ~ 9,5 - 10 ~100 | 0,001 - 0,01 0,5 - 10 | 1 | **1.086,75** |
| SM8000070100871 | 1 | 87 | | | | 1 | **698,63** |
| SM8000070100872 | 2 | - | | | | 1 | **420,90** |
| SM8000070101030 | 0 | - | 1 pz - 49 pz 49 pz - 4 pz | 1,005 - 1,01~1,49 - 0,5~24,5 - 25~100 | 0,01 - 0,5 - 25 | 1 | **1.423,13** |
| SM8000070101031 | 1 | 103 | | | | 1 | **828,00** |
| SM8000070101032 | 2 | - | | | | 1 | **517,50** |

## Serie calibri a tampone lisci

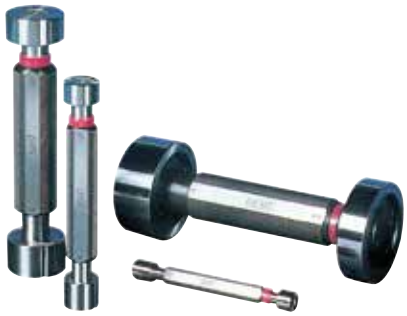


### Caratteristiche

Serie calibri a tampone lisci, passa / non passa. In acciaio temprato. Tolleranza H7. Forniti in scatola di legno.

| Codice | Composizione set Ø | Pezzi | | € / cad. |
|---|---|---|---|---|
| SM80100701015KT | 34-35-36-38-40-42-44-45-46-48-50-52- 55-58-60 mm | 15 | 1 | **1.474,88** |
| SM80100701025KT | 7-8-9-10-11-12-13-14-15-16-17-18-19-20 21-22-23-24-25-26-27-28-29-30-32 mm | 25 | 1 | **1.304,10** |

## Calibri a tampone lisci



### Caratteristiche

Calibri a tampone lisci, passa / non passa. In acciaio temprato. Tolleranza H7.

| Codice | Misura | | € / cad. |
|---|---|---|---|
| SM8010070100003 | 3 mm | 1 | **85,39** |
| SM8010070100004 | 4 mm | 1 | **85,39** |
| SM8010070100005 | 5 mm | 1 | **85,39** |
| SM8010070100006 | 6 mm | 1 | **85,39** |
| SM8010070100007 | 7 mm | 1 | **85,39** |
| SM8010070100008 | 8 mm | 1 | **86,94** |
| SM8010070100009 | 9 mm | 1 | **88,49** |
| SM8010070100010 | 10 mm | 1 | **91,60** |
| SM8010070100011 | 11 mm | 1 | **93,15** |
| SM8010070100012 | 12 mm | 1 | **93,15** |
| SM8010070100013 | 13 mm | 1 | **96,26** |
| SM8010070100014 | 14 mm | 1 | **96,26** |
| SM8010070100015 | 15 mm | 1 | **96,26** |
| SM8010070100016 | 16 mm | 1 | **97,81** |
| SM8010070100017 | 17 mm | 1 | **99,36** |
| SM8010070100018 | 18 mm | 1 | **99,36** |
| SM8010070100019 | 19 mm | 1 | **102,47** |
| SM8010070100020 | 20 mm | 1 | **102,47** |
| SM8010070100021 | 21 mm | 1 | **107,12** |
| SM8010070100022 | 22 mm | 1 | **111,78** |
| SM8010070100023 | 23 mm | 1 | **111,78** |
| SM8010070100024 | 24 mm | 1 | **116,44** |
| SM8010070100025 | 25 mm | 1 | **117,99** |
| SM8010070100026 | 26 mm | 1 | **119,54** |
| SM8010070100027 | 27 mm | 1 | **121,10** |
| SM8010070100028 | 28 mm | 1 | **124,20** |
| SM8010070100029 | 29 mm | 1 | **124,20** |
| SM8010070100030 | 30 mm | 1 | **127,31** |
| SM8010070100032 | 32 mm | 1 | **127,31** |
| SM8010070100033 | 33 mm | 1 | **136,62** |
| SM8010070100034 | 34 mm | 1 | **139,73** |
| SM8010070100035 | 35 mm | 1 | **139,73** |

| Codice | Misura | | € / cad. |
|---|---|---|---|
| SM8010070100036 | 36 mm | 1 | **139,73** |
| SM8010070100037 | 37 mm | 1 | **152,15** |
| SM8010070100038 | 38 mm | 1 | **152,15** |
| SM8010070100040 | 40 mm | 1 | **152,15** |
| SM8010070100042 | 42 mm | 1 | **178,54** |
| SM8010070100044 | 44 mm | 1 | **180,09** |
| SM8010070100045 | 45 mm | 1 | **183,20** |
| SM8010070100046 | 46 mm | 1 | **186,30** |
| SM8010070100047 | 47 mm | 1 | **194,06** |
| SM8010070100048 | 48 mm | 1 | **198,72** |
| SM8010070100050 | 50 mm | 1 | **201,83** |
| SM8010070100052 | 52 mm | 1 | **214,25** |
| SM8010070100055 | 55 mm | 1 | **214,25** |
| SM8010070100056 | 56 mm | 1 | **225,11** |
| SM8010070100058 | 58 mm | 1 | **226,67** |
| SM8010070100060 | 60 mm | 1 | **226,67** |
| SM8010070100062 | 62 mm | 1 | **240,64** |
| SM8010070100065 | 65 mm | 1 | **240,64** |
| SM8010070100068 | 68 mm | 1 | **248,40** |
| SM8010070100070 | 70 mm | 1 | **256,16** |
| SM8010070100072 | 72 mm | 1 | **263,93** |
| SM8010070100075 | 75 mm | 1 | **267,03** |
| SM8010070100078 | 78 mm | 1 | **271,69** |
| SM8010070100080 | 80 mm | 1 | **271,69** |
| SM8010070100082 | 82 mm | 1 | **273,24** |
| SM8010070100085 | 85 mm | 1 | **273,24** |
| SM8010070100088 | 88 mm | 1 | **279,45** |
| SM8010070100090 | 90 mm | 1 | **279,45** |
| SM8010070100092 | 92 mm | 1 | **287,21** |
| SM8010070100095 | 95 mm | 1 | **287,21** |
| SM8010070100098 | 98 mm | 1 | **302,74** |
| SM8010070100100 | 100 mm | 1 | **310,50** |

## Anelli di azzeramento



DIN

### Caratteristiche

Anelli di azzeramento master. In acciaio temprato. In conformità norma DIN 2250.

| Codice | Misura | | € / cad. |
|---|---|---|---|
| SM8020070100004 | 4 mm | 1 | **83,84** |
| SM8020070100005 | 5 mm | 1 | **88,49** |
| SM8020070100006 | 6 mm | 1 | **90,05** |
| SM8020070100007 | 7 mm | 1 | **100,91** |
| SM8020070100008 | 8 mm | 1 | **108,68** |
| SM8020070100009 | 9 mm | 1 | **114,89** |
| SM8020070100010 | 10 mm | 1 | **114,89** |
| SM8020070100011 | 11 mm | 1 | **116,44** |
| SM8020070100012 | 12 mm | 1 | **124,20** |
| SM8020070100013 | 13 mm | 1 | **124,20** |
| SM8020070100014 | 14 mm | 1 | **124,20** |
| SM8020070100015 | 15 mm | 1 | **124,20** |
| SM8020070100016 | 16 mm | 1 | **124,20** |
| SM8020070100017 | 17 mm | 1 | **124,20** |
| SM8020070100018 | 18 mm | 1 | **124,20** |
| SM8020070100019 | 19 mm | 1 | **131,96** |
| SM8020070100020 | 20 mm | 1 | **131,96** |
| SM8020070100021 | 21 mm | 1 | **133,52** |
| SM8020070100022 | 22 mm | 1 | **136,62** |
| SM8020070100023 | 23 mm | 1 | **139,73** |
| SM8020070100024 | 24 mm | 1 | **142,83** |
| SM8020070100025 | 25 mm | 1 | **147,49** |
| SM8020070100026 | 26 mm | 1 | **152,15** |
| SM8020070100027 | 27 mm | 1 | **155,25** |
| SM8020070100028 | 28 mm | 1 | **163,01** |
| SM8020070100029 | 29 mm | 1 | **170,78** |
| SM8020070100030 | 30 mm | 1 | **186,30** |
| SM8020070100032 | 32 mm | 1 | **209,59** |
| SM8020070100033 | 33 mm | 1 | **209,59** |
| SM8020070100034 | 34 mm | 1 | **211,14** |
| SM8020070100035 | 35 mm | 1 | **217,35** |
| SM8020070100036 | 36 mm | 1 | **217,35** |
| SM8020070100037 | 37 mm | 1 | **220,46** |
| SM8020070100038 | 38 mm | 1 | **220,46** |
| SM8020070100040 | 40 mm | 1 | **225,11** |
| SM8020070100042 | 42 mm | 1 | **232,88** |

| Codice | Misura | | € / cad. |
|---|---|---|---|
| SM8020070100044 | 44 mm | 1 | **240,64** |
| SM8020070100045 | 45 mm | 1 | **240,64** |
| SM8020070100046 | 46 mm | 1 | **240,64** |
| SM8020070100047 | 47 mm | 1 | **245,30** |
| SM8020070100048 | 48 mm | 1 | **248,40** |
| SM8020070100050 | 50 mm | 1 | **256,16** |
| SM8020070100052 | 52 mm | 1 | **279,45** |
| SM8020070100055 | 55 mm | 1 | **310,50** |
| SM8020070100056 | 56 mm | 1 | **326,03** |
| SM8020070100058 | 58 mm | 1 | **326,03** |
| SM8020070100060 | 60 mm | 1 | **326,03** |
| SM8020070100062 | 62 mm | 1 | **333,79** |
| SM8020070100065 | 65 mm | 1 | **341,55** |
| SM8020070100068 | 68 mm | 1 | **357,08** |
| SM8020070100070 | 70 mm | 1 | **372,60** |
| SM8020070100072 | 72 mm | 1 | **380,36** |
| SM8020070100075 | 75 mm | 1 | **388,13** |
| SM8020070100078 | 78 mm | 1 | **403,65** |
| SM8020070100080 | 80 mm | 1 | **403,65** |
| SM8020070100082 | 82 mm | 1 | **419,18** |
| SM8020070100085 | 85 mm | 1 | **434,70** |
| SM8020070100088 | 88 mm | 1 | **450,23** |
| SM8020070100090 | 90 mm | 1 | **450,23** |
| SM8020070100092 | 92 mm | 1 | **450,23** |
| SM8020070100095 | 95 mm | 1 | **450,23** |
| SM8020070100098 | 98 mm | 1 | **450,23** |
| SM8020070100100 | 100 mm | 1 | **465,75** |
| SM8020070100110 | 110 mm | 1 | **496,80** |
| SM8020070100125 | 125 mm | 1 | **589,95** |
| SM8020070100150 | 150 mm | 1 | **745,20** |
| SM8020070100175 | 175 mm | 1 | **962,55** |
| SM8020070100200 | 200 mm | 1 | **1.055,70** |
| SM8020070100225 | 225 mm | 1 | **1.474,88** |
| SM8020070100250 | 250 mm | 1 | **2.204,55** |
| SM8020070100275 | 275 mm | 1 | **2.484,00** |

## Serie spine calibrate



### Caratteristiche

Serie spine calibrate in acciaio HRC 61/64. Tolleranza ±0,002 mm. Rugosità inferiore a 0,025 micron Ra. Conicità inferiore a ± 0,002 mm.

| Codice | Pezzi | Dimensioni | Progressione | | € / cad. |
|---|---|---|---|---|---|
| SM8030070109110 | 91 | 1 ÷ 10 mm | 0,1 mm | 1 | **558,90** |
| SM8030070106116 | 61 | 10 ÷ 16 mm | 0,1 mm | 1 | **512,33** |
| SM8030070104120 | 41 | 16 ÷ 20 mm | 0,1 mm | 1 | **512,33** |
| SM8030070104108 | 141 | 1 ÷ 8 mm | 0,05 mm | 1 | **838,35** |
| SM8030070108112 | 81 | 8 ÷ 12 mm | 0,05 mm | 1 | **558,90** |
| SM8030070103920 | 39 | 1 ÷ 20 mm | 0,5 mm | 1 | **496,80** |
| SM8030070101002 | 100 | 1,01 ÷ 2 mm | 0,01 mm | 1 | **527,85** |
| SM8030070101003 | 100 | 2,1 ÷ 3 mm | 0,01 mm | 1 | **527,85** |
| SM8030070101004 | 100 | 3,01 ÷ 4 mm | 0,01 mm | 1 | **527,85** |
| SM8030070101005 | 100 | 4,01 ÷ 5 mm | 0,01 mm | 1 | **543,38** |
| SM8030070101006 | 100 | 5,01 ÷ 6 mm | 0,01 mm | 1 | **543,38** |
| SM8030070101007 | 100 | 6,01 ÷ 7 mm | 0,01 mm | 1 | **605,48** |
| SM8030070101008 | 100 | 7,01 ÷ 8 mm | 0,01 mm | 1 | **605,48** |
| SM8030070101009 | 100 | 8,01 ÷ 9 mm | 0,01 mm | 1 | **605,48** |
| SM8030070101010 | 100 | 9,01 ÷ 10 mm | 0,01 mm | 1 | **605,48** |

## Filetor




### Caratteristiche

Strumento indicatore per quote di filettatura (passo, diametro esterno, foratura, ecc.). Contiene le norme di filettatura per i filetti più utilizzati.

| Codice | Filetti controllabili | | € / cad. |
|---|---|---|---|
| SM80400701000FT | ISO - UNC - UNF - UNEF - GAS - WHIT - BSF - BA - PG | 1 | **103,50** |

## Tolerator




### Caratteristiche

Strumento per la lettura delle tolleranze per gli accoppiamenti ISO. Contiene la lista completa di valori di tutte le tolleranze (6400 paia).

| Codice | Ø Max | | € / cad. |
|---|---|---|---|
| SM80400701000TT | 500 mm | 1 | **103,50** |

## Convertor




mm
inch

### Caratteristiche

Strumento per la conversione dei valori da mm a pollici.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SM80400701000CT | 110x60x30 mm | 1 | **122,48** |

## Durometro per gomma




### Caratteristiche

Misuratore di durezza analogico per gomma. Misurazione diretta ed immediata del valore SHORE.

| Codice | Scala | Impiego | | € / cad. |
|---|---|---|---|---|
| SM90000801010SA | SHORE A 0-100 | Gomme e plastiche soffici, elastomeri | 1 | **357,08** |
| SM90000801010SD | SHORE D 0-100 | Gomme dure e termoplastiche | 1 | **496,80** |

## Durometro da banco



### Caratteristiche

Durometro meccanico da banco per la misurazione di durezze su metalli nelle scale Rockwell. Struttura portante in fusione di ghisa, altezza massima di prova 170 mm, profondità 165 mm. Sistema idraulico di applicazione del carico con metodo a pesi, conforme norme UNI-DIN-ASTM, con carichi da Kg. 60/100/150 per le scale Rockwell A,B,C. Appoggio pezzo dotato di una tavola piana Ø 55 mm e una tavola con prisma a V per misure di particolari cilindrici.

| Codice | Dotazione | Peso | | € / cad. |
|---|---|---|---|---|
| SM9000080100001 | 1 penetratore a cono con diamante - 1 penetratore a sfera Ø 1/16”<br>5 sfere di ricambio - 1 provino HRC 20-30<br>1 provino HRC 60-70 - 1 provino HRB 20-30 | 80 kg | 1 | **a richiesta** |

## Durometro portatile leeb a rimbalzo



### Caratteristiche

Durometro portatile leeb a rimbalzo. Metodo di Misura: Durezza Leeb Scale di Durezza HL, HB, HRB, HRC, HV, HS, σb. Campo di Misura: HLD (200-960) - HRC (19,8-68,5) - HRB (13,5-100) - HB (30-651) - HV (80-976) - HS (26,4-99,5) - σb (375-2639), con sonda di Tipo D (Standard). Precisione: ± 6 HLD (HLD=800), ripetibilità < 6 HLD (HLD=800). Direzione di impatto: 360° impostabili manualmente.
Materiali: acciaio, ghisa, acciaio inox, leghe di alluminio, leghe di rame-stagno, ottone. Peso minimo del campione: 5 Kg. Display: LCD retro illuminato a Led in lingua Inglese. Memoria 100 gruppi (ogni gruppo include 1-7 risultati e 1 valore medio), comunicazione USB (Standard) con software incluso e 2 batterie da 1,5V tipo AA. Standard GB/T 17394-1998, ASTM A956. Indicato per pezzi di grandi dimensioni e per misure comparative.




| Codice | Risoluzione | Dimensioni | | € / cad. |
|---|---|---|---|---|
| SM9000080100001R | 1HL, 1HV, 1HB, 0.1 HRC, 0.1HRC, 0.1 HS | 76x37x153H mm | 1 | **2.725,00** |

## Calibro per fori



### Caratteristiche

Calibro per fori, con perni in acciaio di precisione.

| Codice | Passo | Misura | Punte | | € / cad. |
|---|---|---|---|---|---|
| SM9700080100016 | 0,10 mm | 1,5-3,0 mm | 16 | 1 | **13,80** |
| SM9700080100020 | 0,05 mm | 0,45-1,5 mm | 20 | 1 | **13,80** |

## Contafiletti



### Caratteristiche

Contafiletti con lame in acciaio, con profili precisi.

| Codice | Lame | Spessore lame | | € / cad. |
|---|---|---|---|---|
| SM9500080100052 | 52 pz | WHIT. e METR. | 1 | **11,73** |
| SM9500080100058 | 58 pz | WHIT. e METR. – GAS | 1 | **17,25** |

## Raggimetro per profili concavi e convessi



### Caratteristiche

Raggimetro per la misurazione di profili concavi e convessi, con lame in acciaio.

| Codice | Raggi | | € / cad. |
|---|---|---|---|
| SM9600080100007 | 1-7 mm | 1 | **13,80** |
| SM9600080100015 | 7,5-15 mm | 1 | **15,53** |
| SM9600080100025 | 15,5-25 mm | 1 | **24,15** |

## Spessimetro a lama con guaina



### Caratteristiche

Spessimetro con lame in acciaio temprato e guaina in metallo.

| Codice | Lame | Spessore lame | | € / cad. |
|---|---|---|---|---|
| SM9800008010013 | 13 pz | 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70-0,80-0,90-1 mm | 1 | **4,83** |
| SM9800008010020 | 20 pz | 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1 mm | 1 | **5,87** |

## Spessimetro ad ultrasuoni



### Caratteristiche

Spessimetro ad ultrasuoni per la misurazione di spessori di rivestimenti in svariati materiali con semplice appoggio della sonda sul pezzo. Dotato di interfaccia RS 232 per l'uscita dati (mm/pollici). Fornito con sonda separata con cavo estensibile Ø 8 mm 5 MHz per superfici piane e tonde. Precisione ± 0,5% della lettura + 0,2 dgt. Risoluzione 0,1 mm.

| Codice | Campo di misura | Dimensioni | | € / cad. |
|---|---|---|---|---|
| SM9010080100003 | 1,5-200 mm | 161x69x32 mm | 1 | **931,50** |

## Spessimetro digitale per rivestimenti



### Caratteristiche

Spessimetro digitale per la misurazione di spessori di rivestimenti (vernice, zinco, cromo, plastica, gomma ecc.) su materiali ferrosi (acciaio, ferro, ecc.) e non (alluminio, acciaio inox, ecc.). Alimentazione a batteria. Precisione ± 3% della lettura o 3 µm. Risoluzione 0,1 µm fino a 100 µm, 1,0 µm oltre 100 µm.

| Codice | Campo di misura | Materiali | Dotazione | | € / cad. |
|---|---|---|---|---|---|
| SM9010080100001 | 0-1250 µm | ferrosi | 1 sonda + set lamine calibrazione + 1 base azzeramento in ferro | 1 | **915,98** |
| SM9010080100002 | 0-1250 µm | ferrosi e non ferrosi | 2 sonde + set lamine calibrazione + 1 base azzeramento in alluminio | 1 | **1.071,23** |

## Calibro monoblocco per tracciatura



### Caratteristiche

Calibro monoblocco per tracciatura. Scala cromata opaca. Punta in acciaio temprato. Lettura 0,1 mm.

| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM9100090100200 | 0-200 mm | 1 | **51,75** |
| SM9100090100400 | 0-400 mm | 1 | **84,53** |
| SM910009010000R | punta di ricambio in metallo duro | 1 | **6,90** |

## Compasso tracciatore



### Caratteristiche

Compasso tracciatore in acciaio inox, con vite micrometrica. Punte in metallo duro. Lettura 0,05.

| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM9200090100300 | 0-300 mm | 1 | **129,38** |
| SM9200090100500 | 0-500 mm | 1 | **194,93** |
| SM9200090101000 | 0-1000 mm | 1 | **362,25** |

## Tracciatore per meccanici



### Caratteristiche

Tracciatore per meccanici, con asta tonda graduata Ø 12. Base grande 100x50 mm. Punta in metallo duro.

| Codice | Campo di misura | | € / cad. |
|---|---|---|---|
| SM9300090100200 | 0-200 mm | 1 | **69,00** |
| SM9300090100300 | 0-300 mm | 1 | **77,63** |
| SM9300090100500 | 0-500 mm | 1 | **98,33** |
| SM930009010000R | punta di ricambio | 1 | **13,80** |

## Set per carpenteria



### Caratteristiche

Set carpenteria composto da: tracciatore 200 mm, calibro per tracciatura 200 mm, compasso con punte in metallo duro 300 mm, goniometro cromato 150-200 mm, punta a tracciare temprata, punta a tracciare in metallo duro.

| Codice | Composizione set | | € / cad. |
|---|---|---|---|
| SM93000901000KT | 6 pz | 1 | **324,30** |

## Punta a tracciare



### Caratteristiche

Punta a tracciare in acciaio temprato. Lunghezza 200 mm.

| Codice | Lunghezza | | € / cad. |
|---|---|---|---|
| SM9400090100200 | 200 mm | 1 | **4,49** |

## Penna in alluminio



### Caratteristiche

Penna in alluminio con punta in metallo duro intercambiabile. Lunghezza 145 mm.

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| SM9400090100145 | penna | 1 | **8,63** |
| SM94000901000R1 | punta di ricambio | 1 | **3,45** |

## Penna tascabile



### Caratteristiche

Penna tascabile, con inserto estraibile in metallo duro.

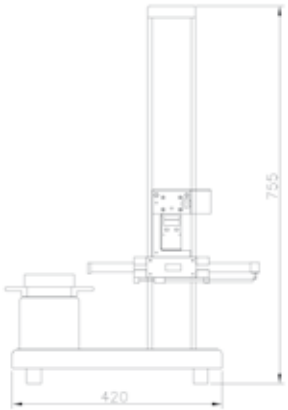
| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| SM940009010000E | penna | 1 | **7,94** |
| SM94000901000R2 | punta di ricambio | 1 | **2,76** |

## Presetting con mandrino rotante interscambiabile



### Caratteristiche

Presetting con mandrino rotante interscambiabile, uscita elettronica RS 232 mm/pollici resistente all'acqua, asse Z a sganciamento rapido, mandrino ISO 40 di serie, fornito in scatola di legno.




DATI | 0,01 mm.

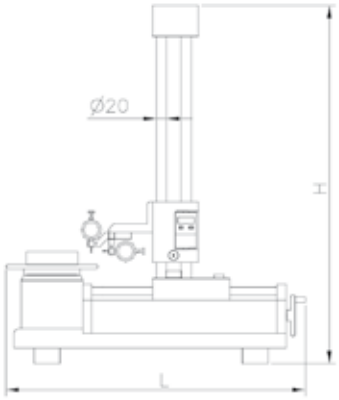
| Codice | Campo di misura asse X | Campo di misura asse Z | Angolo assi | Risoluzione | | € / cad. |
|---|---|---|---|---|---|---|
| SM9500100200160 | 160 mm (d.320) | 320 mm | 0,02 | 0,01 | 1 | **3.750,00** |

## Presetting per utensili bidimensionale



### Caratteristiche

Presetting per utensili bidimensionale con mandrino rotante intercambiabile, uscita elettronica RS 232 mm/pollici resistente all'acqua, asse Z e X a sganciamento rapido, volantini registrazione fine, mandrino ISO 40, fornito in scatola di legno.




DATI · 0,01 mm.

| Codice | Campo di misura asse X | Campo di misura asse Z | Lunghezza | Altezza | Risoluzione | | € / cad. |
|---|---|---|---|---|---|---|---|
| SM9510100200160 | 160 mm (d.320) | 320 mm | 584 mm | 520 mm | 0,02 | 1 | **5.250,00** |
| SM9510100200260 | 260 mm (d.520) | 520 mm | 684 mm | 848 mm | 0,03 | 1 | **6.300,00** |

# 5 ABRASIVI



Dischi lamellari  608-616

Mole abrasive da taglio e sbavo  617-626

Nastri e manicotti in tela abrasiva  627-637

Ruote lamellari in tela abrasiva con gambo  637-649

Rotoli e fogli in tela/ carta abrasiva  650-653

Ruote lamellari in tela abrasiva con foro  654-656

Dischi in fibra e dischi velcrati  656-667

Ruote, rotoli e tamponi in TNT  667-677

Dischi e paste per lucidatura  677-678

Frese rotative in MD  679-689

Spazzole abrasive  690-701

Dischi diamantati  701-705

## Ttay disco lamellare AB1201



### Caratteristiche

Disco lamellare a lamella singola, costruito con tela abrasiva allo zirconio di nuova generazione e supporto in nylon o fibra di vetro. Per impiego universale, ottimo rapporto asportazione / durata del disco.

| Codice | Abrasivo | Dimensioni ØxForo | Grana | Supporto | Giri/Min | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB1201010021540 | Zirconio Standard | 115x22 mm | 40 | Fibra vetro | 13.300 | 20 | **2,40** |
| AB1201010021560 | Zirconio Standard | 115x22 mm | 60 | Fibra vetro | 13.300 | 20 | **2,40** |
| AB1201010021580 | Zirconio Standard | 115x22 mm | 80 | Fibra vetro | 13.300 | 20 | **2,40** |
| AB1201010021512 | Zirconio Standard | 115x22 mm | 120 | Fibra vetro | 13.300 | 20 | **2,40** |
| AB1201010111040 | Zirconio Plus | 115x22 mm | 40 | Nylon | 13.300 | 20 | **3,42** |
| AB1201010115040 | Zirconio Plus | 115x22 mm | 40 | Fibra vetro | 13.300 | 20 | **2,94** |
| AB1201010111060 | Zirconio Plus | 115x22 mm | 60 | Nylon | 13.300 | 20 | **3,42** |
| AB1201010115060 | Zirconio Plus | 115x22 mm | 60 | Fibra vetro | 13.300 | 20 | **2,94** |
| AB1201010111080 | Zirconio Plus | 115x22 mm | 80 | Nylon | 13.300 | 20 | **3,42** |
| AB1201010115080 | Zirconio Plus | 115x22 mm | 80 | Fibra vetro | 13.300 | 20 | **2,94** |
| AB1201010111120 | Zirconio Plus | 115x22 mm | 120 | Nylon | 13.300 | 20 | **3,42** |
| AB1201010115120 | Zirconio Plus | 115x22 mm | 120 | Fibra vetro | 13.300 | 20 | **2,94** |
| AB1201020125040 | Zirconio Plus | 125x22 mm | 40 | Nylon | 12.200 | 20 | **4,38** |
| AB1201020125080 | Zirconio Plus | 125x22 mm | 80 | Nylon | 12.200 | 20 | **4,38** |

## Disco lamellare corindone AB1100



### Caratteristiche

Disco lamellare piano, a lamella singola con supporto in nylon; versione economica.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB1100010111040 | 115x22 mm | 40 | 13.300 | 20 | **2,82** |
| AB1100010111060 | 115x22 mm | 60 | 13.300 | 20 | **2,82** |
| AB1100010111080 | 115x22 mm | 80 | 13.300 | 20 | **2,82** |
| AB1100010111120 | 115x22 mm | 120 | 13.300 | 20 | **2,82** |

## Disco lamellare zirconio AB1200



### Caratteristiche

Disco lamellare piano, a lamella singola con supporto in nylon; versione economica.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB1200010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,42** |
| AB1200010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,42** |
| AB1200010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,42** |
| AB1200010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,42** |

## Disco lamellare corindone AB2100

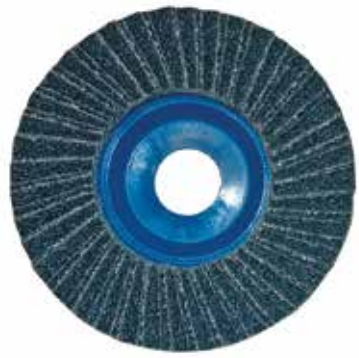


### Caratteristiche

Disco lamellare piano, a doppia lamella larga, con supporto in nylon rinforzato, senza alette; indicato per operatori professionali.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2100010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,57** |
| AB2100010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,57** |
| AB2100010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,57** |
| AB2100010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,57** |

## Disco lamellare zirconio AB2200

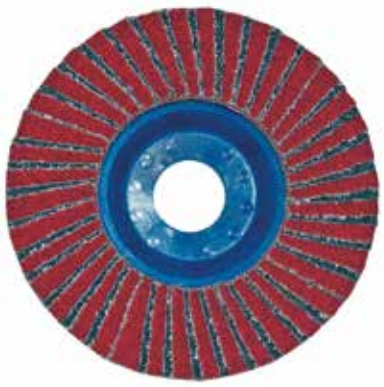


### Caratteristiche

Disco lamellare piano, a doppia lamella larga, con supporto in nylon rinforzato, senza alette; indicato per operatori professionali.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2200010111040 | 115x22 mm | 40 | 13.300 | 20 | **4,56** |
| AB2200010111060 | 115x22 mm | 60 | 13.300 | 20 | **4,56** |
| AB2200010111080 | 115x22 mm | 80 | 13.300 | 20 | **4,56** |
| AB2200010111120 | 115x22 mm | 120 | 13.300 | 20 | **4,56** |

## Disco lamellare ceramico-zirconio AB2300



### Caratteristiche

Disco lamellare piano, a doppia lamella larga, con supporto in nylon rinforzato, senza alette; indicato per operatori professionali.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2300010111040 | 115x22 mm | 40 | 13.300 | 20 | **5,64** |
| AB2300010111060 | 115x22 mm | 60 | 13.300 | 20 | **5,64** |
| AB2300010111080 | 115x22 mm | 80 | 13.300 | 20 | **5,64** |
| AB2300010111120 | 115x22 mm | 120 | 13.300 | 20 | **5,64** |

## Disco lamellare zirconio AB3200



### Caratteristiche

Disco lamellare piano, a doppia lamella larga per impieghi gravosi, con supporto in nylon rinforzato, con alette; indicato per operatori professionali.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB3200010111040 | 115x22 mm | 40 | 13.300 | 20 | **4,74** |
| AB3200010111060 | 115x22 mm | 60 | 13.300 | 20 | **4,74** |
| AB3200010111080 | 115x22 mm | 80 | 13.300 | 20 | **4,74** |
| AB3200010111120 | 115x22 mm | 120 | 13.300 | 20 | **4,74** |

## Disco lamellare corindone AB4100



### Caratteristiche

Disco lamellare piano, a doppia lamella con supporto in nylon, per impiego universale; ottimo rendimento ed elevato grado di finitura.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB4100010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,06** |
| AB4100010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,00** |
| AB4100010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,00** |
| AB4100010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,00** |

## Disco lamellare zirconio AB4200



### Caratteristiche

Disco lamellare piano, a doppia lamella con supporto in nylon, per impiego universale; ottimo rendimento ed elevato grado di finitura.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB4200010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,66** |
| AB4200010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,66** |
| AB4200010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,66** |
| AB4200010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,66** |

## Disco lamellare zirconio AB5500



### Caratteristiche

Disco lamellare piano, a doppia lamella con supporto in nylon rinforzato con bordi esterni scanalati; foro filettato M14 che consente un cambio rapido e preciso dell'utensile; supporto con intagli e profilo a turbina per una maggiore circolazione dell'aria e minor surriscaldamento della smerigliatrice e del pezzo lavorato.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB5500010111040 | 115xM14 | 40 | 13.300 | 20 | **5,25** |
| AB5500010111060 | 115xM14 | 60 | 13.300 | 20 | **5,25** |
| AB5500010111080 | 115xM14 | 80 | 13.300 | 20 | **5,25** |

## Disco lamellare piano zirconio AB6200



### Caratteristiche

Disco lamellare a lamella singola per impiego universale, con particolare supporto rinforzato in fibra di vetro per un rendimento ottimale, con consumo completo del disco.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB6200010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,75** |
| AB6200010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,75** |
| AB6200010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,75** |
| AB6200010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,75** |

## Disco lamellare piano ceramico-zirconio AB6300



### Caratteristiche

Disco lamellare a lamella singola per impiego universale, con particolare supporto rinforzato in fibra di vetro per un rendimento ottimale, con consumo completo del disco.

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB6300010111040 | 115x22 mm | 40 | 13.300 | 20 | **4,44** |
| AB6300010111060 | 115x22 mm | 60 | 13.300 | 20 | **4,44** |
| AB6300010111080 | 115x22 mm | 80 | 13.300 | 20 | **4,44** |

## Disco lamellare inclinato zirconio AB6211



### Caratteristiche

Disco lamellare a lamella singola per impiego universale, con particolare supporto rinforzato in fibra di vetro per un rendimento ottimale, con consumo completo del disco.



*Disegno: supporto conico*

| Codice | Dimensioni ØxForo | Grana | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB6211010111040 | 115x22 mm | 40 | 13.300 | 20 | **3,66** |
| AB6211010111060 | 115x22 mm | 60 | 13.300 | 20 | **3,66** |
| AB6211010111080 | 115x22 mm | 80 | 13.300 | 20 | **3,66** |
| AB6211010111120 | 115x22 mm | 120 | 13.300 | 20 | **3,66** |

## Disco lamellare YELLOW ceramico piano AB6800



### Caratteristiche

Disco lamellare ceramico di nuova generazione, universale, per la lavorazione di qualsiasi tipo di materiale ferroso e non ferroso (inox, acciai comuni, acciai legati, alluminio, plasti- ca, ecc.). Questa tipologia di disco consente un consumo integrale dell'utensile senza intasamenti, anche su materiali come alluminio e legno. Garantisce inoltre un'ottima capacità di asportazione, oltre ad una notevole durata rispetto ai prodotti tradizionali.

| Codice | Dimensioni ØxForo | Grana | Supporto | | € / cad. |
|---|---|---|---|---|---|
| AB6800010011540 | 115x22 mm | 40 | Nylon | 20 | **5,79** |
| AB6800010011560 | 115x22 mm | 60 | Nylon | 20 | **5,79** |
| AB6800010115040 | 115x22 mm | 40 | Fibra vetro | 20 | **5,79** |
| AB6800010115060 | 115x22 mm | 60 | Fibra vetro | 20 | **5,79** |

## Disco lamellare GREEN ceramico piano AB6400



### Caratteristiche

Disco abrasivo in tela ceramica verde additivata, con supporto in polycotton. La tela abrasiva è additivata con uno strato di sostanze che consentono la riduzione della temperatura nella zona di lavoro, ne conseguono una maggiore durata del disco, minori bruciature sul pezzo lavorato e velocità di taglio più elevate. Particolarmente indicato per lavorazioni pesanti con metalli duri che richiedono grosse asportazioni.

| Codice | Dimensioni ØxForo | Grana | Supporto | | € / cad. |
|---|---|---|---|---|---|
| AB6400010011540 | 115x22 mm | 40 | Nylon | 20 | **5,58** |
| AB6400010011560 | 115x22 mm | 60 | Nylon | 20 | **5,58** |
| AB6400010011580 | 115x22 mm | 80 | Fibra vetro | 20 | **5,58** |
| AB6400010017840 | 178x22 mm | 60 | Fibra vetro | 20 | **12,63** |

## Disco lamellare EDGE zirconio piano AB6700



### Caratteristiche

Disco lamellare specifico per la smerigliatura degli angoli. Lamelle rivoltate e incollate sul diametro esterno del supporto in fibra per garantire un'elevata resistenza e durata del bordo e, quindi, del disco stesso. Raccomandato per uso professionale.

| Codice | Dimensioni ØxForo | Grana | Supporto | | € / cad. |
|---|---|---|---|---|---|
| AB6700010012540 | 125x22 mm | 40 | Fibra vetro | 20 | **9,42** |
| AB6700010012560 | 125x22 mm | 60 | Fibra vetro | 20 | **9,42** |
| AB6700010012580 | 125x22 mm | 80 | Fibra vetro | 20 | **9,42** |

## Disco lamellare EDGE ceramico piano AB6700



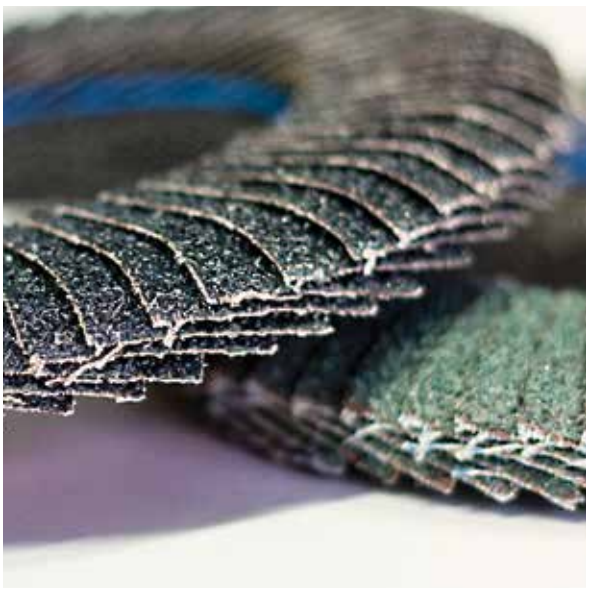
### Caratteristiche

Disco lamellare specifico per la smerigliatura degli angoli. Lamelle rivoltate e incollate sul diametro esterno del supporto in fibra per garantire un'elevata resistenza e durata del bordo e, quindi, del disco stesso. Raccomandato per uso professionale.

| Codice | Dimensioni ØxForo | Supporto | | € / cad. |
|---|---|---|---|---|
| AB6700010012500 | 125x22 mm | Fibra vetro | 20 | **10,50** |







## Mola abrasiva piana taglio acciaio AB1110




### Caratteristiche

Mole abrasive piane da taglio, spessore sottile, adatte a tutti i tipi di acciai non trattati, lamierini, molle e grigliati. Ottima capacità di taglio e considerevole durata. Bassa asportazione di materiale, basso assorbimento di potenza e limitata produzione di bave.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB1110020411510 | 115x22,23 mm | 1,0 mm | 13.300 | 50 | **1,53** |
| AB1110020411512 | 115x22,23 mm | 1,2 mm | 13.300 | 50 | **1,53** |
| AB1110020411516 | 115x22,23 mm | 1,6 mm | 13.300 | 50 | **1,53** |
| AB1110020411525 | 115x22,23 mm | 2,5 mm | 13.300 | 50 | **1,53** |
| AB1110020412510 | 125x22,23 mm | 1,0 mm | 12.200 | 50 | **1,68** |
| AB1110020412512 | 125x22,23 mm | 1,2 mm | 12.200 | 50 | **1,68** |
| AB1110020412516 | 125x22,23 mm | 1,6 mm | 12.200 | 50 | **1,68** |
| AB1110020415032 | 150x22,23 mm | 3,2 mm | 6.600 | 50 | **2,61** |
| AB1110020418020 | 180x22,23 mm | 2,0 mm | 8.500 | 25 | **2,76** |
| AB1110020423020 | 230x22,23 mm | 2,0 mm | 6.600 | 25 | **3,51** |
| AB1110020423025 | 230x22,23 mm | 2,5 mm | 6.600 | 25 | **3,36** |

## Mola abrasiva centro depresso taglio acciaio AB1120




### Caratteristiche

Mole abrasive a centro depresso, adatte al taglio di acciai normali, medio legati e di ghise acciaiose; taglio di sezioni medio-grosse con smerigliatrici potenti (2400W), sezioni medio-piccole con smerigliatrici di bassa potenza (1800-2000W). Alta velocità di taglio e buona tenuta del disco.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB1120020411532 | 115x22,23 mm | 3,2 mm | 13.300 | 50 | **1,53** |
| AB1120020412532 | 125x22,23 mm | 3,2 mm | 12.200 | 50 | **1,83** |
| AB1120020418032 | 180x22,23 mm | 3,2 mm | 8.500 | 25 | **2,76** |
| AB1120020423032 | 230x22,23 mm | 3,2 mm | 6.600 | 25 | **3,51** |

## Mola abrasiva centro depresso sbavo acciaio AB1130




### Caratteristiche

Mole abrasive a centro depresso, adatte allo sbavo di acciai con superficie di molatura estesa e lavorazione di ghise grigie.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB1130020411565 | 115x22,23 mm | 6,5 mm | 13.300 | 50 | **2,31** |
| AB1130020412565 | 125x22,23 mm | 6,5 mm | 12.200 | 50 | **2,46** |
| AB1130020415065 | 150x22,23 mm | 6,5 mm | 8.500 | 50 | **3,51** |
| AB1130020418065 | 180x22,23 mm | 6,5 mm | 8.500 | 25 | **4,29** |
| AB1130020423065 | 230x22,23 mm | 6,5 mm | 6.600 | 25 | **6,42** |

## Mola abrasiva piana taglio inox AB2220




### Caratteristiche

Mole abrasive piane da taglio, spessore sottile, per acciai inossidabili, legati e trattati. Ottima qualità di taglio e buona durata. Bassa asportazione di materiale, basso assorbimento di potenza e limitata produzione di bave. Minor riscaldamento del pezzo da tagliare.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2220020411510 | 115x22,23 mm | 1,0 mm | 13.300 | 50 | **1,53** |
| AB2220020411512 | 115x22,23 mm | 1,2 mm | 13.300 | 50 | **1,53** |
| AB2220020411516 | 115x22,23 mm | 1,6 mm | 13.300 | 50 | **1,53** |
| AB2220020412510 | 125x22,23 mm | 1,0 mm | 12.200 | 50 | **1,83** |
| AB2220020412512 | 125x22,23 mm | 1,2 mm | 12.200 | 50 | **1,83** |
| AB2220020412516 | 125x22,23 mm | 1,6 mm | 12.200 | 50 | **1,83** |
| AB2220020418020 | 180x22,23 mm | 2,0 mm | 8.500 | 25 | **2,61** |
| AB2220020423020 | 230x22,23 mm | 2,0 mm | 6.600 | 25 | **3,51** |
| AB2220020423025 | 230x22,23 mm | 2,5 mm | 6.600 | 25 | **3,51** |

## Mola abrasiva centro depresso taglio inox AB2120




### Caratteristiche

Mole abrasive a centro depresso, adatte al taglio di acciai inossidabili, acciai legati e ghise dure. Buona velocità di taglio e lunga durata.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2120020411532 | 115x22,23 mm | 3,2 mm | 13.300 | 50 | **1,53** |
| AB2120020412532 | 125x22,23 mm | 3,2 mm | 12.200 | 50 | **1,83** |
| AB2120020418032 | 180x22,23 mm | 3,2 mm | 8.500 | 25 | **2,91** |
| AB2120020423032 | 230x22,23 mm | 3,2 mm | 6.600 | 25 | **3,66** |

## Mola abrasiva centro depresso sbavo inox AB2130




### Caratteristiche

Mole abrasive a centro depresso, adatte allo sbavo di acciai inossidabili, acciai legati e ghise dure. Buona velocità di taglio e lunga durata.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB2130020411570 | 115x22,23 mm | 7,0 mm | 13.300 | 50 | **2,46** |
| AB2130020412565 | 125x22,23 mm | 6,5 mm | 12.200 | 50 | **2,61** |
| AB2130020418065 | 180x22,23 mm | 6,5 mm | 8.500 | 25 | **4,44** |
| AB2130020423070 | 230x22,23 mm | 7,0 mm | 6.600 | 25 | **6,57** |

## Mola abrasiva piana taglio marmo AB3100




### Caratteristiche

Mole abrasive piane da taglio, spessore sottile, per taglio di pietra, calcestruzzo e materiali non ferrosi.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB3100020411516 | 115x22,23 mm | 1,6 mm | 13.300 | 50 | **1,68** |
| AB3100020423025 | 230x22,23 mm | 2,5 mm | 6.600 | 25 | **3,66** |

## Mola abrasiva centro depresso taglio AB3120 marmo




### Caratteristiche

Mole abrasive a centro depresso, adatte al taglio e alla lavorazione di marmo, calcestruzzo, ghisa e bronzo.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB3120020411532 | 115x22,23 mm | 3,2 mm | 13.300 | 50 | **1,83** |
| AB3120020423032 | 230x22,23 mm | 3,2 mm | 6.600 | 25 | **3,66** |

## Mola abrasiva centro depresso sbavo marmo AB3130




### Caratteristiche

Mole abrasive a centro depresso, adatte alla lavorazione di marmo, calcestruzzo, ghisa e bronzo.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB3130020411565 | 115x22,23 mm | 6,5 mm | 13.300 | 50 | **2,46** |
| AB3130020423065 | 230x22,23 mm | 6,5 mm | 6.600 | 25 | **6,90** |

## Mola abrasiva centro depresso taglio alluminio AB4120




### Caratteristiche

Mole abrasive a centro depresso, adatte al taglio di alluminio, bronzo e ottone.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB4120020411532 | 115x22,23 mm | 3,2 mm | 13.300 | 50 | **1,68** |
| AB4120020423032 | 230x22,23 mm | 3,2 mm | 6.600 | 25 | **3,66** |

## Mola abrasiva piana allo zirconio AB5100




### Caratteristiche

Mole abrasive piane da taglio, allo zirconio, per acciaio e ghise. Lunga durata ed elevata velocità di taglio.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB5100020411516 | 115x22,23 mm | 1,6 mm | 13.300 | 50 | **2,46** |
| AB5100020412516 | 125x22,23 mm | 1,6 mm | 12.200 | 50 | **2,76** |

## Mola abrasiva centro depresso taglio zirconio AB5120




### Caratteristiche

Mole abrasive a centro depresso, allo zirconio, adatte al taglio di acciaio e ghise.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB5120020411532 | 115x22,23 mm | 3,2 mm | 13.300 | 50 | **2,46** |
| AB5120020423032 | 230x22,23 mm | 3,2 mm | 6.600 | 25 | **7,95** |

## Mola abrasiva centro depresso sbavo zirconio AB5130




### Caratteristiche

Mole abrasive a centro depresso, allo zirconio, adatte allo sbavo di acciaio e ghise con smerigliatrici ad alta frequenza. Lunga durata e alta velocità di asportazione.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB5130020411565 | 115x22,23 mm | 6,5 mm | 13.300 | 50 | **4,14** |
| AB5130020412565 | 125x22,23 mm | 6,5 mm | 12.200 | 50 | **4,44** |
| AB5130020423070 | 230x22,23 mm | 7,0 mm TOP | 6.600 | 25 | **12,39** |

## Mola abrasiva centro depresso zirconio MEDIO AB5130




### Caratteristiche

Mole abrasive a centro depresso, allo zirconio, di tipo MEDIO, dall'elevata asportazione e per prestazioni ad altissimo rendimento: più del doppio delle performance rispetto ad un disco standard. Adatte per lo sbavo di acciai e ghise, per uso professionale.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB513002042307M | 230x22,23 mm | 7,0 mm | 6.600 | 25 | **14,22** |

## Mola abrasiva centro depresso zirconio FINE AB5130




### Caratteristiche

Mole abrasive a centro depresso, allo zirconio, adatte al taglio di acciaio e ghise.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB513002042307F | 230x22,23 mm | 7,0 mm | 6.600 | 25 | **14,22** |

## Mola abrasiva piana Evolution taglio acciaio/inox AB9100




### Caratteristiche

Mole abrasive piane da taglio, versatili, utilizzabili sulle diverse tipologie di acciaio e acciaio inox. Ideali per il taglio di piccole e medie sezioni. Grazie ad un innovativo legante, caratterizzato da un bassissimo contenuto di ferro zolfo e cloro, le mole abrasive EVOLUTION garantiscono tagli precisi ed un ottimo rendimento (circa il 30% superiore rispetto alle mole standard). Per il Ø115 è consigliato l'utilizzo di smerigliatrici da 1.000W, per il Ø125 è consigliato l'utilizzo di smerigliatrici da 1.200W.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB9100020411501 | 115x22,23 mm | 1,0 mm | 13.300 | 25 | **1,68** |
| AB9100020411512 | 115x22,23 mm | 1,2 mm | 13.300 | 25 | **1,68** |
| AB9100020411516 | 115x22,23 mm | 1,6 mm | 13.300 | 25 | **1,68** |
| AB9100020412501 | 125x22,23 mm | 1,0 mm | 12.200 | 25 | **1,83** |
| AB9100020412512 | 125x22,23 mm | 1,2 mm | 12.200 | 25 | **1,83** |
| AB9100020412516 | 125x22,23 mm | 1,6 mm | 12.200 | 25 | **1,83** |
| AB9100020230002 | 230x22,23 mm | 2,0 mm | 6.600 | 25 | **3,66** |

## Mola troncatrice piana taglio acciaio AB6100




### Caratteristiche

Mole troncatrici piane, a due reti esterne, adatte al taglio di acciai di piccole-medie sezioni con macchine portatili monofase. Velocità periferica del disco 60 mt./sec.

| Codice | Dimensioni ØxForo | Spessore | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB6100020425025 | 250x25,4 mm | 2,5 mm | 4.800 | 25 | **5,04** |
| AB6100020430028 | 300x25,4 mm | 2,8 mm | 4.012 | 25 | **5,97** |
| AB6100020435030 | 350x25,4 mm | 3,0 mm | 3.439 | 25 | **9,18** |

## Mola ceramica cilindrica



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB710002041010C | 10x10 mm | 6 mm | 10 | **1,23** |
| AB710002041015C | 10x15 mm | 6 mm | 10 | **1,23** |
| AB710002041025C | 10x25 mm | 6 mm | 10 | **1,53** |
| AB710002041030C | 10x30 mm | 6 mm | 10 | **1,53** |
| AB710002041515C | 15x15 mm | 6 mm | 10 | **1,23** |
| AB710002041520C | 15x20 mm | 6 mm | 10 | **1,38** |
| AB710002041530C | 15x30 mm | 6 mm | 10 | **1,68** |
| AB710002041540C | 15x40 mm | 6 mm | 10 | **1,98** |
| AB710002042015C | 20x15 mm | 6 mm | 10 | **1,23** |
| AB710002042020C | 20x20 mm | 6 mm | 10 | **1,38** |
| AB710002042030C | 20x30 mm | 6 mm | 10 | **1,68** |
| AB710002042510C | 25x10 mm | 6 mm | 10 | **1,23** |
| AB710002042525C | 25x25 mm | 6 mm | 10 | **1,68** |
| AB710002043020C | 30x20 mm | 6 mm | 10 | **1,68** |
| AB710002043030C | 30x30 mm | 6 mm | 10 | **1,86** |
| AB710002043535C | 35x35 mm | 6 mm | 10 | **2,61** |
| AB710002044010C | 40x10 mm | 6 mm | 10 | **1,83** |
| AB710002044020C | 40x20 mm | 6 mm | 10 | **2,46** |
| AB710002044030C | 40x30 mm | 6 mm | 10 | **3,06** |
| AB710002044040C | 40x40 mm | 6 mm | 10 | **3,66** |
| AB710002045010C | 50x10 mm | 6 mm | 10 | **2,46** |
| AB710002045015C | 50x15 mm | 6 mm | 10 | **2,76** |
| AB710002046010C | 60x10 mm | 6 mm | 10 | **3,06** |

## Mola ceramica cilindrica punta conica



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB71002041015PS | 10x15 mm | 6 mm | 10 | **1,53** |
| AB71002041520PS | 15x20 mm | 6 mm | 10 | **1,68** |
| AB71002042030PS | 20x30 mm | 6 mm | 10 | **1,98** |
| AB71002042530PS | 25x30 mm | 6 mm | 10 | **2,46** |
| AB71002043040PS | 30x40 mm | 6 mm | 10 | **3,06** |

## Mola ceramica tronco-conica



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB71002041525CN | 15x25 mm | 6 mm | 10 | **1,83** |
| AB71002042030CN | 20x30 mm | 6 mm | 10 | **1,98** |
| AB71002042540CN | 25x40 mm | 6 mm | 10 | **3,06** |

## Mola ceramica a pigna



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB7100020415300 | 15x30 mm | 6 mm | 10 | **1,98** |
| AB7100020420300 | 20x30 mm | 6 mm | 10 | **1,98** |
| AB7100020430500 | 30x50 mm | 6 mm | 10 | **3,99** |

## Mola ceramica cilindrica a punta



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB710002041015P | 10x15 mm | 6 mm | 10 | **1,53** |
| AB710002041530P | 15x30 mm | 6 mm | 10 | **1,98** |
| AB710002042025P | 20x25 mm | 6 mm | 10 | **1,83** |
| AB710002042525P | 25x25 mm | 6 mm | 10 | **2,01** |
| AB710002043030P | 30x30 mm | 6 mm | 10 | **2,61** |

## Mola ceramica sferica



### Caratteristiche

Mole su gambo in corindone rosa a legante ceramico vetrificato. Adatte a tutti i tipi di acciaio per smerigliatura e sbavatura leggera di superfici irregolari e parti sagomate. Elevata qualità di lavorazione e asportazione. Lunga durata del prodotto e ottima resa della superficie lavorata. Disponibili in vari profili e misure.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB710002041006S | 10 mm | 6 mm | 10 | **1,53** |
| AB710002041506S | 15 mm | 6 mm | 10 | **1,53** |
| AB710002042006S | 20 mm | 6 mm | 10 | **1,83** |
| AB710002042506S | 25 mm | 6 mm | 10 | **2,01** |
| AB710002043006S | 30 mm | 6 mm | 10 | **2,46** |

## Nastro tela corindone AB1000



### Caratteristiche

Nastri in tela abrasiva al corindone per la smerigliatura di tutti i metalli e per la levigatura su legno; doppia resina, supporto rigido in poliestere per la grana 36, in cotone per le grane più fini a partire dalla 40.

| Codice | Dimensioni LxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB1000030310036 | 1000x100 mm | 36 | 10 | **7,62** |
| AB1000030310040 | 1000x100 mm | 40 | 10 | **6,67** |
| AB1000030310060 | 1000x100 mm | 60 | 10 | **6,12** |
| AB1000030310080 | 1000x100 mm | 80 | 10 | **5,97** |
| AB1000030310100 | 1000x100 mm | 100 | 10 | **5,63** |
| AB1000030310120 | 1000x100 mm | 120 | 10 | **5,63** |
| AB1000030310150 | 1000x100 mm | 150 | 10 | **6,40** |
| AB1000030310180 | 1000x100 mm | 180 | 10 | **6,40** |
| AB1000030310240 | 1000x100 mm | 240 | 10 | **6,40** |
| AB1000030315036 | 1500x120 mm | 36 | 10 | **11,72** |
| AB1000030315040 | 1500x120 mm | 40 | 10 | **10,62** |
| AB1000030315060 | 1500x120 mm | 60 | 10 | **9,64** |
| AB1000030315080 | 1500x120 mm | 80 | 10 | **9,36** |
| AB1000030315100 | 1500x120 mm | 100 | 10 | **8,75** |
| AB1000030315120 | 1500x120 mm | 120 | 10 | **8,75** |
| AB1000030315150 | 1500x120 mm | 150 | 10 | **8,75** |
| AB1000030315180 | 1500x120 mm | 180 | 10 | **9,52** |
| AB1000030315240 | 1500x120 mm | 240 | 10 | **9,52** |
| AB1000030317036 | 1750x150 mm | 36 | 10 | **16,13** |
| AB1000030317040 | 1750x150 mm | 40 | 10 | **18,02** |
| AB1000030317060 | 1750x150 mm | 60 | 10 | **14,99** |
| AB1000030317080 | 1750x150 mm | 80 | 10 | **13,86** |
| AB1000030317100 | 1750x150 mm | 100 | 10 | **12,94** |
| AB1000030317120 | 1750x150 mm | 120 | 10 | **12,94** |
| AB1000030317150 | 1750x150 mm | 150 | 10 | **12,94** |
| AB1000030317180 | 1750x150 mm | 180 | 10 | **12,94** |
| AB1000030317240 | 1750x150 mm | 240 | 10 | **12,94** |
| AB1000030320036 | 2000x75 mm | 36 | 10 | **9,30** |
| AB1000030320040 | 2000x75 mm | 40 | 10 | **10,86** |
| AB1000030320060 | 2000x75 mm | 60 | 10 | **8,23** |

## Nastro tela corindone AB1000



### Caratteristiche

Nastri in tela abrasiva al corindone per la smerigliatura di tutti i metalli e per la levigatura su legno; doppia resina, supporto rigido in poliestere per la grana 36, in cotone per le grane più fini a partire dalla 40.

| Codice | Dimensioni LxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB1000030320080 | 2000x75 mm | 80 | 10 | **8,38** |
| AB1000030320100 | 2000x75 mm | 100 | 10 | **7,50** |
| AB1000030320120 | 2000x75 mm | 120 | 10 | **7,50** |
| AB1000030320150 | 2000x75 mm | 150 | 10 | **7,89** |
| AB1000030320180 | 2000x75 mm | 180 | 10 | **7,50** |
| AB1000030320240 | 2000x75 mm | 240 | 10 | **7,50** |

## Nastro tela zirconio AB2000



### Caratteristiche

Nastri in tela abrasiva allo zirconio, indicati per un'elevata asportazione su acciai al carbonio e inossidabili, ghisa e per la levigatura di parquet; supporto rigido in cotone pesante.

| Codice | Dimensioni LxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB2000030310036 | 1000x100 mm | 36 | 10 | **10,34** |
| AB2000030310040 | 1000x100 mm | 40 | 10 | **10,37** |
| AB2000030310060 | 1000x100 mm | 60 | 10 | **8,60** |
| AB2000030310080 | 1000x100 mm | 80 | 10 | **8,38** |
| AB2000030310120 | 1000x100 mm | 120 | 10 | **7,41** |
| AB2000030315036 | 1500x120 mm | 36 | 10 | **16,65** |
| AB2000030315040 | 1500x120 mm | 40 | 10 | **15,61** |
| AB2000030315060 | 1500x120 mm | 60 | 10 | **12,88** |
| AB2000030315080 | 1500x120 mm | 80 | 10 | **12,64** |
| AB2000030315120 | 1500x120 mm | 120 | 10 | **11,05** |
| AB2000030317036 | 1750x150 mm | 36 | 10 | **23,44** |
| AB2000030317040 | 1750x150 mm | 40 | 10 | **22,40** |
| AB2000030317060 | 1750x150 mm | 60 | 10 | **18,94** |

## Nastro tela zirconio AB2000

| Codice | Dimensioni LxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB2000030317080 | 1750x150 mm | 80 | 10 | **18,27** |
| AB2000030317120 | 1750x150 mm | 120 | 10 | **15,76** |
| AB2000030320036 | 2000x75 mm | 36 | 10 | **13,04** |
| AB2000030320040 | 2000x75 mm | 40 | 10 | **12,52** |
| AB2000030320060 | 2000x75 mm | 60 | 10 | **10,47** |
| AB2000030320080 | 2000x75 mm | 80 | 10 | **9,18** |
| AB2000030320120 | 2000x75 mm | 120 | 10 | **8,78** |

## Manicotto in tela abrasiva corindone AB1001



### Caratteristiche

Manicotti cilindrici in tela abrasiva al corindone; utilizzo universale su acciaio, metalli non ferrosi e plastica; trovano impiego in varie lavorazioni, quali: asportazione di cordoni di saldatura, sgrossatura e finitura di particolari meccanici, smerigliatura di stampi e pulizia di fori (interno tubi); foderati di tela in cotone; velocità periferica di utilizzo consigliata 20- 30 mt./sec.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB1001040310004 | 10x10 mm | 40 | 0 | **a richiesta** |
| AB1001040310006 | 10x10 mm | 60 | 0 | **a richiesta** |
| AB1001040310008 | 10x10 mm | 80 | 0 | **a richiesta** |
| AB1001040310012 | 10x10 mm | 120 | 0 | **a richiesta** |
| AB1001040310015 | 10x10 mm | 150 | 0 | **a richiesta** |
| AB1001040310018 | 10x10 mm | 180 | 0 | **a richiesta** |
| AB1001040310204 | 10x20 mm | 40 | 200 | **0,31** |
| AB1001040310206 | 10x20 mm | 60 | 200 | **0,31** |
| AB1001040310208 | 10x20 mm | 80 | 200 | **0,28** |
| AB1001040310212 | 10x20 mm | 120 | 200 | **0,28** |
| AB1001040310215 | 10x20 mm | 150 | 200 | **0,28** |
| AB1001040310218 | 10x20 mm | 180 | 200 | **0,28** |
| AB1001040313204 | 13x25 mm | 40 | 200 | **0,55** |
| AB1001040313206 | 13x25 mm | 60 | 200 | **0,37** |
| AB1001040313208 | 13x25 mm | 80 | 200 | **0,37** |
| AB1001040313212 | 13x25 mm | 120 | 200 | **0,37** |
| AB1001040313215 | 13x25 mm | 150 | 200 | **0,52** |
| AB1001040313218 | 13x25 mm | 180 | 200 | **0,37** |
| AB1001040315304 | 15x30 mm | 40 | 200 | **0,43** |
| AB1001040315306 | 15x30 mm | 60 | 200 | **0,43** |

## Manicotto in tela abrasiva corindone AB1001



### Caratteristiche

Manicotti cilindrici in tela abrasiva al corindone; utilizzo universale su acciaio, metalli non ferrosi e plastica; trovano impiego in varie lavorazioni, quali: asportazione di cordoni di saldatura, sgrossatura e finitura di particolari meccanici, smerigliatura di stampi e pulizia di fori (interno tubi); foderati di tela in cotone; velocità periferica di utilizzo consigliata 20- 30 mt./sec.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB1001040315308 | 15x30 mm | 80 | 200 | **0,40** |
| AB1001040315312 | 15x30 mm | 120 | 200 | **0,40** |
| AB1001040315315 | 15x30 mm | 150 | 200 | **0,40** |
| AB1001040315318 | 15x30 mm | 180 | 200 | **0,40** |
| AB1001040322204 | 22x20 mm | 40 | 200 | **0,40** |
| AB1001040322206 | 22x20 mm | 60 | 200 | **0,37** |
| AB1001040322208 | 22x20 mm | 80 | 200 | **0,37** |
| AB1001040322212 | 22x20 mm | 120 | 200 | **0,37** |
| AB1001040322215 | 22x20 mm | 150 | 200 | **0,37** |
| AB1001040322218 | 22x20 mm | 180 | 200 | **0,37** |
| AB1001040325204 | 25x25 mm | 40 | 200 | **0,52** |
| AB1001040325206 | 25x25 mm | 60 | 200 | **0,49** |
| AB1001040325208 | 25x25 mm | 80 | 200 | **0,49** |
| AB1001040325212 | 25x25 mm | 120 | 200 | **0,46** |
| AB1001040325215 | 25x25 mm | 150 | 200 | **0,46** |
| AB1001040325218 | 25x25 mm | 180 | 200 | **0,46** |
| AB1001040330304 | 30x30 mm | 40 | 200 | **0,58** |
| AB1001040330306 | 30x30 mm | 60 | 200 | **0,55** |
| AB1001040330308 | 30x30 mm | 80 | 200 | **0,55** |
| AB1001040330312 | 30x30 mm | 120 | 200 | **0,52** |
| AB1001040330315 | 30x30 mm | 150 | 200 | **0,52** |
| AB1001040330318 | 30x30 mm | 180 | 200 | **0,67** |
| AB1001040345304 | 45x30 mm | 40 | 100 | **0,73** |
| AB1001040345306 | 45x30 mm | 60 | 100 | **0,67** |
| AB1001040345308 | 45x30 mm | 80 | 100 | **0,67** |
| AB1001040345312 | 45x30 mm | 120 | 100 | **0,67** |
| AB1001040345315 | 45x30 mm | 150 | 100 | **0,83** |
| AB1001040345318 | 45x30 mm | 180 | 100 | **0,67** |
| AB1001040351204 | 51x25 mm | 40 | 0 | **a richiesta** |
| AB1001040351206 | 51x25 mm | 60 | 0 | **a richiesta** |

## Manicotto in tela abrasiva corindone AB1001



### Caratteristiche

Manicotti cilindrici in tela abrasiva al corindone; utilizzo universale su acciaio, metalli non ferrosi e plastica; trovano impiego in varie lavorazioni, quali: asportazione di cordoni di saldatura, sgrossatura e finitura di particolari meccanici, smerigliatura di stampi e pulizia di fori (interno tubi); foderati di tela in cotone; velocità periferica di utilizzo consigliata 20- 30 mt./sec.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB1001040351208 | 51x25 mm | 80 | 0 | **a richiesta** |
| AB1001040351212 | 51x25 mm | 120 | 0 | **a richiesta** |
| AB1001040351215 | 51x25 mm | 150 | 0 | **a richiesta** |
| AB1001040351218 | 51x25 mm | 180 | 0 | **a richiesta** |
| AB1001040360304 | 60x30 mm | 40 | 100 | **0,83** |
| AB1001040360306 | 60x30 mm | 60 | 100 | **0,77** |
| AB1001040360308 | 60x30 mm | 80 | 100 | **0,73** |
| AB1001040360312 | 60x30 mm | 120 | 100 | **0,73** |
| AB1001040360315 | 60x30 mm | 150 | 100 | **0,73** |
| AB1001040360318 | 60x30 mm | 180 | 100 | **0,73** |
| AB1001040375304 | 75x30 mm | 40 | 0 | **a richiesta** |
| AB1001040375306 | 75x30 mm | 60 | 0 | **a richiesta** |
| AB1001040375308 | 75x30 mm | 80 | 0 | **a richiesta** |
| AB1001040375312 | 75x30 mm | 120 | 0 | **a richiesta** |
| AB1001040375315 | 75x30 mm | 150 | 0 | **a richiesta** |
| AB1001040375318 | 75x30 mm | 180 | 0 | **a richiesta** |
| AB1001040301304 | 100x40 mm | 40 | 100 | **1,68** |
| AB1001040301306 | 100x40 mm | 60 | 100 | **1,53** |
| AB1001040301308 | 100x40 mm | 80 | 100 | **1,47** |
| AB1001040301312 | 100x40 mm | 120 | 100 | **1,44** |
| AB1001040301315 | 100x40 mm | 150 | 100 | **1,44** |
| AB1001040301318 | 100x40 mm | 180 | 100 | **1,44** |

## Manicotto in tela abrasiva zirconio AB2002



### Caratteristiche

Manicotti cilindrici in tela abrasiva allo zirconio; particolarmente adatti per un'elevata asportazione; usati principalmente per parti in acciaio e inox; foderati di tela in cotone; velocità periferica di utilizzo consigliata 20-30 mt./sec.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB2002040310204 | 10x20 mm | 40 | 200 | **0,37** |
| AB2002040310206 | 10x20 mm | 60 | 200 | **0,37** |
| AB2002040310208 | 10x20 mm | 80 | 200 | **0,37** |
| AB2002040310212 | 10x20 mm | 120 | 200 | **0,37** |
| AB2002040313204 | 13x25 mm | 40 | 200 | **0,46** |
| AB2002040313206 | 13x25 mm | 60 | 200 | **0,43** |
| AB2002040313208 | 13x25 mm | 80 | 200 | **0,43** |
| AB2002040313212 | 13x25 mm | 120 | 200 | **0,43** |
| AB2002040315304 | 15x30 mm | 40 | 200 | **0,52** |
| AB2002040315306 | 15x30 mm | 60 | 200 | **0,46** |
| AB2002040315308 | 15x30 mm | 80 | 200 | **0,46** |
| AB2002040315312 | 15x30 mm | 120 | 200 | **0,46** |
| AB2002040322204 | 22x20 mm | 40 | 200 | **0,46** |
| AB2002040322206 | 22x20 mm | 60 | 200 | **0,43** |
| AB2002040322208 | 22x20 mm | 80 | 200 | **0,43** |
| AB2002040322212 | 22x20 mm | 120 | 200 | **0,43** |
| AB2002040325204 | 25x25 mm | 40 | 200 | **0,64** |
| AB2002040325206 | 25x25 mm | 60 | 200 | **0,61** |
| AB2002040325208 | 25x25 mm | 80 | 200 | **0,58** |
| AB2002040325212 | 25x25 mm | 120 | 200 | **0,58** |
| AB2002040330304 | 30x30 mm | 40 | 200 | **0,67** |
| AB2002040330306 | 30x30 mm | 60 | 200 | **0,64** |
| AB2002040330308 | 30x30 mm | 80 | 200 | **0,64** |
| AB2002040330312 | 30x30 mm | 120 | 200 | **0,70** |
| AB2002040330336 | 30x30 mm | 36 | 200 | **0,70** |
| AB2002040345304 | 45x30 mm | 40 | 100 | **0,92** |
| AB2002040345306 | 45x30 mm | 60 | 100 | **0,83** |
| AB2002040345308 | 45x30 mm | 80 | 100 | **0,80** |

## Manicotto in tela abrasiva zirconio AB2002



### Caratteristiche

Manicotti cilindrici in tela abrasiva allo zirconio; particolarmente adatti per un'elevata asportazione; usati principalmente per parti in acciaio e inox; foderati di tela in cotone; velocità periferica di utilizzo consigliata 20-30 mt./sec.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB2002040345312 | 45x30 mm | 120 | 100 | **0,80** |
| AB2002040351204 | 51x25 mm | 40 | 100 | **0,86** |
| AB2002040351206 | 51x25 mm | 60 | 100 | **0,80** |
| AB2002040351208 | 51x25 mm | 80 | 100 | **0,77** |
| AB2002040351212 | 51x25 mm | 120 | 100 | **0,77** |
| AB2002040360304 | 60x30 mm | 40 | 100 | **1,07** |
| AB2002040360306 | 60x30 mm | 60 | 100 | **1,01** |
| AB2002040360308 | 60x30 mm | 80 | 100 | **0,98** |
| AB2002040360312 | 60x30 mm | 120 | 100 | **0,98** |
| AB2002040375304 | 75x30 mm | 40 | 0 | **1,38** |
| AB2002040375306 | 75x30 mm | 60 | 0 | **1,22** |
| AB2002040375308 | 75x30 mm | 80 | 0 | **1,16** |
| AB2002040375312 | 75x30 mm | 120 | 0 | **1,13** |
| AB2002040301304 | 100x40 mm | 40 | 0 | **2,14** |
| AB2002040301306 | 100x40 mm | 60 | 0 | **1,99** |
| AB2002040301308 | 100x40 mm | 80 | 0 | **1,90** |
| AB2002040301312 | 100x40 mm | 120 | 0 | **1,84** |

## Porta manicotti in gomma AB9000



### Caratteristiche

Porta manicotti con supporto in gomma; il cilindro in gomma è intervallato da cave che ne consentono l'espansione durante l'utilizzo, garantendo la giusta tensione al manicotto ed evitandone quindi lo slittamento; riutilizzabili grazie alla notevole durata.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB9000040301020 | 10x20 mm | 6 mm | 5 | **10,65** |
| AB9000040301325 | 13x25 mm | 6 mm | 5 | **10,89** |
| AB9000040301510 | 15x10 mm | 6 mm | 5 | **16,19** |
| AB9000040301530 | 15x30 mm | 6 mm | 5 | **9,82** |
| AB9000040302220 | 22x20 mm | 6 mm | 5 | **10,13** |
| AB9000040302525 | 25x25 mm | 6 mm | 5 | **13,68** |
| AB9000040303030 | 30x30 mm | 6 mm | 5 | **14,05** |
| AB9000040304530 | 45x30 mm | 6 mm | 5 | **16,83** |
| AB9000040305125 | 51x25 mm | 6 mm | 5 | **19,98** |
| AB9000040306030 | 60x30 mm | 6 mm | 5 | **22,43** |
| AB9000040307530 | 75x30 mm | 6 mm | 5 | **25,67** |
| AB9000040310040 | 100x40 mm | 6 mm | 5 | **33,14** |

## Manicotto conico tela corindone AB3004



### Caratteristiche

Manicotti conici in tela abrasiva al corindone, utilizzati principalmente per lavorazioni particolari, quali ad esempio: lavorazioni di punta o dove sia richiesta una particolare flessibilità.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB3004040302004 | 14/20x63 mm | 40 | 100 | **1,53** |
| AB3004040302006 | 14/20x63 mm | 60 | 100 | **1,47** |
| AB3004040302008 | 14/20x63 mm | 80 | 100 | **1,44** |
| AB3004040302012 | 14/20x63 mm | 120 | 100 | **1,41** |
| AB3004040302022 | 14/20x63 mm | 220 | 100 | **1,41** |
| AB3004040302904 | 22/29x30 mm | 40 | 100 | **1,25** |
| AB3004040302906 | 22/29x30 mm | 60 | 100 | **1,19** |
| AB3004040302908 | 22/29x30 mm | 80 | 100 | **1,19** |

## Manicotto conico tela corindone AB3004



| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB3004040302912 | 22/29x30 mm | 120 | 100 | **1,16** |
| AB3004040302922 | 22/29x30 mm | 220 | 100 | **1,16** |
| AB3004040303604 | 22/36x60 mm | 40 | 50 | **1,62** |
| AB3004040303606 | 22/36x60 mm | 60 | 50 | **1,53** |
| AB3004040303608 | 22/36x60 mm | 80 | 50 | **1,50** |
| AB3004040303612 | 22/36x60 mm | 120 | 50 | **1,47** |
| AB3004040303622 | 22/36x60 mm | 220 | 50 | **1,47** |

## Manicotto conico tela zirconio AB3003



### Caratteristiche

Manicotti conici in tela abrasiva allo zirconio, utilizzati principalmente per lavorazioni particolari, quali ad esempio: lavorazioni di punta o dove sia richiesta una particolare flessibilità. Ideali per lavorazioni di parti in acciaio e inox.

| Codice | Dimensioni ØxH | Grana | | € / cad. |
|---|---|---|---|---|
| AB3003040302004 | 14/20x63 mm | 40 | 100 | **1,71** |
| AB3003040302006 | 14/20x63 mm | 60 | 100 | **1,68** |
| AB3003040302008 | 14/20x63 mm | 80 | 100 | **1,65** |
| AB3003040302012 | 14/20x63 mm | 120 | 100 | **1,50** |
| AB3003040302904 | 22/29x30 mm | 40 | 100 | **1,41** |
| AB3003040302906 | 22/29x30 mm | 60 | 100 | **1,41** |
| AB3003040302908 | 22/29x30 mm | 80 | 100 | **1,38** |
| AB3003040302912 | 22/29x30 mm | 120 | 100 | **1,38** |
| AB3003040303604 | 22/36x60 mm | 40 | 50 | **1,77** |
| AB3003040303606 | 22/36x60 mm | 60 | 50 | **1,74** |
| AB3003040303608 | 22/36x60 mm | 80 | 50 | **1,71** |
| AB3003040303612 | 22/36x60 mm | 120 | 50 | **1,71** |

## Porta manicotti conici in gomma AB9001



### Caratteristiche

Porta manicotti conici con supporto in gomma, ad espansione centrifuga. Indispensabili per l'utilizzo di coni abrasivi con macchine portatili e ad albero flessibile in operazioni di sbavatura, smerigliatura e per particolari in metallo, legno e plastica.

| Codice | Dimensioni ØxH | Gambo | | € / cad. |
|---|---|---|---|---|
| AB9001040302066 | 14/20x63 mm | 6 mm | 5 | **15,85** |
| AB9001040302936 | 22/29x30 mm | 6 mm | 5 | **15,64** |
| AB9001040303666 | 22/36x60 mm | 6 mm | 5 | **21,21** |

## Rullino cilindrico in tela corindone AB3005



### Caratteristiche

Rullini cilindrici in tela abrasiva al corindone per operazioni di smerigliatura in punti di difficile accesso. La tela avvolta su se stessa garantisce una durata maggiore dell'utensile rispetto ai tradizionali anelli rinforzati.

| Codice | Dimensioni ØxHxF | Grana | | € / cad. |
|---|---|---|---|---|
| AB3005040306386 | 6x38x3 mm | 60 | 100 | **1,07** |
| AB3005040306388 | 6x38x3 mm | 80 | 100 | **1,07** |
| AB3005040306382 | 6x38x3 mm | 120 | 100 | **1,10** |
| AB3005040306318 | 6x38x3 mm | 180 | 100 | **1,16** |
| AB3005040308386 | 8x38x3 mm | 60 | 100 | **1,07** |
| AB3005040308388 | 8x38x3 mm | 80 | 100 | **1,07** |
| AB3005040308382 | 8x38x3 mm | 120 | 100 | **1,16** |
| AB3005040300386 | 10x38x3 mm | 60 | 100 | **1,10** |
| AB3005040300388 | 10x38x3 mm | 80 | 100 | **1,10** |
| AB3005040300382 | 10x38x3 mm | 120 | 100 | **1,16** |
| AB3005040300318 | 10x38x3 mm | 180 | 100 | **1,19** |
| AB3005040303386 | 13x38x3 mm | 60 | 100 | **1,38** |
| AB3005040303388 | 13x38x3 mm | 80 | 100 | **1,38** |
| AB3005040303382 | 13x38x3 mm | 120 | 100 | **1,41** |
| AB3005040303318 | 13x38x3 mm | 180 | 100 | **1,47** |
| AB3005040309386 | 19x38x5 mm | 60 | 100 | **2,23** |
| AB3005040309388 | 19x38x5 mm | 80 | 100 | **2,33** |
| AB3005040309382 | 19x38x5 mm | 120 | 100 | **2,33** |

## Perno per rullini cilindrici AB3006



### Caratteristiche

Perni porta rullini cilindrici, con foro.

| Codice | Dimensioni ØxL | Gambo | | € / cad. |
|---|---|---|---|---|
| AB3006040303706 | 3x70 mm | 6 mm | 5 | **12,64** |
| AB3006040305766 | 5x76 mm | 6 mm | 5 | **14,35** |

## Ruota lamellare corindone con gambo AB1030




### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1030050310160 | 10x10 mm | 60 | 3 mm | 35.000 / 40.000 | 25 | **5,16** |
| AB1030050310180 | 10x10 mm | 80 | 3 mm | 35.000 / 40.000 | 25 | **5,16** |
| AB1030050310112 | 10x10 mm | 120 | 3 mm | 35.000 / 40.000 | 25 | **5,16** |
| AB1030050315160 | 15x15 mm | 60 | 3 mm | 35.000 / 40.000 | 25 | **5,08** |
| AB1030050315180 | 15x15 mm | 80 | 3 mm | 35.000 / 40.000 | 25 | **5,08** |
| AB1030050315112 | 15x15 mm | 120 | 3 mm | 35.000 / 40.000 | 25 | **5,08** |
| AB1030050322340 | 20x3 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322360 | 20x3 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322380 | 20x3 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322312 | 20x3 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322318 | 20x3 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050322324 | 20x3 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **5,56** |

## Ruota lamellare corindone con gambo AB1030



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1030050322540 | 20x5 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322560 | 20x5 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322580 | 20x5 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322512 | 20x5 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050322518 | 20x5 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050322524 | 20x5 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **5,56** |
| AB1030050322140 | 20x10 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **4,56** |
| AB1030050322160 | 20x10 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **4,56** |
| AB1030050322180 | 20x10 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **4,62** |
| AB1030050322112 | 20x10 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **4,68** |
| AB1030050322118 | 20x10 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **4,74** |
| AB1030050322124 | 20x10 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **4,81** |
| AB1030050322240 | 20x15 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **4,62** |
| AB1030050322260 | 20x15 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **4,62** |
| AB1030050322280 | 20x15 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **4,62** |
| AB1030050322212 | 20x15 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **4,68** |
| AB1030050322218 | 20x15 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **4,68** |
| AB1030050322224 | 20x15 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **4,74** |
| AB1030050325340 | 25x3 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050325360 | 25x3 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050325380 | 25x3 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050325312 | 25x3 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050325318 | 25x3 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **5,56** |
| AB1030050325324 | 25x3 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **5,62** |
| AB1030050325540 | 25x5 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1030050325560 | 25x5 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050325580 | 25x5 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |

## Ruota lamellare corindone con gambo AB1030



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1030050325512 | 25x5 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1030050325518 | 25x5 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **5,56** |
| AB1030050325524 | 25x5 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **5,62** |
| AB1030050325140 | 25x10 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1030050325160 | 25x10 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1030050325180 | 25x10 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1030050325112 | 25x10 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1030050325118 | 25x10 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **3,15** |
| AB1030050325124 | 25x10 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **3,06** |
| AB1030050325240 | 25x15 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **2,97** |
| AB1030050325260 | 25x15 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **3,02** |
| AB1030050325280 | 25x15 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **3,02** |
| AB1030050325212 | 25x15 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **2,99** |
| AB1030050325218 | 25x15 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **3,04** |
| AB1030050325224 | 25x15 mm | 240 | 3 mm | 20.000 / 25.500 | 10 | **3,10** |
| AB1030050330340 | 30x3 mm | 40 | 3 mm | 20.000 / 25.500 | 10 | **4,68** |
| AB1030050330360 | 30x3 mm | 60 | 3 mm | 20.000 / 25.500 | 10 | **4,68** |
| AB1030050330380 | 30x3 mm | 80 | 3 mm | 20.000 / 25.500 | 10 | **4,74** |
| AB1030050330312 | 30x3 mm | 120 | 3 mm | 20.000 / 25.500 | 10 | **4,74** |
| AB1030050330318 | 30x3 mm | 180 | 3 mm | 20.000 / 25.500 | 10 | **4,81** |
| AB1030050330324 | 30x3 mm | 240 | 3 mm | 16.500 / 25.500 | 10 | **4,87** |
| AB1030050330540 | 30x5 mm | 40 | 3 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1030050330560 | 30x5 mm | 60 | 3 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1030050330580 | 30x5 mm | 80 | 3 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1030050330512 | 30x5 mm | 120 | 3 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1030050330518 | 30x5 mm | 180 | 3 mm | 16.500 / 25.500 | 10 | **4,81** |
| AB1030050330524 | 30x5 mm | 240 | 3 mm | 16.500 / 25.500 | 10 | **4,87** |

## Ruota lamellare corindone con gambo AB1030



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1030050330140 | 30x10 mm | 40 | 3 mm | 16.500 / 25.500 | 10 | **2,81** |
| AB1030050330160 | 30x10 mm | 60 | 3 mm | 16.500 / 25.500 | 10 | **2,81** |
| AB1030050330180 | 30x10 mm | 80 | 3 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1030050330112 | 30x10 mm | 120 | 3 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1030050330118 | 30x10 mm | 180 | 3 mm | 16.500 / 25.500 | 10 | **2,90** |
| AB1030050330124 | 30x10 mm | 240 | 3 mm | 16.500 / 25.500 | 10 | **2,94** |

## Ruota lamellare corindone con gambo AB1060



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050322340 | 20x3 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322360 | 20x3 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322380 | 20x3 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322312 | 20x3 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322318 | 20x3 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050322324 | 20x3 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **5,49** |

## Ruota lamellare corindone con gambo AB1060

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050322540 | 20x5 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **5,31** |
| AB1060050322560 | 20x5 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **5,51** |
| AB1060050322580 | 20x5 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322512 | 20x5 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050322518 | 20x5 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050322524 | 20x5 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1060050322240 | 20x15 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,35** |
| AB1060050322260 | 20x15 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,35** |
| AB1060050322280 | 20x15 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,35** |
| AB1060050322212 | 20x15 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322218 | 20x15 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322224 | 20x15 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,44** |
| AB1060050322740 | 20x20 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322760 | 20x20 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322780 | 20x20 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322718 | 20x20 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **3,39** |
| AB1060050322724 | 20x20 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,44** |
| AB1060050325340 | 25x3 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050325360 | 25x3 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325380 | 25x3 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325312 | 25x3 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325318 | 25x3 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1060050325324 | 25x3 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **5,56** |
| AB1060050325540 | 25x5 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **5,37** |
| AB1060050325560 | 25x5 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325580 | 25x5 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325512 | 25x5 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **5,43** |
| AB1060050325518 | 25x5 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **5,49** |
| AB1060050325524 | 25x5 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **5,56** |
| AB1060050325140 | 25x10 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,05** |
| AB1060050325160 | 25x10 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,05** |
| AB1060050325180 | 25x10 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,05** |
| AB1060050325112 | 25x10 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **3,21** |
| AB1060050325118 | 25x10 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **3,26** |
| AB1060050325124 | 25x10 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,17** |
| AB1060050325240 | 25x15 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,08** |
| AB1060050325260 | 25x15 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,12** |

## Ruota lamellare corindone con gambo AB1060



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050325280 | 25x15 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,12** |
| AB1060050325212 | 25x15 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1060050325218 | 25x15 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **2,94** |
| AB1060050325224 | 25x15 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,03** |
| AB1060050325740 | 25x20 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,17** |
| AB1060050325760 | 25x20 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,21** |
| AB1060050325780 | 25x20 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,26** |
| AB1060050325712 | 25x20 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **3,26** |
| AB1060050325718 | 25x20 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **3,30** |
| AB1060050325724 | 25x20 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,35** |
| AB1060050325940 | 25x25 mm | 40 | 6 mm | 20.000 / 25.500 | 10 | **3,21** |
| AB1060050325960 | 25x25 mm | 60 | 6 mm | 20.000 / 25.500 | 10 | **3,26** |
| AB1060050325980 | 25x25 mm | 80 | 6 mm | 20.000 / 25.500 | 10 | **3,26** |
| AB1060050325912 | 25x25 mm | 120 | 6 mm | 20.000 / 25.500 | 10 | **3,35** |
| AB1060050325918 | 25x25 mm | 180 | 6 mm | 20.000 / 25.500 | 10 | **3,44** |
| AB1060050325924 | 25x25 mm | 240 | 6 mm | 20.000 / 25.500 | 10 | **3,48** |
| AB1060050330340 | 30x3 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1060050330360 | 30x3 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1060050330380 | 30x3 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1060050330312 | 30x3 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1060050330318 | 30x3 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **4,81** |
| AB1060050330324 | 30x3 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **4,87** |
| AB1060050330540 | 30x5 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1060050330560 | 30x5 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **4,68** |
| AB1060050330580 | 30x5 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1060050330512 | 30x5 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **4,74** |
| AB1060050330518 | 30x5 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **4,81** |

## Ruota lamellare corindone con gambo AB1060

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050330524 | 30x5 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **4,87** |
| AB1060050330140 | 30x10 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **2,81** |
| AB1060050330160 | 30x10 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **2,81** |
| AB1060050330180 | 30x10 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1060050330112 | 30x10 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1060050330118 | 30x10 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **2,90** |
| AB1060050330124 | 30x10 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **2,94** |
| AB1060050330240 | 30x15 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1060050330260 | 30x15 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **2,85** |
| AB1060050330280 | 30x15 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **2,90** |
| AB1060050330212 | 30x15 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **2,90** |
| AB1060050330218 | 30x15 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **2,94** |
| AB1060050330224 | 30x15 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **2,99** |
| AB1060050330740 | 30x20 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **2,94** |
| AB1060050330760 | 30x20 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **2,99** |
| AB1060050330780 | 30x20 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **3,03** |
| AB1060050330712 | 30x20 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **3,03** |
| AB1060050330718 | 30x20 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **3,08** |
| AB1060050330724 | 30x20 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **3,12** |
| AB1060050330040 | 30x30 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **3,12** |
| AB1060050330060 | 30x30 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **3,21** |
| AB1060050330080 | 30x30 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **3,26** |
| AB1060050330012 | 30x30 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **3,30** |
| AB1060050330018 | 30x30 mm | 180 | 6 mm | 16.500 / 25.500 | 10 | **3,39** |
| AB1060050330024 | 30x30 mm | 240 | 6 mm | 16.500 / 25.500 | 10 | **3,48** |
| AB1060050340340 | 40x3 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **5,97** |
| AB1060050340360 | 40x3 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **6,04** |
| AB1060050340380 | 40x3 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **6,04** |
| AB1060050340312 | 40x3 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **6,11** |
| AB1060050340318 | 40x3 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **6,18** |
| AB1060050340324 | 40x3 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **6,25** |
| AB1060050340540 | 40x5 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **5,97** |
| AB1060050340560 | 40x5 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **6,04** |
| AB1060050340580 | 40x5 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **6,04** |
| AB1060050340512 | 40x5 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **6,11** |
| AB1060050340518 | 40x5 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **6,18** |
| AB1060050340524 | 40x5 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **6,25** |
| AB1060050340140 | 40x10 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **3,05** |

## Ruota lamellare corindone con gambo AB1060



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050340160 | 40x10 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **3,05** |
| AB1060050340180 | 40x10 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **3,12** |
| AB1060050340112 | 40x10 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **3,16** |
| AB1060050340118 | 40x10 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **3,25** |
| AB1060050340124 | 40x10 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **3,38** |
| AB1060050340240 | 40x15 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **3,11** |
| AB1060050340260 | 40x15 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **3,11** |
| AB1060050340280 | 40x15 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **3,17** |
| AB1060050340212 | 40x15 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **3,67** |
| AB1060050340218 | 40x15 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **3,76** |
| AB1060050340224 | 40x15 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **3,89** |
| AB1060050340740 | 40x20 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **3,29** |
| AB1060050340760 | 40x20 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **3,29** |
| AB1060050340780 | 40x20 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **3,39** |
| AB1060050340712 | 40x20 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **3,43** |
| AB1060050340718 | 40x20 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **3,51** |
| AB1060050340724 | 40x20 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **3,62** |
| AB1060050340940 | 40x25 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **3,48** |
| AB1060050340960 | 40x25 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **3,53** |
| AB1060050340980 | 40x25 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **3,58** |
| AB1060050340912 | 40x25 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **5,18** |
| AB1060050340918 | 40x25 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **5,37** |
| AB1060050340924 | 40x25 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **5,62** |
| AB1060050340040 | 40x30 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **4,99** |
| AB1060050340060 | 40x30 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **5,12** |
| AB1060050340080 | 40x30 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **5,18** |
| AB1060050340012 | 40x30 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **5,43** |

## Ruota lamellare corindone con gambo AB1060

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050340018 | 40x30 mm | 180 | 6 mm | 12.500 / 19.100 | 10 | **5,62** |
| AB1060050340024 | 40x30 mm | 240 | 6 mm | 12.500 / 19.100 | 10 | **5,74** |
| AB1060050350140 | 50x10 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **3,30** |
| AB1060050350160 | 50x10 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **3,35** |
| AB1060050350180 | 50x10 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **3,39** |
| AB1060050350112 | 50x10 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **3,44** |
| AB1060050350118 | 50x10 mm | 180 | 6 mm | 10.000 / 15.300 | 10 | **3,48** |
| AB1060050350124 | 50x10 mm | 240 | 6 mm | 10.000 / 15.300 | 10 | **3,58** |
| AB1060050350240 | 50x15 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **3,44** |
| AB1060050350260 | 50x15 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **3,53** |
| AB1060050350280 | 50x15 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **3,58** |
| AB1060050350212 | 50x15 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **4,43** |
| AB1060050350218 | 50x15 mm | 180 | 6 mm | 10.000 / 15.300 | 10 | **4,59** |
| AB1060050350224 | 50x15 mm | 240 | 6 mm | 10.000 / 15.300 | 10 | **4,76** |
| AB1060050350740 | 50x20 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **3,58** |
| AB1060050350760 | 50x20 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **3,71** |
| AB1060050350780 | 50x20 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **3,76** |
| AB1060050350712 | 50x20 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **3,94** |
| AB1060050350718 | 50x20 mm | 180 | 6 mm | 10.000 / 15.300 | 10 | **3,98** |
| AB1060050350724 | 50x20 mm | 240 | 6 mm | 10.000 / 15.300 | 10 | **4,07** |
| AB1060050350040 | 50x30 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **4,03** |
| AB1060050350060 | 50x30 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **4,21** |
| AB1060050350080 | 50x30 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **4,30** |
| AB1060050350012 | 50x30 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **4,57** |
| AB1060050350018 | 50x30 mm | 180 | 6 mm | 10.000 / 15.300 | 10 | **4,62** |
| AB1060050350024 | 50x30 mm | 240 | 6 mm | 10.000 / 15.300 | 10 | **4,84** |
| AB1060050360240 | 60x15 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **3,80** |
| AB1060050360260 | 60x15 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **3,94** |
| AB1060050360280 | 60x15 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **3,98** |
| AB1060050360212 | 60x15 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **4,16** |
| AB1060050360218 | 60x15 mm | 180 | 6 mm | 8.300 / 12.700 | 10 | **4,30** |
| AB1060050360224 | 60x15 mm | 240 | 6 mm | 8.300 / 12.700 | 10 | **4,39** |
| AB1060050360740 | 60x20 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **5,52** |
| AB1060050360760 | 60x20 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **5,70** |
| AB1060050360780 | 60x20 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **5,88** |
| AB1060050360712 | 60x20 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **6,29** |
| AB1060050360718 | 60x20 mm | 180 | 6 mm | 8.300 / 12.700 | 10 | **6,65** |
| AB1060050360724 | 60x20 mm | 240 | 6 mm | 8.300 / 12.700 | 10 | **7,11** |

## Ruota lamellare corindone con gambo AB1060



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050360040 | 60x30 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **4,71** |
| AB1060050360060 | 60x30 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **4,98** |
| AB1060050360080 | 60x30 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **5,07** |
| AB1060050360012 | 60x30 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **5,48** |
| AB1060050360018 | 60x30 mm | 180 | 6 mm | 8.300 / 12.700 | 10 | **5,70** |
| AB1060050360024 | 60x30 mm | 240 | 6 mm | 8.300 / 12.700 | 10 | **5,93** |
| AB1060050360440 | 60x40 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **5,48** |
| AB1060050360460 | 60x40 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **5,84** |
| AB1060050360480 | 60x40 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **5,93** |
| AB1060050360412 | 60x40 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **6,52** |
| AB1060050360418 | 60x40 mm | 180 | 6 mm | 8.300 / 12.700 | 10 | **6,88** |
| AB1060050360424 | 60x40 mm | 240 | 6 mm | 8.300 / 12.700 | 10 | **7,15** |
| AB1060050360640 | 60x50 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **6,29** |
| AB1060050360660 | 60x50 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **6,74** |
| AB1060050360680 | 60x50 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **6,88** |
| AB1060050360612 | 60x50 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **7,28** |
| AB1060050360618 | 60x50 mm | 180 | 6 mm | 8.300 / 12.700 | 10 | **7,97** |
| AB1060050360624 | 60x50 mm | 240 | 6 mm | 8.300 / 12.700 | 10 | **8,51** |
| AB1060050380740 | 80x20 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **5,74** |
| AB1060050380760 | 80x20 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **5,99** |
| AB1060050380780 | 80x20 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **5,70** |
| AB1060050380712 | 80x20 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **6,43** |
| AB1060050380718 | 80x20 mm | 180 | 6 mm | 6.200 / 9.600 | 10 | **6,68** |
| AB1060050380724 | 80x20 mm | 240 | 6 mm | 6.200 / 9.600 | 10 | **6,93** |
| AB1060050380040 | 80x30 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **6,74** |
| AB1060050380060 | 80x30 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **6,92** |
| AB1060050380080 | 80x30 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **7,24** |

## Ruota lamellare corindone con gambo AB1060

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1060050380012 | 80x30 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **7,78** |
| AB1060050380018 | 80x30 mm | 180 | 6 mm | 6.200 / 9.600 | 10 | **8,42** |
| AB1060050380024 | 80x30 mm | 240 | 6 mm | 6.200 / 9.600 | 10 | **9,14** |
| AB1060050380440 | 80x40 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **8,01** |
| AB1060050380460 | 80x40 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **8,42** |
| AB1060050380480 | 80x40 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **8,62** |
| AB1060050380412 | 80x40 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **9,41** |
| AB1060050380418 | 80x40 mm | 180 | 6 mm | 6.200 / 9.600 | 10 | **10,23** |
| AB1060050380424 | 80x40 mm | 240 | 6 mm | 6.200 / 9.600 | 10 | **11,45** |
| AB1060050380640 | 80x50 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **9,14** |
| AB1060050380660 | 80x50 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **9,64** |
| AB1060050380680 | 80x50 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **10,05** |
| AB1060050380612 | 80x50 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **10,72** |
| AB1060050380618 | 80x50 mm | 180 | 6 mm | 6.200 / 9.600 | 10 | **6,20** |
| AB1060050380624 | 80x50 mm | 240 | 6 mm | 6.200 / 9.600 | 10 | **7,11** |
| AB1060050310040 | 100x30 mm | 40 | 6 mm | 4.950 / 7.650 | 10 | **16,23** |
| AB1060050310060 | 100x30 mm | 60 | 6 mm | 4.950 / 7.650 | 10 | **17,23** |
| AB1060050310080 | 100x30 mm | 80 | 6 mm | 4.950 / 7.650 | 10 | **17,73** |
| AB1060050310012 | 100x30 mm | 120 | 6 mm | 4.950 / 7.650 | 10 | **18,98** |
| AB1060050310018 | 100x30 mm | 180 | 6 mm | 4.950 / 7.650 | 10 | **19,88** |
| AB1060050310024 | 100x30 mm | 240 | 6 mm | 4.950 / 7.650 | 10 | **21,22** |
| AB1060050310640 | 100x50 mm | 40 | 6 mm | 4.950 / 7.650 | 10 | **21,97** |
| AB1060050310660 | 100x50 mm | 60 | 6 mm | 4.950 / 7.650 | 10 | **22,97** |
| AB1060050310680 | 100x50 mm | 80 | 6 mm | 4.950 / 7.650 | 10 | **24,22** |
| AB1060050310612 | 100x50 mm | 120 | 6 mm | 4.950 / 7.650 | 10 | **23,81** |
| AB1060050310618 | 100x50 mm | 180 | 6 mm | 4.950 / 7.650 | 10 | **24,21** |
| AB1060050310624 | 100x50 mm | 240 | 6 mm | 4.950 / 7.650 | 10 | **24,91** |

## Ruota lamellare zirconio con gambo AB2060



### Caratteristiche

Ruote lamellari con gambo costituite da petali di tela abrasiva montati su un albero di acciaio tramite un nucleo di resina. Utilizzate per operazioni di smerigliatura e finitura interna ed esterna di pezzi meccanici e sagomati, in acciaio al carbonio, acciaio inossidabile e metalli non ferrosi; ideali nella pulizia di stampi, nella finitura di stampi per la costruzione di utensili e in tutte le lavorazioni dove vi sono punti particolarmente difficili da raggiungere; adatte a tutti i tipi di metalli, le ruote con gambo possono essere impiegate anche su vetroresina, titanio, pietra e marmo. Disponibili in tela abrasiva al corindone (utilizzo universale) con supporto semi flessibile ed in tela abrasiva allo zirconio (particolarmente indicato su acciaio inox) con supporto rigido. Velocità periferica consigliata 15-20 mt./sec.

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB2060050330240 | 30x15 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **3,45** |
| AB2060050330260 | 30x15 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **3,45** |
| AB2060050330280 | 30x15 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **3,50** |
| AB2060050330212 | 30x15 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **3,50** |
| AB2060050330740 | 30x20 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **3,55** |
| AB2060050330760 | 30x20 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **3,60** |
| AB2060050330780 | 30x20 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **3,65** |
| AB2060050330712 | 30x20 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **3,70** |
| AB2060050330040 | 30x30 mm | 40 | 6 mm | 16.500 / 25.500 | 10 | **3,80** |
| AB2060050330060 | 30x30 mm | 60 | 6 mm | 16.500 / 25.500 | 10 | **3,95** |
| AB2060050330080 | 30x30 mm | 80 | 6 mm | 16.500 / 25.500 | 10 | **4,00** |
| AB2060050330012 | 30x30 mm | 120 | 6 mm | 16.500 / 25.500 | 10 | **4,00** |
| AB2060050340240 | 40x15 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **3,65** |
| AB2060050340260 | 40x15 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **3,75** |
| AB2060050340280 | 40x15 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **3,80** |
| AB2060050340212 | 40x15 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **3,90** |
| AB2060050340740 | 40x20 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **4,15** |
| AB2060050340760 | 40x20 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **4,19** |
| AB2060050340780 | 40x20 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **4,24** |
| AB2060050340712 | 40x20 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **4,39** |
| AB2060050340040 | 40x30 mm | 40 | 6 mm | 12.500 / 19.100 | 10 | **4,39** |
| AB2060050340060 | 40x30 mm | 60 | 6 mm | 12.500 / 19.100 | 10 | **4,49** |
| AB2060050340080 | 40x30 mm | 80 | 6 mm | 12.500 / 19.100 | 10 | **4,54** |
| AB2060050340012 | 40x30 mm | 120 | 6 mm | 12.500 / 19.100 | 10 | **4,79** |
| AB2060050350140 | 50x10 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **4,99** |
| AB2060050350160 | 50x10 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **5,06** |
| AB2060050350180 | 50x10 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **5,12** |

## Ruota lamellare zirconio con gambo AB2060

| Codice | Dimensioni ØxH | Grana | Gambo | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB2060050350112 | 50x10 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **5,43** |
| AB2060050350740 | 50x20 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **5,43** |
| AB2060050350760 | 50x20 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **4,49** |
| AB2060050350780 | 50x20 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **4,54** |
| AB2060050350712 | 50x20 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **5,19** |
| AB2060050350040 | 50x30 mm | 40 | 6 mm | 10.000 / 15.300 | 10 | **4,89** |
| AB2060050350060 | 50x30 mm | 60 | 6 mm | 10.000 / 15.300 | 10 | **5,09** |
| AB2060050350080 | 50x30 mm | 80 | 6 mm | 10.000 / 15.300 | 10 | **5,19** |
| AB2060050350012 | 50x30 mm | 120 | 6 mm | 10.000 / 15.300 | 10 | **5,54** |
| AB2060050360740 | 60x20 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **5,67** |
| AB2060050360760 | 60x20 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **5,90** |
| AB2060050360780 | 60x20 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **6,01** |
| AB2060050360712 | 60x20 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **5,64** |
| AB2060050360040 | 60x30 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **5,69** |
| AB2060050360060 | 60x30 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **6,04** |
| AB2060050360080 | 60x30 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **6,14** |
| AB2060050360012 | 60x30 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **6,64** |
| AB2060050360440 | 60x40 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **6,64** |
| AB2060050360460 | 60x40 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **7,09** |
| AB2060050360480 | 60x40 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **7,19** |
| AB2060050360412 | 60x40 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **7,84** |
| AB2060050360640 | 60x50 mm | 40 | 6 mm | 8.300 / 12.700 | 10 | **7,59** |
| AB2060050360660 | 60x50 mm | 60 | 6 mm | 8.300 / 12.700 | 10 | **8,14** |
| AB2060050360680 | 60x50 mm | 80 | 6 mm | 8.300 / 12.700 | 10 | **8,29** |
| AB2060050360612 | 60x50 mm | 120 | 6 mm | 8.300 / 12.700 | 10 | **9,09** |
| AB2060050380740 | 80x20 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **8,36** |
| AB2060050380760 | 80x20 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **8,61** |
| AB2060050380780 | 80x20 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **8,93** |
| AB2060050380712 | 80x20 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **7,64** |
| AB2060050380040 | 80x30 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **8,14** |
| AB2060050380060 | 80x30 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **8,44** |
| AB2060050380080 | 80x30 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **8,74** |
| AB2060050380012 | 80x30 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **11,74** |
| AB2060050380640 | 80x50 mm | 40 | 6 mm | 6.200 / 9.600 | 10 | **11,09** |
| AB2060050380660 | 80x50 mm | 60 | 6 mm | 6.200 / 9.600 | 10 | **11,69** |
| AB2060050380680 | 80x50 mm | 80 | 6 mm | 6.200 / 9.600 | 10 | **12,19** |
| AB2060050380612 | 80x50 mm | 120 | 6 mm | 6.200 / 9.600 | 10 | **8,54** |

## Rotolo tela corindone AB1050



### Caratteristiche

Rotoli antispreco in tela al corindone resinata con supporto in cotone leggero e flessibile; ideali per la smerigliatura a mano di tutti i metalli, soprattutto dove ci sono punti difficili da raggiungere. Impiegati inoltre per la smerigliatura e finitura di particolari concavi e convessi, grazie alla loro elevata flessibilità. La robustezza del supporto e il buon ancoraggio dell'abrasivo ne permettono l'utilizzo su tutte le superfici.

| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB1050060325040 | 25x50000 mm | 40 | 1 | **48,04** |
| AB1050060325050 | 25x50000 mm | 50 | 1 | **40,39** |
| AB1050060325060 | 25x50000 mm | 60 | 1 | **40,39** |
| AB1050060325080 | 25x50000 mm | 80 | 1 | **40,09** |
| AB1050060325100 | 25x50000 mm | 100 | 1 | **40,27** |
| AB1050060325120 | 25x50000 mm | 120 | 1 | **40,27** |
| AB1050060325150 | 25x50000 mm | 150 | 1 | **40,27** |
| AB1050060325180 | 25x50000 mm | 180 | 1 | **40,27** |
| AB1050060325220 | 25x50000 mm | 220 | 1 | **40,27** |
| AB1050060325240 | 25x50000 mm | 240 | 1 | **40,27** |
| AB1050060325280 | 25x50000 mm | 280 | 1 | **40,27** |
| AB1050060325320 | 25x50000 mm | 320 | 1 | **40,27** |
| AB1050060325400 | 25x50000 mm | 400 | 1 | **40,27** |
| AB1050060325500 | 25x50000 mm | 500 | 1 | **40,27** |
| AB1050060350040 | 50x50000 mm | 40 | 1 | **82,93** |
| AB1050060350050 | 50x50000 mm | 50 | 1 | **82,31** |
| AB1050060350060 | 50x50000 mm | 60 | 1 | **75,43** |
| AB1050060350080 | 50x50000 mm | 80 | 1 | **73,44** |
| AB1050060350100 | 50x50000 mm | 100 | 1 | **68,54** |
| AB1050060350120 | 50x50000 mm | 120 | 1 | **68,54** |
| AB1050060350150 | 50x50000 mm | 150 | 1 | **68,54** |
| AB1050060350180 | 50x50000 mm | 180 | 1 | **68,54** |
| AB1050060350220 | 50x50000 mm | 220 | 1 | **68,54** |
| AB1050060350240 | 50x50000 mm | 240 | 1 | **68,54** |
| AB1050060350280 | 50x50000 mm | 280 | 1 | **68,54** |
| AB1050060350320 | 50x50000 mm | 320 | 1 | **68,54** |
| AB1050060350400 | 50x50000 mm | 400 | 1 | **68,54** |
| AB1050060350500 | 50x50000 mm | 500 | 1 | **68,54** |
| AB1050060311040 | 115x50000 mm | 40 | 1 | **159,12** |
| AB1050060311050 | 115x50000 mm | 50 | 1 | **159,12** |
| AB1050060311060 | 115x50000 mm | 60 | 1 | **145,35** |

## Rotolo tela corindone AB1050



| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB1050060311080 | 115x50000 mm | 80 | 1 | **136,48** |
| AB1050060311100 | 115x50000 mm | 100 | 1 | **130,36** |
| AB1050060311120 | 115x50000 mm | 120 | 1 | **130,36** |
| AB1050060311150 | 115x50000 mm | 150 | 1 | **130,36** |
| AB1050060311180 | 115x50000 mm | 180 | 1 | **130,36** |
| AB1050060311220 | 115x50000 mm | 220 | 1 | **130,36** |
| AB1050060311240 | 115x50000 mm | 240 | 1 | **130,36** |
| AB1050060311280 | 115x50000 mm | 280 | 1 | **130,36** |
| AB1050060311320 | 115x50000 mm | 320 | 1 | **130,36** |
| AB1050060311400 | 115x50000 mm | 400 | 1 | **130,36** |
| AB1050060311500 | 115x50000 mm | 500 | 1 | **130,36** |

## Foglio tela corindone AB1040



### Caratteristiche

Fogli in tela abrasiva con supporto in cotone leggero flessibile, legante resina su resina e abrasivo al corindone; caratterizzati da una notevole versatilità e da un'ottima durata, vengono impiegati principalmente per operazioni di smerigliatura a mano di metalli, finitura di profili e bave di tranciatura, finitura di parti meccaniche, cilindri e colli d'oca.

| Codice | Dimensioni LxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB1040060323040 | 230x280 mm | 40 | 50 | **2,60** |
| AB1040060323050 | 230x280 mm | 50 | 50 | **2,39** |
| AB1040060323060 | 230x280 mm | 60 | 50 | **2,14** |
| AB1040060323080 | 230x280 mm | 80 | 50 | **1,99** |
| AB1040060323100 | 230x280 mm | 100 | 50 | **1,90** |
| AB1040060323120 | 230x280 mm | 120 | 50 | **1,90** |
| AB1040060323150 | 230x280 mm | 150 | 50 | **1,90** |
| AB1040060323180 | 230x280 mm | 180 | 50 | **1,90** |
| AB1040060323220 | 230x280 mm | 220 | 50 | **1,90** |
| AB1040060323240 | 230x280 mm | 240 | 50 | **1,90** |
| AB1040060323280 | 230x280 mm | 280 | 50 | **1,90** |
| AB1040060323320 | 230x280 mm | 320 | 50 | **1,90** |
| AB1040060323400 | 230x280 mm | 400 | 50 | **1,90** |
| AB1040060323500 | 230x280 mm | 500 | 50 | **1,90** |

## Foglio carta corindone AB1044



### Caratteristiche

Fogli in carta abrasiva al corindone. Il corindone viene utilizzato principalmente per le lavorazioni manuali su legno, vernici, materie plastiche e metalli non ferrosi.

| Codice | Dimensioni LxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB1044070323060 | 230x280 mm | 60 | 50 | **1,38** |
| AB1044070323080 | 230x280 mm | 80 | 50 | **1,04** |
| AB1044070323100 | 230x280 mm | 100 | 50 | **1,10** |
| AB1044070323120 | 230x280 mm | 120 | 50 | **1,10** |
| AB1044070323150 | 230x280 mm | 150 | 50 | **1,10** |
| AB1044070323180 | 230x280 mm | 180 | 50 | **1,10** |
| AB1044070323220 | 230x280 mm | 220 | 50 | **1,10** |
| AB1044070323240 | 230x280 mm | 240 | 50 | **1,10** |
| AB1044070323320 | 230x280 mm | 320 | 50 | **1,10** |
| AB1044070323400 | 230x280 mm | 400 | 50 | **1,10** |
| AB1044070323500 | 230x280 mm | 500 | 50 | **1,10** |
| AB1044070323600 | 230x280 mm | 600 | 50 | **1,10** |
| AB1044070323800 | 230x280 mm | 800 | 50 | **1,10** |

## Foglio carta carburo silicio AB3044



### Caratteristiche

Fogli in carta abrasiva al carburo di silicio. I fogli di carta abrasiva al carburo di silicio sono impermeabili e vengono utilizzati per lavorazioni manuali, in particolare su vetro e vernice; impiegati anche in carrozzeria per operazioni di levigatura ad umido.

| Codice | Dimensioni LxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB3044070323060 | 230x280 mm | 60 | 100 | **1,53** |
| AB3044070323080 | 230x280 mm | 80 | 100 | **1,62** |
| AB3044070323100 | 230x280 mm | 100 | 100 | **1,44** |
| AB3044070323120 | 230x280 mm | 120 | 100 | **1,44** |
| AB3044070323150 | 230x280 mm | 150 | 100 | **1,44** |
| AB3044070323180 | 230x280 mm | 180 | 100 | **1,44** |
| AB3044070323220 | 230x280 mm | 220 | 100 | **1,44** |
| AB3044070323240 | 230x280 mm | 240 | 100 | **1,44** |
| AB3044070323280 | 230x280 mm | 280 | 100 | **1,44** |

## Foglio carta carburo silicio AB3044



| Codice | Dimensioni LxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB3044070323320 | 230x280 mm | 320 | 100 | **1,44** |
| AB3044070323400 | 230x280 mm | 400 | 100 | **1,44** |
| AB3044070323500 | 230x280 mm | 500 | 100 | **1,44** |
| AB3044070323600 | 230x280 mm | 600 | 100 | **1,44** |
| AB3044070323800 | 230x280 mm | 800 | 100 | **1,44** |
| AB3044070323010 | 230x280 mm | 1000 | 100 | **1,53** |
| AB3044070323012 | 230x280 mm | 1200 | 100 | **1,53** |
| AB3044070323015 | 230x280 mm | 1500 | 100 | **1,53** |
| AB3044070323030 | 230x280 mm | 3000 | 100 | **1,68** |
| AB3044070323005 | 230x280 mm | 5000 | 100 | **2,20** |

## Rotolo carta corindone AB1055



### Caratteristiche

Rotoli in carta abrasiva al corindone, da utilizzare principalmente su legno, vernici e materie plastiche.

| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB1055070311040 | 115x50000 mm | 40 | 1 | **79,25** |
| AB1055070311060 | 115x50000 mm | 60 | 1 | **76,19** |
| AB1055070311080 | 115x50000 mm | 80 | 1 | **76,19** |
| AB1055070311100 | 115x50000 mm | 100 | 1 | **76,19** |
| AB1055070311120 | 115x50000 mm | 120 | 1 | **76,19** |
| AB1055070311150 | 115x50000 mm | 150 | 1 | **76,19** |
| AB1055070311180 | 115x50000 mm | 180 | 1 | **76,19** |
| AB1055070311220 | 115x50000 mm | 220 | 1 | **76,19** |
| AB1055070311240 | 115x50000 mm | 240 | 1 | **76,19** |
| AB1055070311280 | 115x50000 mm | 280 | 1 | **76,19** |
| AB1055070311320 | 115x50000 mm | 320 | 1 | **76,19** |
| AB1055070311400 | 115x50000 mm | 400 | 1 | **76,19** |

## Ruota lamellare corindone con foro AB1077



### Caratteristiche

Ruote lamellari con foro costituite da petali di tela abrasiva fissati radialmente su una flangia. Dotate di grande versatilità, possono essere utilizzate per finire superfici sia piane che sagomate; adatte per ogni tipo di applicazione, dalla sgrossatura, alla spazzolatura, alle operazioni di prelucidatura. Particolarmente indicate per lavorazioni su acciaio, legno, bronzo e alluminio.

| Codice | Dimensioni ØxHxForo | Grana | Spessore spazzole | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1077080316304 | 165x30x54 mm | 40 | 30 mm | 3.000 / 4.630 | 5 | **27,83** |
| AB1077080316306 | 165x30x54 mm | 60 | 30 mm | 3.000 / 4.630 | 5 | **27,88** |
| AB1077080316308 | 165x30x54 mm | 80 | 30 mm | 3.000 / 4.630 | 5 | **29,06** |
| AB1077080316312 | 165x30x54 mm | 120 | 30 mm | 3.000 / 4.630 | 5 | **31,68** |
| AB1077080316318 | 165x30x54 mm | 180 | 30 mm | 3.000 / 4.630 | 5 | **34,17** |
| AB1077080316324 | 165x30x54 mm | 240 | 30 mm | 3.000 / 4.630 | 5 | **36,49** |
| AB1077080316332 | 165x30x54 mm | 320 | 30 mm | 3.000 / 4.630 | 5 | **38,23** |
| AB1077080316340 | 165x30x54 mm | 400 | 30 mm | 3.000 / 4.630 | 5 | **39,33** |
| AB1077080316504 | 165x50x54 mm | 40 | 50 mm | 3.000 / 4.630 | 5 | **37,36** |
| AB1077080316506 | 165x50x54 mm | 60 | 50 mm | 3.000 / 4.630 | 5 | **38,89** |
| AB1077080316508 | 165x50x54 mm | 80 | 50 mm | 3.000 / 4.630 | 5 | **41,29** |
| AB1077080316512 | 165x50x54 mm | 120 | 50 mm | 3.000 / 4.630 | 5 | **45,94** |
| AB1077080316518 | 165x50x54 mm | 180 | 50 mm | 3.000 / 4.630 | 5 | **46,16** |
| AB1077080316524 | 165x50x54 mm | 240 | 50 mm | 3.000 / 4.630 | 5 | **52,72** |
| AB1077080316532 | 165x50x54 mm | 320 | 50 mm | 3.000 / 4.630 | 5 | **56,12** |
| AB1077080316540 | 165x50x54 mm | 400 | 50 mm | 3.000 / 4.630 | 5 | **57,93** |
| AB1077080320304 | 200x30x54 mm | 40 | 30 mm | 2.500 / 3.820 | 5 | **34,17** |
| AB1077080320306 | 200x30x54 mm | 60 | 30 mm | 2.500 / 3.820 | 5 | **35,84** |
| AB1077080320308 | 200x30x54 mm | 80 | 30 mm | 2.500 / 3.820 | 5 | **37,79** |
| AB1077080320312 | 200x30x54 mm | 120 | 30 mm | 2.500 / 3.820 | 5 | **40,51** |
| AB1077080320318 | 200x30x54 mm | 180 | 30 mm | 2.500 / 3.820 | 5 | **42,99** |
| AB1077080320324 | 200x30x54 mm | 240 | 30 mm | 2.500 / 3.820 | 5 | **46,16** |
| AB1077080320332 | 200x30x54 mm | 320 | 30 mm | 2.500 / 3.820 | 5 | **48,88** |
| AB1077080320340 | 200x30x54 mm | 400 | 30 mm | 2.500 / 3.820 | 5 | **50,24** |
| AB1077080320504 | 200x50x54 mm | 40 | 50 mm | 2.500 / 3.820 | 5 | **46,16** |
| AB1077080320506 | 200x50x54 mm | 60 | 50 mm | 2.500 / 3.820 | 5 | **51,59** |
| AB1077080320508 | 200x50x54 mm | 80 | 50 mm | 2.500 / 3.820 | 5 | **52,50** |

## Ruota lamellare corindone con foro AB1077

| Codice | Dimensioni ØxHxForo | Grana | Spessore spazzole | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|---|
| AB1077080320512 | 200x50x54 mm | 120 | 50 mm | 2.500 / 3.820 | 5 | **56,12** |
| AB1077080320518 | 200x50x54 mm | 180 | 50 mm | 2.500 / 3.820 | 5 | **60,64** |
| AB1077080320524 | 200x50x54 mm | 240 | 50 mm | 2.500 / 3.820 | 5 | **66,30** |
| AB1077080320532 | 200x50x54 mm | 320 | 50 mm | 2.500 / 3.820 | 5 | **70,60** |
| AB1077080320540 | 200x50x54 mm | 400 | 50 mm | 2.500 / 3.820 | 5 | **71,96** |
| AB1077080325304 | 250x30x100 mm | 40 | 30 mm | 2.000 / 3.050 | 5 | **60,19** |
| AB1077080325306 | 250x30x100 mm | 60 | 30 mm | 2.000 / 3.050 | 5 | **62,68** |
| AB1077080325308 | 250x30x100 mm | 80 | 30 mm | 2.000 / 3.050 | 5 | **66,30** |
| AB1077080325312 | 250x30x100 mm | 120 | 30 mm | 2.000 / 3.050 | 5 | **71,73** |
| AB1077080325318 | 250x30x100 mm | 180 | 30 mm | 2.000 / 3.050 | 5 | **79,20** |
| AB1077080325324 | 250x30x100 mm | 240 | 30 mm | 2.000 / 3.050 | 5 | **80,56** |
| AB1077080325332 | 250x30x100 mm | 320 | 30 mm | 2.000 / 3.050 | 5 | **82,37** |
| AB1077080325340 | 250x30x100 mm | 400 | 30 mm | 2.000 / 3.050 | 5 | **84,63** |
| AB1077080325504 | 250x50x100 mm | 40 | 50 mm | 2.000 / 3.050 | 5 | **78,75** |
| AB1077080325506 | 250x50x100 mm | 60 | 50 mm | 2.000 / 3.050 | 5 | **87,80** |
| AB1077080325508 | 250x50x100 mm | 80 | 50 mm | 2.000 / 3.050 | 5 | **88,70** |
| AB1077080325512 | 250x50x100 mm | 120 | 50 mm | 2.000 / 3.050 | 5 | **101,38** |
| AB1077080325518 | 250x50x100 mm | 180 | 50 mm | 2.000 / 3.050 | 5 | **110,43** |
| AB1077080325524 | 250x50x100 mm | 240 | 50 mm | 2.000 / 3.050 | 5 | **112,69** |
| AB1077080325532 | 250x50x100 mm | 320 | 50 mm | 2.000 / 3.050 | 5 | **115,86** |
| AB1077080325540 | 250x50x100 mm | 400 | 50 mm | 2.000 / 3.050 | 5 | **119,93** |

## Flange riduzione ruote lamellari AB9050



### Caratteristiche

Coppie di flange di riduzione per ruote lamellari con foro.

| Codice | Ø Foro / Riduzione | | € / cad. |
|---|---|---|---|
| AB9050080305420 | 54 / 20 mm | 1 coppia | **26,47** |
| AB9050080305425 | 54 / 25,4 mm | 1 coppia | **26,47** |
| AB9050080310020 | 100 / 20 mm | 1 coppia | **67,66** |
| AB9050080310025 | 100 / 25,4 mm | 1 coppia | **67,66** |
| AB9050080317025 | 170 / 25,4 mm | 1 coppia | **127,45** |
| AB9050080317030 | 170 / 30 mm | 1 coppia | **127,45** |

## Ruota lamellare corindone foro-chiavetta AB7010



### Caratteristiche

Ruote lamellari in tela abrasiva con foro chiavetta 19 mm, adatte a tutte le macchine satinatrici ad uso manuale. Vengono impiegate nella satinatura decorativa di superfici di media dimensione, piane, concave e convesse, su acciai, acciai legati, rame, alluminio e ottone. Nelle grane più grosse vengono utilizzate anche su vetroresina, marmo e pietra.

| Codice | Dimensioni ØxH | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7010110310040 | 100x100 mm | 40 | 5.000 / 7.650 | 4 | **37,33** |
| AB7010110310060 | 100x100 mm | 60 | 5.000 / 7.650 | 4 | **40,89** |
| AB7010110310080 | 100x100 mm | 80 | 5.000 / 7.650 | 4 | **42,76** |
| AB7010110310120 | 100x100 mm | 120 | 5.000 / 7.650 | 4 | **47,75** |
| AB7010110310180 | 100x100 mm | 180 | 5.000 / 7.650 | 4 | **52,31** |
| AB7010110310240 | 100x100 mm | 240 | 5.000 / 7.650 | 4 | **56,12** |
| AB7010110310320 | 100x100 mm | 320 | 5.000 / 7.650 | 4 | **59,86** |

## Disco fibra corindone AB1070



### Caratteristiche

Dischi in fibra al corindone, adatti a lavorazioni universali dalla sgrossatura alla finitura di tutti i metalli, in particolare materiali non ferrosi; velocità massima di utilizzo 80 mt./sec.

| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB1070090311016 | 115x22 mm | 16 | 50 | **1,29** |
| AB1070090311024 | 115x22 mm | 24 | 50 | **1,16** |
| AB1070090311036 | 115x22 mm | 36 | 50 | **1,04** |
| AB1070090311040 | 115x22 mm | 40 | 50 | **0,98** |
| AB1070090311050 | 115x22 mm | 50 | 50 | **0,95** |
| AB1070090311060 | 115x22 mm | 60 | 50 | **0,86** |
| AB1070090311080 | 115x22 mm | 80 | 50 | **0,83** |
| AB1070090311100 | 115x22 mm | 100 | 50 | **0,83** |
| AB1070090311120 | 115x22 mm | 120 | 50 | **0,83** |
| AB1070090312016 | 125x22 mm | 16 | 50 | **1,44** |
| AB1070090312024 | 125x22 mm | 24 | 50 | **1,32** |
| AB1070090312036 | 125x22 mm | 36 | 50 | **1,16** |

## Disco fibra corindone AB1070



| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB1070090312040 | 125x22 mm | 40 | 50 | **1,10** |
| AB1070090312050 | 125x22 mm | 50 | 50 | **1,04** |
| AB1070090312060 | 125x22 mm | 60 | 50 | **0,95** |
| AB1070090312080 | 125x22 mm | 80 | 50 | **0,92** |
| AB1070090312100 | 125x22 mm | 100 | 50 | **0,92** |
| AB1070090312120 | 125x22 mm | 120 | 50 | **0,92** |
| AB1070090318016 | 180x22 mm | 16 | 25 | **2,66** |
| AB1070090318024 | 180x22 mm | 24 | 25 | **2,42** |
| AB1070090318036 | 180x22 mm | 36 | 25 | **2,20** |
| AB1070090318040 | 180x22 mm | 40 | 25 | **2,05** |
| AB1070090318050 | 180x22 mm | 50 | 25 | **1,96** |
| AB1070090318060 | 180x22 mm | 60 | 25 | **1,77** |
| AB1070090318080 | 180x22 mm | 80 | 25 | **1,71** |
| AB1070090318100 | 180x22 mm | 100 | 25 | **1,71** |
| AB1070090318120 | 180x22 mm | 120 | 25 | **1,71** |

## Disco fibra zirconio AB2070



### Caratteristiche

Dischi in fibra allo zirconio, particolarmente indicati per un uso gravoso, grazie alla elevata capacità d'asportazione di questa tipologia di abrasivo. E' consigliabile l'utilizzo di una smerigliatrice con elevata potenza. Velocità massima di utilizzo 80 mt./sec.

| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB2070090311024 | 115x22 mm | 24 | 50 | **1,68** |
| AB2070090311036 | 115x22 mm | 36 | 50 | **1,53** |
| AB2070090311040 | 115x22 mm | 40 | 50 | **1,29** |
| AB2070090311050 | 115x22 mm | 50 | 50 | **1,19** |
| AB2070090311060 | 115x22 mm | 60 | 50 | **1,07** |
| AB2070090311080 | 115x22 mm | 80 | 50 | **1,22** |
| AB2070090311100 | 115x22 mm | 100 | 50 | **1,22** |
| AB2070090311120 | 115x22 mm | 120 | 50 | **1,22** |
| AB2070090312024 | 125x22 mm | 24 | 50 | **1,90** |
| AB2070090312036 | 125x22 mm | 36 | 50 | **1,68** |
| AB2070090312040 | 125x22 mm | 40 | 50 | **1,44** |
| AB2070090312050 | 125x22 mm | 50 | 50 | **1,32** |

## Disco fibra zirconio AB2070



### Caratteristiche

Dischi in fibra allo zirconio, particolarmente indicati per un uso gravoso, grazie alla elevata capacità d'asportazione di questa tipologia di abrasivo. E' consigliabile l'utilizzo di una smerigliatrice con elevata potenza. Velocità massima di utilizzo 80 mt./sec.

| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB2070090312060 | 125x22 mm | 60 | 50 | **1,10** |
| AB2070090312080 | 125x22 mm | 80 | 50 | **1,32** |
| AB2070090312100 | 125x22 mm | 100 | 50 | **1,32** |
| AB2070090312120 | 125x22 mm | 120 | 50 | **1,32** |
| AB2070090318024 | 180x22 mm | 24 | 25 | **3,49** |
| AB2070090318036 | 180x22 mm | 36 | 25 | **3,21** |
| AB2070090318040 | 180x22 mm | 40 | 25 | **2,63** |
| AB2070090318050 | 180x22 mm | 50 | 25 | **2,45** |
| AB2070090318060 | 180x22 mm | 60 | 25 | **2,08** |
| AB2070090318080 | 180x22 mm | 80 | 25 | **2,66** |
| AB2070090318100 | 180x22 mm | 100 | 25 | **2,66** |
| AB2070090318120 | 180x22 mm | 120 | 25 | **2,66** |

## Disco fibra corindone con refrigerante AB3080



### Caratteristiche

Dischi in fibra al corindone con refrigerante, ideali per lavori di smerigliatura e asportazione di saldature su acciaio inox e altri acciai legati.

| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB3080090311024 | 115x22 mm | 24 | 50 | **1,56** |
| AB3080090311036 | 115x22 mm | 36 | 50 | **1,59** |
| AB3080090311040 | 115x22 mm | 40 | 50 | **1,41** |
| AB3080090311050 | 115x22 mm | 50 | 50 | **1,41** |
| AB3080090311060 | 115x22 mm | 60 | 50 | **1,29** |
| AB3080090311080 | 115x22 mm | 80 | 50 | **1,22** |
| AB3080090311100 | 115x22 mm | 100 | 50 | **1,16** |
| AB3080090311120 | 115x22 mm | 120 | 50 | **1,04** |
| AB3080090312024 | 125x22 mm | 24 | 50 | **1,77** |
| AB3080090312036 | 125x22 mm | 36 | 50 | **1,81** |
| AB3080090312040 | 125x22 mm | 40 | 50 | **1,56** |

## Disco fibra corindone con refrigerante AB3080



| Codice | Dimensioni ØxForo | Grana | | € / cad. |
|---|---|---|---|---|
| AB3080090312050 | 125x22 mm | 50 | 50 | **1,59** |
| AB3080090312060 | 125x22 mm | 60 | 50 | **1,44** |
| AB3080090312080 | 125x22 mm | 80 | 50 | **1,38** |
| AB3080090312100 | 125x22 mm | 100 | 50 | **1,32** |
| AB3080090312120 | 125x22 mm | 120 | 50 | **1,16** |
| AB3080090318024 | 180x22 mm | 24 | 25 | **3,24** |
| AB3080090318036 | 180x22 mm | 36 | 25 | **3,27** |
| AB3080090318040 | 180x22 mm | 40 | 25 | **2,88** |
| AB3080090318050 | 180x22 mm | 50 | 25 | **2,88** |
| AB3080090318060 | 180x22 mm | 60 | 25 | **2,57** |
| AB3080090318080 | 180x22 mm | 80 | 25 | **2,45** |
| AB3080090318100 | 180x22 mm | 100 | 25 | **2,30** |
| AB3080090318120 | 180x22 mm | 120 | 25 | **2,02** |

## Supporti per dischi fibra AB9070



### Caratteristiche

Platorelli universali per dischi in fibra, con supporto di media durezza.

| Codice | Ø | | € / cad. |
|---|---|---|---|
| AB9070090311500 | 115 mm | 1 | **12,85** |
| AB9070090312500 | 125 mm | 1 | **21,88** |
| AB9070090318000 | 180 mm | 1 | **25,70** |

## Supporti rinforzati per dischi fibra AB9071

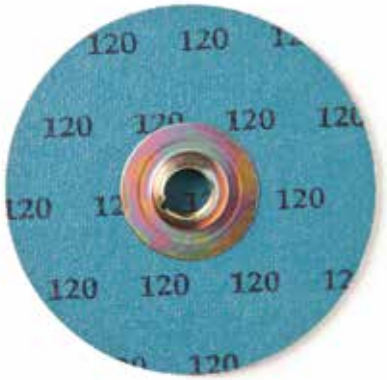


### Caratteristiche

Platorelli per dischi in fibra, particolarmente indicati per operazioni gravose (heavy duty).

| Codice | Ø | | € / cad. |
|---|---|---|---|
| AB9071090311500 | 115 mm | 1 | **14,99** |
| AB9071090312500 | 125 mm | 1 | **20,50** |
| AB9071090318000 | 180 mm | 1 | **28,92** |

## Disco attacco rapido corindone AB1090




### Caratteristiche

Dischi al corindone con attacco rapido femmina, per uso generico, adatti per sgrossare ogni tipo di metallo, in particolare quelli ferrosi.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB1090190305036 | 50 mm | 36 | 100 | **1,81** |
| AB1090190305060 | 50 mm | 60 | 100 | **1,62** |
| AB1090190305080 | 50 mm | 80 | 100 | **1,59** |
| AB1090190305120 | 50 mm | 120 | 100 | **1,53** |
| AB1090190307036 | 75 mm | 36 | 100 | **2,20** |
| AB1090190307060 | 75 mm | 60 | 100 | **2,08** |
| AB1090190307080 | 75 mm | 80 | 100 | **2,05** |
| AB1090190307120 | 75 mm | 120 | 100 | **1,99** |

## Disco attacco rapido zirconio AB2090



### Caratteristiche

Dischi allo zirconio con attacco rapido femmina, caratterizzati da un'elevata capacità d'asportazione, adatti per uso gravoso. È consigliabile l'utilizzo di una smerigliatrice con elevata potenza.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB2090190305036 | 50 mm | 36 | 100 | **2,02** |
| AB2090190305060 | 50 mm | 60 | 100 | **1,81** |
| AB2090190305080 | 50 mm | 80 | 100 | **1,77** |
| AB2090190305120 | 50 mm | 120 | 100 | **1,74** |
| AB2090190307036 | 75 mm | 36 | 100 | **2,63** |
| AB2090190307060 | 75 mm | 60 | 100 | **2,30** |
| AB2090190307080 | 75 mm | 80 | 100 | **2,30** |
| AB2090190307120 | 75 mm | 120 | 100 | **2,30** |

## Disco attacco rapido ceramico AB3090



### Caratteristiche

Dischi ceramici con attacco rapido femmina, uniscono l'eccezionale capacità d'asportazione del ceramico al taglio freddo degli additivi. Consigliati per uso gravoso su materiali a bassa conduzione termica, come acciai legati ed inossidabili.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB3090190302060 | 25 mm | 60 | 100 | **0,98** |
| AB3090190303060 | 38 mm | 60 | 100 | **1,16** |
| AB3090190305036 | 50 mm | 36 | 100 | **1,81** |
| AB3090190305060 | 50 mm | 60 | 100 | **1,59** |
| AB3090190305080 | 50 mm | 80 | 100 | **1,53** |
| AB3090190305120 | 50 mm | 120 | 100 | **1,53** |
| AB3090190307036 | 75 mm | 36 | 100 | **2,14** |
| AB3090190307060 | 75 mm | 60 | 100 | **2,05** |
| AB3090190307080 | 75 mm | 80 | 100 | **2,02** |
| AB3090190307120 | 75 mm | 120 | 100 | **1,99** |

## Disco attacco rapido zirconio COOL AB7070

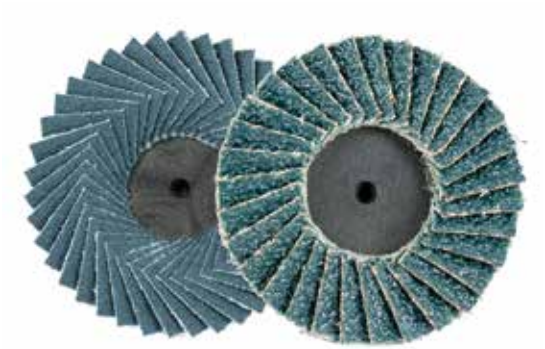


### Caratteristiche

Dischi allo zirconio e resina refrigerante con attacco rapido femmina per impieghi gravosi; ideali per pressioni di lavoro medio alte su acciai inossidabili.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB7070090325036 | 25 mm | 36 | 100 | **1,01** |
| AB7070090325040 | 25 mm | 40 | 100 | **1,01** |
| AB7070090325060 | 25 mm | 60 | 100 | **0,98** |
| AB7070090325080 | 25 mm | 80 | 100 | **0,98** |
| AB7070090325012 | 25 mm | 120 | 100 | **0,98** |
| AB7070090336036 | 36 mm | 36 | 100 | **1,32** |
| AB7070090336040 | 36 mm | 40 | 100 | **1,22** |
| AB7070090336060 | 36 mm | 60 | 100 | **1,19** |
| AB7070090336080 | 36 mm | 80 | 100 | **1,19** |
| AB7070090336012 | 36 mm | 120 | 100 | **1,19** |
| AB7070090351036 | 51 mm | 36 | 100 | **1,99** |
| AB7070090351040 | 51 mm | 40 | 100 | **1,84** |
| AB7070090351060 | 51 mm | 60 | 100 | **1,74** |
| AB7070090351080 | 51 mm | 80 | 100 | **1,74** |
| AB7070090351012 | 51 mm | 120 | 100 | **1,68** |
| AB7070090376036 | 76 mm | 36 | 50 | **2,54** |
| AB7070090376040 | 76 mm | 40 | 50 | **2,39** |
| AB7070090376060 | 76 mm | 60 | 50 | **2,30** |
| AB7070090376080 | 76 mm | 80 | 50 | **2,20** |
| AB7070090376012 | 76 mm | 120 | 50 | **2,20** |

## Disco lamellare attacco rapido zirconio AB5090



### Caratteristiche

Dischi lamellari piani allo zirconio con attacco rapido maschio, adatti per asportare con precisione in piccole aree e sui bordi.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB5090090305060 | 50 mm | 60 | 50 | **6,40** |
| AB5090090307060 | 75 mm | 60 | 50 | **9,67** |

## Supporto per dischi attacco rapido AB6090



### Caratteristiche

Supporti per dischi con attacco rapido con gambo da 6 mm.

| Codice | Ø | Gambo | | € / cad. |
|---|---|---|---|---|
| AB60901990302001 | 25 mm | 6 mm | 5 | **24,17** |
| AB60901990303001 | 38 mm | 6 mm | 5 | **22,49** |
| AB60901990305001 | 50 mm | 6 mm | 5 | **28,92** |
| AB60901990307001 | 75 mm | 6 mm | 5 | **32,44** |

## Disco velcro peso E corindone AB1080



### Caratteristiche

Dischi con velcro in carta abrasiva al corindone, peso E, impiegati soprattutto per la levigatura di superfici piane di metallo, in particolare di acciaio inossidabile e di legno grezzo. Varia geometria dei fori che permette l'ottimizzazione dell'aspirazione delle polveri e, quindi, del rendimento. L'uniformità dell'abrasivo consente inoltre di ottenere una finitura omogenea.

| Codice | Ø | N°fori | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB1080100315040 | 150 mm | Senza fori | 40 | 100 | **1,13** |
| AB1080100315060 | 150 mm | Senza fori | 60 | 100 | **1,01** |
| AB1080100315080 | 150 mm | Senza fori | 80 | 100 | **0,92** |
| AB1080100315010 | 150 mm | Senza fori | 100 | 100 | **0,89** |
| AB1080100315012 | 150 mm | Senza fori | 120 | 100 | **0,89** |
| AB1080100315015 | 150 mm | Senza fori | 150 | 100 | **0,89** |
| AB1080100315640 | 150 mm | 6 | 40 | 100 | **1,13** |
| AB1080100315660 | 150 mm | 6 | 60 | 100 | **1,01** |
| AB1080100315680 | 150 mm | 6 | 80 | 100 | **0,95** |
| AB1080100315610 | 150 mm | 6 | 100 | 100 | **0,89** |
| AB1080100315612 | 150 mm | 6 | 120 | 100 | **0,89** |
| AB1080100315615 | 150 mm | 6 | 150 | 100 | **0,89** |
| AB1080100315840 | 150 mm | 8+1 | 40 | 100 | **1,13** |
| AB1080100315860 | 150 mm | 8+1 | 60 | 100 | **1,01** |
| AB1080100315880 | 150 mm | 8+1 | 80 | 100 | **0,95** |
| AB1080100315810 | 150 mm | 8+1 | 100 | 100 | **0,89** |
| AB1080100315812 | 150 mm | 8+1 | 120 | 100 | **0,89** |
| AB1080100315815 | 150 mm | 8+1 | 150 | 100 | **0,89** |

## Disco velcro peso C corindone AB1088



### Caratteristiche

Dischi con velcro in carta abrasiva al corindone, peso C, specificatamente indicati per la finitura con macchine orbitali di particolari nell'industria automobilistica (after market e OEM). Impiegati anche per la levigatura a secco di primers catafo-retici, vernici acriliche e melaminiche, settore nautico, sme-rigliatura di scocche in alluminio e smerigliatura di particolari in plastica. Contengono additivi che rendono la loro superficie antistatica (trattamento anti polvere); questa particolare carat-teristica impedisce che l'abrasivo si intasi prematuramente, garantendone così una lunga durata. Varia geometria dei fori che permette l'ottimizzazione dell'aspirazione delle polveri e, quindi, del rendimento. L'uniformità dell'abrasivo consente di ottenere superfici con un ottimo grado di rugosità.

| Codice | Ø | N°fori | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB1088100315008 | 150 mm | Senza fori | 80 | 100 | **0,67** |
| AB1088100315010 | 150 mm | Senza fori | 100 | 100 | **0,64** |
| AB1088100315012 | 150 mm | Senza fori | 120 | 100 | **0,64** |
| AB1088100315015 | 150 mm | Senza fori | 150 | 100 | **0,64** |
| AB1088100315018 | 150 mm | Senza fori | 180 | 100 | **0,64** |
| AB1088100315022 | 150 mm | Senza fori | 220 | 100 | **0,64** |
| AB1088100315032 | 150 mm | Senza fori | 320 | 100 | **0,64** |
| AB1088100315040 | 150 mm | Senza fori | 400 | 100 | **0,64** |
| AB1088100315050 | 150 mm | Senza fori | 500 | 100 | **0,64** |
| AB1088100315060 | 150 mm | Senza fori | 600 | 100 | **1,01** |
| AB1088100315080 | 150 mm | Senza fori | 800 | 100 | **0,64** |
| AB1088100315608 | 150 mm | 6 | 80 | 100 | **0,67** |
| AB1088100315610 | 150 mm | 6 | 100 | 100 | **0,64** |
| AB1088100315612 | 150 mm | 6 | 120 | 100 | **0,64** |
| AB1088100315615 | 150 mm | 6 | 150 | 100 | **0,64** |
| AB1088100315618 | 150 mm | 6 | 180 | 100 | **0,64** |
| AB1088100315622 | 150 mm | 6 | 220 | 100 | **0,64** |
| AB1088100315632 | 150 mm | 6 | 320 | 100 | **0,64** |
| AB1088100315640 | 150 mm | 6 | 400 | 100 | **0,64** |
| AB1088100315650 | 150 mm | 6 | 500 | 100 | **0,64** |
| AB1088100315660 | 150 mm | 6 | 600 | 100 | **0,64** |
| AB1088100315680 | 150 mm | 6 | 800 | 100 | **0,64** |
| AB1088100315808 | 150 mm | 8+1 | 80 | 100 | **0,67** |
| AB1088100315810 | 150 mm | 8+1 | 100 | 100 | **0,64** |
| AB1088100315812 | 150 mm | 8+1 | 120 | 100 | **0,64** |
| AB1088100315815 | 150 mm | 8+1 | 150 | 100 | **0,64** |

## Disco velcro peso C corindone AB1088

| Codice | Ø | N°fori | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB1088100315818 | 150 mm | 8+1 | 180 | 100 | **0,64** |
| AB1088100315822 | 150 mm | 8+1 | 220 | 100 | **0,64** |
| AB1088100315832 | 150 mm | 8+1 | 320 | 100 | **0,64** |
| AB1088100315840 | 150 mm | 8+1 | 400 | 100 | **0,64** |
| AB1088100315850 | 150 mm | 8+1 | 500 | 100 | **0,64** |
| AB1088100315860 | 150 mm | 8+1 | 600 | 100 | **0,64** |
| AB1088100315880 | 150 mm | 8+1 | 800 | 100 | **0,64** |

## Disco velcro supporto film AB1089

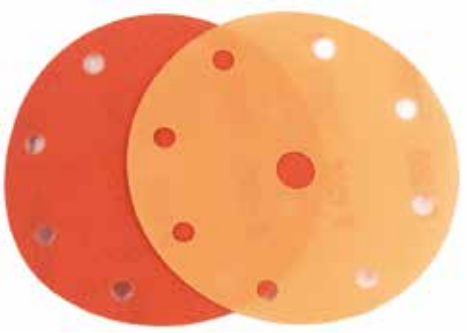


### Caratteristiche

Dischi velcrati specifici per le operazioni di finitura prima dell'utilizzo di paste abrasive. Il supporto in pellicola assicura planarità. Un minerale abrasivo premium con additivi anti intasamento permette al disco una maggiore durata e una finitura costante.

| Codice | Ø | N°fori | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB1089100315008 | 150 mm | Senza fori | 80 | 100 | **0,98** |
| AB1089100315012 | 150 mm | Senza fori | 120 | 100 | **0,92** |
| AB1089100315015 | 150 mm | Senza fori | 150 | 100 | **0,92** |
| AB1089100315018 | 150 mm | Senza fori | 180 | 100 | **0,92** |
| AB1089100315022 | 150 mm | Senza fori | 220 | 100 | **0,92** |
| AB1089100315024 | 150 mm | Senza fori | 240 | 100 | **0,92** |
| AB1089100315032 | 150 mm | Senza fori | 320 | 100 | **0,92** |
| AB1089100315040 | 150 mm | Senza fori | 400 | 100 | **0,92** |
| AB1089100315050 | 150 mm | Senza fori | 500 | 100 | **0,92** |
| AB1089100315060 | 150 mm | Senza fori | 600 | 100 | **0,92** |
| AB1089100315080 | 150 mm | Senza fori | 800 | 100 | **0,92** |
| AB1089100315010 | 150 mm | Senza fori | 1000 | 100 | **0,92** |
| AB1089100315120 | 150 mm | Senza fori | 1200 | 100 | **0,92** |
| AB1089103151500 | 150 mm | Senza fori | 1500 | 100 | **0,92** |
| AB1089100315020 | 150 mm | Senza fori | 2000 | 100 | **1,01** |
| AB1089100315025 | 150 mm | Senza fori | 2500 | 100 | **1,01** |
| AB1089100315108 | 150 mm | 15 | 80 | 100 | **1,25** |

## Disco velcro supporto film AB1089



### Caratteristiche

Dischi velcrati specifici per le operazioni di finitura prima dell'utilizzo di paste abrasive. Il supporto in pellicola assicura planarità. Un minerale abrasivo premium con additivi anti intasamento permette al disco una maggiore durata e una finitura costante.

| Codice | Ø | N°fori | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB1089100315112 | 150 mm | 15 | 120 | 100 | **1,19** |
| AB1089100315115 | 150 mm | 15 | 150 | 100 | **1,19** |
| AB1089100315118 | 150 mm | 15 | 180 | 100 | **1,19** |
| AB1089100315122 | 150 mm | 15 | 220 | 100 | **1,19** |
| AB1089100315124 | 150 mm | 15 | 240 | 100 | **1,19** |
| AB1089100315132 | 150 mm | 15 | 320 | 100 | **1,19** |
| AB1089100315140 | 150 mm | 15 | 400 | 100 | **1,19** |
| AB1089100315150 | 150 mm | 15 | 500 | 100 | **0,89** |
| AB1089100315160 | 150 mm | 15 | 600 | 100 | **0,89** |
| AB1089100315180 | 150 mm | 15 | 800 | 100 | **0,89** |
| AB1089100315110 | 150 mm | 15 | 1000 | 100 | **0,89** |
| AB1089100315130 | 150 mm | 15 | 1200 | 100 | **0,98** |
| AB1089100315125 | 150 mm | 15 | 2500 | 100 | **0,98** |
| AB1089100315087 | 150 mm | 17 | 80 | 100 | **0,98** |
| AB1089100315127 | 150 mm | 17 | 120 | 100 | **0,92** |
| AB1089100315157 | 150 mm | 17 | 150 | 100 | **0,92** |
| AB1089100315187 | 150 mm | 17 | 180 | 100 | **0,92** |
| AB1089100315227 | 150 mm | 17 | 220 | 100 | **0,92** |
| AB1089100315247 | 150 mm | 17 | 240 | 100 | **0,92** |
| AB1089100315327 | 150 mm | 17 | 320 | 100 | **0,92** |
| AB1089100315047 | 150 mm | 17 | 400 | 100 | **0,92** |
| AB1089100315057 | 150 mm | 17 | 500 | 100 | **0,92** |
| AB1089100315067 | 150 mm | 17 | 600 | 100 | **0,92** |
| AB1089100315807 | 150 mm | 17 | 800 | 100 | **0,92** |
| AB1089100315017 | 150 mm | 17 | 1000 | 100 | **0,92** |
| AB1089100315117 | 150 mm | 17 | 1200 | 100 | **0,92** |
| AB1089100315027 | 150 mm | 17 | 2000 | 100 | **1,01** |
| AB1089100315257 | 150 mm | 17 | 2500 | 100 | **1,01** |

## Supporto dischi velcrati AB9080

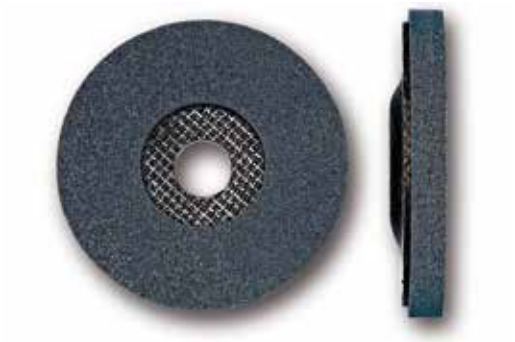


### Caratteristiche

Platorelli per dischi velcrati al corindone.

| Codice | Ø | Foro | | € / cad. |
|---|---|---|---|---|
| AB9080100315000 | 150 mm | Senza fori | 1 | **57,90** |
| AB9080100315006 | 150 mm | 6 | 1 | **46,42** |
| AB9080100315081 | 150 mm | 8+1 | 1 | **46,42** |

## Disco compatto alta densità AB7000



### Caratteristiche

Dischi compatti composti da una combinazione di tessuti abrasivi ad altissima densità, con supporto in fibra di vetro. Particolarmente indicati per lavori di finitura su acciaio inox e operazioni di finitura dopo l'impiego di dischi lamellari o fibrati. Utilizzabili anche per la preparazione di superfici per trattamenti galvanici o di verniciatura. Disponibili nelle durezze: soft, medium e hard.

| Codice | Dimensioni ØxL | Durezza | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB7000010211512 | 115x13 mm | MD - Media | S-F | 10 | **31,18** |
| AB7000104115151 | 115x15 mm | SD - Morbida | S-F | 10 | **16,13** |
| AB7000010411515 | 115x15 mm | MD - Media | S-F | 10 | **17,03** |
| AB7000104115156 | 115x15 mm | MD - Media | A-C | 10 | **18,01** |
| AB7000104115157 | 115x15 mm | HD - Dura | A-C | 10 | **19,41** |
| AB7000104115152 | 115x15 mm | HD - Dura | S-F | 10 | **17,92** |
| AB7000104115154 | 115x15 mm | HD - Dura | S-M | 10 | **18,45** |

## Disco compatto AB7000



### Caratteristiche

Dischi compatti costituiti da fibre di nylon con alta concentrazione abrasiva. Adatti alla pulitura di residui di saldatura su acciaio inox, sbavature da taglio laser e rimozione di difetti su superfici delicate. Ideali per operazioni di pulitura e finitura su letti, lavorazioni speciali su leghe di alluminio, titanio e altri materiali compositi. Disponibili nelle durezze: soft, medium e hard.

| Codice | Dimensioni ØxL | Durezza | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB7000104760600 | 76x6 mm | MD - Media | S-F | 5 | **6,46** |
| AB7000104760601 | 76x6 mm | MD - Media | S-M | 5 | **6,98** |
| AB7000104150300 | 150x3 mm | HD - Dura | S-M | 5 | **22,19** |
| AB7000104150301 | 150x3 mm | HD - Dura | A-C | 5 | **22,59** |
| AB7000104150600 | 150x6 mm | SD - Morbida | S-F | 5 | **20,70** |
| AB7000104150601 | 150x6 mm | MD - Media | S-F | 5 | **22,87** |
| AB7000104150602 | 150x6 mm | HD - Dura | S-M | 5 | **26,88** |

## Disco surface conditioning AB7700



### Caratteristiche

Dischi in surface conditioning con struttura a maglia aperta anti intasamento, lunga durata e taglio rapido. Adatti per operazioni di leggera pulitura o finitura satinata di superfici metalliche, soprattutto di acciaio inossidabile, o sbavatura di saldature.

| Codice | Ø | Grana | | € / cad. |
|---|---|---|---|---|
| AB7700110311501 | 115 mm | Grossa | 20 | **16,03** |
| AB7700110311502 | 115 mm | Media | 20 | **16,03** |
| AB7700110311503 | 115 mm | Fine | 20 | **16,03** |
| AB7700110311504 | 115 mm | Super fine | 20 | **16,03** |
| AB7700110312501 | 125 mm | Grossa | 20 | **20,38** |
| AB7700110312502 | 125 mm | Media | 20 | **20,38** |
| AB7700110312503 | 125 mm | Fine | 20 | **20,38** |
| AB7700110312504 | 125 mm | Super fine | 20 | **20,38** |

## Nastro surface conditioning AB7710



### Caratteristiche

Nastri in surface conditioning dalla struttura tridimensionale di alta qualità. L'abrasivo è ripartito su fibre di nylon rinforzate da un supporto a basso coefficiente di allungamento, che ne consente l'utilizzo in operazioni con forte pressione meccanica. Questi nastri sono adatti per la satinatura di metalli in generale, sia a umido che a secco, finiture decorative, rifinitura di operazioni di abrasione precedenti e opacizzazione. Consentono una nitura omogenea e ripetibile su tutto il pezzo, e un taglio rapido. Garantiscono grande durata e resistenza all'intasamento. Per finiture satinate e lavorazione di legno e alluminio sono consigliate velocità basse. Per asportare imperfezioni prima della lucidatura dei metalli sono consigliate velocità più alte che produrranno un taglio più veloce e una finitura più fine.

| Codice | Abrasivo | Supporto | Grana | | € / cad. |
|---|---|---|---|---|---|
| AB7710110300001C | Corindone | Extra flessibile | Fine | 1 | **a richiesta** |
| AB7710110300002C | Corindone | Extra flessibile | Media | 1 | **a richiesta** |
| AB7710110300003C | Corindone | Extra flessibile | Grossa | 1 | **a richiesta** |
| AB77101103001CS | Corindone - Carburo di silicio | Standard | Super fine | 1 | **a richiesta** |
| AB77101103002CS | Corindone - Carburo di silicio | Standard | Fine | 1 | **a richiesta** |
| AB77101103003CS | Corindone - Carburo di silicio | Standard | Media | 1 | **a richiesta** |
| AB77101103004CS | Corindone - Carburo di silicio | Standard | Grossa | 1 | **a richiesta** |

## Ruota lamellare TNT con foro chiavetta 19mm AB7030



### Caratteristiche

Ruote lamellari in tessuto non tessuto, ovvero fibre sintetiche impregnate di resina e di materiale abrasivo (ossido di alluminio o carburo di silicio), adatte a tutte le macchine satinatrici ad uso manuale. Utilizzate nelle operazioni di opacizzazione e nella satinatura di tutti i metalli, nell'eliminazione dell'ossidazione e dovunque sia necessario creare rugosità specifiche senza modificare la geometria del pezzo. Grazie alla struttura molto aperta e flessibile, garantiscono sempre una smerigliatura fredda e il non intasamento del prodotto; finitura uniforme e ripetibile su tutto il pezzo.

| Codice | Dimensioni ØxH | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7030110311001 | 110x100 mm | Grossa | 2.800 / 5.700 | 4 | **28,67** |
| AB7030110311002 | 110x100 mm | Media | 2.800 / 5.700 | 4 | **28,67** |
| AB7030110311003 | 110x100 mm | Fine | 2.800 / 5.700 | 4 | **30,26** |
| AB7030110311004 | 110x100 mm | Molto fine | 2.800 / 5.700 | 4 | **30,26** |

## Ruota lamellare TNT con gambo 6mm AB7155



### Caratteristiche

Ruote lamellari in tessuto non tessuto, ovvero fibre sintetiche impregnate di resina e di materiale abrasivo (ossido di alluminio o carburo di silicio), adatte a tutte le macchine satinatrici ad uso manuale. Utilizzate nelle operazioni di opacizzazione e nella satinatura di tutti i metalli, nell'eliminazione dell'ossidazione e dovunque sia necessario creare rugosità specifiche senza modificare la geometria del pezzo. Grazie alla struttura molto aperta e flessibile, garantiscono sempre una smerigliatura fredda e il non intasamento del prodotto; finitura uniforme e ripetibile su tutto il pezzo.

| Codice | Dimensioni ØxHxGambo | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7155110340001 | 40x20x6 mm | Grossa | 7.500 / 14.000 | 10 | **9,36** |
| AB7155110340002 | 40x20x6 mm | Media | 7.500 / 14.000 | 10 | **9,36** |
| AB7155110340003 | 40x20x6 mm | Fine | 7.500 / 14.000 | 10 | **9,36** |
| AB7155110350001 | 50x30x6 mm | Grossa | 5.700 / 11.500 | 10 | **12,06** |
| AB7155110350002 | 50x30x6 mm | Media | 5.700 / 11.500 | 10 | **12,06** |
| AB7155110350003 | 50x30x6 mm | Fine | 5.700 / 11.500 | 10 | **12,06** |
| AB7155110360001 | 60x30x6 mm | Grossa | 4.700 / 9.500 | 10 | **12,52** |
| AB7155110360002 | 60x30x6 mm | Media | 4.700 / 9.500 | 10 | **12,52** |
| AB7155110360003 | 60x30x6 mm | Fine | 4.700 / 9.500 | 10 | **12,52** |
| AB7155110383001 | 80x30x6 mm | Grossa | 3.600 / 7.000 | 10 | **15,97** |
| AB7155110383002 | 80x30x6 mm | Media | 3.600 / 7.000 | 10 | **15,97** |
| AB7155110383003 | 80x30x6 mm | Fine | 3.600 / 7.000 | 10 | **15,97** |
| AB7155110385001 | 80x50x6 mm | Grossa | 3.600 / 7.000 | 10 | **19,28** |
| AB7155110385002 | 80x50x6 mm | Media | 3.600 / 7.000 | 10 | **19,28** |
| AB7155110385003 | 80x50x6 mm | Fine | 3.600 / 7.000 | 10 | **19,28** |

## Ruota TNT misto tela foro chiavetta 19mm AB7020



### Caratteristiche

Ruote lamellari in tessuto non tessuto misto tela, adatte a tutte le macchine satinatrici ad uso manuale. Vengono impiegate nelle operazioni di opacizzazione e di satinatura di tutti i metalli, nell'eliminazione dell'ossidazione e dovunque sia necessario creare rugosità specifiche, senza modificare la geometria del pezzo; grazie all'aggiunta della tela abrasiva, garantiscono una maggior asportazione eliminando anche eventuali graffi rimasti sul pezzo.

| Codice | Dimensioni ØxH | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7020110311040 | 110x100 mm | 40 | 2.800 / 5.700 | 4 | **49,27** |
| AB7020110311060 | 110x100 mm | 60 | 2.800 / 5.700 | 4 | **49,27** |
| AB7020110311080 | 110x100 mm | 80 | 2.800 / 5.700 | 4 | **49,27** |
| AB7020110311120 | 110x100 mm | 120 | 2.800 / 5.700 | 4 | **49,27** |

## Ruota lamellare TNT misto tela gambo 6mm AB7150



### Caratteristiche

Ruote lamellari in tessuto non tessuto misto tela, adatte a tutte le macchine satinatrici ad uso manuale. Vengono impiegate nelle operazioni di opacizzazione e di satinatura di tutti i metalli, nell'eliminazione dell'ossidazione e dovunque sia necessario creare rugosità specifiche, senza modificare la geometria del pezzo; grazie all'aggiunta della tela abrasiva, garantiscono una maggior asportazione eliminando anche eventuali graffi rimasti sul pezzo.

| Codice | Dimensioni ØxHxGambo | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7150110340080 | 40x20x6 mm | 80 | 7.500 / 14.000 | 10 | **9,82** |
| AB7150110340120 | 40x20x6 mm | 120 | 7.500 / 14.000 | 10 | **9,82** |
| AB7150110340180 | 40x20x6 mm | 180 | 7.500 / 14.000 | 10 | **9,82** |
| AB7150110350080 | 50x30x6 mm | 80 | 5.700 / 11.500 | 10 | **13,13** |
| AB7150110350120 | 50x30x6 mm | 120 | 5.700 / 11.500 | 10 | **13,13** |
| AB7150110350180 | 50x30x6 mm | 180 | 5.700 / 11.500 | 10 | **13,13** |
| AB7150110360080 | 60x30x6 mm | 80 | 4.700 / 9.500 | 10 | **13,31** |
| AB7150110360120 | 60x30x6 mm | 120 | 4.700 / 9.500 | 10 | **13,31** |
| AB7150110360180 | 60x30x6 mm | 180 | 4.700 / 9.500 | 10 | **13,31** |
| AB7150110380080 | 80x50x6 mm | 80 | 3.600 / 7.000 | 10 | **20,41** |

## Ruota lamellare TNT misto tela gambo 6mm AB7150



### Caratteristiche

Ruote lamellari in tessuto non tessuto misto tela, adatte a tutte le macchine satinatrici ad uso manuale. Vengono impiegate nelle operazioni di opacizzazione e di satinatura di tutti i metalli, nell'eliminazione dell'ossidazione e dovunque sia necessario creare rugosità specifiche, senza modificare la geometria del pezzo; grazie all'aggiunta della tela abrasiva, garantiscono una maggior asportazione eliminando anche eventuali graffi rimasti sul pezzo.

| Codice | Dimensioni ØxHxGambo | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7150110380120 | 80x50x6 mm | 120 | 3.600 / 7.000 | 10 | **20,41** |
| AB7150110380180 | 80x50x6 mm | 180 | 3.600 / 7.000 | 10 | **20,41** |

## Ruota lamellare TNT con foro AB7050



### Caratteristiche

Ruote lamellari in tessuto non tessuto con foro, composte da lamelle fatte da fibre sintetiche impregnate uniformemente con granuli abrasivi e leganti resinoidi, e disposte radialmente attorno ad un nucleo di fibra. Vengono impiegate nelle operazioni di satinatura e mascheratura su metalli ferrosi e non, acciaio inossidabile, sia con smerigliatrici assiali che ad albero flessibile o automatiche.

| Codice | Dimensioni ØxHxForo | Grana | Giri /Min OP/Max | | € / cad. |
|---|---|---|---|---|---|
| AB7050110350001 | 150x50x50 mm | Grossa | 1.900 / 3.800 | 5 | **43,24** |
| AB7050110350002 | 150x50x50 mm | Media | 1.900 / 3.800 | 5 | **43,24** |
| AB7050110350003 | 150x50x50 mm | Fine | 1.900 / 3.800 | 5 | **43,24** |
| AB7050110376001 | 200x50x76 mm | Grossa | 1.400 / 2.800 | 5 | **56,18** |
| AB7050110376002 | 200x50x76 mm | Media | 1.400 / 2.800 | 5 | **56,18** |
| AB7050110376003 | 200x50x76 mm | Fine | 1.400 / 2.800 | 5 | **56,18** |

## Rotolo TNT AB7500



### Caratteristiche

Rotoli antispreco in tessuto non tessuto; possono essere tagliati a misura e quindi adattarsi a qualsiasi sagoma di pezzo in lavorazione. Resistenti all'intasamento e molto flessibili; particolarmente indicati per la rimozione di ossidazioni e operazioni di pulizia in generale su tutti i metalli, plastica e fibre di vetro.

| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB7500110312001 | 120x10000 mm | Grossa | 1 | **82,10** |
| AB7500110312002 | 120x10000 mm | Media | 1 | **68,79** |
| AB7500110312003 | 120x10000 mm | Fine | 1 | **55,48** |
| AB7500110312004 | 120x10000 mm | Super fine | 1 | **55,48** |

## Tampone TNT AB7600



### Caratteristiche

Tamponi in tessuto non tessuto, utilizzati manualmente in operazioni di mascheratura e pulitura di tutti i metalli ferrosi e non ferrosi, acciaio inox, materiali sintetici, stucchi e vernici; possono essere utilizzati anche per eliminare l'ossidazione; vengono spesso impiegati su scocche di automobili. Utilizzo sia a secco che ad umido, o con detergente.

| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB7600110312281 | 120x280 mm | Grossa | 50 | **2,94** |
| AB7600110312282 | 120x280 mm | Media | 50 | **2,48** |
| AB7600110312283 | 120x280 mm | Fine | 50 | **2,17** |
| AB7600110312284 | 120x280 mm | Super fine | 50 | **2,17** |

## Ruota ventilata TNT AB7800



### Caratteristiche

Ruote ventilate in tessuto non tessuto per finiture satinate di parti metalliche con forme particolari. Queste ruote sono adatte alla formazione di rulli da montare su macchine a bancale. Composte da ossido di alluminio, con 4 falde.

| Codice | Dimensioni HxL | Grana | | € / cad. |
|---|---|---|---|---|
| AB7800110302001 | 200x55 mm | Media | 10 | **29,28** |
| AB7800110302002 | 200x55 mm | Fine | 10 | **29,28** |
| AB7800110302003 | 200x55 mm | Super fine | 10 | **29,28** |
| AB7800110302501 | 250x80 mm | Grossa | 10 | **46,88** |
| AB7800110302502 | 250x80 mm | Media | 10 | **36,26** |
| AB7800110302503 | 250x80 mm | Fine | 10 | **36,26** |
| AB7800110302504 | 250x80 mm | Super fine | 10 | **36,26** |
| AB7800110303001 | 300x130 mm | Grossa | 10 | **50,52** |
| AB7800110303002 | 300x130 mm | Media | 10 | **39,11** |
| AB7800110303003 | 300x130 mm | Fine | 10 | **39,11** |
| AB7800110303004 | 300x130 mm | Super fine | 10 | **39,11** |
| AB7800110303501 | 350x130 mm | Grossa | 10 | **64,69** |
| AB7800110303502 | 350x130 mm | Media | 10 | **50,15** |
| AB7800110303503 | 350x130 mm | Fine | 10 | **50,15** |
| AB7800110303504 | 350x130 mm | Super fine | 10 | **50,15** |
| AB7800110304001 | 400x180 mm | Grossa | 10 | **79,10** |
| AB7800110304002 | 400x180 mm | Media | 10 | **63,04** |
| AB7800110304003 | 400x180 mm | Fine | 10 | **63,04** |
| AB7800110304004 | 400x180 mm | Super fine | 10 | **63,04** |

## Disco C&S con foro AB8000



### Caratteristiche

Dischi composti da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa. Molto resistenti, utilizzabili su qualsiasi materiale, questi dischi sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Dimensioni ØxL | Foro | Giri /Min | | € / cad. |
|---|---|---|---|---|---|
| AB8000110450131 | 50x13 mm | 13 mm | 11.500 | 10 | **3,98** |
| AB8000110475131 | 75x13 mm | 13 mm | 7.000 | 10 | **6,36** |
| AB8000110410131 | 100x13 mm | 13 mm | 5.700 | 10 | **8,02** |
| AB8000110415131 | 150x13 mm | 13 mm | 3.800 | 10 | **15,94** |
| AB8000110420131 | 200x13 mm | 13 mm | 2.900 | 10 | **29,74** |
| AB8000110413726* | 13x72 mm | 6 mm | 11.500 | 1 | **9,39** |
| AB8000110413728* | 13x72 mm | 8 mm | 3.800 | 1 | **11,66** |

* perni per dischi

## Disco C&S con gambo AB8010




### Caratteristiche

Dischi composti da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa. Molto resistenti, utilizzabili su qualsiasi materiale, questi dischi sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Dimensioni ØxL | Gambo | Giri /Min | | € / cad. |
|---|---|---|---|---|---|
| AB8010110450136 | 50x13 mm | 6 mm | 11.500 | 10 | **5,81** |
| AB8010110450266 | 50x26 mm | 6 mm | 11.500 | 10 | **7,44** |
| AB8010110410136 | 100x13 mm | 6 mm | 5.700 | 10 | **12,39** |
| AB8010110410266 | 100x26 mm | 6 mm | 5.700 | 10 | **20,41** |
| AB8010110415138 | 150x13 mm | 8 mm | 3.800 | 10 | **20,47** |
| AB8010110415268 | 150x26 mm | 8 mm | 3.800 | 10 | **36,87** |

## Ruota C&S con foro chiavetta AB8030



### Caratteristiche

Ruote lamellari con foro chiavetta composte da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa. Molto resistenti, utilizzabili su qualsiasi materiale, queste ruote sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Dimensioni ØxL | Foro | Giri /Min | | € / cad. |
|---|---|---|---|---|---|
| AB8030110401519 | 100x50 mm | 19 mm | 5.730 | 5 | **40,82** |
| AB8030110401119 | 100x100 mm | 19 mm | 5.730 | 5 | **73,78** |

## Disco C&S attacco rapido AB8020



### Caratteristiche

Dischi con attacco rapido e platorello composti da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa. Molto resistenti, utilizzabili su qualsiasi materiale, questi dischi sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Ø disco | Ø platorello | Giri /Min | | € / cad. |
|---|---|---|---|---|---|
| AB8020110400050 | 50 mm | - | 25.000 | 25 | **7,04** |
| AB8020110400075 | 75 mm | - | 20.000 | 25 | **11,20** |
| AB8020110400501 | - | 50 x 6 mm | 25.000 | 5 | **38,49** |
| AB8020110400502 | - | 76 x 6 mm | 20.000 | 5 | **44,71** |

## Disco C&S supporto fibra AB8040



### Caratteristiche

Dischi composti da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa, con supporto in fibra. Molto resistenti, utilizzabili su qualsiasi materiale, questi dischi sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Dimensioni ØxL | Foro | Giri /Min | | € / cad. |
|---|---|---|---|---|---|
| AB8040110411132 | 115x13 mm | 22 mm | 10.000 | 10 | **12,82** |
| AB8040110418132 | 180x13 mm | 22 mm | 6.500 | 10 | **17,44** |

## Disco C&S velcrato AB8050



### Caratteristiche

Dischi velcrati composti da una rete di fibre in nylon non tessute con maglia aperta ed elastica, impregnati con abrasivo al carburo di silicio in grana grossa. Molto resistenti, utilizzabili su qualsiasi materiale, questi dischi sono ideali per operazioni di decapaggio e pulitura, quali ad esempio: asportazione di ruggine o vernici, disossidazione e pulitura di saldature, decapaggio di calamina, pulitura di superfici da gomma, materie plastiche, ecc.

| Codice | Ø disco | Giri/Min | | € / cad. |
|---|---|---|---|---|
| AB8050110411513 | 115x13 mm | 10.000 | 10 | **16,07** |

## Ruota sisal-cotone e cotone ventilato AB7900



### Caratteristiche

Ruota in sisal-cotone, consigliata per rimuovere i segni dell'abrasivo e preparare la superficie per la lucidatura. La ruota in cotone ventilato invece è adatta per la lucidatura a specchio finale. Entrambe le tipologie di ruota hanno un foro chiavetta di 19 mm.

| Codice | Dimensioni HxL | Struttura | | € / cad. |
|---|---|---|---|---|
| AB7900120300111 | 110x100mm | Cotone ventilato | 1 | **105,57** |
| AB7900120300110 | 110x100 mm | Sisal-Cotone | 1 | **105,57** |

## Disco lamellare feltro AB7910



### Caratteristiche

Disco lamellare in feltro adatto per finitura lucida con pasta abrasiva. Consigliato per un utilizzo a basso numero di giri con macchine smerigliatrici angolari.

| Codice | Ø | | € / cad. |
|---|---|---|---|
| AB7910120300115 | 115 mm | 1 | **9,98** |

## Ruota lamellare feltro con perno AB7920



### Caratteristiche

Ruota lamellare in feltro con perno, per utilizzo con smerigliatrici dritte a bassi giri per la lucidatura di piccole superfici ed interni di raccordi e tubi, unitamente a pasta abrasiva.

| Codice | Dimensioni HxL | Gambo | Giri/Min | | € / cad. |
|---|---|---|---|---|---|
| AB7920120300030 | 30x30 mm | 6 mm | 17.100 | 10 | **7,50** |
| AB7920120300040 | 40x30 mm | 6 mm | 15.500 | 10 | **8,60** |
| AB7920120300050 | 50x30 mm | 6 mm | 13.700 | 10 | **9,52** |
| AB7920120300060 | 60x30 mm | 6 mm | 11.500 | 10 | **10,62** |
| AB7920120300080 | 80x30 mm | 6 mm | 8.600 | 10 | **14,60** |

## Disco feltro attacco rapido AB7940



### Caratteristiche

Dischi in feltro ad attacco rapido ideali per operazioni finali di lucidatura. Da utilizzare con le opportune paste di lucidatura, questi dischi consentono di ottenere finiture a specchio.

| Codice | Ø disco | | € / cad. |
|---|---|---|---|
| AB7940120300025 | 25 mm | 10 | **4,74** |
| AB7940120300051 | 51 mm | 10 | **10,77** |
| AB7940120300076 | 76 mm | 10 | **16,07** |

## Pasta abrasiva AB7930



### Caratteristiche

Bianca – Pasta da sgrossatura con sisal, tampico, filo di acciaio o di nylon. Azzurra – Pasta per brillantatura, taglio fine o secondo passaggio. Da usare unitamente a dischi in cotone. Rosa – Pasta medio-secca per lucidatura e brillantatura. Verde – Pasta per finitura, adatta in particolare su acciaio inox. Panetti da 1,2 Kg. circa.

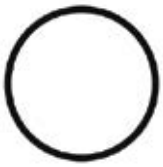
| Codice | Colore | | € / cad. |
|---|---|---|---|
| AB793012030000A | Azzurro | 5 | **12,39** |
| AB793012030000B | Bianco | 5 | **7,71** |
| AB793012030000R | Rosa | 5 | **12,85** |
| AB793012030000V | Verde | 5 | **12,85** |

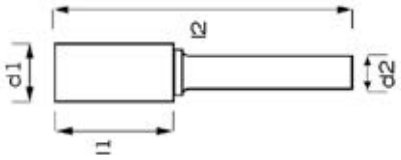
## Fresa rotativa MD cilindrica AB8100



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.






| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB81001203303Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **12,52** |
| AB81001203306Z6 | 6,3 mm | 12,7mm | 3 mm | 45 mm | Z6 | 1 | **24,51** |
| AB81001203606Z3 | 6 mm | 18 mm | 6 mm | 50 mm | Z3 | 1 | **25,61** |
| AB81001203606Z6 | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **25,61** |
| AB81001203606ZA | 6 mm | 18 mm | 6 mm | 50 mm | Z-ALU | 1 | **27,69** |
| AB81001203608Z3 | 8 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **33,48** |
| AB81001203608Z6 | 8 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **33,48** |
| AB81001203608ZA | 8 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **36,26** |
| AB81001203609Z3 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **36,02** |
| AB81001203609Z6 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **36,02** |
| AB81001203609ZA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **41,59** |
| AB81001203612Z3 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **48,81** |
| AB81001203612Z6 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **48,81** |
| AB81001203612ZA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **60,10** |
| AB81001203616Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **66,40** |
| AB81001203616Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **66,40** |
| AB81001203616ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **76,81** |

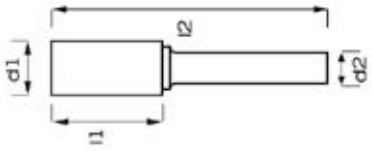
## Fresa MD cilindrica denti frontali AB8111



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.





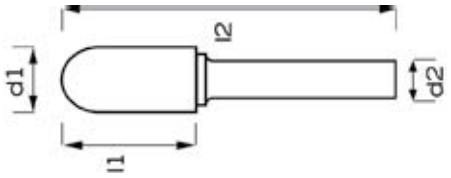

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB81111203303Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **16,43** |
| AB81111203306Z6 | 6,3 mm | 12,7 mm | 3 mm | 45 mm | Z6 | 1 | **27,02** |
| AB81111203606Z3 | 6 mm | 18 mm | 6 mm | 50 mm | Z3 | 1 | **28,15** |
| AB81111203606Z6 | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **28,15** |
| AB81111203606ZA | 6 mm | 18 mm | 6 mm | 50 mm | Z-ALU | 1 | **30,45** |
| AB81111203608Z3 | 8 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **36,84** |
| AB81111203608Z6 | 8 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **36,84** |
| AB81111203608ZA | 8 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **39,93** |
| AB81111203609Z3 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **39,57** |
| AB81111203609Z6 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **39,57** |
| AB81111203609ZA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **42,84** |
| AB81111203612Z3 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **61,81** |
| AB81111203612Z6 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **61,81** |
| AB81111203612ZA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **67,01** |
| AB81111203616Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **73,13** |
| AB81111203616Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **73,13** |
| AB81111203616ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **84,46** |

## Fresa rotativa MD testa sferica AB8200



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



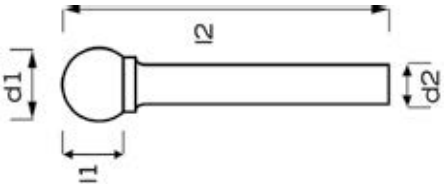

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB8200120330 3Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **14,93** |
| AB8200120330 6Z6 | 6,3 mm | 12,7 mm | 3 mm | 45 mm | Z6 | 1 | **24,51** |
| AB8200120360 6Z3 | 6 mm | 18 mm | 6 mm | 50 mm | Z3 | 1 | **29,77** |
| AB8200120360 6Z6 | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **29,77** |
| AB8200120360 6ZA | 6 mm | 18 mm | 6 mm | 50 mm | Z-ALU | 1 | **32,13** |
| AB8200120360 8Z3 | 8 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **36,48** |
| AB8200120360 8Z6 | 8 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **36,48** |
| AB8200120360 8ZA | 8 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **39,47** |
| AB8200120360 9Z3 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **40,12** |
| AB8200120360 9Z6 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **40,12** |
| AB8200120360 9ZA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **46,33** |
| AB8200120361 2Z3 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **63,07** |
| AB8200120361 2Z6 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **63,07** |
| AB8200120361 2ZA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **72,77** |
| AB8200120361 6Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **79,28** |
| AB8200120361 6Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **79,28** |
| AB8200120361 6ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **85,99** |

## Fresa rotativa MD sferica AB8300



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



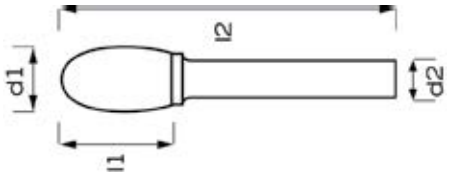

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB83001203303Z6 | 3 mm | 2,5 mm | 3 mm | 38 mm | Z6 | 1 | **14,93** |
| AB83001203306Z6 | 6,3 mm | 5 mm | 3 mm | 38 mm | Z6 | 1 | **24,51** |
| AB83001203608Z3 | 8 mm | 6 mm | 6 mm | 52 mm | Z3 | 1 | **27,54** |
| AB83001203608Z6 | 8 mm | 6 mm | 6 mm | 52 mm | Z6 | 1 | **27,54** |
| AB83001203608ZA | 8 mm | 6 mm | 6 mm | 52 mm | Z-ALU | 1 | **31,82** |
| AB83001203609Z3 | 9,6 mm | 8 mm | 6 mm | 54 mm | Z3 | 1 | **32,86** |
| AB83001203609Z6 | 9,6 mm | 8 mm | 6 mm | 54 mm | Z6 | 1 | **32,86** |
| AB83001203609ZA | 9,6 mm | 8 mm | 6 mm | 54 mm | Z-ALU | 1 | **35,65** |
| AB83001203612Z3 | 12,7 mm | 11 mm | 6 mm | 56 mm | Z3 | 1 | **44,43** |
| AB83001203612Z6 | 12,7 mm | 11 mm | 6 mm | 56 mm | Z6 | 1 | **44,43** |
| AB83001203612ZA | 12,7 mm | 11 mm | 6 mm | 56 mm | Z-ALU | 1 | **48,04** |
| AB83001203616Z3 | 16 mm | 14 mm | 6 mm | 59 mm | Z3 | 1 | **51,56** |
| AB83001203616Z6 | 16 mm | 14 mm | 6 mm | 59 mm | Z6 | 1 | **51,56** |
| AB83001203616ZA | 16 mm | 14 mm | 6 mm | 59 mm | Z-ALU | 1 | **59,36** |

## Fresa rotativa MD ovale AB8400



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



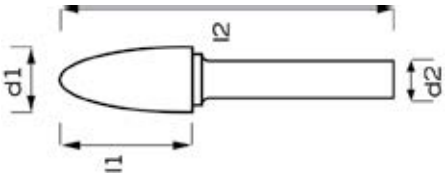

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB8400120330 3Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **14,93** |
| AB8400120330 6Z6 | 6,3 mm | 12,7 mm | 3 mm | 45 mm | Z6 | 1 | **24,51** |
| AB8400120360 8Z3 | 8 mm | 15 mm | 6 mm | 60 mm | Z3 | 1 | **36,63** |
| AB8400120360 8Z6 | 8 mm | 15 mm | 6 mm | 60 mm | Z6 | 1 | **36,63** |
| AB8400120360 8ZA | 8 mm | 15 mm | 6 mm | 60 mm | Z-ALU | 1 | **39,47** |
| AB8400120360 9Z3 | 9,6 mm | 16 mm | 6 mm | 60 mm | Z3 | 1 | **40,12** |
| AB8400120360 9Z6 | 9,6 mm | 16 mm | 6 mm | 60 mm | Z6 | 1 | **40,12** |
| AB8400120360 9ZA | 9,6 mm | 16 mm | 6 mm | 60 mm | Z-ALU | 1 | **43,45** |
| AB8400120361 2Z3 | 12,7 mm | 22 mm | 6 mm | 67 mm | Z3 | 1 | **58,69** |
| AB8400120361 2Z6 | 12,7 mm | 22 mm | 6 mm | 67 mm | Z6 | 1 | **58,69** |
| AB8400120361 2ZA | 12,7 mm | 22 mm | 6 mm | 67 mm | Z-ALU | 1 | **63,65** |
| AB8400120361 6Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **76,50** |
| AB8400120361 6Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **76,50** |
| AB8400120361 6ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **88,28** |

## Fresa rotativa MD a raggio testa sferica AB8500



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



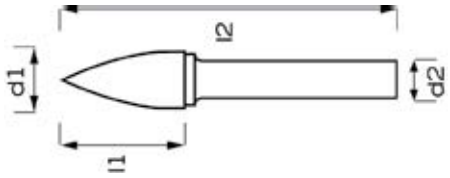

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB85001203303Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **14,93** |
| AB85001203306Z6 | 6,3 mm | 12,7 mm | 3 mm | 45 mm | Z6 | 1 | **24,51** |
| AB85001203606Z3 | 6 mm | 18 mm | 6 mm | 50 mm | Z3 | 1 | **31,09** |
| AB85001203606Z6 | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **31,09** |
| AB85001203606ZA | 6 mm | 18 mm | 6 mm | 50 mm | Z-ALU | 1 | **33,66** |
| AB85001203608Z3 | 8 mm | 20 mm | 6 mm | 65 mm | Z3 | 1 | **36,63** |
| AB85001203608Z6 | 8 mm | 20 mm | 6 mm | 65 mm | Z6 | 1 | **36,63** |
| AB85001203608ZA | 8 mm | 20 mm | 6 mm | 65 mm | Z-ALU | 1 | **39,63** |
| AB85001203609Z3 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **39,23** |
| AB85001203609Z6 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **39,23** |
| AB85001203609ZA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **45,32** |
| AB85001203612Z3 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **58,08** |
| AB85001203612Z6 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **58,08** |
| AB85001203612ZA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **67,01** |
| AB85001203616Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **75,12** |
| AB85001203616Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **75,12** |
| AB85001203616ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **86,75** |

## Fresa rotativa MD a fiamma AB8600



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



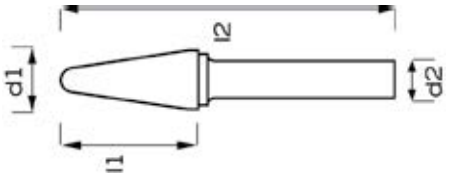

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB8600120330 3Z6 | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **16,41** |
| AB8600120330 6Z6 | 6,3 mm | 12,7 mm | 3 mm | 45 mm | Z6 | 1 | **24,51** |
| AB8600120360 6Z3 | 6 mm | 18 mm | 6 mm | 50 mm | Z3 | 1 | **31,09** |
| AB8600120360 6Z6 | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **31,09** |
| AB8600120360 6ZA | 6 mm | 18 mm | 6 mm | 50 mm | Z-ALU | 1 | **33,60** |
| AB8600120360 8Z3 | 8 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **37,79** |
| AB8600120360 8Z6 | 8 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **37,79** |
| AB8600120360 8ZA | 8 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **40,85** |
| AB8600120360 9Z3 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z3 | 1 | **41,83** |
| AB8600120360 9Z6 | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **41,83** |
| AB8600120360 9ZA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z-ALU | 1 | **45,20** |
| AB8600120361 2Z3 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **56,89** |
| AB8600120361 2Z6 | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **56,89** |
| AB8600120361 2ZA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **61,51** |
| AB8600120361 6Z3 | 16 mm | 25 mm | 6 mm | 70 mm | Z3 | 1 | **74,21** |
| AB8600120361 6Z6 | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **74,21** |
| AB8600120361 6ZA | 16 mm | 25 mm | 6 mm | 70 mm | Z-ALU | 1 | **85,53** |

## Fresa rotativa MD conica a testa sferica AB8700



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



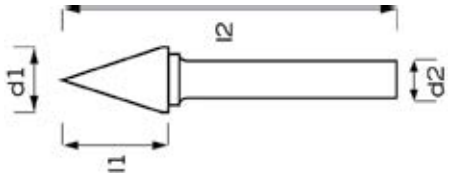

| Codice | Dimensioni | | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | Angolo | | | |
| AB87001203303Z6 | 3 mm | 14 mm | 3 mm | 38 mm | 8° | Z6 | 1 | **14,93** |
| AB87001203306Z6 | 6,3 mm | 15,8 mm | 3 mm | 48 mm | 22° | Z6 | 1 | **24,51** |
| AB87001203606Z3 | 6 mm | 18 mm | 6 mm | 50 mm | 14° | Z3 | 1 | **31,82** |
| AB87001203606Z6 | 6 mm | 18 mm | 6 mm | 50 mm | 14° | Z6 | 1 | **31,82** |
| AB87001203606ZA | 6 mm | 18 mm | 6 mm | 50 mm | 14° | Z-ALU | 1 | **34,43** |
| AB87001203608Z3 | 8 mm | 25,4 mm | 6 mm | 70 mm | 14° | Z3 | 1 | **41,77** |
| AB87001203608Z6 | 8 mm | 25,4 mm | 6 mm | 70 mm | 14° | Z6 | 1 | **41,77** |
| AB87001203608ZA | 8 mm | 25,4 mm | 6 mm | 70 mm | 14° | Z-ALU | 1 | **45,14** |
| AB87001203609Z3 | 9,6 mm | 30 mm | 6 mm | 76 mm | 14° | Z3 | 1 | **50,12** |
| AB87001203609Z6 | 9,6 mm | 30 mm | 6 mm | 76 mm | 14° | Z6 | 1 | **50,12** |
| AB87001203609ZA | 9,6 mm | 30 mm | 6 mm | 76 mm | 14° | Z-ALU | 1 | **57,93** |
| AB87001203612Z3 | 12,7 mm | 32 mm | 6 mm | 77 mm | 14° | Z3 | 1 | **61,20** |
| AB87001203612Z6 | 12,7 mm | 32 mm | 6 mm | 77 mm | 14° | Z6 | 1 | **61,20** |
| AB87001203612ZA | 12,7 mm | 32 mm | 6 mm | 77 mm | 14° | Z-ALU | 1 | **70,75** |
| AB87001203616Z3 | 16 mm | 33 mm | 6 mm | 78 mm | 14° | Z3 | 1 | **113,07** |
| AB87001203616Z6 | 16 mm | 33 mm | 6 mm | 78 mm | 14° | Z6 | 1 | **113,07** |
| AB87001203616ZA | 16 mm | 33 mm | 6 mm | 78 mm | 14° | Z-ALU | 1 | **130,57** |

## Fresa rotativa MD conica AB8800



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



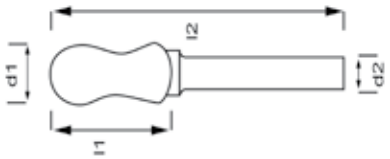

| Codice | Dimensioni | | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | Angolo | | | |
| AB8800120330 3Z6 | 3 mm | 11 mm | 3 mm | 38 mm | 14° | Z6 | 1 | **14,93** |
| AB8800120360 6Z6 | 6 mm | 20 mm | 6 mm | 50 mm | 14° | Z6 | 1 | **31,82** |
| AB8800120360 9Z6 | 9,6 mm | 16 mm | 6 mm | 64 mm | 28° | Z6 | 1 | **50,25** |
| AB8800120361 2Z6 | 12,7 mm | 22 mm | 6 mm | 71 mm | 28° | Z6 | 1 | **62,91** |
| AB8800120361 6Z6 | 16 mm | 25 mm | 6 mm | 71 mm | 31° | Z6 | 1 | **84,03** |

## Fresa rotativa MD a raggio testa tonda AB8900R



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



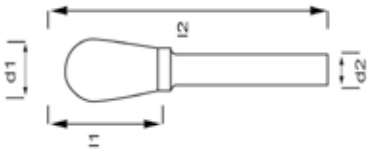

| Codice | Dimensioni | | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | Angolo | | | |
| AB890012030006R | 12,7 mm | 25 mm | 6 mm | 70 mm | 20° | Z2 | 1 | **89,87** |

## Fresa rotativa MD a cono rovesciato AB8900C



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.



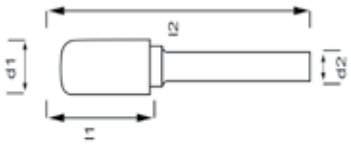

| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB890012030006C | 12,7 mm | 20 mm | 6 mm | 65 mm | Z2 | 1 | **63,34** |

## Fresa rotativa MD con raggio ad angolo AB8900RA



### Caratteristiche

TAGLIO Z3: Tagliente standard utilizzato per cordoni di saldatura, acciai, acciai fusi e acciai temprati. Ottimo rendimento con buona finitura superficiale. TAGLIO Z6: Tagliente incrociato universale; riduce le vibrazioni durante la lavorazione, consentendo un miglior controllo della fresa da parte dell'operatore. Indicato per applicazioni su tutti i tipi di acciai, anche quelli resistenti alla corrosione. Ottimo controllo del truciolo e buona finitura. TAGLIO Z-ALU: Tagliente specifico per grandi asportazioni di materiali e facile evacuazione del truciolo. Indicato per lavorazioni su alluminio, materie plastiche e gomme dure.




| Codice | Dimensioni | | | | Taglio | | € / cad. |
|---|---|---|---|---|---|---|---|
| | d1 | l1 | d2 | l2 | | | |
| AB89001203033RA | 3 mm | 14 mm | 3 mm | 38 mm | Z6 | 1 | **16,16** |
| AB89001203066RA | 6 mm | 18 mm | 6 mm | 50 mm | Z6 | 1 | **27,69** |
| AB89001203068RA | 8 mm | 20 mm | 6 mm | 64 mm | Z6 | 1 | **36,26** |
| AB89001203061RA | 9,6 mm | 19 mm | 6 mm | 64 mm | Z6 | 1 | **39,02** |
| AB89001203062RA | 12,7 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **60,89** |
| AB89001203065RA | 16 mm | 25 mm | 6 mm | 70 mm | Z6 | 1 | **76,81** |

## Espositore frese MD 40 pz. AB99K1




### Caratteristiche

Espositore frese rotative MD coniche 40 pz. AB99K1

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| AB99K1120300000 | 99K1 - Kit espositore 40 pz. misti frese rotative in metallo duro, gambo 6 mm.; taglio Z6 | 1 | **2.047,14** |

## Kit frese MD 10 pz. AB99K2



### Caratteristiche

Kit frese rotative MD coniche 10 pz. AB99K2

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| AB99K2120300000 | 99K2 - Kit 10 pz. misti frese rotative in metallo duro, gambo 3 mm.; taglio Z6 | 1 | **179,55** |

## Kit frese MD 5 pz. AB99K3



### Caratteristiche

Kit frese rotative MD coniche 5 pz. AB99K3

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| AB99K3120300000 | 99K3 - Kit 5 pz. misti frese rotative in metallo duro, gambo 6 mm.; taglio Z6 | 1 | **259,35** |

## Spazzola in filo con gambo



### Caratteristiche

Costruzione robusta in filo di acciaio o acciaio inox, Ideale per la pulizia di ruggine, vernice, ecc. e per la sbavatura leggera su piccole aree con macchine portatili.

| Codice | Filo | Dimensioni Ø x H | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920010002005A | acciaio | 20x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **1,64** |
| AB920010002005I | inox | 20x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **2,58** |
| AB920010003005A | acciaio | 30x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **1,74** |
| AB920010003005I | inox | 30x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **2,69** |
| AB920010004005A | acciaio | 40x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **1,89** |
| AB920010004005I | inox | 40x5 mm | 6 mm | 0,3 mm | 6000 | 25 | **2,83** |
| AB920010004010A | acciaio | 40x10 mm | 6 mm | 0,3 mm | 4500 | 25 | **2,34** |
| AB920010005006A | acciaio | 50x6 mm | 6 mm | 0,3 mm | 4500 | 25 | **2,34** |
| AB920010005006I | inox | 50x6 mm | 6 mm | 0,3 mm | 4500 | 25 | **4,02** |
| AB920010006006A | acciaio | 60x6 mm | 6 mm | 0,3 mm | 4500 | 20 | **2,69** |
| AB920010006006I | inox | 60x6 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,22** |
| AB920010007008A | acciaio | 70x8 mm | 6 mm | 0,3 mm | 4500 | 10 | **3,14** |
| AB920010007008I | inox | 70x8 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,88** |
| AB920010007013A | acciaio | 70x13 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,12** |
| AB920010007013I | inox | 70x13 mm | 6 mm | 0,3 mm | 4500 | 10 | **6,86** |
| AB920010008008A | acciaio | 80x8 mm | 6 mm | 0,3 mm | 4500 | 10 | **3,43** |
| AB920010008008I | inox | 80x8 mm | 6 mm | 0,3 mm | 4500 | 10 | **6,76** |
| AB920010010010A | acciaio | 100x10 mm | 6 mm | 0,3 mm | 4500 | 10 | **3,63** |
| AB920010010010I | inox | 100x10 mm | 6 mm | 0,3 mm | 4500 | 10 | **7,36** |
| AB920010010015A | acciaio | 100x15 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,82** |
| AB920010010015I | inox | 100x15 mm | 6 mm | 0,3 mm | 4500 | 10 | **9,84** |

## Spazzola in filo a tazza con gambo



### Caratteristiche

Forma a tazza ideale per lavorare frontalmente su parti difficili da raggiungere. Per operazioni di pulizia e di sbavatura leggera su piccole aree con macchine portatili.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920020004006A | acciaio | 40 mm | 6 mm | 0,3 mm | 6500 | 20 | **2,83** |
| AB920020004006I | inox | 40 mm | 6 mm | 0,3 mm | 6500 | 20 | **3,79** |
| AB920020005006A | acciaio | 50 mm | 6 mm | 0,3 mm | 4500 | 20 | **3,05** |
| AB920020005006I | inox | 50 mm | 6 mm | 0,3 mm | 4500 | 20 | **4,43** |
| AB920020006006A | acciaio | 60 mm | 6 mm | 0,3 mm | 4500 | 10 | **3,47** |
| AB920020006006I | inox | 60 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,75** |
| AB920020007006A | acciaio | 70 mm | 6 mm | 0,3 mm | 4500 | 10 | **3,95** |
| AB920020007006I | inox | 70 mm | 6 mm | 0,3 mm | 4500 | 10 | **5,54** |
| AB920020008006A | acciaio | 80 mm | 6 mm | 0,3 mm | 4500 | 10 | **4,80** |
| AB920020008006I | inox | 80 mm | 6 mm | 0,3 mm | 4500 | 10 | **8,11** |

## Spazzola frontale in filo



### Caratteristiche

Ideale per la pulitura e la sbavatura su piccole zone, difficili da raggiungere. Per lavorazioni frontali su macchine portatili.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920040001006A | acciaio | 10 mm | 6 mm | 0,3 mm | 20000 | 25 | **2,05** |
| AB920040001006I | inox | 10 mm | 6 mm | 0,3 mm | 20000 | 25 | **3,27** |
| AB9200400001206* | acciaio | 12 mm | 6 mm | 0,3 mm | 4500 | 25 | **4,02** |
| AB920040001506A | acciaio | 15 mm | 6 mm | 0,3 mm | 20000 | 25 | **3,43** |
| AB920040001506I | inox | 15 mm | 6 mm | 0,3 mm | 20000 | 25 | **4,73** |
| AB920040002006A | acciaio | 20 mm | 6 mm | 0,3 mm | 20000 | 25 | **3,63** |
| AB920040002006I | inox | 20 mm | 6 mm | 0,3 mm | 20000 | 25 | **4,99** |

* forma a punta

## Spazzola frontale in filo



### Caratteristiche

Ideale per la pulitura e la sbavatura su piccole zone, difficili da raggiungere. Per lavorazioni frontali su macchine portatili.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB9200400002406* | acciaio | 24 mm | 6 mm | 0,3 mm | 4000 | 25 | **5,30** |
| AB920040002506A | acciaio | 25 mm | 6 mm | 0,3 mm | 20000 | 25 | **3,99** |
| AB920040002506I | inox | 25 mm | 6 mm | 0,3 mm | 20000 | 25 | **5,52** |
| AB920040003006A | acciaio | 30 mm | 6 mm | 0,3 mm | 20000 | 25 | **4,83** |
| AB920040003006I | inox | 30 mm | 6 mm | 0,3 mm | 20000 | 25 | **6,63** |

* forma a punta

## Spazzola circolare in filo ondulato



### Caratteristiche

Ideale per l'utilizzo su macchine stazionarie e mole da banco. Adatta a spazzolature medio pesanti; spazzola aggressiva, di lunga durata.

| Codice | Filo | Dimensioni Ø x H | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920060010025A | acciaio | 100x25 mm | 20 mm | 0,3 mm | 6000 | 1 | **13,13** |
| AB920060010025I | inox | 100x25 mm | 20 mm | 0,3 mm | 6000 | 1 | **20,07** |
| AB920060012525A | acciaio | 125x25 mm | 20 mm | 0,3 mm | 8500 | 1 | **13,27** |
| AB920060012525I | inox | 125x25 mm | 20 mm | 0,3 mm | 8500 | 1 | **23,61** |
| AB920060015025A | acciaio | 150x25 mm | 20 mm | 0,3 mm | 6000 | 1 | **15,05** |
| AB920060015025I | inox | 150x25 mm | 20 mm | 0,3 mm | 6000 | 1 | **25,30** |
| AB920060017525A | acciaio | 175x25 mm | 20 mm | 0,3 mm | 4500 | 1 | **17,39** |
| AB920060017525I | inox | 175x25 mm | 20 mm | 0,3 mm | 4500 | 1 | **32,28** |
| AB920060020025A | acciaio | 200x25 mm | 32 mm | 0,3 mm | 4500 | 1 | **21,39** |
| AB920060020025I | inox | 200x25 mm | 32 mm | 0,3 mm | 4500 | 1 | **38,65** |
| AB920060025025A | acciaio | 250x25 mm | 32 mm | 0,3 mm | 3600 | 1 | **37,44** |
| AB920060025025I | inox | 250x25 mm | 32 mm | 0,3 mm | 3600 | 1 | **57,87** |

## Spazzola conica in filo ondulato



### Caratteristiche

Ideale per la pulizia di superfici in metallo, legno, pietra e marmo su smerigliatrici angolari.

| Codice | Filo | Ø | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB9200500090 14A | acciaio | 90 mm | M14 | 0,3 mm | 13000 | 1 | **7,56** |
| AB9200500090 14I | inox | 90 mm | M14 | 0,3 mm | 13000 | 1 | **11,35** |
| AB9200500120 14A | acciaio | 120 mm | M14 | 0,3 mm | 12000 | 1 | **9,27** |
| AB9200500120 14I | inox | 120 mm | M14 | 0,3 mm | 12000 | 1 | **14,41** |
| AB9200500150 14A | acciaio | 150 mm | M14 | 0,3 mm | 6000 | 1 | **13,80** |

## Spazzola conica in filo ondulato con gambo



### Caratteristiche

Ideale per lavorazioni su zone difficili da raggiungere. Ottima su metallo, legno, pietra e marmo su smerigliatrici angolari.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB9200500090 06A | acciaio | 90 mm | 6 mm | 0,3 mm | 12500 | 1 | **7,75** |
| AB9200500090 06I | inox | 90 mm | 6 mm | 0,3 mm | 12500 | 1 | **11,13** |

## Spazzola a tazza in filo ondulato



### Caratteristiche

Ideale per la rimozione di vernice, primer e ruggine su smerigliatrici angolari e, in generale, per la pulizia di superfici in metallo, legno, pietra e marmo.

| Codice | Filo | Ø | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920070006014A | acciaio | 60 mm | M14 | 0,3 mm | 12500 | 1 | **6,14** |
| AB920070006014I | inox | 60 mm | M14 | 0,3 mm | 12500 | 1 | **10,01** |
| AB920070008014A | acciaio | 80 mm | M14 | 0,3 mm | 11000 | 1 | **6,82** |
| AB920070008014I | inox | 80 mm | M14 | 0,3 mm | 11000 | 1 | **10,97** |
| AB920070010014A | acciaio | 100 mm | M14 | 0,3 mm | 8500 | 1 | **10,01** |
| AB920070010014I | inox | 100 mm | M14 | 0,3 mm | 8500 | 1 | **15,83** |
| AB920070012014A | acciaio | 120 mm | M14 | 0,3 mm | 6500 | 1 | **16,08** |
| AB920070012014I | inox | 120 mm | M14 | 0,3 mm | 6500 | 1 | **27,02** |
| AB920070015014A | acciaio | 150 mm | M14 | 0,3 mm | 6500 | 1 | **28,87** |
| AB920070015014I | inox | 150 mm | M14 | 0,3 mm | 6500 | 1 | **43,27** |

## Spazzola in filo cilindrica con foro



### Caratteristiche

Ideale per impieghi su satinatrici manuali per operazioni di asportazione su ampie superfici piane.

| Codice | Filo | Dimensioni Ø x H | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920080100100A | acciaio | 100x100 mm | 19,1 mm | 0,3 mm | 6800 | 1 | **122,44** |
| AB920080100120A | acciaio | 100x120 mm | 13 mm | 0,3 mm | 6800 | 1 | **141,25** |

## Spazzola a mano



### Caratteristiche

Per impiego universale, Adatta ad operazioni di pulizia manuale.

| Codice | Filo | Misura | Filo | | € / cad. |
|---|---|---|---|---|---|
| AB920090000100A | acciaio | 100 mm | 0,3 mm | 24 | **2,38** |
| AB920090000100I | inox | 100 mm | 0,3 mm | 24 | **3,89** |

## Spazzola a mano con manico in legno



### Caratteristiche

Ideale per lavorazioni su superfici piane, per la rimozione di ruggine, la pulizia di saldature e per qualsiasi altro tipo di raschiatura.

| Codice | Filo | Misura | Q.tà fili | | € / cad. |
|---|---|---|---|---|---|
| AB920018030123A | acciaio | 3x15x23 mm | 16 | 1 | **2,18** |
| AB920018030123I | inox | 3x15x23 mm | 16 | 1 | **3,34** |
| AB920018030124A | acciaio | 3x15x25 mm | 24 | 1 | **2,83** |
| AB920018030124I | inox | 3x15x25 mm | 24 | 1 | **3,85** |
| AB920018040123A | acciaio | 4x15x23 mm | 16 | 1 | **2,39** |
| AB920018040123I | inox | 4x15x23 mm | 16 | 1 | **3,73** |
| AB920018040124A | acciaio | 4x15x25 mm | 24 | 1 | **3,53** |
| AB920018040124I | inox | 4x15x25 mm | 24 | 1 | **5,20** |
| AB920018050123A | acciaio | 5x15x23 mm | 16 | 1 | **2,61** |
| AB920018050123I | inox | 5x15x23 mm | 16 | 1 | **4,25** |
| AB920018050124A | acciaio | 5x15x25 mm | 24 | 1 | **4,15** |
| AB920018050124I | inox | 5x15x25 mm | 24 | 1 | **5,70** |
| AB920018060123A | acciaio | 6x15x23 mm | 16 | 1 | **2,83** |

## Spazzola a mano con manico in legno



### Caratteristiche

Ideale per lavorazioni su superfici piane, per la rimozione di ruggine, la pulizia di saldature e per qualsiasi altro tipo di raschiatura.

| Codice | Filo | Misura | Q.tà fili | | € / cad. |
|---|---|---|---|---|---|
| AB920018060123I | inox | 6x15x23 mm | 16 | 1 | **4,77** |
| AB920018060124A | acciaio | 6x15x25 mm | 24 | 1 | **4,88** |
| AB920018060124I | inox | 6x15x25 mm | 24 | 1 | **6,72** |

## Spazzola circolare a mazzetti ritorti



### Caratteristiche

Aggressiva, ideale per le applicazioni più gravose su cordoni di saldatura, per la sbavatura ed il decapaggio meccanico.

| Codice | Filo | Ø | Foro | Filo | Ranghi | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| AB920014010022A | acciaio | 100 mm | 22 mm | 0,5 mm | 1 | 12000 | 1 | **11,18** |
| AB920014011522A | acciaio | 115 mm | 22 mm | 0,5 mm | 1 | 11000 | 1 | **17,34** |
| AB920014015022A | acciaio | 150 mm | 22 mm | 0,5 mm | 1 | 9000 | 1 | **21,84** |
| AB920014017522A | acciaio | 175 mm | 22 mm | 0,5 mm | 1 | 9000 | 1 | **24,98** |
| AB920014020022A | acciaio | 200 mm | 22 mm | 0,5 mm | 1 | 8500 | 1 | **31,19** |

## Spazzola circolare a mazzetti ritorti M14



### Caratteristiche

Estremamente aggressiva, adatta per operazioni gravose ad alte velocità di rotazione, quali ad esempio la preparazione e la finitura di cordoni di saldatura, sbavatura e decapaggio meccanico.

| Codice | Filo | Ø | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920030010014A | acciaio | 100 mm | M14 | 0,5 mm | 12500 | 1 | **10,94** |
| AB920030011514A | acciaio | 115 mm | M14 | 0,5 mm | 12500 | 1 | **13,50** |
| AB920030012514A | acciaio | 125 mm | M14 | 0,5 mm | 11000 | 1 | **16,15** |
| AB920030015014A | acciaio | 150 mm | M14 | 0,5 mm | 9000 | 1 | **20,91** |
| AB920030018014A | acciaio | 180 mm | M14 | 0,5 mm | 9000 | 1 | **25,11** |
| AB920030020014A | acciaio | 200 mm | M14 | 0,5 mm | 8500 | 1 | **29,36** |

## Spazzola a mazzetti ritorti con gambo



### Caratteristiche

Aggressiva, ideale per le operazioni di pulitura e sbavatura più gravose.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920011007506A | acciaio | 75 mm | 6 mm | 0,5 mm | 20000 | 10 | **7,31** |
| AB920011007506I | inox | 75 mm | 6 mm | 0,5 mm | 20000 | 10 | **11,25** |
| AB920011010006A | acciaio | 100 mm | 6 mm | 0,5 mm | 20000 | 10 | **8,43** |
| AB920011010006I | inox | 100 mm | 6 mm | 0,5 mm | 20000 | 10 | **12,61** |

## Spazzola conica a mazzetti ritorti



### Caratteristiche

Aggressiva, ideale per le applicazioni più gravose. La forma conica la rende adatta a lavorazioni su superfici irregolari.

| Codice | Filo | Ø | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920012010014A | acciaio | 100 mm | M14 | 0,5 | 12500 | 1 | **12,26** |
| AB920012010014I | inox | 100 mm | M14 | 0,5 | 12500 | 1 | **18,59** |
| AB920012012014A | acciaio | 120 mm | M14 | 0,5 | 12000 | 1 | **17,37** |
| AB920012012014I | inox | 120 mm | M14 | 0,5 | 12000 | 1 | **25,91** |

## Spazzola conica a mazzetti ritorti con gambo



### Caratteristiche

Aggressiva, ideale per le applicazioni più gravose. La forma conica la rende adatta a lavorazioni su superfici irregolari.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB92001207514AG | acciaio | 75 mm | 6 mm | 0,5 | 20000 | 10 | **9,58** |

## Spazzola a tazza a mazzetti ritorti



### Caratteristiche

Robusta ed aggressiva, ideale per la rimozione di incrostazioni, vernice, ruggine e calamina su smerigliatrici angolari.

| Codice | Filo | Ø | Foro | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920013006514A | acciaio | 65 mm | M14 | 0,5 mm | 12500 | 1 | **9,23** |
| AB920013007014A | acciaio | 70 mm | M14 | 0,5 mm | 12500 | 1 | **10,12** |
| AB920013008014A | acciaio | 80 mm | M14 | 0,5 mm | 8500 | 1 | **17,49** |
| AB920013010014A | acciaio | 100 mm | M14 | 0,5 mm | 8500 | 1 | **21,55** |
| AB920013012014A | acciaio | 120 mm | M14 | 0,5 mm | 6500 | 1 | **26,94** |
| AB920013015014A | acciaio | 150 mm | M14 | 0,5 mm | 4500 | 1 | **30,78** |

## Spazzola frontale a mazzetti ritorti



### Caratteristiche

Ideale per la pulitura e la sbavatura su piccole zone difficili da raggiungere; aggressiva, adatta alle applicazioni più gravose.

| Codice | Filo | Ø | Gambo | Filo | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920010001906A | acciaio | 19 mm | 6 mm | 0,5 mm | 20000 | 25 | **7,61** |
| AB920010001906I | inox | 19 mm | 6 mm | 0,5 mm | 20000 | 25 | **11,57** |
| AB920010002206A | acciaio | 22 mm | 6 mm | 0,5 mm | 20000 | 25 | **8,35** |
| AB920010002206I | inox | 22 mm | 6 mm | 0,5 mm | 20000 | 25 | **12,87** |

## Spazzola a tazza in nylon



### Caratteristiche

In filo di nylon abrasivo, flessibile e resistente alla rottura. Ideale per lavorazioni su materiali delicati e quando si vogliono evitare contaminazioni da ossido di ferro.

| Codice | Filo | Ø | Foro | Grana | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920015006014R | nylon | 60 mm | M14 | 80 (rossa) | 12500 | 1 | **25,40** |
| AB920015006014B | nylon | 60 mm | M14 | 180 (blu) | 12500 | 1 | **25,40** |
| AB920015008014R | nylon | 80 mm | M14 | 80 (rossa) | 12500 | 1 | **30,99** |
| AB920015008014B | nylon | 80 mm | M14 | 180 (blu) | 12500 | 1 | **30,99** |
| AB920015010014R | nylon | 100 mm | M14 | 80 (rossa) | 8500 | 1 | **45,50** |
| AB920015010014B | nylon | 100 mm | M14 | 180 (blu) | 8500 | 1 | **45,50** |

## Spazzola cirolare in nylon con gambo



### Caratteristiche

In filo di nylon abrasivo, flessibile e resistente alla rottura. Ideale per lavorazioni su materiali delicati e quando si vogliono evitare contaminazioni da ossido di ferro.

| Codice | Filo | Ø | Gambo | Grana | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB920016005006R | nylon | 50 mm | 6 mm | 80 (rossa) | 4500 | 10 | **9,62** |
| AB920016005006B | nylon | 50 mm | 6 mm | 180 (blu) | 4500 | 10 | **9,62** |
| AB920016007506R | nylon | 75 mm | 6 mm | 80 (rossa) | 4500 | 10 | **10,52** |
| AB920016007506B | nylon | 75 mm | 6 mm | 180 (blu) | 4500 | 10 | **10,52** |
| AB920016010006R | nylon | 100 mm | 6 mm | 80 (rossa) | 4500 | 10 | **11,92** |
| AB920016010006B | nylon | 100 mm | 6 mm | 180 (blu) | 4500 | 10 | **11,92** |

## Spazzola con foro in nylon



### Caratteristiche

In filo di nylon abrasivo, flessibile e resistente alla rottura. Ideale per impiego su satinatrici manuali per operazioni di asportazione su ampie superfici piane.

| Codice | Filo | Dimensioni Ø x H | Foro | Grana | Giri/min. | | € / cad. |
|---|---|---|---|---|---|---|---|
| AB9200170101046 | nylon | 100x100 mm | 19,1 mm | 46 | 6800 | 1 | **211,48** |
| AB9200170101048 | nylon | 100x100 mm | 19,1 mm | 80 | 6800 | 1 | **211,48** |
| AB9200170101246 | nylon | 100x120 mm | 13 mm | 46 | 6800 | 1 | **226,83** |
| AB9200170101248 | nylon | 100x120 mm | 13 mm | 80 | 6800 | 1 | **226,83** |

## Disco diamantato TURBO-EXPERT



### Caratteristiche

Disco diamantato, con corona continua (10mm di altezza) per il taglio a secco universale. Diamante in pasta con miscela di polveri metalliche; corpo in acciaio speciale. Garantisce massime prestazioni ed eccellenti finiture. Raccomandato per tutti i tipi di materiali edili: calcestruzzo, pietre, conglomerati, arenarie, marmi.

| Codice | Ø | Ø Foro | | € / cad. |
|---|---|---|---|---|
| LA00050200115TE | 115 mm | 22,2 mm | 1 | **46,13** |
| LA00050200230TE | 230 mm | 22,2 mm | 1 | **112,85** |

## Disco diamantato TURBO-UNIECO



### Caratteristiche

Disco diamantato, con corona continua (8mm di altezza) per il taglio a secco universale. Diamante in pasta con miscela di polveri metalliche; corpo in acciaio speciale. Ottimo rapporto qualità/prezzo. Utilizzabile su tutti i tipi di materiali edili: calcestruzzo, pietre, conglomerati, arenarie, marmi.

| Codice | Ø | Ø Foro | | € / cad. |
|---|---|---|---|---|
| LA00050200115TU | 115 mm | 22,2 mm | 1 | **32,97** |
| LA00050200230TU | 230 mm | 22,2 mm | 1 | **66,42** |

## Disco diamantato TURBO-GRES




### Caratteristiche

Disco diamantato con corona continua (7mm di altezza), diamante in pasta selezionato per gres porcellanato e materiali durissimi, corpo in acciaio speciale. Raccomandato per il taglio specifico di ceramica, piastrelle in gres porcellanato e in klinker.

| Codice | Ø | Ø Foro | Spessore | | € / cad. |
|---|---|---|---|---|---|
| LA00050200115TG | 115 mm | 22,2 mm | 1,2 mm | 1 | **47,66** |
| LA00050200125TG | 125 mm | 22,2 mm | 1,2 mm | 1 | **67,96** |
| LA00050200230TG | 130 mm | 22,2 mm | 1,2 mm | 1 | **145,45** |

## Disco diamantato UNI-LASER




### Caratteristiche

Disco diamantato con corona continua (10mm di altezza) a settori, per il taglio universale. Diamante in pasta con miscela di polveri metalliche; corpo in acciaio speciale; settori saldati laser per la massima sicurezza. Garantisce eccellenti prestazioni e rapidità di taglio. Utilizzabile su tutti i materiali edili duri; particolarmente raccomandato per calcestruzzo, anche armato.

| Codice | Ø | Ø Foro | | € / cad. |
|---|---|---|---|---|
| LA00050200115UL | 115 mm | 22,2 mm | 1 | **40,74** |
| LA00050200230UL | 230 mm | 22,2 mm | 1 | **97,79** |
| LA00050200300UL | 300 mm | 25,4 mm | 1 | **180,81** |
| LA00050200350UL | 350 mm | 25,4 mm | 1 | **252,77** |

## Disco diamantato DIA-CERAMIC




### Caratteristiche

Disco diamantato con corona continua (10mm di altezza), per il taglio di ceramica e marmo. Diamante in pasta selezionato per ceramiche, gres e materiali durissimi; corpo in acciaio speciale. Raccomandato per il taglio di ceramica, marmo, piastrelle in gres porcellanato e in klinker.

| Codice | Ø | Ø Foro | | € / cad. |
|---|---|---|---|---|
| LA00050200115DC | 115 mm | 22,2 mm | 1 | **39,36** |
| LA00050200180DC | 180 mm | 25,4 mm | 1 | **62,42** |
| LA00050200230DC | 230 mm | 22,2 mm | 1 | **88,56** |
| LA00050200350DC | 350 mm | 25,4 mm | 1 | **202,34** |

## Disco diamantato DIA-IRON



### Caratteristiche

Disco diamantato per taglio a secco di ferro e cemento armato, con corona a settori (8mm di altezza) saldati laser per garantire la massima sicurezza. Corpo in acciaio speciale fortemente scaricato per limitare la rumorosità e garantirne il raffreddamento; abbondante stradatura del settore diamantato sul corpo per impedire inceppamenti; diamante in granuli rivestiti al Titanio per prolungarne la durata e per massime performance su materiali ferrosi. Specifico per cemento, anche fortemente armato, materiali ferrosi, ghisa, mattoni refrattari, granito.

| Codice | Ø | Ø Foro | | € / cad. |
|---|---|---|---|---|
| LA00050200230DI | 230 mm | 22,2 mm | 1 | **202,49** |

## Disco diamantato DIA-CEMENT




### Caratteristiche

Disco diamantato per il taglio del cemento fresco, altamente abrasivo, con corona a settori (13mm di altezza). Corpo in acciaio speciale; diamante in pasta selezionato per i materiali più abrasivi; inserto in metallo duro a protezione della saldatura degli altri settori diamantati. Specifico per cemento fresco.

| Codice | Ø | Ø Foro centrale | Ø Foro trascinamento | Spessore | | € / cad. |
|---|---|---|---|---|---|---|
| LA0005020300DCF | 300 mm | 30 mm | 13 mm | 2,8 mm | 1 | **402,83** |
| LA0005020350DCF | 350 mm | 30 mm | 13 mm | 3,2 mm | 1 | **452,03** |

## Disco diamantato DIA-BITUMEN




### Caratteristiche

Disco diamantato specifico per il taglio dell'asfalto, con corona a settori (10mm di altezza). Corpo in acciaio speciale; settore speciale a protezione della saldatura degli altri settori diamantati; asole allungate per agevolare lo scarico; diamante in pasta selezionato per l'asfalto.

| Codice | Ø | Ø Foro centrale | Ø Foro trascinamento | | € / cad. |
|---|---|---|---|---|---|
| LA00050200350DB | 350 mm | 25,4 mm | 13 mm | 1 | **310,58** |
| LA00050200400DB | 400 mm | 25,4 mm | 13 mm | 1 | **412,05** |
| LA00050200450DB | 450 mm | 25,4 mm | 13 mm | 1 | **516,60** |

## Disco diamantato DIA-MET



### Caratteristiche

Disco diamantato specifico per il taglio a secco di metalli vari. Diamante selezionato per il taglio di materiali ferrosi, saldato Vacuum. Corpo in acciaio speciale; spessore ultrasottile (1,31,6mm). Eccezionale durata, mantiene il proprio diametro fino a fine vita; elevata rapidità di taglio, scintille e odori notevolmente ridotti rispetto all'utilizzo di dischi abrasivi.

| Codice | Ø | Ø Foro centrale | Spessore | | € / cad. |
|---|---|---|---|---|---|
| LA00050200115DM | 115 mm | 22,2 mm | 1,3 mm | 1 | **91,94** |
| LA00050200230DM | 230 mm | 22,2 mm | 1,6 mm | 1 | **159,59** |

# 6 SALDATURA



Saldatrici e aspiratori fumi     709-719

Accessori per saldatura     720-728

Spray linea Optimum    729-731

Prodotti chimici per saldatura    732-734

Caricabatterie ed avviatori     735-739

# Legenda simboli


funzione tampone autospegnimento


protezione da inversione di polarità


doppia ventilazione


termostato


amperometro analogico


pinze anti-shock

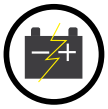


attacco torcia euro


accessori montati


vernice antigraffio


KIT ruote


carica lenta


carica veloce

## JET 150











### Caratteristiche

Saldatrice con tecnologia ad inverter, per saldatura MMA (processo che utilizza un arco elettrico che si forma tra un elettrodo rivestito e il pezzo da saldare). Leggera, compatta ed affidabile, assicura finezza ed accuratezza di lavoro, adatta per elettrodi rutilici, basici, inox, ghisa. Dotata delle seguenti funzioni: HOT START: all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio. Ventilata, verniciata con vernice antigraffio, adatta all'impiego con motogeneratori (tolleranza tensione ingresso +/- 15%). Fornita in valigetta

**Accessori inclusi:** maschera a mano, martospazzola, cavo con pinza di massa, cavo con pinza portaelettrodo.

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Potenza assorbita** | 60% - 2,6 KVA |
| **Tensione a vuoto** | 90V |
| **Campo di regolazione** | 25-135 A |
| **Fattore di servizio - servizio 20°C** | 15-135 Amp -- 135 @ 35% |
| **Elettrodi utilizzabili** | MMA Ø 1,6-3,25 mm |
| **Grado di protezione** | IP 21S |
| **Classe di isolamento** | H |




| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050150 | 350x200x280 mm | 6,7 kg | 1 | **396,00** |

## JET 170 ADVANCED









### Caratteristiche

Saldatrice con tecnologia ad inverter, per saldatura TIG LIFT e MMA (processo che utilizza un arco elettrico che si forma tra un elettrodo rivestito e il pezzo da saldare). Leggera, compatta ed affidabile, assicura finezza ed accuratezza di lavoro, adatta per elettrodi rutilici, basici, inox, ghisa. Dotata delle seguenti funzioni: HOT START: all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio. Dotata di protezione termostatica, ventilata, verniciata con vernice antigraffio, adatta all'impiego con motogeneratori (tolleranza tensione ingresso +/- 15%). Fornita in valigetta di alluminio con ruote.

**Accessori inclusi:** maschera a mano, martospazzola, cavo con pinza di massa, cavo con pinza portaelettrodo

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 60% - 2,6 KVA |
| **Potenza assorbita** | 90V |
| **Tensione a vuoto** | 25-160A |
| **Campo di regolazione** | 160A @ 20% MMA -- 160A @ 30% TIG |
| **Fattore di servizio - servizio 20°C** | TIG Ø 1,6-2,4 mm -- MMA Ø 1,6-4,0 mm |
| **Elettrodi utilizzabili** | IP 21S |
| **Grado di protezione** | H |
| **Classe di isolamento** | - |




| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050180 | 390x160x195 mm | 10,4 kg | 1 | **639,00** |

## JET 210




### Caratteristiche

Saldatrice con tecnologia ad inverter, per saldatura MMA (processo che utilizza un arco elettrico che si forma tra un elettrodo rivestito e il pezzo da saldare). Leggera, compatta ed affidabile, assicura finezza ed accuratezza di lavoro, adatta per elettrodi rutilici, basici, inox, ghisa. Dotata delle seguenti funzioni: HOT START: all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio. Ventilata, verniciata con vernice antigraffio, adatta all'impiego con motogeneratori (tolleranza tensione ingresso +/- 15%). Fornita in valigetta.

**Accessori inclusi:** maschera a mano, martospazzola, cavo con pinza di massa, cavo con pinza portaelettrodo.

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Potenza assorbita** | 8KVA - 60% |
| **Tensione a vuoto** | 90V |
| **Campo di regolazione** | 25-200A |
| **Fattore di servizio - servizio 20°C** | 40-200A -- 200A @ 100% |
| **Elettrodi utilizzabili** | 1,6-5 mm |
| **Grado di protezione** | IP 21S |
| **Classe di isolamento** | H |




| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050210 | 310x440x240 mm | 12 kg | 1 | **795,00** |





## JET PULSE



### Caratteristiche

Saldatrice con tecnologia ad inverter, per saldatura TIG DC, con innesco ad alta frequenza (HF) e funzione arco pulsato. La funzione HF facilita l'innesco dell'arco. La saldatrice è dotata anche delle funzioni TIG 2T/4T; è adatta anche ad effettuare la saldatura MMA di elettrodi rutilici, basici, inox, cellulosico, alluminio e ghisa. Dotata delle seguenti funzioni: HOT START (per saldatura MMA): all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio.

**Accessori inclusi:** maschera a mano, pinza massa polo negativo, torcia TIG con pulsante elettrovalvola, riduttore GAS, martospazzola



| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Potenza assorbita** | 60% - 3 KVA |
| **Tensione a vuoto** | 80V |
| **Campo di regolazione** | 10-200 Amp |
| **Fattore di servizio** | 30-200 Amp |
| **Grado di protezione** | IP 21S |
| **Fusibili di rete** | 32A |
| **Classe di isolamento** | H |




| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA00100300501DC | 555x235x400 mm | 15,6 kg | 1 | **1317,00** |

## WELD 210 TIG AC/DC




### Caratteristiche

Saldatrice inverter per saldatura TIG, TIG PULSATO e MMA in corrente continua e alternata AC/DC con innesco ad alta frequenza HF o LIFT ARC, controllata a microprocessore. La saldatura MMA in corrente continua DC consente di saldare, con moltissimi tipi di elettrodi, svariate qualità di metalli: rutili, basici, inox, ghisa, etc. Dotata delle seguenti funzioni: HOT START: all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio. MEMORIZZAZIONE PROGRAMMI: è possibile memorizzare le impostazioni delle modalità e dei parametri impostati sulla macchina per un utilizzo futuro. E' possibile memorizzare fino a 9 programmi; per la saldatura TIG i parametri sono regolabili. La saldatura TIG DC a corrente continua consente di saldare acciaio e acciaio inox, titanio, rame, bronzo, nichel, ottone. La Saldatura TIG AC a corrente alternata consente di saldare alluminio, magnesio e alluminio silicio. Saldatura TIG PULSE a corrente pulsata: si alternano la corrente principale (I Amp) e la corrente di base (% I). Particolarmente indicata per saldare spessori sottili dove è necessario un basso riscaldamento del pezzo, ed adatta a saldare in tutte le posizioni.

**Accessori inclusi:** pinza di massa, torcia TIG.

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Potenza assorbita** | MMA: 60% - 3,3 KVA<br>TIG: 6,0 KVA |
| **Tensione a vuoto** | MMA: 94V - TIG: 62V |
| **Campo di regolazione** | MMA: 10-160A - TIG: 5-210A |
| **Fattore di servizio-Servizio 40° C** | MMA: 35-160A - TIG: 35-210A |
| **Grado di protezione** | IP 21S |
| **Classe di isolamento** | H |
| **Elettrodi utilizzati** | Ø 1,6-4 mm |




| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005021T | 570x320x600 mm | 27,6 kg | 1 | **3204,00** |

## POLY UNICA



### Caratteristiche

Saldatrice monofase portatile per il taglio al plasma con innesco, ideale per il taglio veloce, senza deformazione, di materiali conduttori elettrici (metalli e leghe) attraverso l'uso di aria compressa. Macchina combinata per saldatura MMA, PLASMA e TIG LIFT, dotata di funzione VRD in MMA. Dotata delle seguenti funzioni: HOT START (per saldatura MMA): all'innesco viene fornita una corrente più alta per facilitare l'innesco dell'arco; ARC FORCE: viene erogata una corrente più elevata rispetto a quella impostata per evitare che l'elettrodo, avvicinandosi troppo velocemente alla zona di fusione, si incolli; ANTI STICK: viene ridotta la corrente di saldatura se si genera un cortocircuito permanente, per permettere di rimuovere l'elettrodo e riprendere la normale condizione di esercizio. Ventilata, dotata di regolatore di pressione aria, VRD, arco pilota; verniciata con vernice antigraffio.

**Accessori inclusi:** pinza massa, pinza portaelettrodo, torcia plasma.

| | MMA | PLASMA | TIG |
|---|---|---|---|
| **Tensione di rete** | 230V | 230V | 230V |
| **Frequenza** | 50-60Hz | 50-60Hz | 50-60Hz |
| **Potenza assorbita** | 60%-3,3KVA 5KVA max | 60%-2KVA 4KVA max | 60%-2KVA 4KVA max |
| **Tensione a vuoto** | 90V | 460V | 90V |
| **Campo di regolazione** | 25-140A | 5-30A | 25-160A |
| **Fattore di servizio** | 15-140A | 30-35A | 15-160A |
| **Grado di protezione** | IP 21S | IP 21S | IP 21S |
| **Classe di isolamento** | H | H | H |
| **Spessore** | Ø 1,6-4 mm (elettrodo) | Ø 8 mm (taglio) | Ø 1,6-3,2 mm (elettrodo) |













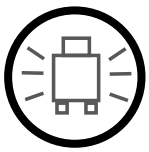










**V.R.D**
VOLTAGE REDUCTION
DEVICE ON BOARD

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005000P | 545x300x385 mm | 9,9 kg | 1 | **1569,00** |

## JET MIG 180



### Caratteristiche

Saldatrice per saldatura MIG-MAG-MOG (GAS-NOGAS) (MIG GAS: il materiale usato e un metallo sotto forma di filo e il disossidante e un gas, generalmente $CO_2$, Argon o $CO_2$ + Argon. MIG NO Gas: il filo contiene all'interno il disossidante). Adatta per filo di acciaio, acciaio inox, alluminio e filo animato

**Accessori inclusi:** maschera a mano, martospazzola, cavo con pinza di massa, torcia (3 mt) e riduttore di pressione.

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza - Fase** | 50-60Hz -- 1PH |
| **Potenza assorbita** | 3,6 KVA - 60% |
| **Tensione a vuoto** | 21-31V |
| **Campo di regolazione** | 25-160A |
| **Fattore di servizio 40°C** | 15/160A - 60/92A |
| **Acciaio - Acciaio inox** | 0,6-0,8 mm -- 0,8 mm |
| **Filo Animato - Alluminio** | 0,8-1,0 mm -- 0,8 mm |
| **Grado di protezione** | IP 21S |
| **Classe di isolamento** | H |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005180M | 560x 370x380 mm | 35 kg | 1 | **792,00** |

## MULTIPOLY 250




### Caratteristiche

Saldatrice inverter multiprocesso (MIG-MIG/PULSE-MIG/ NO-GAS-MAG-TIGDC-MMA) controllata a microprocessore, con trainafilo integrato. Flessibilità di impiego con diversi tipi di materiali quali acciaio, acciaio inox, leghe. Regolazioni, tempo di pre-gas, rampa, burn-back, frequenza ed ampiezza della pulsazione. Selettore a chiavi per l'utilizzosu impianti elettrici di 3KW.

**Accessori inclusi:** maschera a mano, martospazzola, cavo con pinza di massa, pinza portaelettrodo, torcia e riduttore di pressione.

| | MMA | MIG | TIG |
|---|---|---|---|
| **Tensione di rete** | 230/400V | 230/400V | 230/400V |
| **Frequenza** | 50-60Hz | 50-60Hz | 50-60Hz |
| **Fase** | 1PH/2PH+N | 1PH/2PH+N | 1PH/2PH+N |
| **Potenza assorbita** | 5KVA-60% | 3,8KVA-60% | 4,5KVA-60% |
| **Tensione a vuoto**<br>**Campo di regolazione** | 100V - 20-200A | 60V - 20-240A | 60V - 35-220A |
| **Elettrodi**<br>**Acciaio**<br>**Acciaio inox**<br>**Filo animato** | 1,6-5,0 mm<br>-<br>-<br>- | -<br>0,8-1,0 mm<br>0,8-1,0 mm<br>0,8-0,9 mm | -<br>-<br>-<br>- |
| **Fattore di servizio 40°C**<br>**Servizio 20°C** | 20-200A<br>200A@35% | 20-240A<br>240A@35% | 20-220A<br>220A@35% |
| **Grado di protezione** | IP 21S | IP 21S | IP 21S |
| **Classe di isolamento** | H | H | H |






| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA00100300500MP | 930x265x760 mm | 41,2 kg | 1 | **2019,00** |

## WELD PLASMA COMP




### Caratteristiche

Saldatrice per il taglio al plasma. Taglia tutti i metalli, anche particolarmente duri, che conducono elettricità: ferro, inox, alluminio, ottone, rame. Arco di taglio dolce e stabile, taglia fino a 10mm; garantisce bassi assorbimenti di corrente. Dotata di COMPRESSORE INTEGRATO, con torce SAFETY SYSTEM. Adatta all'impiego con motogeneratori (tolleranza ingresso +/- 30%).

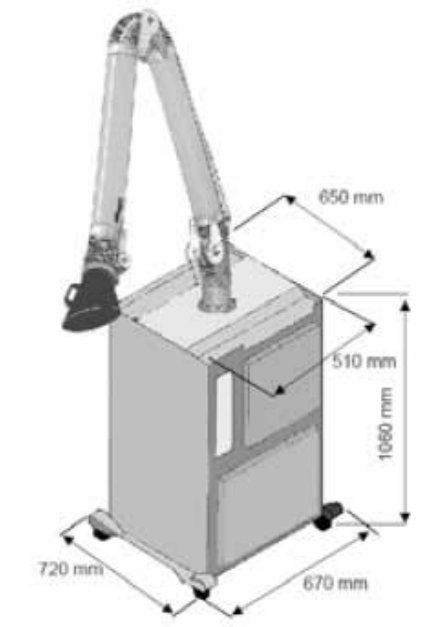
**Accessori inclusi:** pinza massa, torcia plasma, riduttore GAS.

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Potenza assorbita** | 60% - 3,2 KVA |
| **Tensione a vuoto** | 312V |
| **Campo di regolazione** | 15-40A |
| **Fattore di servizio-Servizio 40° C** | 15-40A |
| **Grado di protezione** | IP 21S |
| **Classe di isolamento** | H |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA00100300500PL | 60x35x42 mm | 24 kg | 1 | **1698,00** |

## Unità carrellata per l'aspirazione e filtrazione di fumi di saldatura






### Caratteristiche

Unità carrellata per l'aspirazione e la filtrazione di fumi di saldatura, in impieghi poco gravosi. Equipaggiata con una batteria di 4 filtri in sequenza per filtrare meccanicamente e deodorare il fumo aspirato; braccio articolato da 3mt - Ø 160mm incluso; capacità di filtrazione 95%; portata massima 1.400 $m^3/h$; superficie filtrante 1,03 $m^2$; motore 1,5 HP 400V 50 Hz peso 65 kg. Agile, maneggevole e performante.

| Codice | Portata massima | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|---|
| SA001002000140A | 1400 $m^3/h$ | 670x1060x720 mm | 65 kg | 1 | **3789,00** |

## Unità portatile per l'aspirazione e filtrazione di fumi di saldatura leggera o a stagno



### Caratteristiche

Unità portatile per l'aspirazione e la filtrazione di fumi di saldatura leggera o a stagno. Equipaggiata con cartuccia filtrante, carboni attivi e cavo di collegamento. Portata massima 140 $m^3/h$; braccio articolato da 3mt - Ø 160mm incluso; capacità di filtrazione 99%; superficie filtrante 1,03 $m^2$; motore 230V 50 Hz. Ideale per lavori a banco e di precisione.

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA00100200140AP | 534x342x280 mm | 20 kg | 1 | **1605,00** |

## Kit aspirazione




### Caratteristiche

Kit di aspirazione fumi di saldatura, composto da un braccio articolato in varie lunghezze e da un aspiratore in lamiera d'acciaio direttamente accoppiato. Utile per coprire una o due zone di lavoro ravvicinate.

| Codice | HP | Ø tubo | Lunghezza tubo | | € / cad. |
|---|---|---|---|---|---|
| SA001002001531B | 1,5 | 150 mm | 3,3 mt | 1 | **2205,00** |
| SA001002001541B | 1,5 | 150 mm | 4,2 mt | 1 | **2259,00** |
| SA001002001532B | 2 | 200 mm | 3,3 mt | 1 | **2385,00** |

## Kit aspirazione ed evacuazione



### Caratteristiche

Kit per l'aspirazione e l'evacuazione di esalazioni e odori nocivi nell'ambiente di lavoro (acidi batterie); dotato di cappa in vetroresina (1000x1200mm), flessibile di collegamento Ø 120mm ed elettroaspiratore in fusione; lunghezza tubo flessibile 5mt, 0,75HP, 0,55Kw.

| Codice | Ø tubo | Lunghezza tubo | | € / cad. |
|---|---|---|---|---|
| SA00100200005KA | 120 mm | 5 mt | 1 | **2508,00** |

## Filo pieno per saldatura




### Caratteristiche

Filo pieno ramato per la saldatura sotto protezione di gas $CO_2$ o miscela di Ar/$CO_2$ di acciai al carbonio, acciai al manganese e similari, anche a grana fine.
Caratterizzato da elevato rendimento, buona operatività anche in posizione, bassa emissione di spruzzi, ridotta quantità di silicati ed eccellente estetica del cordone.

- Classificazioni: AWS A5.18: ER70S-6 -- EN ISO 14341-A: G 42 2 M G3 Si1

- Campi di utilizzo: carpenteria in genere, cantieristica navale, recipienti in pressione e ad alta temperatura, materiale rotabile.

| Codice | Imballo | Ø | Peso | Parametri di saldatura | | € / cad. |
|---|---|---|---|---|---|---|
| SA0200301000816 | bobina in gabbia metallica | 0,8 mm | 16 kg | 60-200 | 1 | a richiesta |
| SA0200301001016 | bobina in gabbia metallica | 1 mm | 16 kg | 80-300 | 1 | |
| SA0200301001216 | bobina in gabbia metallica | 1,20 mm | 16 kg | 120-380 | 1 | |
| SA0200301010250 | fusto | 1 mm | 250 kg | 80-300 | 1 | |
| SA0200301012250 | fusto | 1,20 mm | 250 kg | 120-380 | 1 | |
| SA0200301008100 | bancale | 0,8 mm | 1000 kg | 60-200 | 1 | |
| SA0200301010100 | bancale | 1 mm | 1000 kg | 80-300 | 1 | |
| SA0200301012100 | bancale | 1,20 mm | 1000 kg | 120-380 | 1 | |

## Elettrodi rutilici AWS: E6013




### Caratteristiche

Elettrodi rutilici, indicati per costruzioni in ferro, su lamiere sottili, lamiere zincate o elettrozincate, nei settori della carpenteria leggera, carrozzeria, fabbri, manutenzione ed hobbistica.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SA00100300253ER | Ø 2,5x300 mm | 303 | **23,76** |

## Kit torcia TIG



### Caratteristiche

Kit saldatura TIG, per saldatrice ad inverter JET 170 GE, composto da: torcia TIG, riduttore GAS, tubo GAS, bomboletta Argon, elettrodo al tungsteno, morsetto serra elettrodo, diffusore elettrodo, ugello in ceramica

| Codice | | € / cad. |
|---|---|---|
| SA001003005000T | 1 | **192,00** |

## Kit cavi per saldatrici JET



### Caratteristiche

Kit cavi per saldatrici JET, diametro 25 mm, lunghezza 3+2 mt.

| Codice | Ø | Lunghezza | | € / cad. |
|---|---|---|---|---|
| SA00100300521KT | 25 mm | 3+2 mt | 1 | **89,70** |

## WELD TROLLEY



### Caratteristiche

Valigia in alluminio con ruote per saldatrici ad inverter JET 170 GE, JET 150 e JET PULSE.

| Codice | | € / cad. |
|---|---|---|
| SA001003005018V | 1 | **120,00** |

## WELD MASK




### Caratteristiche

Maschera professionale di protezione per saldatura con display a cristalli liquidi (LCD). Oscurità variabile DIN 9-13, classificazione CE 1/1/1/2, superficie di visione 89x40mm, protezione UV/R fino a DIN 16.

| Codice | Peso | | € / cad. |
|---|---|---|---|
| SA001003005000M | 435 gr | 1 | **95,00** |

## Tende di saldatura



### Caratteristiche

Tende di saldatura conformi alla Norma Europea DIN EN ISO 25980:2015-01 (ex EN-1598). Completamente orlate sui quattro lati, 7 occhielli forati in PVC su un lato, bottoni a pressione su due lati, 7 ganci metallici di sospensione inclusi. Ideali per la protezione contro le luci di saldatura nocive (saldatura ad arco). Resistenza alla temperatura fino a 80°C circa. Larghezza standard 140 cm. Disponibili nei colori Orange-CE e Green-9.

| Codice | Dimensione HxL | Colore | | € / cad. |
|---|---|---|---|---|
| SA001004001614G | 160x140 cm | Green-9 | 1 | **54,00** |
| SA001004001614O | 160x140 cm | Orange-CE | 1 | **54,00** |
| SA001004001814G | 180x140 cm | Green-9 | 1 | **57,15** |
| SA001004001814O | 180x140 cm | Orange-CE | 1 | **57,15** |
| SA001004002014G | 200x140 cm | Green-9 | 1 | **60,40** |
| SA001004002014O | 200x140 cm | Orange-CE | 1 | **60,40** |

## Schermi di saldatura LIGHT SCREEN



### Caratteristiche

Schermi di saldatura completi di tenda, con telaio zincato. Disponibili nella versione LIGHT SCREEN: leggero, ideale per utilizzo frequente in spazi di lavoro ristretti, dotato di tenda con cuciture superiori e inferiori aperte; e nella versione MULTI SCREEN: struttura robusta con 4 ruote Ø 50mm (due con freno), ideale per utilizzo in condizioni di lavoro difficili, con anelli di sospensione in plastica.

| Codice | Dimensione HxL | Colore | | € / cad. |
|---|---|---|---|---|
| SA001004002020G | 200x200 cm | Green-9 | 1 | **178,70** |
| SA001004002020O | 200x200 cm | Orange-CE | 1 | **178,70** |

## Schermi di saldatura MULTI SCREEN



### Caratteristiche

Schermi di saldatura completi di tenda, con telaio zincato. Disponibili nella versione LIGHT SCREEN: leggero, ideale per utilizzo frequente in spazi di lavoro ristretti, dotato di tenda con cuciture superiori e inferiori aperte; e nella versione MULTI SCREEN: struttura robusta con 4 ruote Ø 50mm (due con freno), ideale per utilizzo in condizioni di lavoro difficili, con anelli di sospensione in plastica.

| Codice | Dimensione HxL | Colore | | € / cad. |
|---|---|---|---|---|
| SA001004002021G | 200x215 cm | Green-9 | 1 | **444,60** |
| SA001004002021O | 200x215 cm | Orange-CE | 1 | **444,60** |

## Coperte di saldatura ALU BASIC



### Caratteristiche

Coperte di saldatura in panno di fibra di vetro (a filamento), con rivestimento in PU su un lato. Leggere (460 gr/m2), adatte per utilizzo in verticale, per saldature leggere e lavorazioni a temperature non elevate. Resistenti alla temperatura fino a 550°C. Ottimo rapporto qualità / prezzo.

| Codice | Dimensione HxL | Spessore | | € / cad. |
|---|---|---|---|---|
| SA001004001020B | 100x200 cm | 0,43 mm | 1 | **63,45** |
| SA001004002020B | 200x200 cm | 0,43 mm | 1 | **116,00** |

## Coperte di saldatura STRONG



### Caratteristiche

Coperte di saldatura in panno di fibra di vetro (testurizzata), con pesante rivestimento in PU e grafite su due lati. Struttura molto pesante e resistente (1.100 gr/m2). Adatte per utilizzo in orizzontale, per saldature pesanti e lavorazioni a temperature

| Codice | Dimensione HxL | Spessore | | € / cad. |
|---|---|---|---|---|
| SA001004001020S | 100x200 cm | 1,50 mm | 1 | **114,30** |
| SA001004002020S | 200x200 cm | 1,50 mm | 1 | **247,65** |

## Occhiali WELD-PLUS



### Caratteristiche

Filtro per saldatura a gas PC DIN 5, montatura confortevole ed ergonomica, astine di colore verde scuro trasparenti per avere migliore luminosità in ambienti oscuri, e con piccole prese d'aria per permettere un piccolo ricambio di aria in condizioni di forti esposizioni a fonti di calore; grado di protezione: F; T resistenza alla temperatura: da -5°C a +55°C; settori di utilizzo: industria generica e industria metallurgica, utilizzabili specificatamente durante lavori di saldatura a gas e tecniche affini.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101FLD5HW01 | PC-UV tested | CE EN 166 - EN 169 | 1 | **11,63** |

## Calzatura RUTILIO



### Caratteristiche

| | |
|---|---|
| **Tipologia** | S3 SRC HRO |
| **Certificazione** | UNI EN ISO 20345:2012 |
| **Tomaia** | Pelle traspirante idrorepellente |
| **Fodera** | Tessuto PLASMAFEEL |
| **Soletta** | Termoformata Fusstatic estraibile, antibatterica e assorbente |
| **Suola** | Poliuretano bidensità |
| **Puntale** | Composito multistrato (200J) |
| **Lamina** | Composito PERFORAZIONE ZERO |
| **Settore di utilizzo** | Metalmeccanico, industria pesante (acciaierie, saldatura, ecc...) |

| Codice | Misura | | € / cad. |
|---|---|---|---|
| ANRUT0010100038 | 38 | 1 | **99,00** |
| ANRUT0010100039 | 39 | 1 | **99,00** |
| ANRUT0010100040 | 40 | 1 | **99,00** |
| ANRUT0010100041 | 41 | 1 | **99,00** |
| ANRUT0010100042 | 42 | 1 | **99,00** |
| ANRUT0010100043 | 43 | 1 | **99,00** |
| ANRUT0010100044 | 44 | 1 | **99,00** |
| ANRUT0010100045 | 45 | 1 | **99,00** |
| ANRUT0010100046 | 46 | 1 | **99,00** |
| ANRUT0010100047 | 47 | 1 | **99,00** |
| ANRUT0010100048 | 48 | 1 | **99,00** |

## Strettoio a vite modello base



### Caratteristiche

Strettoio a vite modello base con manico ad astina, in acciaio, cappuccio tornito.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT001005001260S | 120x60 mm | 1 | **22,03** |
| UT001005001680S | 160x80 mm | 1 | **25,31** |
| UT001005002010S | 200x100 mm | 1 | **30,31** |
| UT001005002512S | 250x120 mm | 1 | **36,72** |
| UT001005003014S | 300x140 mm | 1 | **41,88** |
| UT001005004012S | 400x120 mm | 1 | **46,72** |
| UT001005005012S | 500x120 mm | 1 | **49,84** |
| UT001005006012S | 600x120 mm | 1 | **53,13** |
| UT001005008012S | 800x120 mm | 1 | **70,31** |
| UT001005001012S | 1000x120 mm | 1 | **82,19** |
| UT001005001212S | 1250x120 mm | 1 | **101,40** |

## Strettoio a vite medio pesante



### Caratteristiche

Strettoio a vite medio pesante, con manico ad astina totalmente in acciaio, cappuccio di pressione tornito in tre pezzi.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT00100502512SM | 250x120 mm | 1 | **88,44** |
| UT00100503012SM | 300x140 mm | 1 | **95,63** |
| UT00100504012SM | 400x120 mm | 1 | **101,25** |
| UT00100505014SM | 500x140 mm | 1 | **107,34** |
| UT00100506012SM | 600x120 mm | 1 | **122,03** |
| UT00100508014SM | 800x140 mm | 1 | **136,72** |
| UT00100501012SM | 1000x120 mm | 1 | **147,97** |
| UT00100501212SM | 1250x120 mm | 1 | **176,88** |
| UT00100501512SM | 1500x120 mm | 1 | **197,03** |

## Strettoio a leva rapida



### Caratteristiche

Strettoio a leva rapida, con dentatura fine, totalmente in acciaio; cappuccio di pressione piano, mobile; Impugnatura ergonomica in corpo unico.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT00100501260SL | 120x60 mm | 1 | **54,53** |
| UT00100501680SL | 160x80 mm | 1 | **60,78** |
| UT00100502010SL | 200x100 mm | 1 | **71,41** |
| UT00100502512SL | 250x120 mm | 1 | **86,09** |
| UT00100503014SL | 300x140 mm | 1 | **95,63** |
| UT00100504012SL | 400x120 mm | 1 | **99,06** |
| UT00100505012SL | 500x120 mm | 1 | **102,97** |
| UT00100506012SL | 600x120 mm | 1 | **108,59** |
| UT00100508012SL | 800x120 mm | 1 | **119,06** |
| UT00100501012SL | 1000x120 mm | 1 | **138,28** |

## Goniometro magnetico



### Caratteristiche

Goniometro magnetico per realizzare saldature ad angoli predefiniti; la dima mantiene scatolati e tubolari magneticamente ad angolazioni prefissate.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000003 | 1 | **16,25** |

## Optimum, solvente e pulitore HD




### Caratteristiche

Utilizzabile prima, durante e dopo la ricerca di cricche. Utilizzo con liquidi penetranti: il prodotto può essere utilizzato sia nella fase di preparazione dell'ispezione, sia nella fase di asportazione del penetrante in eccesso, sia nella pulizia finale per rimuovere il Rivelatore. Utilizzo con Liquidi Magnetici : il prodotto può essere utilizzato sia nella fase di preparazione dell'ispezione, sia nella pulizia finale per rimuovere la Lacca Bianca di Contrasto e il Liquido/ Spray Magnetico. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007001S | 400 ml | 1 | **15,60** |

## Optimum, penetrante rosso HD




### Caratteristiche

Per la ricerca di difetti, imperfezioni e cricche in saldatura. Da utilizzare dopo la fase di pulizia preliminare con il Solvente e Pulitore. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007002R | 400 ml | 1 | **19,60** |

## Optimum, rivelatore bianco HD




### Caratteristiche

Utilizzabile dopo il Penetrante Rosso per evidenziare le cricche trovate. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007003B | 400 ml | 1 | **18,40** |

## Optimum, liquido magnetico nero HD




### Caratteristiche

Per l'individuazione di cricche, difetti e imperfezioni; da utilizzare dopo l'applicazione della Lacca Bianca di contrasto. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800102007002M | 400 ml | 1 | **23,20** |

## Optimum, lacca bianca di contrasto




### Caratteristiche

Utilizzabile dopo la fase di pulizia preliminare con il Solvente e Pulitore per aumentare il contrasto dello spray Magnetico Nero. Certificata CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800102007001L | 400 ml | 1 | **18,20** |

## Optimum, penetrante fluorescente liquido




### Caratteristiche

Per la ricerca di difetti, imperfezioni e cricche in saldatura; da utilizzare dopo la fase di pulizia preliminare con il Solvente e Pulitore. Colore giallo-fluorescente. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800103007001F | 5 lt | 1 | **252,00** |

## Optimum, magnetico fluorescente liquido




### Caratteristiche

Per l'individuazione di cricche, difetti e imperfezioni. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH80010300701FM | 5 lt | 1 | **145,40** |

## Optimum, rivelatore fughe gas




### Caratteristiche

Per la rapida individuazione delle fughe di gas. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8000010070010 | 300 gr | 1 | **19,60** |

## DEKA GEL decapante gel




### Caratteristiche

Decapante in gel per applicazioni a pennello, indicato per acciaio inox. Rimuove gli ossidi di saldatura. Pronto all'uso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040010005 | 5 kg | 1 | **45,90** |
| CH8001040010010 | 10 kg | 1 | **88,80** |
| CH8001040010030 | 30 kg | 1 | **256,80** |

## DEKA GEL TOP gel altamente decapante




### Caratteristiche

Gel altamente decapante per applicazioni a pennello, indicato per acciaio inox. Rimuove gli ossidi di saldatura. Pronto all'uso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040020005 | 5 kg | 1 | **55,20** |
| CH8001040020010 | 10 kg | 1 | **107,10** |
| CH8001040020030 | 30 kg | 1 | **312,00** |

## DEKA FLUID decapante liquido concentrato




### Caratteristiche

Decapante liquido concentrato, indicato per acciaio inox. Rimuove gli ossidi di saldatura. Da utilizzare diluito in acqua (rapporto 1:1). Non contiene acido nitrico.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040030025 | 25 kg | 1 | **198,00** |

## DEKA PASTE decapante in pasta




### Caratteristiche

Decapante in pasta per applicazioni a pennello, indicato per superfici scure. Rimuove gli ossidi di saldatura. Pronto all'uso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040040005 | 5 kg | 1 | **43,80** |
| CH8001040040010 | 10 Kg | 1 | **84,00** |

## INOX PRO GEL passivante gel




### Caratteristiche

Passivante in gel per applicazioni a pennello, indicato per acciaio inox. Consente la passivazione superficiale del pezzo trattato, aumentandone la resistenza alla corrosione e conferendo un ottimo aspetto estetico. Pronto all'uso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040050030 | 30 kg | 1 | **228,00** |

## DEKA CLEAN sgrassante e disossidante liquido




### Caratteristiche

Sgrassante e disossidante liquido inorganico, concentrato. Pulisce le superfici rimuovendo impurità e leggeri strati di ossidazione, e le prepara per successivi trattamenti. Da utilizzare diluito in acqua (rapporto da 1:1 a 1:3).

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8001040060025 | 25 kg | 1 | **271,50** |

## BISOL DUE




### Caratteristiche

BISOL DUE è un composto formato da agenti lubrificanti ed antiadesivi specifici, additivati con bisolfuro di molibdeno, atti a prevenire il grippaggio tra le superfici a contatto sottoposte a condizioni di temperatura e pressione elevate. È un valido antiadesivo per torce di saldatura. BISOL DUE è una buona alternativa alla grafite ed è esente da siliconi. Applicazioni: BISOL DUE può essere utilizzato nell'industria meccanica e metalmeccanica in genere, qualora venga richiesto un prodotto che debba soddisfare le specifiche prestazioni di lubrificazione ed antiadesività. Utilizzato anche nella carpenteria meccanica e navale per prevenire l'adesione delle particelle metalliche all'ugello della torcia delle saldatrici a filo continuo.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9140010100000 | 400 ml | 1 | **11,12** |

## DISTAK NO-SIL




### Caratteristiche

DISTAK NO-SIL isola e protegge le superfici rendendole antiadesive, ma idonee a ricevere successive operazioni di verniciatura, cromatura e serigrafia. Applicazioni: DISTAK NO-SIL trova impiego nell'industria delle materie plastiche, come distaccante per gli stampi e nel campo della saldatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9230010100000 | 400 ml | 1 | **9,16** |
| CH9230010100030 | 30 Kg | 1 | **428,24** |

## ANTI SALD




### Caratteristiche

ANTI SALD evita l'adesione di scorie e gocce di saldatura su qualsiasi supporto. Protegge da ossidi e corrosioni e non contiene silicone. Applicazioni: ANTI SALD è idoneo per saldature autogene, elettriche ed a base di gas inerti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9350010200000 | 400 ml | 1 | **8,28** |

## EASY CHARGER

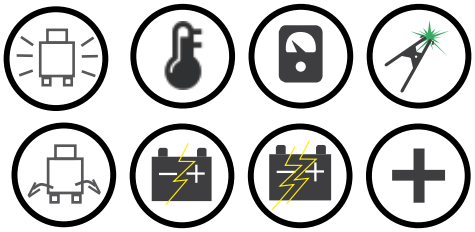



### Caratteristiche

Caricabatterie semplice ed affidabile, con termica a ripristino manuale. Indicato per batterie da 40/120 Ah.

Pb

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12/24V |
| **Potenza assorbita** | 180W |
| **Corrente efficace** | 12,2A |
| **Corrente media (EN60335)** | 9,8A |
| **Capacità nominale** | 40/120Ah |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050011 | 260x260x155 mm | 4,6 kg | 1 | **85,80** |

## INVERTER CHARGER

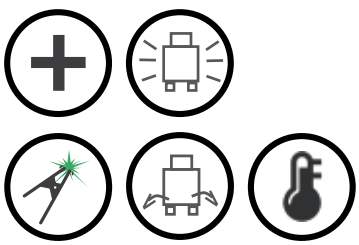



### Caratteristiche

Caricabatterie a tecnologia inverter a 7 stadi automatici, con autospegnimento e funzione tampone. Ideale per la ricarica di batterie di moto e auto.

Pb Agm Pb/Ca Gel

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12V |
| **Potenza assorbita** | 307W |
| **Corrente efficace** | 10,2A |
| **Grado di protezione** | IP 20 |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050021 | 265x150x70 mm | 1,3 kg | 1 | **140,70** |

## MULTI CHARGER 200




### Caratteristiche

Avviatore portatile ultracompatto di emergenza a 12V multifunzione per moto, auto, camper, motori marini, etc. Utilizza celle a polimeri di litio LiPo ad alta efficienza che consentono una ricarica completa e veloce, costantemente monitorata da una serie di led. Dotato di 2 uscite USB (1A-2,1A) per la carica (power bank) di dispositivi elettronici (tablet, smartphone, MP3, macchine fotografiche, etc) e di 2 uscite a 12/19V per l'alimentazione di laptop ed altri dispositivi. Con sorgente luminosa, lama taglia cintura, martellino spacca vetro, protezione contro inversioni di polarità. Completo di cavi di avviamento fino a 3000CC benzina e 2800CC diesel, vari connettori per dispositivi mobili spina accendisigari, alimentatore di rete e pratica custodia. Capacità batteria 16800 mAh.

| | |
|---|---|
| **Tensione di rete** | 100/240VAC |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Uscita** | USB 5V/2A 12V/2A 19V/3,5A |
| **Tensione di carica** | 12V/1A |
| **Avviamento** | 12V/200A 300A peak |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005007T | 265x190x55 mm | 1,1 kg | 1 | **273,00** |



Custodia



Cavi connessione USB



Caricatore per auto



Caricatore per PC



Cavi batteria



Cavo alimentazione

## BOOSTER




### Caratteristiche

Avviatore multifunzione con batteria al litio; avviatore d'emergenza per vetture a benzina di piccola e media cilindrata fino a 1900CC, gommoni e moto con batteria 12V. Caricabatteria per dispositivi mobili con cavo di ricarica collegabile ad ingresso USB 5V. Dotato di luce d'emergenza a tre livelli (fisso, lampeggiante, SOS) e dispositivo elettronico contro inversione di polarità e cortocircuito. Capacità batteria 12000 mAh.

| | |
|---|---|
| **Tensione di rete** | 100/240VAC |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Uscita** | USB 5V/1A DC 130A/12V 200A peak |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005004T | 265x190x55 mm | 0,3 kg | 1 | **168,00** |



Custodia



Cavi batteria



Cavi connessione USB



Cavo alimentazione

## CHARGER&STARTER




### Caratteristiche

Caricabatterie ed avviatore professionale 12/24V, ideale per la carica di batterie ad elevato amperaggio; con tre regolazioni. Adatto a batterie da 60/180 Ah.

Pb

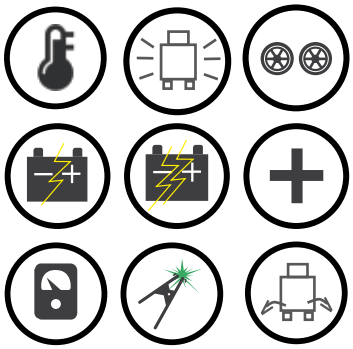
| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 12/24V |
| **Tensione di carica** | 1PH |
| **Potenza assorbita MAX** | Carica: 32A -- Avviamento: 5,3KW |
| **Corrente efficace 24V** | Carica: 25A -- Avviamento: 180A |
| **Corrente efficace 12V** | Carica: 25A -- Avviamento: 210A |
| **Corrente media** | 24V Carica: 22A -- 12V Carica: 18A |
| **Corrente convenzionale** | 24V Avviamento: 120A<br>12V Avviamento: 140A |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005001T | 380x335x245 mm | 8,7 kg | 1 | **273,00** |

## PRO CHARGER



### Caratteristiche

Caricabatterie semiprofessionale 12/24V, con tre regolazioni, ideale per la carica di batterie da 75/300 Ah, ed avviatore per uso non professionale.

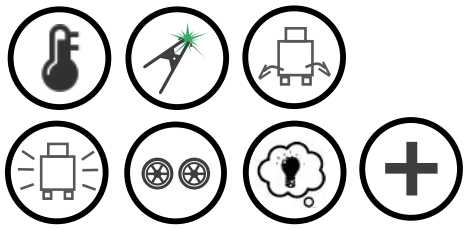
Pb

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12/24V |
| **Potenza assorbita MAX** | Carica: 1,1KW -- Avviamento: 6KW |
| **Corrente efficace 24V** | Carica: 47A -- Avviamento: 250A |
| **Corrente efficace 12V** | Carica: 63A -- Avviamento: 285A |
| **Corrente media 24V** | Carica: 30A |
| **Corrente media 12V** | Carica: 40A |
| **Corrente convenzionale 24V** | Avviamento: 160A |
| **Corrente convenzionale 12V** | Avviamento: 180A |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005002T | 320x215x620 mm | 29 kg | 1 | **396,00** |

## TOP CHARGER



### Caratteristiche

Caricabatterie ventilato professionale 1PH, 12/24V, con microprocessore, ideale per la carica di batterie Pb, PbCalcio, Gel; dotato di fine carica. Avviatore con protezione per centraline elettroniche.

Pb Pb/Ca Gel

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12/24V |
| **Potenza assorbita 24V** | Carica: 1,1KW -- Avviamento: 5,5KW |
| **Potenza assorbita 12V** | Carica: 0,6KW -- Avviamento: 3,2KW |
| **Corrente efficace 24V** | Carica: 56A -- Avviamento: 250A |
| **Corrente efficace 12V** | Carica: 56A -- Avviamento: 285A |
| **Corrente media 24V (EN60335)** | Carica: 40A |
| **Corrente media 12V (EN60335)** | Carica: 40A |
| **Corrente convenzionale 24V** | Avviamento: 160A |
| **Corrente convenzionale 12V** | Avviamento: 180A |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005003T | 350x240x710 mm | 17,7 kg | 1 | **732,00** |

## TOP CHARGER 1200




### Caratteristiche

Caricabatterie ventilato professionale 1PH, 12/24V, con microprocessore, ideale per la carica di batterie Pb, PbCalcio, Gel; dotato di fine carica. Avviatore con protezione per centraline elettroniche.

Pb Pb/Ca Gel

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12/24V |
| **Potenza assorbita 24V** | Carica: 0,86KW -- Avviamento: 7,8KW |
| **Potenza assorbita 12V** | Carica: 1,6KW -- Avviamento: 4,6KW |
| **Corrente efficace 24V** | Carica: 70A -- Avviamento: 350A |
| **Corrente efficace 12V** | Carica: 70A -- Avviamento: 410A |
| **Corrente media 24V (EN60335)** | Carica: 70A |
| **Corrente media 12V (EN60335)** | Carica: 50A |
| **Corrente convenzionale 24V** | Avviamento: 230A |
| **Corrente convenzionale 12V** | Avviamento: 250A |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA001003005006T | 350x240x710 mm | 22 kg | 1 | **915,00** |

## AUTO CHARGER



### Caratteristiche

Caricabatterie e mantenitore intelligente, con controllo elettronico della corrente di carica, interruzione e ripristino automatico. Carica automatica di tutte le batterie ermetiche senza manutenzione (GEL/AGM/ Pd, Pb/Ca) a 12V e 24V di motoveicoli, autoveicoli, furgoni, trattori, barche. Pinze completamente isolate. Segnalazione a led della carica, fine carica, intervento protezione corto-circuito uscita o inversione polarità. Fornito con 3 diversi tipi di cavi di carica.

Pb Agm Pb/Ca Gel

| | |
|---|---|
| **Tensione di rete** | 230V |
| **Frequenza** | 50-60Hz |
| **Fase** | 1PH |
| **Tensione di carica** | 12/24V |
| **Potenza assorbita** | 110W |
| **Corrente media 12V (EN60335)** | 6A |
| **Corrente media 24V (EN60335)** | 3A |
| **Grado di protezione** | IP 65 |



| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| SA0010030050051 | 265x150x65 mm | 0,8 kg | 1 | **126,60** |

# 7 ATTREZZATUREOFFICINA



| | | |
|---|---|---|
| Lame |  | 742-791 |
| Morse da banco |  | 792-794 |
| Strettoi |  | 795-796 |
| Accessori magnetici |  | 796-798 |
| Punte SDS ed accessori, estrattori conici, levapunti |  | 799-811 |
| Attrezzature per aspirazione fumi |  | 811-812 |
| Vasche lavapezzi |  | 813-814 |
| Presse |  | 815-821 |
| Molle a gas |  | 822-830 |
| Rampe di carico |  | 831-832 |

# Guida alla scelta della lama

## Sviluppo, altezza e spessore della lama

La dimensione della lama dipende dalla segatrice che si utilizza. Per una corretta selezione della lama più adatta, è necessario consultare quindi il manuale tecnico di utilizzo della segatrice stessa.

## Qualità

Le lame a nastro Ttake vengono proposte con due tipi di materiali del tagliente: bimetallico e metallo duro. La scelta della qualità del nastro da impiegare dipende principalmente dal materiale che si intende tagliare. In particolare, le principali caratteristiche del materiale da considerare sono la durezza (intesa come resistenza all'asportazione del truciolo) e la configurazione.

## Dentatura

La scelta della dentatura corretta è determinata dalla sezione e dalla configurazione del pezzo da tagliare. Normalmente la dentatura costante (i denti presentano una geometria uniforme e si susseguono con la medesima spaziatura) viene utilizzata per il taglio di sezioni piene o, comunque, regolari (3, 4, 6, 8, 10, 14 denti x pollice).

La dentatura variabile (i denti presentano una geometria diversificata e si susseguono con una differente spaziatura) è generalmente indicata per il taglio di profilati o di sezioni non costanti (2/3, 3/4, 4/6, 5/8, 6/10, 8/12, 10/14 denti x pollice).

Per entrambe le tipologie di dentatura è comunque fondamentale che, in fase di taglio, almeno 3 denti siano contemporaneamente in presa sul pezzo da tagliare.

## Forma del dente

### Dente normale

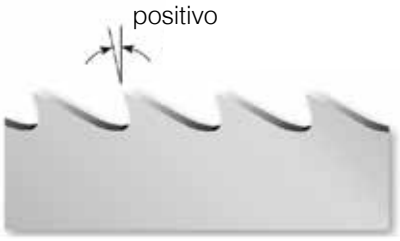


#### Caratteristiche tecniche

Il dente normale ha un angolo di spoglia pari a 0° ed è adatto ad un impiego universale per il taglio di sezioni di piccole e medie dimensioni di:
- tubi o profilati
- acciai basso legati
- travi portanti

oltre che per tagli a fasci e a strati, e tagli suscettibili di vibrazioni.

### Dente Hook




#### Caratteristiche tecniche

Il dente Hook ha un angolo di spoglia positivo di 10° e presenta una cavità di contenimento dei trucioli maggiorata. È adatto ad un impiego universale per il taglio di sezioni di grosse dimensioni di:
- acciai fortemente legati
- metalli non ferrosi
- acciai da costruzione, acciai per estrusione a freddo
- acciai temprati

### Dente trapezoidale

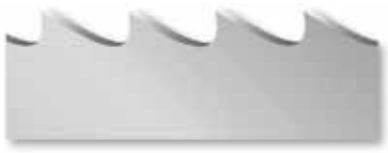





#### Caratteristiche tecniche

Il dente trapezoidale ha un angolo di spoglia positivo ed è caratterizzato da una particolare geometria che garantisce un alto rendimento ed una maggiore finitura. È indicato per tagli ad alta velocità di:
- leghe di titanio
- bronzo-alluminio
- superleghe
- zirconio
- molibdeno

### Dente Raker



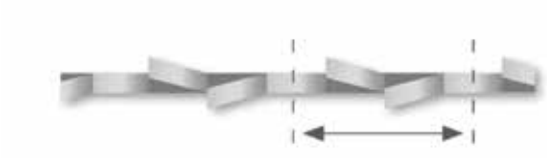
#### Caratteristiche tecniche

Il dente Raker è a passo variabile ed ha un angolo di spoglia positivo superiore a 0°. Utilizzato per il taglio di piccole sezioni trasversali di tubi e profili, oltre che per il taglio di:
- materiali a truciolo corto
- acciai con elevato contenuto di carbonio
- acciai da utensili e ghisa

## Saldatura

La stradatura indica la distanza totale del disassamento dei denti della lama e fa sì che i denti stessi sporgano alternativamente a sinistra e a destra oltre il livello del corpo lama. Essa determina la larghezza dell'intaglio atto a favorire l'evacuazione del truciolo ed a consentire il gioco laterale del dorso del nastro. Esistono diverse tipologie di stradatura adatte ad ogni esigenza di taglio.

## Stradatura standard



intervallo della dentatura



### Caratteristiche tecniche

La stradatura standard può essere usata universalmente per tagliare spessori di oltre 5 mm. di acciaio, fusioni e metalli duri non ferrosi. La stradatura standard è costituita da una o più coppie di denti, ognuna composta da un dente alternato a destra e uno a sinistra, intervallate da un dente diritto. Con la dentatura a passo fisso, la sequenza della stradatura è: sinistra/destra/diritto. Con il passo del dente variabile, nell'intervallo di dentatura uno non è stradato, mentre i rimanenti sono stradati nella sequenza: sinistra/destra.

## Stradatura a gruppo



### Caratteristiche tecniche

La stradatura a gruppo è costituita da un dente diritto, seguito da una coppia di denti inclinati a sinistra ed una coppia a destra, al fine di ridurre le vibrazioni e migliorare la finitura del taglio. Utilizzata per lame sega a nastro con gamma di dentatura da 4 e 18 denti tpi, per speciali applicazioni nel taglio dei materiali non-ferrosi. La migliore qualità della superficie si ottiene con la stradatura a gruppo.

## Stradatura ondulata



### Caratteristiche tecniche

La stradatura ondulata prevede un disassamento dei denti graduale da sinistra a destra, per una penetrazione dolce e non invasiva. Impiegata per il taglio materiali, quali lamierini, profilati, tubi con pareti sottili, fino a 5 mm.

## Passo del dente

Per passo del dente si intende il numero di denti per pollice (1 pollice = 25,4 mm.). Nel caso di dentatura variabile, le due cifre rappresentano in numero massimo e minimo possibile di denti per pollice in ciascun gruppo di denti.

## Passo del dente costante

costante

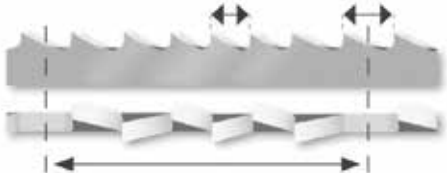


### Caratteristiche tecniche

Questa tipologia di dentatura presenta una distanza costante tra dente e dente. È particolarmente indicata per tagliare materiali solidi su segatrici con bloccaggio ottimale del pezzo.

## Passo del dente variabile

variabile Min. Max.



intervallo della dentatura

### Caratteristiche tecniche

La dentatura a passo variabile consiste nella presenza di gruppi di denti alternati ripetuti ad intervalli regolari su tutta la lama. L'utilizzo di questa tipologia di dentatura consente una riduzione delle vibrazioni causate dalla risonanza durante il taglio. È adatta al taglio di pezzi vuoti con pareti sottili e materiale in fasci o con un bloccaggio debole.

La scelta della dentatura ottimale è determinata dalla sezione da tagliare nel pezzo in lavorazione.
Di seguito, i valori limite per ciascuna delle dentature costante e variabile.

| Passo dente costante (tpi) | Lungh contatto dent.-pz (mm.) | Passo dente costante (tpi) | Lungh contatto dent.-pz (mm.) |
|---|---|---|---|
| 24 | fino a 6 | 6 | 50 ÷ 80 |
| 18 | fino a 10 | 4 | 80 ÷ 12 |
| 14 | fino a 15 | 3 | 120 ÷ 200 |
| 10 | 15 ÷ 30 | 2 | 200 ÷ 400 |
| 8 | 30 ÷ 50 | 1,25 | 300 ÷ 800 |

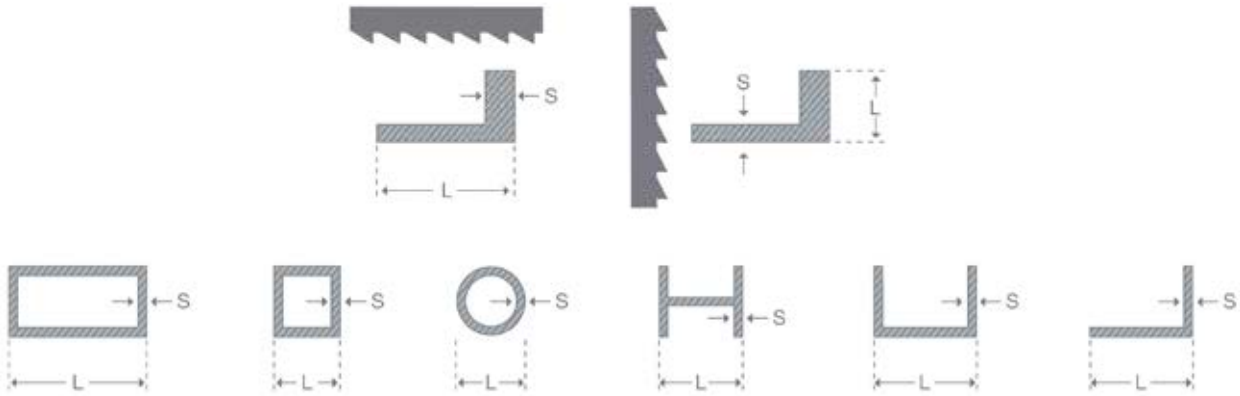
| Passo dente costante (tpi) | Lungh contatto dent.-pz (mm.) | Passo dente costante (tpi) | Lungh contatto dent.-pz (mm.) |
|---|---|---|---|
| 10 – 14 | fino a 30 | 3 – 4 | 80 ÷ 150 |
| 8 – 12 | 20 ÷ 50 | 2 – 3 | 120 ÷ 350 |
| 6 – 10 | 25 ÷ 60 | 1,4 – 2 | 250 ÷ 600 |
| 5 – 8 | 35 ÷ 80 | 1,0 – 1,4 | 400 ÷ 1.000 |
| 4 – 6 | 50 ÷ 100 | 0,75 – 1,25 | 700 ÷ 1.400 |
| 5 – 5 | 70 ÷ 120 | 0,70 – 1,0 | 900 ÷ 3.000 |

## Scelta del dente

## Sezioni interrotte

### Caratteristiche tecniche

Nel taglio di particolari con geometrie a sezione interrotta (tubi, profilati, scatolati, ecc.), a causa del limitato ed incostante numero di denti in presa, ogni dente è soggetto a notevoli carichi di lavoro e sollecitazioni meccaniche. Per determinare il passo del dente più idoneo, occorre quindi considerare sia la quota massima in cui la lama opererà, sia lo spessore del pezzo riscontrabile durante le varie fasi del taglio.

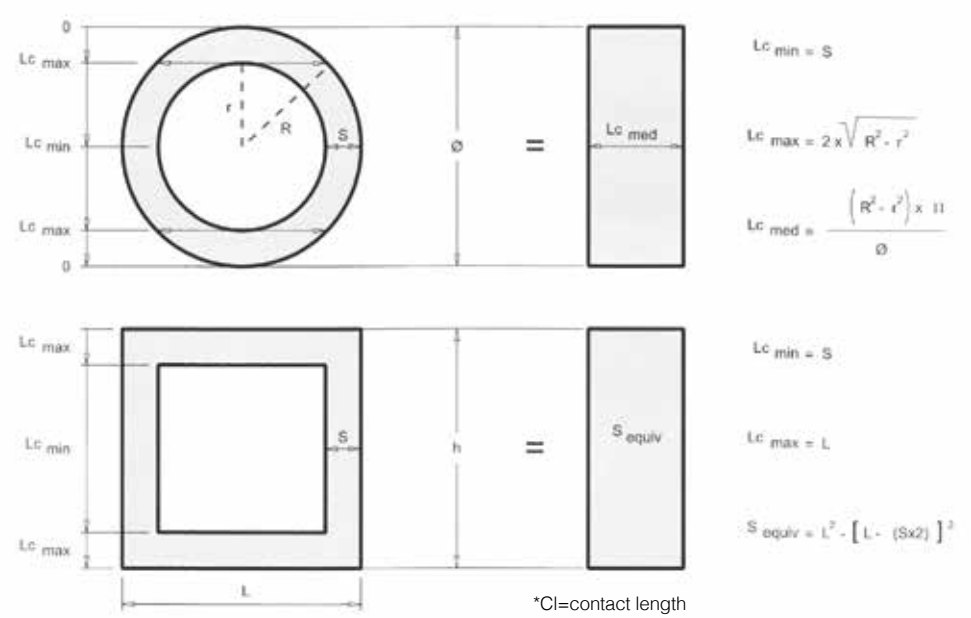



| Spessore S (mm.) | Lunghezza di contatto (mm.) L Diametro esterno del tubo (mm.) / passo del dente in tpi L Pipe external diameter (mm.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 40 | 60 | 80 | 100 | 120 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 |
| 2 | 14 | 14 | 10/14 | 10/14 | 10/14 | 10/14 | 10/14 | 8/12 | 8/12 | 8/12 | 6/10 | 6/10 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| 3 | 10/14 | 10/14 | 10/14 | 10/14 | 8/12 | 8/12 | 8/12 | 6/10 | 6/10 | 6/10 | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 |
| 4 | 8/12 | 8/12 | 8/12 | 8/12 | 8/12 | 6/10 | 6/10 | 6/10 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 |
| 5 | 8/12 | 8/12 | 8/12 | 6/10 | 6/10 | 6/10 | 6/10 | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 |
| 6 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 6/10 | 6/10 | 6/10 | 6/10 | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 |
| 10 | | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 | 2/3 |
| 12 | | 5/8 | 5/8 | 5/8 | 4/6 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 | 2/3 | 2/3 |
| 15 | | 4/6 | 4/6 | 4/6 | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 |
| 20 | | | 4/6 | 4/6 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 |
| 30 | | | | 3/4 | 3/4 | 3/4 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 1,5/2 |
| 50 | | | | | | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 1,5/2 | 1,5/2 | 1,5/2 |
| 75 | | | | | | | | 2/3 | 2/3 | 2/3 | 2/3 | 2/3 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 |
| 100 | | | | | | | | | 2/3 | 2/3 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 0,75/1,25 |
| 150 | | | | | | | | | | 2/3 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 0,75/1,25 | 0,75/1,25 |
| 200 | | | | | | | | | | | 1,5/2 | 1,5/2 | 1,5/2 | 1,5/2 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 |
| 250 | | | | | | | | | | | | 1,5/2 | 1,5/2 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 |
| 300 | | | | | | | | | | | | | 1,5/2 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 |
| 350 | | | | | | | | | | | | | | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 |
| 400 | | | | | | | | | | | | | | | 0,75/1,25 | 0,75/1,25 | 0,75/1,25 |
| 450 | | | | | | | | | | | | | | | | 0,75/1,25 | 0,75/1,25 |
| 500 | | | | | | | | | | | | | | | | | 0,75/1,25 |

## Sezioni interrotte

### Caratteristiche tecniche

È necessario inoltre considerare i diversi valori di lunghezza di contatto della dentatura (Lc minima, Lc massima) durante le varie fasi del taglio e la relativa sezione equivalente.

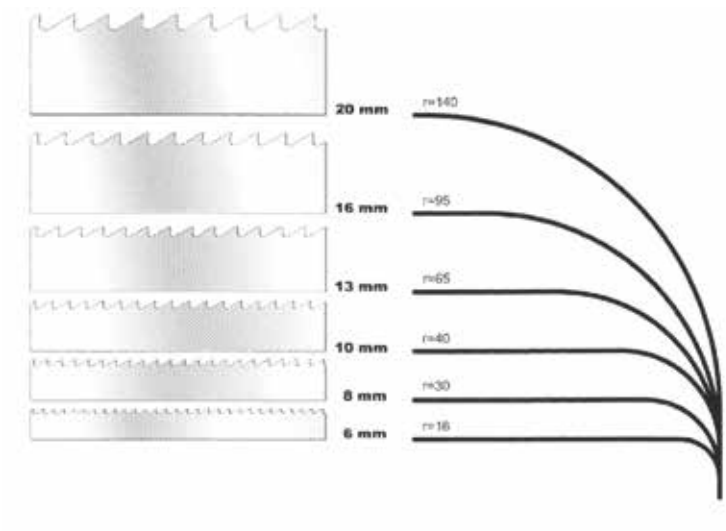



*Cl=contact length

## Contornatura

### Caratteristiche tecniche

Per eseguire lavorazioni di contornatura o scantonatura è necessario utilizzare una lama con caratteristiche tali che consentano di tagliare in modo efficace l'arco desiderato. È preferibile impiegare la lama con la maggiore larghezza che sia in grado di tagliare il raggio minore della vostra lavorazione.



## Scelta del dente

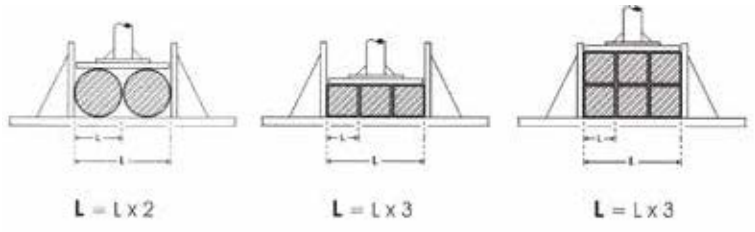
### Taglio a fascio di sezioni piene

#### Caratteristiche tecniche

In caso di particolari aventi geometrie a sezione piena, in ogni fase di taglio il carico di lavoro è uniformemente distribuito sulla totalità dei denti in presa. Per determinare il passo del dente più idoneo, occorre quindi considerare la quota massima di contatto possibile tra la dentatura ed il pezzo durante le varie fasi di taglio:

**quota massima di contatto dentatura L = Larghezza totale pezzi affiancati**

Esempio:




### Taglio a fascio di sezioni interrotte

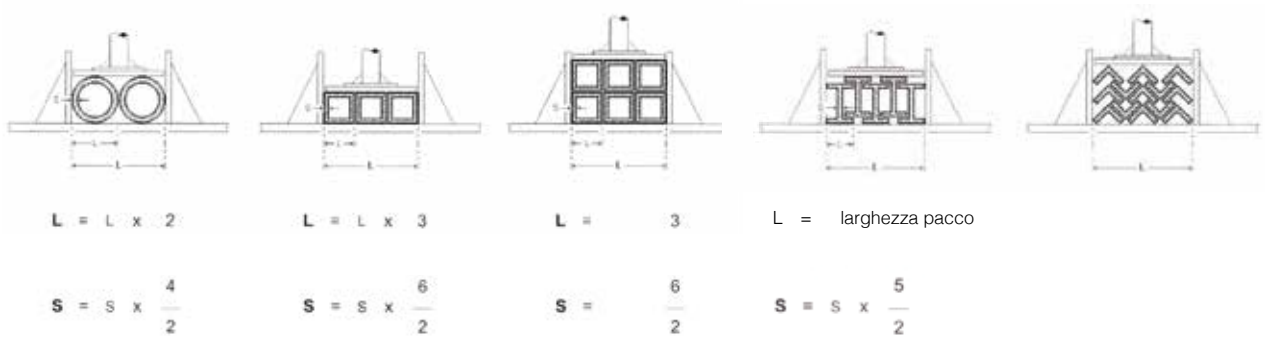
#### Caratteristiche tecniche

In questo caso, per determinare il passo del dente più idoneo, occorre considerare oltre alla quota massima in cui la lama opererà, anche lo spessore del pezzo durante le varie fasi di taglio:

**larghezza L = Larghezza totale pezzi affiancati**

$$\text{spessore } S = \text{Spessore singolo pezzo} \times \frac{\text{n° pareti affiancate}}{2}$$

Esempio:




Un fascio di profilati la cui disposizione o dimensione comporti un'elevata densità di materiale, deve essere considerato esattamente come il taglio di una sezione piena.

## Velocità di taglio (mt/min) e lubrorefrigerante consigliato

## Linee guida per LAME BIMETALLICHE

| Tipo materiale | DIN | Velocità di taglio Vc (m/min) | Lubrificazione | |
|---|---|---|---|---|
| | | | Olio | Emulsione |
| Acciai da costruzione | St 37-2 | 80-100 | | x |
| | St 50-2 | 60-85 | | x |
| | St 60-2 | 50-70 | | x |
| Acciai da cementazione | C 10 | 80-100 | x | |
| | 14 NiCr 14 | 40-55 | x | |
| | 21 NiCrMo 2 | 50-60 | x | |
| | 16 MnCr 5 | 40-60 | x | |
| Acciai automatici | 9 S 20 | 80-120 | | x |
| | 45 S 20 | 80-120 | | x |
| Acciai temprati | C 45 | 60-70 | | x |
| | 40 Mn 4 | 60-70 | | x |
| | 36 NiCr 6 | 60-70 | | x |
| | 34 CrNiMo 6 | 50-65 | | x |
| | 42 CrMo 4 | 50-65 | | x |
| Acciai per cuscinetti | 100 Cr 6 | 35-50 | | x |
| | 100 CrMn 6 | 35-50 | | x |
| Acciai per molle | 65 Si 7 | 45-60 | | x |
| | 50 CrV 4 | 45-60 | | x |
| Acciai per utensili non legati | C 125 W | 40-60 | | x |
| | C 75 W | 40-60 | | x |
| Acciai per utensili | 125 Cr 1 | 40-50 | x | x |
| | X 210 Cr 12 | 30-40 | x | x |
| Lavorazioni a freddo | X 155 CrVMo 12 1 | 30-40 | Secco | |
| | X 42 Cr 13 | 35-45 | x | x |
| | X 165 CrV 12 | 30-45 | x | x |
| | 100 CrMo 5 | 30-50 | x | x |
| | X 32 CrMoV 3 3 | 45-60 | x | x |
| | 45 WCrV 7 | 40-50 | x | x |
| Lavorazioni a caldo | 56 NiCrMoV 7 | 40-50 | x | x |
| | | | | |
| Acciai super rapidi | S 6-5-2-5 (E Mo5 Co5) | 35-45 | | x |
| | S 2-10-1-8 (M 42) | 35-45 | | x |
| | S 6-5-2 (DMo5) | 35-45 | | x |
| Acciai per valvole | X 45 CrSi 9 3 | 30-45 | x | x |
| | X 45 CrNiW 18 9 | 30-40 | x | x |
| Acciai resistenti al calore | X 20 CrMoV 12 1 | 10-30 | x | x |
| | X 5 NiCrTi 26 15 | 10-30 | x | x |
| Acciai resistenti alte temperature | X 10 CrSi 6 | 15-25 | x | x |
| | X 10 CrAl 18 | 15-25 | x | x |
| | X 15 CrNi Si 25 20 | 15-25 | x | x |
| Acciai inossidabili e resistenti agli acidi | X 5 CrNi 18 10 (V2A) | 30-40 | x | x |
| | X 5 CrNiMoTi 172 12 2 (V4A) | 30-40 | x | |
| Ghisa fusa | GS-38 | 40-60 | | x |
| | GS-60 | 40-60 | | x |
| Ghisa | GG-15 | 30-60 | Secco | |
| | GG-30 | 30-60 | Secco | |
| | GGG-50 | 30-60 | Secco | |
| | GTW-40 | 30-60 | Secco | |

## Velocità di taglio (mt/min) e lubrorefrigerante consigliato

## Linee guida per LAME BIMETALLICHE

| Tipo materiale | DIN | Velocità di taglio Vc (m/min) | Lubrificazione | |
|---|---|---|---|---|
| | | | Olio | Emulsione |
| Ghisa | GTS-65 | 30-60 | Secco | |
| Rame | KE-Cu | 100-400 | x | x |
| | Rame elettrolitico | 100-400 | x | x |
| Ottone | CuZn 10 | 100-400 | | x |
| | CuZn 31 Si 1 | 100-400 | | x |
| Alluminio-Bronzo | CuAl 8 | 35-50 | | x |
| | CuAl 10 Fe 3 Mn 2 | 35-50 | | x |
| Bronzo | CuSn 6 | 80-150 | | x |
| | CuSn 6 Zn 6 | 80-150 | | x |
| Ghisa rossa | CuSn 10 Zn | 50-100 | | x |
| | CuSn 5 ZnPb | 50-100 | | x |
| Leghe al nichel resistenti al calore | NiCr 20 TiAl | 10-25 | x | x |
| | NiCr 22 FeMo | 10-25 | x | x |
| Alluminio e sue leghe | Al 99.5 | 80-800 | | x |
| | AlMgSiPb | 80-800 | | x |
| | G-AlSi 5 Mg | 80-800 | | x |
| Titanio e sue leghe | Ti Grade 1 | 10-20 | x | x |
| | TiAl 6 V 4 | 10-20 | x | |
| Materiali termoplastici | PVC | 100-400 | Secco | |
| | Teflon, Hostalen | 100-400 | Secco | |
| Tessuti plastici | Resitex | 50-300 | Secco | |
| | Novotex | 50-300 | Secco | |

## Velocità di taglio (mt/min) e lubrorefrigerante consigliato

## Linee guida per LAME A NASTRO AL CARBURO - taglio di acciai

| Tipo materiale | DIN | Velocità taglio Vc (m/min) | Dentatura consigliata<br>Diametro materiale | | | |
|---|---|---|---|---|---|---|
| | | | 75-140 mm | 100-350 mm | 300-550 mm | >540 mm |
| Acciai da costruzione | St 37/24 | 100-130 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | St 52/60 | 90-120 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai da cementazione | C10/C15 | 110-140 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 16 MnCr 5 | 80-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 20 CrMo 5 | 80-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 21 NiCrMo 2 | 70-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai Nitrati | 34 CrAlNi 7 | 45-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 34 CrAlMo 5 | 45-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai automatici | 9 S 20 | 100-160 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | | | | | | |
| Acciai temprati | C 35/45 | 90-120 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 42 CrMo 4 | 70-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 34 CrNiMo 6 | 70-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per cuscinetti | 100 Cr 6 | 70-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 100 CrMo 7 3 | 65-85 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per molle | 65 Si 7 | 65-85 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 50 CrV4 | 65-85 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per utensili | C 125 W | 65-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | C 80 W 1 | 70-85 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per lavorazioni a freddo | 125 Cr 1 | 65-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 210 Cr 12 | 40-50 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 155 CrVMo 12 1 | 40-50 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 90 MnCrV 8 | 45-55 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per lavorazioni a caldo | 40 CrMnMo 7 | 70-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 40 CrMoV 5 1 | 60-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 56 NiCrMoV 7 | 50-70 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | 40 CrMnNiMo 8 6 4 | 35-50 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai super rapidi | S 6-5-2 | 50-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | S 3-3-2 | 55-65 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | S 2-10-1-8 | 45-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | S 10-4-3-10 | 45-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | S 18-0-1 | 45-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai inossidabili e resistenti agli acidi | X 5 CrNi 18 10 | 70-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 6CrNiMoTi 17 122 | 65-75 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 20 Cr 13 | 80-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai per valvole | X 45 CrSi 9 3 | 50-60 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 45 CrNiW 18 9 | 40-50 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai resistenti al calore | X 12 CrCoNi 21 20 | 30-40 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 20 CrMoWV 12 1 | 80-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai resistenti alte temperature | X 15 Cr Ni Si | 30-40 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 12 NiCrSi 36 16 | 30-40 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Leghe speciali | Ni Cr 19 NbMo | 20-30 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | NiMo 30 | 22-35 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | NiCr 13 Mo 6 Ti 3 | 20-30 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | NiCo 20 Cr 20 MoTi | 22-35 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | X 8 CrNiAlTi 20 20 | 22-35 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |

## Velocità di taglio (mt/min) e lubrorefrigerante consigliato

## Linee guida per LAME A NASTRO AL CARBURO - taglio di acciai

| Tipo materiale | DIN | Velocità taglio Vc (m/min) | Dentatura consigliata Diametro materiale | | | |
|---|---|---|---|---|---|---|
| | | | 75-140 mm | 100-350 mm | 300-550 mm | >540 mm |
| Acciai bonificati | | | | | | |
| 1000-1200 N/mm² | | 35-50 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| 1200-1400 N/mm² | | 30-45 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| 1400-1600 N/mm² | | 25-35 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Acciai temprati | | | | | | |
| 50 HRC | | 15-20 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| 55 HRC | | 10-15 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| 60 HRC | | 8-12 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Ghisa fusa | G5-38 | 70-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | C5-60 | 60-85 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Ghisa | GG-30 | 60-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | GGG-50 | 55-75 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |

## Linee guida per LAME A NASTRO AL CARBURO - taglio di materiali non ferrosi

| Tipo materiale | DIN | Velocità taglio Vc (m/min) | Dentatura consigliata Diametro materiale | | | |
|---|---|---|---|---|---|---|
| | | | 75-140 mm | 100-350 mm | 300-550 mm | >540 mm |
| Alluminio e sue leghe | Al 99,5 | fino 3000 m/min. | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | AlMg 1 | fino 3000 m/min. | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | AlMg 3 | fino 3000 m/min. | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | AlMg 4.5Mn | fino 3000 m/min. | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | AlMgSi 1 | fino 3000 m/min. | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Rame | KE-Cu | 100-200 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | E Cu | 100-200 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Ottone | CuZn 39 Pb 3 | 150-250 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | VuZn 31 Si | 150-250 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Zinco-bronzo | CuSn 6 | 90-130 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Ghisa rossa | CuSn 5 ZnPb | 90-130 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | CuSn 10 Zn | 90-130 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Alluminio-Bronzo | CuAl 8 | 60-80 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | CuAl 8 Fe 38 | 52-65 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | CuAl 10 Ni 5 Fe 4 | 50-70 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| Titanio e sue leghe | Ti Grade 1 | 80-100 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |
| | TiAl 6 V 4 | 60-90 | 3/4 | 3 ZpZ 2/3 | 1,4/2 | 0,75/1,25 |

## Suggerimenti di taglio

### Sezioni interrotte

#### Caratteristiche tecniche

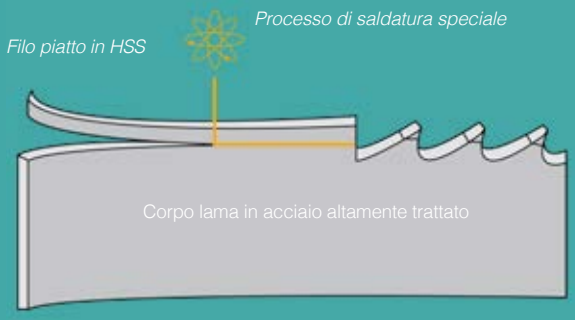
Per una corretta operazione di taglio, è molto utile seguire i parametri di taglio consigliati; occorre però considerare la molteplicità di fattori che possono influenzare le rese nel taglio a nastro, quali la dimensione e tipologia di lama, le caratteristiche della segatrice, ecc.
Al fine di ottimizzare i parametri impostati, risulta estremamente utile durante l'azione di taglio, controllare lo stato dei trucioli facendo riferimento alla sottostante tabella.

| Forma truciolo | Condizione | Colore | Velocità di taglio | Avanzamento | Altro |
|---|---|---|---|---|---|
|  | spesso, duro e fragile | violaceo o marrone | ridurre | ridurre | verificare refrigerante e % emulsione |
|  | polverizzato | grigio chiaro | ridurre | aumentare | |
|  | sottile, riccio ed elastico | grigio chiaro | ok | ok | |
|  | sottile, duro ed elastico | grigio chiaro | aumentare | ridurre | verificare scelta del passo |
|  | spesso, duro ed elastico | grigio chiaro o giallo chiaro | ok | ridurre leggermente | verificare scelta del passo |
|  | sottile, piatto ed elastico | grigio chiaro | ok | aumentare | |
|  | spesso, duro e fragile | violaceo | ridurre o marrone | ridurre | verificare refrigerante e % emulsione |
|  | sottile, riccio e stretto | grigio chiaro | ok | ridurre | utilizzare passo più grande |

# Lame per segatrici a nastro

## Lame bimetalliche

Le lame a nastro bimetalliche sono costituite da un corpo in acciaio al carbonio e dentatura in acciaio super rapido M42 o M51 con 8% di cobalto, per garantire le più elevate performance di rendimento nel taglio di tutti i materiali normalmente impiegati nelle lavorazioni meccaniche.
Lame estremamente versatili, disponibili con diverse dentature a seconda delle specifiche applicazioni richieste.






## FLEX M42



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio al carbonio e tagliente in acciaio HSS M42 |
| **Altezza nastro** | da 13 a 41 mm. |
| **Denti per pollice** | da 2/3 a 10/14 |
| **Forma dente** | Hook (dentature 2/3-3/4-4/6)<br>Raker (dentature 5/8-6/10-8/12-10/14) |
| **Durezza dente** | 68 HRC |
| **Stradatura** | Standard |
| **Applicazioni** | Lama idonea al taglio di piccole e medie sezioni piene ed interrotte di:<br>• acciai da costruzione, acciai medio legati, acciai al carbonio<br>• acciai da bonifica, acciai da lavorazione, acciai inossidabili<br>• metalli non ferrosi<br>• ghise, rame, ottone |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|---|---|---|
| | | 2/3 | 3/4 | 4/6 | 5/8 | 6/10 | 8/12 | 10/14 | |
| 13 x 0,65 | 1.140 ÷ 1.640 | | | | | • | • | • | 10 |
| 20 x 0,90 | 1.900 ÷ 3.180 | | | • | • | • | • | • | 5 |
| 27 x 0,90 | 2.450 ÷ 3.660 | • | • | • | • | • | • | • | 5 |
| 34 x 1,10 | 3.505 ÷ 5.300 | | • | • | • | • | • | • | 5 |
| 41 x 1,30 | 4.100 ÷ 6.400 | | | • | • | • | • | • | 1 |

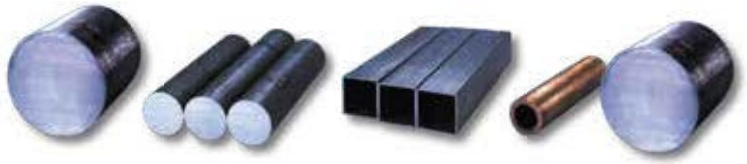


## TOP M42



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio al carbonio e tagliente in acciaio HSS M42 arricchito al cobalto |
| **Altezza nastro** | da 6 a 80 mm. |
| **Denti per pollice** | da 1,25 a 10/14 |
| **Forma dente** | Hook e Raker<br>A richiesta, dente PD, estremamente positivo, per tagli aggressivi (dentature da 0,75/1,25 a 3/4 e altezze da 27 a 80) |
| **Durezza dente** | 68-69 HRC |
| **Stradatura** | Standard |
| **Applicazioni** | Lama molto versatile idonea al taglio di sezioni piene ed interrotte di metalli fino a 45 HRC, quali:<br>• acciai da costruzione, acciai legati<br>• acciai laminati a freddo, acciai per utensili, acciai da cementazione<br>• bronzo<br>• leghe leggere, metalli non ferrosi<br>• acciai inossidabili (dentatura PD consigliata) |



PREZZI a richiesta

| Dimen. mm. (alt.xsp.) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | | | | | | | | | | | | | | | | | Pz. per conf. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1,25 | 2 | 3 | 4 | 6 | 8 | 10 | 14 | 18 | 0,75/1,25 | 1,4/2 | 2/3 | 3/4 | 4/5 | 4/6 | 5/6 | 5/8 | 6/10 | 8/12 | 10/14 | |
| 6 x 0,90 | rotolo 30 mt. | | | | | | | | | | | | | | | | | | | | • | 1 |
| 10 x 0,90 | rotolo 30 mt. | | | | • | • | • | • | • | | | | | | | | | | | | • | 1 |
| 13 x 0,65 | 1.140 ÷ 1.640 | | | | | • | | • | • | • | | | | | | | | | • | • | • | 10 |
| 13 x 0,90 | 1.735 ÷ 5.640 | | | | • | • | • | • | • | | | | | | | | | | • | • | • | 10 |
| 20 x 0,90 | 1.900 ÷ 3.180 | | | • | • | • | • | • | • | • | | | | | | • | | • | • | • | • | 5 |
| 27 x 0,90 | 2.450 ÷ 3.660 | | • | • | • | • | • | • | • | • | | | • | • | • | • | • | • | • | • | • | 5 |
| 34 x 1,10 | 3.505 ÷ 5.300 | • | • | • | • | • | • | • | | | | • | • | • | • | • | • | • | • | • | | 5 |
| 41 x 1,30 | 4.100 ÷ 6.400 | • | • | • | • | • | | | | | | • | • | • | • | • | | • | • | | | 1 |
| 54 x 1,30 | 5.290 ÷ 8.686 | • | • | • | | | | | | | • | • | • | • | • | • | | | • | | | 1 |
| 54 x 1,60 | 6.270 ÷ 11.000 | • | • | • | | | | | | | • | • | • | • | • | • | | | | | | 1 |
| 67 x 1,60 | 7.722 ÷ 11.880 | • | • | | | | | | | | • | • | • | • | | • | | | | | | 1 |
| 80 x 1,60 | 12.000 ÷ 17.600 | • | | | | | | | | | • | • | • | • | | | | | | | | 1 |

## FORCE M42



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio temprato al cromo e tagliente in acciaio HSS M42, con speciale spoglia di taglio e geometria del dente a profilo rinforzato |
| **Altezza nastro** | da 20 a 67 mm. |
| **Denti per pollice** | da 2/3 a 8/11 |
| **Forma dente** | Standard |
| **Durezza dente** | 68-69 HRC |
| **Stradatura** | Standard (a richiesta, stradatura maggiorata per profilati con elevata tensione propria) |
| **Applicazioni** | Lama idonea al taglio di sezioni interrotte (tubi, profilati, travi, ecc.) singole o a pacco in:<br>• acciai da costruzione, acciai basso e medio legati<br>• acciai al carbonio<br>• acciai da bonifica, acciai da cementazione |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|---|
| | | 2/3 | 3/4 | 4/6 | 5/7 | 8/11 | |
| 20 x 0,90 | 1.900 ÷ 3.180 | | | | • | • | 5 |
| 27 x 0,90 | 2.450 ÷ 3.660 | | • | | • | • | 5 |
| 34 x 1,10 | 3.505 ÷ 5.300 | • | • | • | • | • | 1 |
| 41 x 1,30 | 4.100 ÷ 6.400 | • | • | • | • | • | 1 |
| 54 x 1,30 | 5.290 ÷ 8.686 | • | • | • | • | | 1 |
| 54 x 1,60 | 6.270 ÷ 11.000 | • | • | • | • | | 1 |
| 67 x 1,60 | a richiesta | • | • | | | | 1 |



## TS PLUS M42



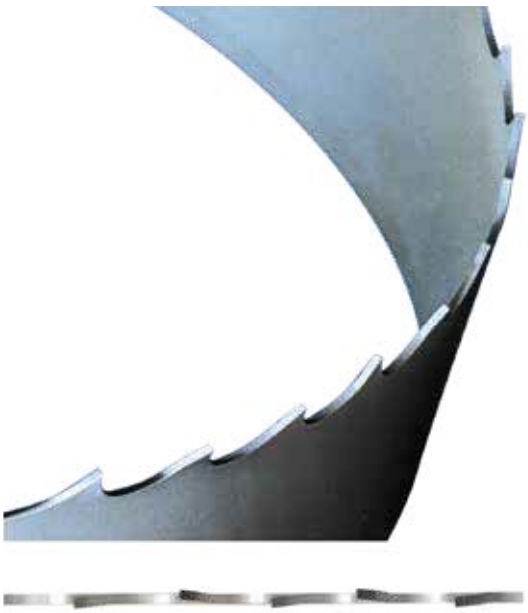
### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio al carbonio e tagliente in acciaio HSS M42 arricchito al cobalto |
| **Altezza nastro** | da 27 a 80 mm. |
| **Denti per pollice** | da 0,75/1,25 a 3/4 |
| **Forma dente** | **Denti rettificati di precisione al borazon HSS M42:** dentatura combinata con geometria di taglio rettificata, angolo di taglio positivo, stradatura a gruppo, per un'ottimale lavorazione del truciolo. Perfetta presa dei denti che assicura una precisa guida della lama ed un'ottima superficie di taglio; riduzione delle vibrazioni; alta resa. |
| **Durezza dente** | 69 HRC |
| **Stradatura** | Standard |
| **Applicazioni** | Lama molto resistente alle alte temperature, idonea al taglio di larghe sezioni piene o di materiali, quali:<br>• acciai inossidabili e resistenti agli acidi<br>• acciai per alte temperature<br>• leghe al titanio<br>• leghe base al nichel |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Dentatura a gruppi variabili (denti per pollice) | | | |
|---|---|---|---|---|
| | 0,75/1,25 | 1,4/2 | 2/3 | 3/4 |
| 27 x 0,90 | | | • | • |
| 34 x 1,10 | | • | • | • |
| 41 x 1,30 | | • | • | • |
| 54 x 1,30 | | • | • | • |
| 54 x 1,60 | | • | • | • |
| 67 x 1,60 | • | • | • | |
| 80 x 1,60 | • | • | | |

## TOP M51



### Caratteristiche tecniche

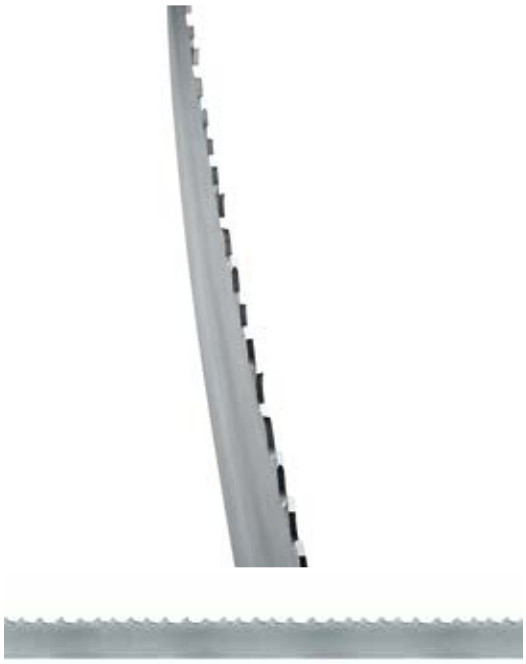
| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio al carbonio e tagliente in acciaio HSS M51 arricchito al cobalto |
| **Altezza nastro** | da 27 a 54 mm. |
| **Denti per pollice** | da 1,4/2 a 4/6 |
| **Forma dente** | Hook<br>A richiesta, dente PD, estremamente positivo, per tagli aggressivi (dentature da 1,4/2 a 3/4 e altezze da 27 a 54) |
| **Durezza dente** | 69 HRC |
| **Stradatura** | Standard |
| **Applicazioni** | Lama molto resistente alle alte tempertature idonea al taglio di larghe sezioni piene o di materiali, quali:<br>• acciai medio e alto legati<br>• acciai per cuscinetti, acciai per stampi, acciai per utensili<br>• leghe ad alto tenore di nichel<br>• bronzo<br>• titanio<br>• acciai inossidabili (dentatura PD consigliata)<br>• metalli fino a 50 HRC |



PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|
| | | 1,4/2 | 2/3 | 3/4 | 4/6 | |
| 27 x 0,90 | 2.450 ÷ 3.660 | | | • | • | 5 |
| 34 x 1,10 | 3.505 ÷ 5.300 | | • | • | • | 1 |
| 41 x 1,30 | 4.100 ÷ 6.400 | • | • | • | • | 1 |
| 54 x 1,60 | 6.270 ÷ 11.000 | • | • | • | | 1 |

## TM PLUS M51



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama bimetallica con corpo in acciaio al carbonio e tagliente in acciaio HSS M51, arricchito al cobalto |
| **Altezza nastro** | da 34 a 80 mm. |
| **Denti per pollice** | da 0,75/1,25 a 3/4 |
| **Forma dente** | **Denti rettificati di precisione al borazon in HSS M51:** dentatura combinata con geometria di taglio rettificata, angolo di taglio estremamente positivo, stradatura a gruppo. Ottimale lavorazione del truciolo. La precisione di avanzamento dei denti e la riduzione delle vibrazioni assicurano un'ottimale superficie di taglio. Lunga durata della lama. |
| **Durezza dente** | 69 HRC |
| **Stradatura** | Standard |
| **Applicazioni** | Lama molto resistente alle alte temperature, idonea al taglio di larghe sezioni piene o di materiali, quali:<br>• acciai comuni con resistenza sino a ca. 1700 N/mm²<br>• acciai inossidabili e resistenti agli acidi<br>• leghe base al nichel<br>• titanio e bronzi speciali<br>• materiali pieni di medie dimensioni |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Dentatura a gruppi variabili (denti per pollice) | | | | |
|---|---|---|---|---|---|
| | 0,75/1,25 | 1/1,5 | 1,4/2 | 2/3 | 3/4 |
| 34 x 1,10 | | | | • | • |
| 41 x 1,30 | | | • | • | • |
| 54 x 1,60 | • | • | • | • | |
| 67 x 1,60 | • | • | • | | |
| 80 x 1,60 | • | | • | | |

# Lame per segatrici a nastro

## Lame con dentatura in metallo duro

Queste lame sono costituite da un corpo in acciaio per molle e dentatura in MD (metallo duro) per garantire un alto rendimento, garantendo una notevole velocità di taglio e riducendo sensibilmente tempi e costi di produzione.

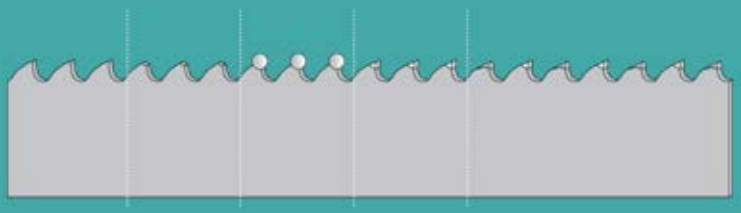
**Fase 1** Lama a nastro base

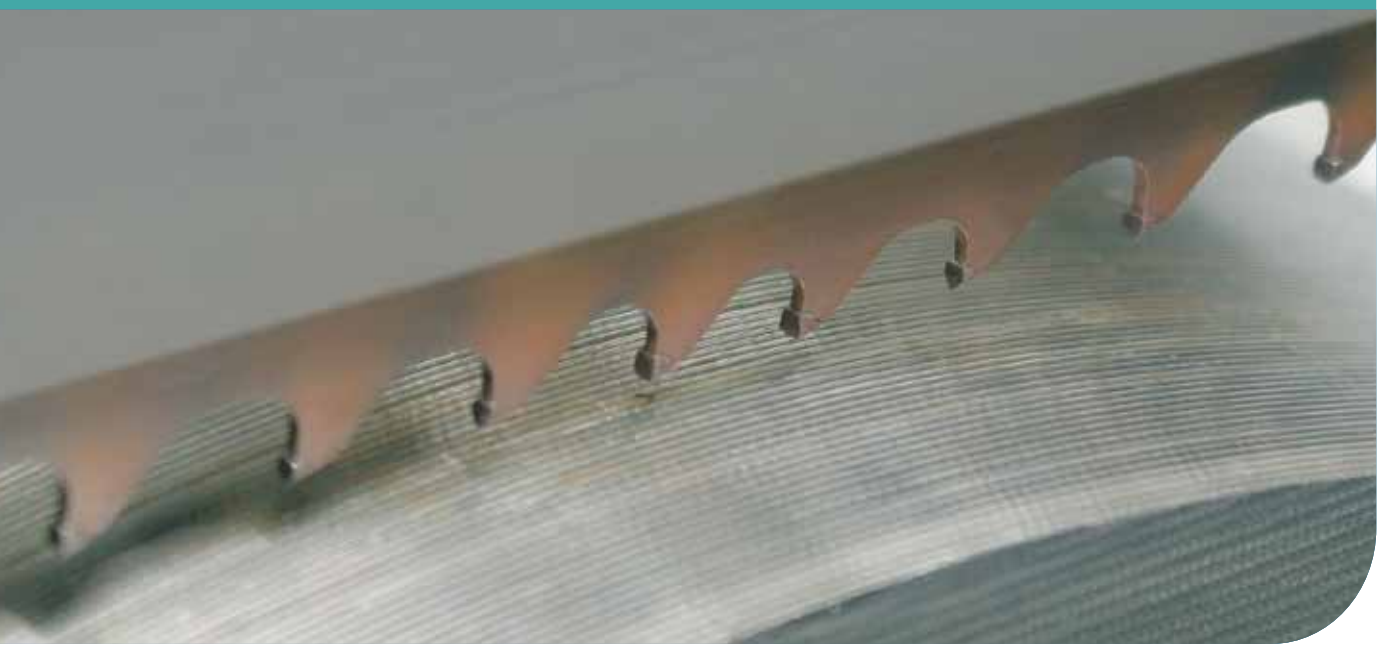
**Fase 2** Alloggio per denti in MD

**Fase 3** Saldatura al corpo

**Fase 4** Rettifica base

**Fase 5+6** Rettifiche di finitura





## SHAPE MD



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama con corpo in acciaio temprato e dentatura in metallo duro antiusura |
| **Altezza nastro** | da 20 a 41 mm. |
| **Denti per pollice** | da 1,25 a 4 |
| **Forma dente** | Hook<br>Raker |
| **Durezza dente** | 1.600 HV |
| **Stradatura** | Standard |
| **Applicazioni** | Lama idonea al taglio di:<br>• metalli da costruzione<br>• grafiti e ghise<br>• abrasivi |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|
| | | 1,25 | 2 | 3 | 4 | |
| 20 x 0,80 | 1.900 ÷ 3.180 | | | • | • | 1 |
| 27 x 0,90 | 2.450 ÷ 3.660 | | • | • | • | 1 |
| 34 x 1,10 | 3.505 ÷ 5.300 | • | • | • | | 1 |
| 41 x 1,30 | 4.100 ÷ 6.400 | • | • | • | | 1 |







## MAX MD



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama con corpo in acciaio temprato e dentatura in metallo duro con geometria standard su passo costante e geometria trapezoidale su passo variabile |
| **Altezza nastro** | da 20 a 41 mm. |
| **Denti per pollice** | da 1,4/2 a 3/4 |
| **Forma dente** | Hook |
| **Durezza dente** | 1.600 HV |
| **Stradatura** | Standard |
| **Applicazioni** | Lama idonea al taglio di:<br>• acciai da costruzione<br>• metalli non ferrosi<br>• alluminio<br>• metalli fino a 62 HRC |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|---|
| | | 1,4/2 | 2 | 2/3 | 3 | 3/4 | |
| 20 x 0,80 | 1.900 ÷ 3.180 | | | | • | | 1 |
| 27 x 0,90 | 2.450 ÷ 3.660 | | | • | • | • | 1 |
| 34 x 1,10 | 3.505 ÷ 5.300 | • | • | • | • | • | 1 |
| 41 x 1,30 | 4.100 ÷ 6.400 | • | | • | | | 1 |



## SPEED MD



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama con corpo in acciaio temprato e dentatura in metallo duro ad elevate prestazioni |
| **Altezza nastro** | da 27 a 54 mm. |
| **Denti per pollice** | da 0,85/1,15 a 3/4 |
| **Forma dente** | Trapezoidale |
| **Durezza dente** | 1.600 HV |
| **Stradatura** | Senza stradatura |
| **Applicazioni** | Lama idonea a tagli ad alta velocità ed elevata finitura. Adatta per:<br>• acciai da costruzione, acciai da bonifica<br>• superleghe<br>• zirconio, molibdeno<br>• bronzo-alluminio<br>• leghe di titanio |

PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm. | Dentatura standard (denti x pollice) | | | | | | Pezzi per confezione |
|---|---|---|---|---|---|---|---|---|
| | | 0,85/1,15 | 1/1,4 | 1,4/2 | 2/3 | 3 | 3/4 | |
| 27 x 0,90 | 2.450 ÷ 3.660 | | | | | • | • | 1 |
| 34 x 1,10 | 3.505 ÷ 5.300 | | | | • | | • | 1 |
| 41 x 1,30 | 4.100 ÷ 6.400 | | | • | • | | • | 1 |
| 54 x 1,30 | 5.290 ÷ 8.686 | | | • | • | | | 1 |
| 54 x 1,60 | 6.270 ÷ 11.000 | • | • | • | • | | | 1 |



## ALU MD



### Caratteristiche tecniche

| | |
|---|---|
| **Tipologia lama** | Lama con corpo in acciaio temprato e dentatura in metallo duro con stradatura maggiorata per la lavorazione di metalli non ferrosi |
| **Altezza nastro** | da 20 a 34 mm. |
| **Denti per pollice** | 2 e 3 |
| **Forma dente** | Hook |
| **Durezza dente** | 1.600 HV |
| **Stradatura** | Maggiorata |
| **Applicazioni** | Lama idonea al taglio di:<br>• metalli non ferrosi<br>• alluminio<br>• applicazioni manuali in fonderia |



PREZZI a richiesta

| Dimensioni mm. (alt. x spessore) | Sviluppo mm | Dentatura a gruppi variabili (denti per pollice) | | Pezzi per confezione |
|---|---|---|---|---|
| | | 2 | 3 | |
| 20 x 0,80 | a richiesta | | • | 1 |
| 27 x 0,90 | a richiesta | | • | 1 |
| 34 x 1,10 | a richiesta | • | • | 1 |

## Suggerimenti per la soluzione dei principali problemi legati all'uso delle segatrici a nastro

| Problema | Causa | Soluzione consigliata |
|---|---|---|
| La lama tende ad uscire dai volani fermandosi nella fase di taglio. | Tensionatura della lama troppo bassa. | Riportare il valore di tensionatura ai valori consigliati dal costruttore della lama. |
| | Superficie di appoggio lama su volani usurata. | Verificare planarità superficie di appoggio lama su volani. |
| | Lunghezza della lama errata. | Sostituire lama. |
| La superficie del pezzo tagliato presenta una finitura imperfetta e sono presenti delle rigature.  | Dentatura non adeguata alle caratteristiche del materiale da tagliare. | Cambiare tipo di dentatura. |
| | Stradatura eccessiva. | Verificare valori di stradatura prima d'inizio taglio. |
| | Avanzamento non costante. | Eseguire il taglio con una velocità e una pressione di avanzamento uniforme. Su macchine con avanzamento lama automatico, controllare dispositivo di avanzamento. |
| | Lubrificazione inadeguata. | Verificare quantità e qualità del liquido lubrorefrigerante. |
| | Pressione e velocità di avanzamento troppo elevati. | Diminuire valori di pressione e velocità di avanzamento. |
| Il corpo lama presenta rigature parallele al dorso lama. | Supporti guidalama non allineati. | Verificare linearità tra i due. |
| | Cuscinetti o pattini guidalama usurati. | Sostituire cuscinetti o pattini guidalama. |
| Il dorso lama presenta sbavature e la sua superficie risulta lucidata. | Pressione e velocità di avanzamento troppo elevati. | Diminuire la pressione e la velocità di avanzamento. |
| | Cuscinetti o pattini premi lama usurati. | Sostituire cuscinetti o pattini guidalama. |
| Rottura della lama perpendicolarmente al dorso, nella zona saldatura. | Processo di saldatura rinvenimento lama non corretto | Sostituire lama. |

## Suggerimenti per la soluzione dei principali problemi legati all'uso delle segatrici a nastro

| Problema | Causa | Soluzione consigliata |
|---|---|---|
| La lama si rompe nettamente con una rottura ortogonale al dorso lama in una zona a caso della lama a nastro. | Su segatrici con battuta di riscontro fissa per taglio a misura, il pezzo tagliato si incunea tra la lama e la battuta. | Rendere possibile l'evacuazione del pezzo tagliato, dal piano di taglio. . |
| | La lama non si ferma dopo aver eseguito il taglio. | Regolare su segatrice fine corsa di discesa lama, in modo che possa arrestare la rotazione della lama a fine taglio . |
| | Pressione e velocità di avanzamento troppo elevati. | Diminuire la pressione e la velocità di avanzamento. |
| | Valori di tensionatura lama troppo elevati. | Riportare il valore di tensionatura ai valori consigliati dal costruttore della lama. |
| Rottura irregolare della lama.  | Materiale non bloccato in morsa. | Controllare la morsa. |
| I denti della lama si usurano dopo pochi tagli.  | Senso di lavoro del nastro non corretto. | Rivoltare nastro. |
| | Velocità di taglio troppo elevata. | Diminuire valore di velocità. |
| | Durezza del materiale elevata. | Impostare velocità adeguata. |
| | Lama non rodata adeguatamente. | Eseguire il primo taglio con pressione di taglio e velocità di avanzamento a valori inferiori ai normali. |
| | Surriscaldamento della lama. | Verificare la qualità e la quantità della miscela lubrorefrigerante. |
| | Presenza di inclusioni nel pezzo da tagliare. | Verificare omogeneità del pezzo da tagliare. Eventualmente spostare la zona di taglio. |

## Suggerimenti per la soluzione dei principali problemi legati all'uso delle segatrici a nastro

| Problema | Causa | Soluzione consigliata |
|---|---|---|
| Rottura netta dei denti sulla base di ancoraggio del corpo, ad intervalli non regolari.  | Vibrazioni anormali durante la fase di taglio. | Serrare accuratamente il pezzo o i pezzi da tagliare. Su macchine con serraggio idraulico, verificare pulizia morse e pressione di esercizio. |
| | Operazione di taglio iniziata su uno spigolo in modo non costante. | Iniziare il taglio con una velocità e pressione di avanzamento inferiore a quella nominale di lavoro. |
| | Avanzamento non costante. | Regolare la velocità e la pressione di avanzamento in relazione alla sezione di taglio e alla durezza del materiale. Su macchine con avanzamento automatico, controllare la funzionalità del sistema di avanzamento. |
| | Dentatura non adeguata alla configurazione della sezione da tagliare. | Cambiare tipo di dentatura adeguandola alla tipologia della sezione che si intende tagliare. |
| | Velocità di taglio non adeguata alla sezione da tagliare. | Diminuire la velocità di taglio. |
| Presenza di cricche ortogonali al dorso del corpo lama.  | Valori di tensionatura lama troppo elevati. | Riportare il valore di tensionatura ai valori consigliati dal costruttore della lama. |
| | Pressione e velocità di avanzamento troppo elevati. | Diminuire la pressionee la velocità di avanzamento. |
| | Carico per dente eccessivo. | Sostituire tipo di dentatura con un numero di denti maggiore in modo da far diminuire il carico singolo per dente durante la fase di asportazione truciolo. |
| | Cuscinetti o pattini guidalama usurati e perpendicolari alla base della morsa. | Sostituire cuscinetti o pattini guidalama. |

## Suggerimenti per la soluzione dei principali problemi legati all'uso delle segatrici a nastro

| Problema | Causa | Soluzione consigliata |
|---|---|---|
| Presenza di cricche ortogonali al dorso del corpo lama.  | Gruppo tensionatore della segatrice starato. | Verificare la funzionalità dei particolari meccanici facenti parte del gruppo tensionatore (manometro, fine corsa di minima tensione, guide e molle se meccanico; eventuali tenute, raschiatori e livello olio se idraulico). |
| | Presenza casuale di trucioli tra i volani e lama. | Predisporre un adeguato sistema per l'evacuazione dei trucioli. |
| | Surriscaldamento eccessivo del corpo lama. | Aumentare la portata del liquido lubrorefrigerante. |
| | Gruppi guidalama troppo vicini ai due volani. | Avvicinare i gruppi guidalama al pezzo da tagliare. |
| Il taglio non è perpendicolare (taglio storto).  | Posizionamento non corretto del pezzo da tagliare. | Eliminare eventuali residui di truciolo sul piano di appoggio della morsa. |
| | Tensionatura della lama troppo bassa. | Riportare il valore di tensionatura ai valori consigliati dal costruttore della lama. |
| | Distanza dei supporti guidalama troppo elevata. | Avvicinare i supporti guidalama il più possibile al profilo esterno del pezzo da tagliare. |
| | Supporti guidalama non allineati. | Verificare linearità tra i due supporti guidalama. |
| | Cuscinetti o pattini guidalama usurati. | Sostituire cuscinetti o pattini guidalama. |
| | Intasamento dei trucioli nelle gole dei denti. | Verificare che l'evacuazione dei trucioli avvenga correttamente. |
| | Dentatura non adeguata. | Sostituire tipo di dentatura. |

## Suggerimenti per la soluzione dei principali problemi legati all'uso delle segatrici a nastro

| Problema | Causa | Soluzione consigliata |
|---|---|---|
| Il taglio non è perpendicolare (taglio storto).<br> | Valori di pressione e velocità di avanzamento troppo elevati. | Regolare la velocità e la pressione di avanzamento in relazione alla sezione di taglio e alla durezza del materiale. Su macchine con avanzamento automatico, controllare la funzionalità del sistema di avanzamento. |
| | Corpo lama deformato. | Sostituire lama. |
| | Morsa non perpendicolare alla lama. | Verificare la perpendicolarità e l'ortogonalità tra il gruppo morsa e il gruppo taglio. |
| | Stradatura della lama non corretta. | Verificare valori di stradatura della lama. Si raccomanda che nella fase di salita dell'arco porta lama dopo aver eseguito la fase di taglio, la lama non deve essere in movimento. |
| | Caratteristiche meccaniche del pezzo da tagliare non costanti (presenza di inclusioni o incrudimenti da laminazione o trafilatura). | Diminuire la pressione e la velocità di avanzamento. Diminuire la velocità di taglio. Spostare la zona di taglio. |
| | Sega a nastro con dentatura usurata. | Sostituire sega a nastro. |
| | Cuscinetti o pattini guidalama con misura insufficiente per tenere in guida la lama. | Sostituire cuscinetti o i pattini guidalama in modo che possano tenere in guida la lama per min. 85% dell'altezza della lama. |

## Seghe a tazza bimetalliche




### Caratteristiche

Seghe a tazza bimetalliche ideali per realizzare fori su lamiere metalliche, utilizzabili anche su plastica, resine, legno e materiali multistrato. Affilatura dei denti ottimizzata per le massime prestazioni su metalli e multistrati, dentatura a passo variabile di 4/6 denti per pollice per facilitare l'evacuazione del truciolo, dentatura stradata per agevolare lo scarico, nastro in acciaio super rapido HSS saldato ad un corpo in acciaio speciale. Compatibile con tutti i tipi di attacchi per bimetalliche in commercio.

- **Altezza utile di taglio su lamiere:** 5 mm
- **Altezza utile del corpo:** 30 mm
- **Ø tazza 32 mm:** foro filettato 5/8"
- **Cartella:** 1,5 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, bronzo, rame

| Codice | Ø | Ø inch. | | € / cad. |
|---|---|---|---|---|
| LA1500020200014 | 14 mm | 9/16 | 1 | **9,12** |
| LA1500020200016 | 16 mm | 5/8 | 1 | **9,23** |
| LA1500020200017 | 17 mm | 11/16 | 1 | **9,35** |
| LA1500020200019 | 19 mm | 3/4 | 1 | **9,35** |
| LA1500020200020 | 20 mm | - | 1 | **9,35** |
| LA1500020200021 | 21 mm | 13/16 | 1 | **9,35** |
| LA1500020200022 | 22 mm | 7/8 | 1 | **9,46** |
| LA1500020200024 | 24 mm | 15/16 | 1 | **9,58** |
| LA1500020200025 | 25 mm | 1 | 1 | **9,69** |
| LA1500020200027 | 27 mm | 1 1/16 | 1 | **9,80** |
| LA1500020200029 | 29 mm | 1 1/8 | 1 | **9,92** |
| LA1500020200030 | 30 mm | 1 3/16 | 1 | **10,15** |
| LA1500020200032 | 32 mm | 1 1/4 | 1 | **10,37** |
| LA1500020200033 | 33 mm | 1 5/16 | 1 | **10,94** |
| LA1500020200035 | 35 mm | 1 3/8 | 1 | **11,06** |
| LA1500020200037 | 37 mm | 1 7/16 | 1 | **11,17** |
| LA1500020200038 | 38 mm | 1 1/2 | 1 | **11,51** |
| LA1500020200040 | 40 mm | 1 9/16 | 1 | **12,20** |
| LA1500020200041 | 41 mm | 1 5/8 | 1 | **12,31** |
| LA1500020200043 | 43 mm | 1 11/16 | 1 | **12,77** |
| LA1500020200044 | 44 mm | 1 3/4 | 1 | **12,88** |
| LA1500020200045 | 45 mm | - | 1 | **13,00** |
| LA1500020200046 | 46 mm | 1 13/16 | 1 | **13,00** |
| LA1500020200048 | 48 mm | 1 7/8 | 1 | **13,11** |
| LA1500020200050 | 50 mm | - | 1 | **13,22** |
| LA1500020200051 | 51 mm | 2 | 1 | **13,22** |
| LA1500020200052 | 52 mm | 2 2/16 | 1 | **15,85** |
| LA1500020200054 | 54 mm | 2 1/8 | 1 | **15,85** |

| Codice | Ø | Ø inch. | | € / cad. |
|---|---|---|---|---|
| LA1500020200055 | 55 mm | - | 1 | **15,85** |
| LA1500020200057 | 57 mm | 2 1/4 | 1 | **15,85** |
| LA1500020200059 | 59 mm | 2 5/16 | 1 | **15,85** |
| LA1500020200060 | 60 mm | 2 3/8 | 1 | **15,85** |
| LA1500020200062 | 62 mm | - | 1 | **17,10** |
| LA1500020200064 | 64 mm | 2 1/2 | 1 | **17,21** |
| LA1500020200065 | 65 mm | 2 9/16 | 1 | **17,78** |
| LA1500020200067 | 67 mm | 2 5/8 | 1 | **17,78** |
| LA1500020200068 | 68 mm | - | 1 | **17,78** |
| LA1500020200070 | 70 mm | 2 3/4 | 1 | **18,47** |
| LA1500020200073 | 73 mm | 2 7/8 | 1 | **18,81** |
| LA1500020200075 | 75 mm | - | 1 | **19,04** |
| LA1500020200076 | 76 mm | 3 | 1 | **19,04** |
| LA1500020200079 | 79 mm | 3 1/8 | 1 | **19,61** |
| LA1500020200083 | 83 mm | 3 1/4 | 1 | **19,72** |
| LA1500020200086 | 86 mm | 3 3/8 | 1 | **20,52** |
| LA1500020200089 | 89 mm | 3 1/2 | 1 | **21,20** |
| LA1500020200092 | 92 mm | 3 5/8 | 1 | **21,77** |
| LA1500020200095 | 95 mm | 3 3/4 | 1 | **24,40** |
| LA1500020200098 | 98 mm | 3 7/8 | 1 | **26,33** |
| LA1500020200100 | 100 mm | - | 1 | **27,02** |
| LA1500020200102 | 102 mm | 4 | 1 | **27,02** |
| LA1500020200105 | 105 mm | 4 1/8 | 1 | **30,32** |
| LA1500020200108 | 108 mm | 4 1/4 | 1 | **31,58** |
| LA1500020200111 | 111 mm | 4 3/8 | 1 | **33,52** |
| LA1500020200114 | 114 mm | 4 1/2 | 1 | **36,82** |
| LA1500020200121 | 121 mm | 4 3/4 | 1 | **44,46** |
| LA1500020200127 | 127 mm | 5 | 1 | **47,42** |

## Seghe a tazza bimetalliche




### Caratteristiche

Seghe a tazza bimetalliche ideali per realizzare fori su lamiere metalliche, utilizzabili anche su plastica, resine, legno e materiali multistrato. Affilatura dei denti ottimizzata per le massime prestazioni su metalli e multistrati, dentatura a passo variabile di 4/6 denti per pollice per facilitare l'evacuazione del truciolo, dentatura stradata per agevolare lo scarico, nastro in acciaio super rapido HSS saldato ad un corpo in acciaio speciale. Compatibile con tutti i tipi di attacchi per bimetalliche in commercio.

- **Altezza utile di taglio su lamiere:** 5 mm
- **Altezza utile del corpo:** 30 mm
- **Ø tazza 32 mm:** foro filettato 5/8"
- **Cartella:** 1,5 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, bronzo, rame

| Codice | Ø | Ø inch. | | € / cad. |
|---|---|---|---|---|
| LA1500020200133 | 133 mm | 5 1/4 | 1 | **49,82** |
| LA1500020200140 | 140 mm | 5 1/2 | 1 | **51,07** |
| LA1500020200146 | 146 mm | 5 3/4 | 1 | **53,35** |
| LA1500020200152 | 152 mm | 6 | 1 | **54,60** |
| LA1500020200160 | 160 mm | 6 5/16 | 1 | **104,42** |
| LA1500020200168 | 168 mm | 6 5/8 | 1 | **116,28** |
| LA1500020200177 | 177 mm | 7 | 1 | **119,81** |
| LA1500020200185 | 185 mm | - | 1 | **120,95** |
| LA1500020200200 | 200 mm | 7 7/8 | 1 | **122,20** |
| LA1500020200210 | 210 mm | 8 1/4 | 1 | **129,27** |
| LA1500020200250 | 250 mm | - | 1 | **208,73** |

## Seghe a tazza bimetalliche HSS - M42, cobalto 8%




### Caratteristiche

Seghe a tazza bimetalliche ideali per realizzare fori su lamiere metalliche, acciaio inox e acciai alto legati. Affilatura dei denti ottimizzata per le massime prestazioni su metalli e multistrati, dentatura a passo variabile di 4/6 denti per pollice per facilitare l'evacuazione del truciolo, dentatura stradata per agevolare lo scarico, nastro in acciaio super rapido HSS saldato ad un corpo in acciaio speciale. Compatibile con tutti i tipi di attacchi per bimetalliche in commercio.

- **Altezza utile di taglio su lamiere:** 5 mm
- **Altezza utile del corpo:** 30 mm
- **Ø tazza 32 mm:** foro filettato 5/8"
- **Cartella:** 1,5 mm
- **Campi d'applicazione:** inox, ferro, acciaio, ottone, ghisa, bronzo, rame

| Codice | Ø | Ø inch. | | € / cad. |
|---|---|---|---|---|
| LA1500020100014 | 14 mm | 9/16 | 1 | **11,41** |
| LA1500020100016 | 16 mm | 5/8 | 1 | **11,64** |
| LA1500020100017 | 17 mm | 11/16 | 1 | **11,75** |
| LA1500020100019 | 19 mm | 3/4 | 1 | **11,75** |
| LA1500020100020 | 20 mm | - | 1 | **11,75** |
| LA1500020100021 | 21 mm | 13/16 | 1 | **11,75** |
| LA1500020100022 | 22 mm | 7/8 | 1 | **11,87** |
| LA1500020100024 | 24 mm | 15/16 | 1 | **11,98** |
| LA1500020100025 | 25 mm | 1 | 1 | **12,21** |
| LA1500020100027 | 27 mm | 1 1/16 | 1 | **13,25** |
| LA1500020100029 | 29 mm | 1 1/8 | 1 | **13,50** |
| LA1500020100030 | 30 mm | 1 3/16 | 1 | **13,74** |
| LA1500020100032 | 32 mm | 1 1/4 | 1 | **14,11** |
| LA1500020100033 | 33 mm | 1 5/16 | 1 | **14,72** |
| LA1500020100035 | 35 mm | 1 3/8 | 1 | **14,97** |
| LA1500020100037 | 37 mm | 1 7/16 | 1 | **15,09** |
| LA1500020100038 | 38 mm | 1 1/2 | 1 | **15,58** |
| LA1500020100040 | 40 mm | 1 9/16 | 1 | **16,44** |
| LA1500020100041 | 41 mm | 1 5/8 | 1 | **16,56** |
| LA1500020100043 | 43 mm | 1 11/16 | 1 | **17,18** |
| LA1500020100044 | 44 mm | 1 3/4 | 1 | **17,42** |
| LA1500020100046 | 46 mm | 1 13/16 | 1 | **17,54** |
| LA1500020100048 | 48 mm | 1 7/8 | 1 | **17,67** |
| LA1500020100051 | 50 mm | 2 | 1 | **17,79** |
| LA1500020100052 | 51 mm | 2 1/16 | 1 | **19,97** |
| LA1500020100054 | 52 mm | 2 1/8 | 1 | **21,47** |
| LA1500020100055 | 54 mm | - | 1 | **21,47** |
| LA1500020100057 | 55 mm | 2 1/4 | 1 | **21,47** |

| Codice | Ø | Ø inch. | | € / cad. |
|---|---|---|---|---|
| LA1500020100059 | 57 mm | 2 5/16 | 1 | **21,47** |
| LA1500020100060 | 59 mm | 2 3/8 | 1 | **21,47** |
| LA1500020100064 | 60 mm | 2 1/2 | 1 | **23,31** |
| LA1500020100065 | 64 mm | 2 9/16 | 1 | **23,92** |
| LA1500020100067 | 65 mm | 2 5/8 | 1 | **23,92** |
| LA1500020100068 | 67 mm | - | 1 | **23,92** |
| LA1500020100070 | 68 mm | 2 3/4 | 1 | **25,15** |
| LA1500020100073 | 70 mm | 2 7/8 | 1 | **25,40** |
| LA1500020100076 | 73 mm | 3 | 1 | **25,76** |
| LA1500020100079 | 76 mm | 3 1/8 | 1 | **26,38** |
| LA1500020100083 | 79 mm | 3 1/4 | 1 | **26,99** |
| LA1500020100086 | 83 mm | 3 3/8 | 1 | **27,61** |
| LA1500020100089 | 86 mm | 3 1/2 | 1 | **28,83** |
| LA1500020100092 | 89 mm | 3 5/8 | 1 | **29,45** |
| LA1500020100095 | 92 mm | 3 3/4 | 1 | **33,13** |
| LA1500020100098 | 95 mm | 3 7/8 | 1 | **35,58** |
| LA1500020100102 | 98 mm | 4 | 1 | **36,81** |
| LA1500020100105 | 102 mm | 4 1/8 | 1 | **41,10** |
| LA1500020100108 | 105 mm | 4 1/4 | 1 | **42,94** |
| LA1500020100111 | 108 mm | 4 3/8 | 1 | **45,39** |
| LA1500020100114 | 111 mm | 4 1/2 | 1 | **46,78** |
| LA1500020100121 | 114 mm | 4 3/4 | 1 | **60,12** |
| LA1500020100127 | 121 mm | 5 | 1 | **59,33** |
| LA1500020100133 | 127 mm | 5 1/4 | 1 | **67,48** |
| LA1500020100140 | 133 mm | 5 1/2 | 1 | **68,71** |
| LA1500020100152 | 140 mm | 6 | 1 | **73,61** |

## Attacco rapido Easy Quick



### Caratteristiche

Attacco ad innesto rapido compatibile con tutte le seghe bimetalliche incommercio e tazze simili. Innesto preciso e rapido, punta intercambiabile, gambo sfaccettato Ø 10 mm, tampone di innesto disponibile nelle due filettature: 1/2" per seghe Ø 32 mm.

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| LA150202020152P | Attacco Easy Quick per seghe Ø 14-152mm | 1 | **23,86** |
| LA150202020152T | Tamponi per Easy Quick, 6 pz: 2xØ14-30mm, 4xØ32-152mm | 1 | **13,68** |

## Punte guida Ø 1/4" per seghe bimetalliche



### Caratteristiche

Punte guida Ø 1/4" per seghe bimetalliche

| Codice | Lunghezza | Sfaccettature | | € / cad. |
|---|---|---|---|---|
| LA1520020200001 | 80 mm | 1 | 1 | **5,13** |
| LA1520020200002 | 103 mm | -- | 1 | **5,24** |

## Alberi completi di punta per seghe bimetalliche



### Caratteristiche

Alberi completi di punta per seghe bimetalliche

| Codice | Attacco | Trascinatori | Gambo | Ø seghe | Punta | | € / cad. |
|---|---|---|---|---|---|---|---|
| LA1501020203011 | esagonale forato | no | 11,2 mm | 14-30 mm | LA1520020200001 | 1 | **11,86** |
| LA1501020203010 | esagonale pieno | no | 10 mm | 14-30 mm | LA1520020200002 | 1 | **12,42** |
| LA150102020030S | -- | no | sds+ | 14-30 mm | LA1520020200001 | 1 | **23,72** |
| LA1501020202510 | esagonale pieno | sì | 10 mm | 32-250 mm | LA1520020200001 | 1 | **19,04** |
| LA1501020202511 | esagonale forato | sì | 11,2 mm | 32-250 mm | LA1520020200002 | 1 | **19,04** |
| LA150102020025S | -- | sì | sds+ | 32-250 mm | LA1520020200001 | 1 | **35,57** |

## Albero completo di punta e ghiera per seghe bimetalliche



### Caratteristiche

Albero completo di punta e ghiera per seghe bimetalliche

| Codice | Attacco | Trascinatori | Gambo | Ø seghe | Punta | | € / cad. |
|---|---|---|---|---|---|---|---|
| LA150102020251G | esagonale pieno | sì | 11,2 mm | 32-250 mm | LA1520020200001 | 1 | **28,89** |

## Kit seghe a tazza per utilizzi diversi



### Caratteristiche

Kit seghe a tazza per utilizzi diversi

| Codice | Descrizione | Contenuto | | € / cad. |
|---|---|---|---|---|
| LA15000202005KT | kit per elettricisti | 9 pz: gambo 6,5, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, riduzione filettata 1/2"-5/8", Ø 22, 29, 35, 44, 51, 64 | 1 | **128,82** |
| LA15000202004KT | kit per elettricisti | 15 pz: gambo 11,2, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, prolunga L 300 mm, gambo 11,2, Ø 20, 22, 29, 35, 38, 44, 51, 64, 76, 92, 105, 114 | 1 | **289,55** |
| LA15000202007KT | kit per industria | 19 pz: gambo 6,5, Ø seghe 14-30, gambo 11,2, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, prolunga L 300 mm, gambo 11,2, Ø 19, 22, 29, 35, 38, 44, 51, 57, 64, 76, 83, 92, 95, 108, 114 | 1 | **401,27** |
| LA15000202001KT | kit per elettricisti | 9 pz: gambo 6,5, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, riduzione filettata 1/2"-5/8", Ø 16, 20, 25, 32, 40, 51 | 1 | **118,56** |
| LA15000202003KT | kit per meccanici | 7 pz: gambo 10, Ø seghe 14-30, riduzione filettata 1/2"-5/8", Ø 22, 25, 29, 32, 38 | 1 | **83,22** |
| LA15000202002KT | kit per idraulici | 9 pz: gambo 6,5, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, riduzione filettata 1/2"-5/8", Ø 19, 22, 32, 38, 44, 57 | 1 | **121,98** |
| LA15000202006KT | kit per fabbri | 9 pz: gambo 6,5, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, riduzione filettata 1/2"-5/8", Ø 22, 25, 32, 38, 44, 54 | 1 | **125,40** |
| LA15000202008KT | kit per manutentori | 12 pz: gambo 11,2, Ø seghe 14-30, gambo 11,2, Ø seghe 32-250, riduzione filettata 1/2"-5/8", Ø 19, 22, 29, 35, 38, 44, 51, 57, 64 | 1 | **148,20** |
| LA15000202009KT | kit espositore | 53 pz: 6 pz. gambo 11,2, Ø seghe 32-250, 3 pz. gambo 11,2, Ø seghe 14-30, 2xØ 20, 22, 24, 25, 27, 30, 32, 35, 38, 40, 43, 46, 48, 51, 54, 60, 65, 70, 79, 83, 89, 102 | 1 | **829,90** |

## Frese a tazza in HSS con scarico laterale



### Caratteristiche

Fresa a tazza HSS con scarico laterale che agevola l'evacuazione del truciolo e permette una migliore refrigerazione del dente. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino.

- **Diametro anello:** da 8 a 150 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3600202000008 | 8 mm | 1 | **12,47** |
| LA3600202000009 | 9 mm | 1 | **12,47** |
| LA3600202000010 | 10 mm | 1 | **12,47** |
| LA3600202000011 | 11 mm | 1 | **13,03** |
| LA3600202000115 | 11,5 mm | 1 | **14,72** |
| LA3600202000012 | 12 mm | 1 | **13,37** |
| LA3600202000125 | 12,5 mm | 1 | **15,73** |
| LA3600202000127 | 12,7 mm | 1 | **15,73** |
| LA3600202000013 | 13 mm | 1 | **14,27** |
| LA3600202000014 | 14 mm | 1 | **14,49** |
| LA3600202000015 | 15 mm | 1 | **15,39** |
| LA3600202000016 | 16 mm | 1 | **15,62** |
| LA3600202000017 | 17 mm | 1 | **15,84** |
| LA3600202000018 | 18 mm | 1 | **16,07** |
| LA3600202000184 | 18,4 mm | 1 | **17,98** |
| LA3600202000019 | 19 mm | 1 | **16,29** |
| LA3600202000020 | 20 mm | 1 | **16,63** |
| LA3600202000021 | 21 mm | 1 | **17,30** |
| LA3600202000022 | 22 mm | 1 | **18,09** |
| LA3600202000228 | 22,8 mm | 1 | **20,90** |
| LA3600202000023 | 23 mm | 1 | **18,99** |
| LA3600202000235 | 23,5 mm | 1 | **21,80** |
| LA3600202000024 | 24 mm | 1 | **19,78** |
| LA3600202000025 | 25 mm | 1 | **20,56** |
| LA3600202000254 | 25,4 mm | 1 | **23,60** |
| LA3600202000026 | 26 mm | 1 | **21,46** |
| LA3600202000027 | 27 mm | 1 | **22,47** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3600202000028 | 28 mm | 1 | **23,03** |
| LA3600202000029 | 29 mm | 1 | **23,82** |
| LA3600202000030 | 30 mm | 1 | **24,72** |
| LA3600202000305 | 30,5 mm | 1 | **28,09** |
| LA3600202000031 | 31 mm | 1 | **25,51** |
| LA3600202000032 | 32 mm | 1 | **26,40** |
| LA3600202000033 | 33 mm | 1 | **27,19** |
| LA3600202000034 | 34 mm | 1 | **28,09** |
| LA3600202000035 | 35 mm | 1 | **28,88** |
| LA3600202000036 | 36 mm | 1 | **30,67** |
| LA3600202000037 | 37 mm | 1 | **31,46** |
| LA3600202000038 | 38 mm | 1 | **32,47** |
| LA3600202000039 | 39 mm | 1 | **33,37** |
| LA3600202000040 | 40 mm | 1 | **34,04** |
| LA3600202000041 | 41 mm | 1 | **35,06** |
| LA3600202000042 | 42 mm | 1 | **35,73** |
| LA3600202000043 | 43 mm | 1 | **36,74** |
| LA3600202000044 | 44 mm | 1 | **37,53** |
| LA3600202000045 | 45 mm | 1 | **38,43** |
| LA3600202000046 | 46 mm | 1 | **39,33** |
| LA3600202000047 | 47 mm | 1 | **40,11** |
| LA3600202000048 | 48 mm | 1 | **40,90** |
| LA3600202000049 | 49 mm | 1 | **41,91** |
| LA3600202000050 | 50 mm | 1 | **42,58** |
| LA3600202000051 | 51 mm | 1 | **53,03** |
| LA3600202000052 | 52 mm | 1 | **54,27** |
| LA3600202000053 | 53 mm | 1 | **55,17** |

## Frese a tazza in HSS con scarico laterale



### Caratteristiche

Fresa a tazza HSS con scarico laterale che agevola l'evacuazione del truciolo e permette una migliore refrigerazione del dente. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino.

- **Diametro anello:** da 8 a 150 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3600202000054 | 54 mm | 1 | **56,18** |
| LA3600202000055 | 55 mm | 1 | **57,19** |
| LA3600202000056 | 56 mm | 1 | **58,43** |
| LA3600202000057 | 57 mm | 1 | **59,55** |
| LA3600202000058 | 58 mm | 1 | **60,34** |
| LA3600202000059 | 59 mm | 1 | **61,35** |
| LA3600202000060 | 60 mm | 1 | **62,47** |
| LA3600202000061 | 61 mm | 1 | **73,26** |
| LA3600202000062 | 62 mm | 1 | **74,49** |
| LA3600202000063 | 63 mm | 1 | **75,73** |
| LA3600202000064 | 64 mm | 1 | **76,85** |
| LA3600202000065 | 65 mm | 1 | **78,09** |
| LA3600202000066 | 66 mm | 1 | **79,21** |
| LA3600202000067 | 67 mm | 1 | **80,45** |
| LA3600202000068 | 68 mm | 1 | **81,68** |
| LA3600202000069 | 69 mm | 1 | **82,81** |
| LA3600202000070 | 70 mm | 1 | **84,04** |
| LA3600202000071 | 71 mm | 1 | **88,20** |
| LA3600202000072 | 72 mm | 1 | **89,44** |
| LA3600202000073 | 73 mm | 1 | **90,56** |
| LA3600202000074 | 74 mm | 1 | **91,80** |
| LA3600202000075 | 75 mm | 1 | **92,92** |
| LA3600202000076 | 76 mm | 1 | **94,16** |
| LA3600202000077 | 77 mm | 1 | **95,39** |
| LA3600202000078 | 78 mm | 1 | **96,63** |
| LA3600202000079 | 79 mm | 1 | **97,75** |
| LA3600202000080 | 80 mm | 1 | **98,88** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3600202000081 | 81 mm | 1 | **113,26** |
| LA3600202000082 | 82 mm | 1 | **113,26** |
| LA3600202000083 | 83 mm | 1 | **113,26** |
| LA3600202000084 | 84 mm | 1 | **113,26** |
| LA3600202000085 | 85 mm | 1 | **113,26** |
| LA3600202000086 | 86 mm | 1 | **119,10** |
| LA3600202000087 | 87 mm | 1 | **119,10** |
| LA3600202000088 | 88 mm | 1 | **119,10** |
| LA3600202000089 | 89 mm | 1 | **119,10** |
| LA3600202000090 | 90 mm | 1 | **119,10** |
| LA3600202000092 | 92 mm | 1 | **126,29** |
| LA3600202000093 | 93 mm | 1 | **126,29** |
| LA3600202000095 | 95 mm | 1 | **126,29** |
| LA3600202000100 | 100 mm | 1 | **133,48** |
| LA3600202000105 | 110 mm | 1 | **179,77** |
| LA3600202000110 | 105 mm | 1 | **202,24** |
| LA3600202000120 | 120 mm | 1 | **258,42** |
| LA3600202000130 | 130 mm | 1 | **297,75** |
| LA3600202000140 | 140 mm | 1 | **325,84** |
| LA3600202000150 | 150 mm | 1 | **359,55** |
| LA3600202001150 | 115 mm | 1 | **235,95** |
| LA3600202001250 | 125 mm | 1 | **264,04** |

## Frese a tazza in HSS con rivestimento TiN



### Caratteristiche

Fresa a tazza HSS con scarico laterale e rivestimento TiN specifico ed ottimizzato per la foratura di metalli. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino. Il rivestimento in modalità "multistrato" assicura una maggiore durata del tagliente, un aumento della durezza superficiale, una notevole riduzione degli attriti, una maggiore capacità di evacuazione del truciolo e, quindi, migliore produttività.

- **Colore:** giallo oro.
- **Diametro anello:** da 8 a 120 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA360020200008T | 8 mm | 1 | **19,66** |
| LA360020200009T | 9 mm | 1 | **19,66** |
| LA360020200010T | 10 mm | 1 | **19,66** |
| LA360020200011T | 11 mm | 1 | **20,22** |
| LA360020200012T | 12 mm | 1 | **21,12** |
| LA360020200013T | 13 mm | 1 | **21,91** |
| LA360020200014T | 14 mm | 1 | **22,25** |
| LA360020200015T | 15 mm | 1 | **23,03** |
| LA360020200016T | 16 mm | 1 | **23,82** |
| LA360020200017T | 17 mm | 1 | **24,38** |
| LA360020200018T | 18 mm | 1 | **24,94** |
| LA360020200019T | 19 mm | 1 | **25,84** |
| LA360020200020T | 20 mm | 1 | **26,18** |
| LA360020200021T | 21 mm | 1 | **27,42** |
| LA360020200022T | 22 mm | 1 | **28,54** |
| LA360020200023T | 23 mm | 1 | **30,34** |
| LA360020200024T | 24 mm | 1 | **31,57** |
| LA360020200025T | 25 mm | 1 | **32,81** |
| LA360020200026T | 26 mm | 1 | **34,61** |
| LA360020200027T | 27 mm | 1 | **35,73** |
| LA360020200028T | 28 mm | 1 | **36,85** |
| LA360020200029T | 29 mm | 1 | **38,20** |
| LA360020200030T | 30 mm | 1 | **39,33** |
| LA360020200031T | 31 mm | 1 | **41,57** |
| LA360020200032T | 32 mm | 1 | **42,92** |
| LA360020200033T | 33 mm | 1 | **44,04** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA360020200034T | 34 mm | 1 | **45,28** |
| LA360020200035T | 35 mm | 1 | **46,40** |
| LA360020200036T | 36 mm | 1 | **48,88** |
| LA360020200037T | 37 mm | 1 | **50,00** |
| LA360020200038T | 38 mm | 1 | **51,24** |
| LA360020200039T | 39 mm | 1 | **52,36** |
| LA360020200040T | 40 mm | 1 | **53,59** |
| LA360020200041T | 41 mm | 1 | **58,43** |
| LA360020200042T | 42 mm | 1 | **61,34** |
| LA360020200043T | 43 mm | 1 | **60,67** |
| LA360020200044T | 44 mm | 1 | **61,80** |
| LA360020200045T | 45 mm | 1 | **62,92** |
| LA360020200046T | 46 mm | 1 | **64,04** |
| LA360020200047T | 47 mm | 1 | **65,39** |
| LA360020200048T | 48 mm | 1 | **66,63** |
| LA360020200049T | 49 mm | 1 | **67,86** |
| LA360020200050T | 50 mm | 1 | **69,10** |
| LA360020200052T | 52 mm | 1 | **83,37** |
| LA360020200055T | 55 mm | 1 | **87,08** |
| LA360020200056T | 56 mm | 1 | **90,11** |
| LA360020200059T | 59 mm | 1 | **93,03** |
| LA360020200060T | 60 mm | 1 | **94,16** |
| LA360020200062T | 62 mm | 1 | **109,55** |
| LA360020200065T | 65 mm | 1 | **113,14** |
| LA360020200070T | 70 mm | 1 | **120,22** |
| LA360020200075T | 75 mm | 1 | **133,48** |

## Frese a tazza in HSS con rivestimento TiN



### Caratteristiche

Fresa a tazza HSS con scarico laterale e rivestimento TiN specifico ed ottimizzato per la foratura di metalli. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino. Il rivestimento in modalità "multistrato" assicura una maggiore durata del tagliente, un aumento della durezza superficiale, una notevole riduzione degli attriti, una maggiore capacità di evacuazione del truciolo e, quindi, migliore produttività.

- **Colore:** giallo oro.
- **Diametro anello:** da 8 a 120 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA360020200080T | 80 mm | 1 | **141,57** |
| LA360020200085T | 85 mm | 1 | **157,30** |
| LA360020200090T | 90 mm | 1 | **165,73** |
| LA360020200095T | 95 mm | 1 | **176,40** |
| LA360020200100T | 100 mm | 1 | **187,64** |
| LA360020200110T | 110 mm | 1 | **262,92** |
| LA360020200120T | 120 mm | 1 | **317,97** |

## Frese a tazza in HSS con rivestimento TiAlN



### Caratteristiche

Fresa a tazza HSS con scarico laterale e rivestimento TiAlN specifico ed ottimizzato per la foratura di metalli tenaci. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino. Lo specifico rivestimento migliora la produttività dell'utensile, all'aumentare della temperatura il tagliente non subisce danni (fino a 900°C), permette velocità più sostenute e/o correzione dell'eventuale errore dell'utilizzatore, consente l'utilizzo a secco. Realizzato con 1500 microstrati di 2,5-3,5 micron.

- **Colore:** nero-viola.
- **Diametro anello:** da 8 a 120 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio inox, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA36002020008TL | 8 mm | 1 | **21,35** |
| LA36002020009TL | 9 mm | 1 | **21,35** |
| LA36002020010TL | 10 mm | 1 | **21,35** |
| LA36002020011TL | 11 mm | 1 | **21,91** |
| LA36002020012TL | 12 mm | 1 | **23,03** |
| LA36002020013TL | 13 mm | 1 | **23,82** |
| LA36002020014TL | 14 mm | 1 | **24,38** |
| LA36002020015TL | 15 mm | 1 | **24,94** |
| LA36002020016TL | 16 mm | 1 | **25,84** |
| LA36002020017TL | 17 mm | 1 | **26,63** |
| LA36002020018TL | 18 mm | 1 | **31,46** |
| LA36002020019TL | 19 mm | 1 | **32,36** |
| LA36002020020TL | 20 mm | 1 | **32,70** |
| LA36002020021TL | 21 mm | 1 | **34,04** |
| LA36002020022TL | 22 mm | 1 | **35,39** |
| LA36002020023TL | 23 mm | 1 | **37,30** |
| LA36002020024TL | 24 mm | 1 | **38,65** |
| LA36002020025TL | 25 mm | 1 | **40,45** |
| LA36002020026TL | 26 mm | 1 | **41,68** |
| LA36002020027TL | 27 mm | 1 | **42,81** |
| LA36002020028TL | 28 mm | 1 | **44,04** |
| LA36002020029TL | 29 mm | 1 | **45,84** |
| LA36002020030TL | 30 mm | 1 | **47,64** |
| LA36002020031TL | 31 mm | 1 | **50,11** |
| LA36002020032TL | 32 mm | 1 | **51,24** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA36002020033TL | 33 mm | 1 | **52,36** |
| LA36002020034TL | 34 mm | 1 | **53,59** |
| LA36002020035TL | 35 mm | 1 | **54,83** |
| LA36002020036TL | 36 mm | 1 | **57,19** |
| LA36002020037TL | 37 mm | 1 | **58,43** |
| LA36002020038TL | 38 mm | 1 | **60,79** |
| LA36002020039TL | 39 mm | 1 | **61,35** |
| LA36002020040TL | 40 mm | 1 | **63,15** |
| LA36002020041TL | 41 mm | 1 | **69,10** |
| LA36002020042TL | 42 mm | 1 | **70,34** |
| LA36002020043TL | 43 mm | 1 | **71,46** |
| LA36002020044TL | 44 mm | 1 | **72,70** |
| LA36002020045TL | 45 mm | 1 | **73,93** |
| LA36002020046TL | 46 mm | 1 | **75,06** |
| LA36002020047TL | 47 mm | 1 | **76,18** |
| LA36002020048TL | 48 mm | 1 | **77,53** |
| LA36002020049TL | 49 mm | 1 | **78,65** |
| LA36002020050TL | 50 mm | 1 | **79,77** |
| LA36002020052TL | 52 mm | 1 | **91,01** |
| LA36002020055TL | 55 mm | 1 | **94,38** |
| LA36002020060TL | 60 mm | 1 | **102,25** |
| LA36002020064TL | 64 mm | 1 | **122,47** |
| LA36002020065TL | 65 mm | 1 | **122,47** |
| LA36002020070TL | 70 mm | 1 | **125,45** |
| LA36002020075TL | 75 mm | 1 | **139,63** |

## Frese a tazza in HSS con rivestimento TiAlN



### Caratteristiche

Fresa a tazza HSS con scarico laterale e rivestimento TiAlN specifico ed ottimizzato per la foratura di metalli tenaci. Corpo rettificato, marcatura laser, profilo totalmente riaffilabile, molla per espulsione del dischetto di risulta, attacco sfaccettato per non scivolare nel mandrino. Lo specifico rivestimento migliora la produttività dell'utensile, all'aumentare della temperatura il tagliente non subisce danni (fino a 900°C), permette velocità più sostenute e/o correzione dell'eventuale errore dell'utilizzatore, consente l'utilizzo a secco. Realizzato con 1500 microstrati di 2,5-3,5 micron.

- **Colore:** nero-viola.
- **Diametro anello:** da 8 a 120 mm
- **Durezza dente:** 64/65 HRC
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 12 mm
- **Campi d'applicazione:** ferro, acciaio inox, ottone, ghisa, bronzo

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA36002020077TL | 77 mm | 1 | **148,36** |
| LA36002020080TL | 80 mm | 1 | **148,36** |
| LA36002020085TL | 85 mm | 1 | **163,63** |
| LA36002020090TL | 90 mm | 1 | **172,35** |
| LA36002020095TL | 95 mm | 1 | **184,35** |
| LA36002020100TL | 100 mm | 1 | **196,35** |
| LA36002020110TL | 110 mm | 1 | **270,53** |
| LA36002020120TL | 120 mm | 1 | **325,07** |

## Frese a tazza in HSS-E eccentriche



### Caratteristiche

Fresa a tazza HSS-E eccentrica, con scarico laterale e cartella a spessore variabile per garantire una facile espulsione del dischetto di risulta. Corpo rettificato in acciaio super rapido HSS M35; ottime performance anche su materiali abrasivi e acciaio inox, grazie all'elevato tenore di cobalto; ideale anche per utilizzo con macchine stazionarie. H utile di taglio 15 mm; profondità utile 18 mm.

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA350020200012E | 12 mm | 1 | **12,07** |
| LA350020200013E | 13 mm | 1 | **13,07** |
| LA350020200014E | 14 mm | 1 | **14,08** |
| LA350020200015E | 15 mm | 1 | **15,09** |
| LA350020200016E | 16 mm | 1 | **16,09** |
| LA350020200017E | 17 mm | 1 | **17,11** |
| LA350020200018E | 18 mm | 1 | **18,14** |
| LA350020200019E | 19 mm | 1 | **19,11** |
| LA350020200020E | 20 mm | 1 | **20,12** |
| LA350020200021E | 21 mm | 1 | **21,10** |
| LA350020200022E | 22 mm | 1 | **22,13** |
| LA350020200023E | 23 mm | 1 | **23,13** |
| LA350020200024E | 24 mm | 1 | **24,14** |
| LA350020200025E | 25 mm | 1 | **25,14** |
| LA350020200026E | 26 mm | 1 | **26,12** |
| LA350020200027E | 27 mm | 1 | **27,16** |
| LA350020200028E | 28 mm | 1 | **28,18** |
| LA350020200029E | 29 mm | 1 | **29,17** |
| LA350020200030E | 30 mm | 1 | **30,17** |
| LA350020200031E | 31 mm | 1 | **31,18** |
| LA350020200032E | 32 mm | 1 | **32,17** |
| LA350020200033E | 33 mm | 1 | **33,19** |
| LA350020200034E | 34 mm | 1 | **34,23** |
| LA350020200035E | 35 mm | 1 | **35,20** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA350020200036E | 36 mm | 1 | **36,21** |
| LA350020200037E | 37 mm | 1 | **37,21** |
| LA350020200038E | 38 mm | 1 | **38,22** |
| LA350020200039E | 39 mm | 1 | **39,24** |
| LA350020200040E | 40 mm | 1 | **40,23** |
| LA350020200041E | 41 mm | 1 | **42,20** |
| LA350020200042E | 42 mm | 1 | **43,23** |
| LA350020200043E | 43 mm | 1 | **44,25** |
| LA350020200044E | 44 mm | 1 | **45,29** |
| LA350020200045E | 45 mm | 1 | **46,26** |
| LA350020200046E | 46 mm | 1 | **47,27** |
| LA350020200047E | 47 mm | 1 | **48,28** |
| LA350020200048E | 48 mm | 1 | **49,28** |
| LA350020200049E | 49 mm | 1 | **50,31** |
| LA350020200050E | 50 mm | 1 | **51,34** |
| LA350020200052E | 52 mm | 1 | **66,39** |
| LA350020200055E | 55 mm | 1 | **70,38** |
| LA350020200060E | 60 mm | 1 | **76,44** |
| LA350020200065E | 65 mm | 1 | **85,57** |
| LA350020200070E | 70 mm | 1 | **92,51** |
| LA350020200075E | 75 mm | 1 | **112,66** |
| LA350020200080E | 80 mm | 1 | **120,69** |

## Frese a tazza T.C.T. per inox



### Caratteristiche

Fresa a tazza con denti in metallo duro dotata di una corona realizzata tramite l'inserzione di denti in carburo di tungsteno su di un corpo di acciaio speciale, che ne fa l'utensile ideale per la foratura di precisione degli acciai altamente legati, degli acciai inossidabili e delle ghise dure. Molla per espulsione del dischetto di risulta, denti in metallo duro micrograna K20 saldobrasati, attacco sfaccettato per non scivolare nel mandrino, affilatura dei denti ideale per il taglio dell'acciaio inox. Questo tipo di fresa può essere usata per forare materiali ceramici di elevata durezza; inoltre lavorando nel rispetto delle prescrizioni circa le velocità di taglio e l'uso di lubrorefrigerante è un prodotto che possiede una lunga durata.

- **Diametro anello:** da 15 a 200 mm
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 14 mm
- **Dente:** 2,5 mm
- **Campi d'applicazione:** acciaio inox, ferro, acciaio, ottone, ghisa, bronzo, rame

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3900202000015 | 15 mm | 1 | **39,95** |
| LA3900202000016 | 16 mm | 1 | **39,95** |
| LA3900202000017 | 17 mm | 1 | **39,95** |
| LA3900202000018 | 18 mm | 1 | **39,95** |
| LA3900202000019 | 19 mm | 1 | **39,95** |
| LA3900202000020 | 20 mm | 1 | **39,95** |
| LA3900202000021 | 21 mm | 1 | **39,95** |
| LA3900202000022 | 22 mm | 1 | **39,95** |
| LA3900202000023 | 23 mm | 1 | **44,27** |
| LA3900202000024 | 24 mm | 1 | **44,27** |
| LA3900202000025 | 25 mm | 1 | **44,27** |
| LA3900202000026 | 26 mm | 1 | **51,51** |
| LA3900202000027 | 27 mm | 1 | **51,51** |
| LA3900202000028 | 28 mm | 1 | **51,51** |
| LA3900202000029 | 29 mm | 1 | **51,51** |
| LA3900202000030 | 30 mm | 1 | **51,51** |
| LA3900202000031 | 31 mm | 1 | **59,39** |
| LA3900202000032 | 32 mm | 1 | **59,39** |
| LA3900202000033 | 33 mm | 1 | **59,39** |
| LA3900202000034 | 34 mm | 1 | **59,39** |
| LA3900202000035 | 35 mm | 1 | **59,39** |
| LA3900202000036 | 36 mm | 1 | **68,67** |
| LA3900202000037 | 37 mm | 1 | **68,67** |
| LA3900202000038 | 38 mm | 1 | **68,67** |
| LA3900202000039 | 39 mm | 1 | **68,67** |

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3900202000040 | 40 mm | 1 | **68,67** |
| LA3900202000041 | 41 mm | 1 | **79,04** |
| LA3900202000042 | 42 mm | 1 | **79,04** |
| LA3900202000043 | 43 mm | 1 | **79,04** |
| LA3900202000044 | 44 mm | 1 | **79,04** |
| LA3900202000045 | 45 mm | 1 | **79,04** |
| LA3900202000046 | 46 mm | 1 | **89,40** |
| LA3900202000047 | 47 mm | 1 | **89,40** |
| LA3900202000048 | 48 mm | 1 | **89,40** |
| LA3900202000049 | 49 mm | 1 | **89,40** |
| LA3900202000050 | 50 mm | 1 | **89,40** |
| LA3900202000051 | 51 mm | 1 | **98,26** |
| LA3900202000052 | 52 mm | 1 | **98,26** |
| LA3900202000053 | 53 mm | 1 | **98,26** |
| LA3900202000054 | 54 mm | 1 | **98,26** |
| LA3900202000055 | 55 mm | 1 | **98,26** |
| LA3900202000060 | 60 mm | 1 | **125,90** |
| LA3900202000065 | 65 mm | 1 | **132,81** |
| LA3900202000070 | 70 mm | 1 | **144,26** |
| LA3900202000075 | 75 mm | 1 | **155,49** |
| LA3900202000080 | 80 mm | 1 | **172,66** |
| LA3900202000085 | 85 mm | 1 | **195,90** |
| LA3900202000090 | 90 mm | 1 | **210,29** |
| LA3900202000095 | 95 mm | 1 | **218,03** |
| LA3900202000100 | 100 mm | 1 | **233,53** |

## Frese a tazza T.C.T. per inox



### Caratteristiche

Fresa a tazza con denti in metallo duro dotata di una corona realizzata tramite l'inserzione di denti in carburo di tungsteno su di un corpo di acciaio speciale, che ne fa l'utensile ideale per la foratura di precisione degli acciai altamente legati, degli acciai inossidabili e delle ghise dure. Molla per espulsione del dischetto di risulta, denti in metallo duro micrograna K20 saldobrasati, attacco sfaccettato per non scivolare nel mandrino, affilatura dei denti ideale per il taglio dell'acciaio inox. Questo tipo di fresa può essere usata per forare materiali ceramici di elevata durezza; inoltre lavorando nel rispetto delle prescrizioni circa le velocità di taglio e l'uso di lubrorefrigerante è un prodotto che possiede una lunga durata.

- **Diametro anello:** da 15 a 200 mm
- **Altezza utile di taglio:** 8 mm
- **Altezza utile del corpo:** 14 mm
- **Dente:** 2,5 mm
- **Campi d'applicazione:** acciaio inox, ferro, acciaio, ottone, ghisa, bronzo, rame

| Codice | Ø | | € / cad. |
|---|---|---|---|
| LA3900202000105 | 105 mm | 1 | **294,40** |
| LA3900202000110 | 110 mm | 1 | **326,50** |
| LA3900202000115 | 115 mm | 1 | **348,63** |
| LA3900202000120 | 120 mm | 1 | **374,09** |
| LA3900202000125 | 125 mm | 1 | **384,05** |
| LA3900202000130 | 130 mm | 1 | **398,44** |
| LA3900202000140 | 140 mm | 1 | **418,36** |
| LA3900202000150 | 150 mm | 1 | **442,71** |
| LA3900202000160 | 160 mm | 1 | **470,37** |
| LA3900202000170 | 170 mm | 1 | **517,97** |
| LA3900202000180 | 180 mm | 1 | **553,38** |
| LA3900202000200 | 200 mm | 1 | **616,47** |

## Kit frese a tazza in HSS



### Caratteristiche

Kit frese a tazza in HSS

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| LA36002020070KT | Valigetta, 7 pz: 18, 22, 25, 30, 35, 38, 50 mm | 1 | **198,54** |
| LA36002020018KT | Espositore, 18 pz: 18, 19, 20, 21, 22, …35 mm | 1 | **412,34** |
| LA36002020029KT | Espositore, 29 pz: 15, 16, 17, …39, 40, 42, 45, 50 mm | 1 | **716,69** |
| LA3600202007TKT | Valigetta, 7 pz: 18, 22, 25, 30, 35, 38, 50 mm | 1 | **316,35** |
| LA3600202018TKT | Espositore, 18 pz: 18, 19, 20, 21, 22, …35 mm | 1 | **646,88** |
| LA3600202029TKT | Espositore, 29 pz: 15, 16, 17, …39, 40, 42, 45, 50 mm | 1 | **1.167,21** |
| LA360020207TLKT | Valigetta, 7 pz: 18, 22, 25, 30, 35, 38, 50 mm | 1 | **345,80** |
| LA360020218TLKT | Espositore, 18 pz: 18, 19, 20, 21, 22, …35 mm | 1 | **704,69** |
| LA360020229TLKT | Espositore, 29 pz: 15, 16, 17, …39, 40, 42, 45, 50 mm | 1 | **1.279,57** |

## Kit frese a tazza in HSS-E eccentriche



### Caratteristiche

Kit composto da 7 frese a tazza HSS-E eccentriche (Ø 18, 22, 25, 30, 35, 38, 50), fornito in valigetta.

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| LA35002020007KT | Ø 18, 22, 25, 30, 35, 38, 50 mm | 1 | **251,42** |

## Espositore frese a tazza in HSS-E eccentriche




### Caratteristiche

Espositore da banco composto da 18 frese a tazza HSS-E eccentriche, Ø 18, 19, 20, 21, 22 ….35.

| Codice | Descrizione | | € / cad. |
|---|---|---|---|
| LA35002020018KT | Ø 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 mm | 1 | **494,09** |

## Allargafori



### Caratteristiche

Allargafori tradizionali senza gradini per eseguire ed allargare a misura fori su lamiere in metallo, leghe leggere o laminati in plastica. Corpo in acciaio HSS M2 o HSS-E M35 (cobalto) fresato e rettificato, finitura lucida, conicità nella parte terminale per facilitare l'estrazione dell'utensile dalle lamiere forate, punta dal profilo affilato per realizzare fori dal pieno, angolo di spoglia 118°, marcatura laser dei diametri di riferimento. Disponibile in acciaio al cobalto, indicato per lavorazioni su inox e metalli abrasivi.

| Codice | Materiale | Rivestimento | Ø | Gambo | | € / cad. |
|---|---|---|---|---|---|---|
| LA3000202000001 | HSS | -- | 0-14 mm | 6 mm | 1 | **14,72** |
| LA300020200001T | HSS | TiN | 0-14 mm | 6 mm | 1 | **24,57** |
| LA30002020001TL | HSS | TiAlN | 0-14 mm | 6 mm | 1 | **36,52** |
| LA3010202000001 | HSS-E Cobalto | -- | 0-14 mm | 6 mm | 1 | **18,82** |
| LA301020200001T | HSS-E Cobalto | TiN | 0-14 mm | 6 mm | 1 | **29,88** |
| LA30102020001TL | HSS-E Cobalto | TiAlN | 0-14 mm | 6 mm | 1 | **44,27** |
| LA3000202000002 | HSS | -- | 6-20 mm | 8 mm | 1 | **24,90** |
| LA300020200002T | HSS | TiN | 6-20 mm | 8 mm | 1 | **41,06** |
| LA30002020002TL | HSS | TiAlN | 6-20 mm | 8 mm | 1 | **60,87** |
| LA3010202000002 | HSS-E Cobalto | -- | 6-20 mm | 8 mm | 1 | **33,20** |
| LA301020200002T | HSS-E Cobalto | TiN | 6-20 mm | 8 mm | 1 | **49,80** |
| LA30102020002TL | HSS-E Cobalto | TiAlN | 6-20 mm | 8 mm | 1 | **74,15** |
| LA3000202000003 | HSS | -- | 10-30 mm | 10 mm | 1 | **50,47** |
| LA300020200003T | HSS | TiN | 10-30 mm | 10 mm | 1 | **71,61** |

## Allargafori



### Caratteristiche

Allargafori tradizionali senza gradini per eseguire ed allargare a misura fori su lamiere in metallo, leghe leggere o laminati in plastica. Corpo in acciaio HSS M2 o HSS-E M35 (cobalto) fresato e rettificato, finitura lucida, conicità nella parte terminale per facilitare l'estrazione dell'utensile dalle lamiere forate, punta dal profilo affilato per realizzare fori dal pieno, angolo di spoglia 118°, marcatura laser dei diametri di riferimento. Disponibile in acciaio al cobalto, indicato per lavorazioni su inox e metalli abrasivi.

| Codice | Materiale | Rivestimento | Ø | Gambo | | € / cad. |
|---|---|---|---|---|---|---|
| LA30002020003TL | HSS | TiAlN | 10-30 mm | 10 mm | 1 | **97,40** |
| LA3010202000003 | HSS-E Cobalto | -- | 10-30 mm | 10 mm | 1 | **57,55** |
| LA3010202000003T | HSS-E Cobalto | TiN | 10-30 mm | 10 mm | 1 | **81,90** |
| LA30102020003TL | HSS-E Cobalto | TiAlN | 10-30 mm | 10 mm | 1 | **110,68** |
| LA3000202000004 | HSS | -- | 20-40 mm | 10 mm | 1 | **73,05** |
| LA300020200004T | HSS | TiN | 20-40 mm | 10 mm | 1 | **96,29** |
| LA30002020004TL | HSS | TiAlN | 20-40 mm | 10 mm | 1 | **125,06** |
| LA3000202000005 | HSS | -- | 28-50 mm | 10 mm | 1 | **94,07** |
| LA300020200005T | HSS | TiN | 28-50 mm | 10 mm | 1 | **120,64** |
| LA30002020005TL | HSS | TiAlN | 28-50 mm | 10 mm | 1 | **153,84** |
| LA3000202000006 | HSS | -- | 6-30 mm | 10 mm | 1 | **66,96** |
| LA300020200006T | HSS | TiN | 6-30 mm | 10 mm | 1 | **90,20** |
| LA30002020006TL | HSS | TiAlN | 6-30 mm | 10 mm | 1 | **119,53** |
| LA3010202000006 | HSS-E Cobalto | -- | 6-30 mm | 10 mm | 1 | **76,37** |
| LA301020200006T | HSS-E Cobalto | TiN | 6-30 mm | 10 mm | 1 | **99,61** |
| LA30102020006TL | HSS-E Cobalto | TiAlN | 6-30 mm | 10 mm | 1 | **131,70** |

## Allargafori a gradino



### Caratteristiche

Allargafori a gradino per eseguire ed allargare a misura fori su lamiere in metallo, leghe leggere o laminati in plastica. Corpo in acciaio HSS M2 o HSS-E M35 (cobalto) fresato e rettificato, finitura lucida, conicità nella parte terminale per facilitare l'estrazione dell'utensile dalle lamiere forate, punta dal profilo affilato per realizzare fori dal pieno, marcatura laser dei diametri di riferimento. Disponibile in acciaio al cobalto HSS-E, suggerito per lavorazioni su inox e metalli abrasivi.

| Codice | Materiale | Rivestimento | Ø | Gambo | | € / cad. |
|---|---|---|---|---|---|---|
| LA3011202000011 | HSS | -- | 4-12 mm | 6 mm | 1 | **45,41** |
| LA3011202000111 | HSS-E Cobalto | -- | 4-12 mm | 6 mm | 1 | **52,05** |
| LA301120200011T | HSS | TiN | 4-12 mm | 6 mm | 1 | **55,37** |
| LA301120200111T | HSS-E Cobalto | TiN | 4-12 mm | 6 mm | 1 | **63,13** |
| LA30112020011TL | HSS | TiAlN | 4-12 mm | 6 mm | 1 | **56,48** |
| LA30112020111TL | HSS-E Cobalto | TiAlN | 4-12 mm | 6 mm | 1 | **66,45** |
| LA3011202000012 | HSS | -- | 6-20 mm | 8 mm | 1 | **58,70** |
| LA3011202000112 | HSS-E Cobalto | -- | 6-20 mm | 8 mm | 1 | **66,45** |
| LA301120200012T | HSS | TiN | 6-20 mm | 8 mm | 1 | **74,20** |
| LA301120200112T | HSS-E Cobalto | TiN | 6-20 mm | 8 mm | 1 | **81,95** |
| LA30112020012TL | HSS | TiAlN | 6-20 mm | 8 mm | 1 | **77,52** |
| LA30112020112TL | HSS-E Cobalto | TiAlN | 6-20 mm | 8 mm | 1 | **86,38** |
| LA3011202000013 | HSS | -- | 6-30 mm | 10 mm | 1 | **88,60** |
| LA3011202000113 | HSS-E Cobalto | -- | 6-30 mm | 10 mm | 1 | **101,89** |
| LA301120200013T | HSS | TiN | 6-30 mm | 10 mm | 1 | **110,75** |
| LA301120200113T | HSS-E Cobalto | TiN | 6-30 mm | 10 mm | 1 | **124,04** |
| LA30112020013TL | HSS | TiAlN | 6-30 mm | 10 mm | 1 | **116,28** |
| LA30112020113TL | HSS-E Cobalto | TiAlN | 6-30 mm | 10 mm | 1 | **129,57** |
| LA3011202000014 | HSS | -- | 8-38 mm | 10 mm | 1 | **112,96** |
| LA3011202000114 | HSS-E Cobalto | -- | 8-38 mm | 10 mm | 1 | **145,08** |
| LA301120200014T | HSS | TiN | 8-38 mm | 10 mm | 1 | **148,40** |
| LA301120200114T | HSS-E Cobalto | TiN | 8-38 mm | 10 mm | 1 | **180,52** |
| LA30112020014TL | HSS | TiAlN | 8-38 mm | 10 mm | 1 | **157,26** |
| LA30112020114TL | HSS-E Cobalto | TiAlN | 8-38 mm | 10 mm | 1 | **189,38** |

## Seghe circolari in HSS



### Caratteristiche

Seghe circolari in HSS per troncatrici lente per il taglio di materiali ferrosi. Corpo in acciaio HSS DM05 (Aisi M2), marcatura laser, trattamento superficiale di vaporizzazione anti grippaggio. Foro Ø 32 mm + 2 fori trascinamento 8,5 x 45 mm + 2 fori di trascinamento 11 x 63 mm. - Durezza: 63/65 HRC - Campi d'applicazione: ferro, acciaio, acciaio inox, alluminio, bronzo, ghisa, rame, pvc, policarbonato

| Codice | Versione | Ø | Spessore | Z-denti | | € / cad. |
|---|---|---|---|---|---|---|
| LA19005020200PN | T6-pieno | 200 mm | 1,8 mm | 100 | 1 | **75,66** |
| LA19005020200PP | T5-pieno/profilato | 200 mm | 1,8 mm | 130 | 1 | **75,66** |
| LA19005020200PR | T4-profilato | 200 mm | 1,8 mm | 160 | 1 | **75,66** |
| LA19005020225PN | T6-pieno | 225 mm | 1,9 mm | 120 | 1 | **81,90** |
| LA19005020225PP | T5-pieno/profilato | 225 mm | 1,9 mm | 140 | 1 | **81,90** |
| LA19005020225PR | T4-profilato | 225 mm | 1,9 mm | 180 | 1 | **81,90** |
| LA19005020250PN | T6-pieno | 250 mm | 2 mm | 128 | 1 | **90,72** |
| LA19005020250PP | T5-pieno/profilato | 250 mm | 2 mm | 160 | 1 | **90,72** |
| LA19005020250PR | T4-profilato | 250 mm | 2 mm | 200 | 1 | **90,72** |
| LA19005020252PN | T6-pieno | 250 mm | 2,5 mm | 128 | 1 | **110,61** |
| LA19005020252PP | T5-pieno/profilato | 250 mm | 2,5 mm | 160 | 1 | **110,61** |
| LA19005020252PR | T4-profilato | 250 mm | 2,5 mm | 200 | 1 | **110,61** |
| LA19005020275PN | T6-pieno | 275 mm | 2 mm | 140 | 1 | **118,49** |
| LA19005020275PP | T5-pieno/profilato | 275 mm | 2 mm | 180 | 1 | **118,49** |
| LA19005020275PR | T4-profilato | 275 mm | 2 mm | 220 | 1 | **118,49** |
| LA19005022752PN | T6-pieno | 275 mm | 2,5 mm | 140 | 1 | **125,90** |
| LA19005022752PP | T5-pieno/profilato | 275 mm | 2,5 mm | 180 | 1 | **125,90** |
| LA19005022752PR | T4-profilato | 275 mm | 2,5 mm | 220 | 1 | **125,90** |
| LA19005020300PN | T6-pieno | 300 mm | 2,5 mm | 160 | 1 | **146,26** |
| LA19005020300PP | T5-pieno/profilato | 300 mm | 2,5 mm | 180 | 1 | **146,26** |
| LA19005020300PR | T4-profilato | 300 mm | 2,5 mm | 220 | 1 | **146,26** |
| LA19005020315PN | T6-pieno | 315 mm | 2,5 mm | 160 | 1 | **163,91** |
| LA19005020315PP | T5-pieno/profilato | 315 mm | 2,5 mm | 200 | 1 | **163,91** |
| LA19005020315PR | T4-profilato | 315 mm | 2,5 mm | 240 | 1 | **163,91** |
| LA19005020350PN | T6-pieno | 350 mm | 2,5 mm | 180 | 1 | **201,68** |
| LA19005020350PP | T5-pieno/profilato | 350 mm | 2,5 mm | 220 | 1 | **201,68** |
| LA19005020350PR | T4-profilato | 350 mm | 2,5 mm | 264 | 1 | **201,68** |

## Seghe circolari per alluminio e leghe leggere



### Caratteristiche

Seghe circolari per alluminio e leghe leggere. Adatte per troncatrici rapide per il taglio di metalli non ferrosi, leghe leggere, plastiche dure e resine. Corpo in acciaio speciale perfettamente bilanciato, marcatura laser, denti riportati in metallo duro, alternanza di denti sbozzatori e finitori che consente un taglio pulito e senza sbavature, foro Ø 32 mm, intagli per le dilatazioni termiche.

- **Campi d'applicazione:** metalli non ferrosi, alluminio, leghe leggere, plastiche dure, resine

| Codice | Versione | Ø | Spessore | Z-denti | Foro | | € / cad. |
|---|---|---|---|---|---|---|---|
| LA1901050210030 | per macchine portatili | 100 mm | 3,2 mm | 30 | 22,2 mm | 1 | **43,54** |
| LA1901050211530 | per macchine portatili | 115 mm | 1,8 mm | 30 | 22,2 mm | 1 | **43,54** |
| LA1901050212036 | per macchine portatili | 120 mm | 2,1 mm | 36 | 20 mm | 1 | **48,24** |
| LA1901050212530 | per macchine stazionarie | 125 mm | 2,2 mm | 30 | 22,2 mm | 1 | **50,13** |
| LA1901050220064 | per macchine stazionarie | 200 mm | 3 mm | 64 | 32 mm | 1 | **110,96** |
| LA1901050225060 | per macchine stazionarie | 250 mm | 3,2 mm | 60 | 32 mm | 1 | **107,08** |
| LA1901050225080 | per macchine stazionarie | 250 mm | 3,2 mm | 80 | 32 mm | 1 | **128,26** |
| LA1901050228064 | per macchine stazionarie | 280 mm | 3,2 mm | 64 | 32 mm | 1 | **116,49** |
| LA1901050230072 | per macchine stazionarie | 300 mm | 3,3 mm | 72 | 32 mm | 1 | **129,43** |
| LA1901050230084 | per macchine stazionarie | 300 mm | 3,3 mm | 84 | 32 mm | 1 | **142,38** |
| LA1901050230096 | per macchine stazionarie | 300 mm | 3,3 mm | 96 | 32 mm | 1 | **148,26** |
| LA1901050235010 | per macchine stazionarie | 350 mm | 3,4 mm | 84 | 32 mm | 1 | **176,50** |
| LA1901050235084 | per macchine stazionarie | 350 mm | 3,4 mm | 96 | 32 mm | 1 | **151,20** |
| LA1901050235096 | per macchine stazionarie | 350 mm | 3,4 mm | 108 | 32 mm | 1 | **163,56** |
| LA1901050240012 | per macchine stazionarie | 400 mm | 3,6 mm | 96 | 32 mm | 1 | **200,03** |
| LA1901050240096 | per macchine stazionarie | 400 mm | 3,6 mm | 120 | 32 mm | 1 | **177,68** |
| LA1901050242010 | per macchine stazionarie | 420 mm | 4 mm | 108 | 32 mm | 1 | **258,87** |
| LA1901050245011 | per macchine stazionarie | 450 mm | 3,8 mm | 96 | 32 mm | 1 | **242,39** |
| LA1901050245096 | per macchine stazionarie | 450 mm | 3,8 mm | 112 | 32 mm | 1 | **220,04** |
| LA1901050250012 | per macchine stazionarie | 500 mm | 4,2 mm | 120 | 32 mm | 1 | **303,58** |

## Seghe circolari per legno



### Caratteristiche

Seghe circolari per troncatrici rapide stazionarie per il taglio del legno. Corpo in acciaio speciale; denti riportati in metallo duro; denti alternati destri/sinistri; intagli per le dilatazioni termiche.

| Codice | Ø | Ø foro | Z-denti | Spessore | | € / cad. |
|---|---|---|---|---|---|---|
| LA190050200315L | 315 mm | 25/30 mm | 48 | 3,5 mm | 1 | **90,90** |
| LA190050200350L | 350 mm | 30 mm | 54 | 3,5 mm | 1 | **101,71** |

## Strong vice



### Caratteristiche

Morsa parallela in acciaio forgiato, specifica per lavorazioni pesanti; costruita interamente in acciaio forgiato; doppia guida prismatica; ganasce stringitubo fisse zigrinate, temprate a induzione e rettificate; registrabile.

| Codice | Ganasce | Larghezza ganasce | Apertura massima | Peso | | € / cad. |
|---|---|---|---|---|---|---|
| UT00100500115GI | Fisse | 115 mm | 150 mm | 11 kg | 1 | **266,70** |
| UT00100500135GI | Fisse | 135 mm | 185 mm | 17 kg | 1 | **342,90** |
| UT00100500135GF | Stringitubo fisse | 135 mm | 185 mm | 17 kg | 1 | **359,89** |
| UT00100500150GI | Fisse | 150 mm | 200 mm | 26 kg | 1 | **434,18** |
| UT00100500150GF | Stringitubo fisse | 150 mm | 200 mm | 26 kg | 1 | **484,19** |

## Universal vice



### Caratteristiche

Morsa parallela in acciaio forgiato, con base tonda; ganasce zigrinate e temprate; superficie rettificata; incudine temprato; viti di registrazione; parti di scorrimento temprate e rettificate; doppia guida prismatica.

| Codice | Larghezza ganasce | Apertura massima | Peso | | € / cad. |
|---|---|---|---|---|---|
| UT001005000100T | 100 mm | 125 mm | 7 kg | 1 | **181,93** |
| UT001005000125T | 125 mm | 150 mm | 11 kg | 1 | **212,25** |
| UT001005000150T | 150 mm | 200 mm | 17 kg | 1 | **307,50** |
| UT001005000175T | 175 mm | 220 mm | 26 kg | 1 | **425,45** |

## Steel vice



### Caratteristiche

Morsa parallela in acciaio; per lavorazioni medio-pesanti; ganasce in acciaio, temprate a induzione e rettificate; ampio piano di lavoro ad incudine temperato.

| Codice | Larghezza ganasce | Apertura massima | Peso | | € / cad. |
|---|---|---|---|---|---|
| UT001005000120A | 120 mm | 130 mm | 16 kg | 1 | **446,41** |
| UT001005000150A | 150 mm | 175 mm | 24 kg | 1 | **685,32** |

## Eco vice



### Caratteristiche

Morsa parallela, costruita interamente con piatti d'acciaio; ganasce in acciaio zigrinate e temprate a induzione; ottimo rapporto qualità/prezzo.

| Codice | Larghezza ganasce | Apertura massima | Peso | | € / cad. |
|---|---|---|---|---|---|
| UT001005000080E | 80 mm | 100 mm | 4 Kg | 1 | **91,92** |
| UT001005000110E | 110 mm | 120 mm | 7 Kg | 1 | **111,60** |
| UT001005000130E | 130 mm | 140 mm | 11 Kg | 1 | **137,80** |
| UT001005000150E | 150 mm | 155 mm | 15,50 Kg | 1 | **191,29** |

## Drill vice



### Caratteristiche

Morsa da trapano in ghisa speciale; ganasce temprate e rettificate.

| Codice | Larghezza ganasce | Apertura massima | Peso | | € / cad. |
|---|---|---|---|---|---|
| UT0010050000600 | 60 mm | 70 mm | 2,5 Kg | 1 | **102,24** |
| UT0010050000800 | 80 mm | 85 mm | 4 Kg | 1 | **122,08** |
| UT0010050001000 | 100 mm | 110 mm | 9 Kg | 1 | **201,77** |
| UT0010050001200 | 120 mm | 150 mm | 16 Kg | 1 | **264,48** |
| UT0010050001500 | 150 mm | 180 mm | 24 Kg | 1 | **352,27** |

## Base girevole



### Caratteristiche

Base girevole per morse da banco parallele.

| Codice | Ø | | € / cad. |
|---|---|---|---|
| UT00100500125BG | 125 mm | 1 | **69,22** |
| UT00100500150BG | 150 mm | 1 | **86,04** |

## Coppia ganasce stringitubo



### Caratteristiche

Coppia ganasce stringitubo per morse da banco parallele.

| Codice | Ø | | € / cad. |
|---|---|---|---|
| UT00100500125CG | 125 mm | 1 | **34,29** |
| UT00100500150CG | 150 mm | 1 | **50,01** |

## Strettoio a vite modello base



### Caratteristiche

Strettoio a vite modello base con manico ad astina, in acciaio, cappuccio tornito.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT001005001260S | 120x60 mm | 1 | **22,03** |
| UT001005001680S | 160x80 mm | 1 | **25,31** |
| UT001005002010S | 200x100 mm | 1 | **30,31** |
| UT001005002512S | 250x120 mm | 1 | **36,72** |
| UT001005003014S | 300x140 mm | 1 | **41,88** |
| UT001005004012S | 400x120 mm | 1 | **46,72** |
| UT001005005012S | 500x120 mm | 1 | **49,84** |
| UT001005006012S | 600x120 mm | 1 | **53,13** |
| UT001005008012S | 800x120 mm | 1 | **70,31** |
| UT001005001012S | 1000x120 mm | 1 | **82,19** |
| UT001005001212S | 1250x120 mm | 1 | **101,40** |

## Strettoio a vite medio pesante



### Caratteristiche

Strettoio a vite medio pesante, con manico ad astina totalmente in acciaio, cappuccio di pressione tornito in tre pezzi.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT001005025 12SM | 250x120 mm | 1 | **88,44** |
| UT001005030 12SM | 300x140 mm | 1 | **95,63** |
| UT001005040 12SM | 400x120 mm | 1 | **101,25** |
| UT001005050 14SM | 500x140 mm | 1 | **107,34** |
| UT001005060 12SM | 600x120 mm | 1 | **122,03** |
| UT001005080 14SM | 800x140 mm | 1 | **136,72** |
| UT001005010 12SM | 1000x120 mm | 1 | **147,97** |
| UT001005012 12SM | 1250x120 mm | 1 | **176,88** |
| UT001005015 12SM | 1500x120 mm | 1 | **197,03** |

## Strettoio a leva rapida



### Caratteristiche

Strettoio a leva rapida, con dentatura fine, totalmente in acciaio; cappuccio di pressione piano, mobile; Impugnatura ergonomica in corpo unico.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| UT00100501260SL | 120x60 mm | 1 | **54,53** |
| UT00100501680SL | 160x80 mm | 1 | **60,78** |
| UT00100502010SL | 200x100 mm | 1 | **71,41** |
| UT00100502512SL | 250x120 mm | 1 | **86,09** |
| UT00100503014SL | 300x140 mm | 1 | **95,63** |
| UT00100504012SL | 400x120 mm | 1 | **99,06** |
| UT00100505012SL | 500x120 mm | 1 | **102,97** |
| UT00100506012SL | 600x120 mm | 1 | **108,59** |
| UT00100508012SL | 800x120 mm | 1 | **119,06** |
| UT00100501012SL | 1000x120 mm | 1 | **138,28** |

## Scopa magnetica



### Caratteristiche

Scopa magnetica specifica per effettuare la raccolta di trucioli e residui ferrosi su piazzali, pavimenti e aree vaste; struttura carrellata in alluminio; impugnatura scorrevole e manico telescopico.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000006 | 1 | **117,68** |

## Spazzola magnetica



### Caratteristiche

Spazzola magnetica specifica per la raccolta di trucioli e residui ferrosi in spazi ristretti e difficilmente raggiungibili; struttura leggera e maneggevole; meccanismo a stantuffo per il rilascio dei trucioli.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000005 | 1 | **72,88** |

## Maniglia magnetica



### Caratteristiche

Maniglia magnetica ideale per sollevare lamiere ed elementi metallici fino ad un peso massimo di 45 kg; solleva fino a 100 volte il proprio peso.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000001 | 1 | **17,90** |

## Vassoio magnetico



### Caratteristiche

Vassoi magnetici ideali per mantenere l'ordine all'interno dei cassetti; disponibili in varie misure.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| AM0001005000015 | 15 cm | 1 | **10,04** |
| AM0001005000020 | 20 cm | 1 | **12,36** |
| AM0001005000025 | 25 cm | 1 | **15,71** |
| AM0001005000030 | 30 cm | 1 | **17,90** |
| AM00010050000K4 - set 4 vassoi | 15-20-25-30 cm | 1 | **51,50** |
| AM0001005000K41 - set 4 vassoi e supporto giraviti | -- | 1 | **64,89** |

## Supporto magnetico per giraviti



### Caratteristiche

Supporto magnetico per giraviti ideale per mantenere ordinati giraviti e simili.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000002 | 1 | **14,68** |

## Goniometro magnetico



### Caratteristiche

Goniometro magnetico per realizzare saldature ad angoli predefiniti; la dima mantiene scatolati e tubolari magneticamente ad angolazioni prefissate.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000003 | 1 | **16,73** |

## Bracciale magnetico



### Caratteristiche

Braccialetto magnetico ideale per tenere a portata di mano chiodi, viti, dadi, rondelle e minuterie metalliche in generale.

| Codice | | € / cad. |
|---|---|---|
| AM0001005000004 | 1 | **7,73** |

## Punte SDS PLUS a 2 taglienti



### Caratteristiche

Punte professionali per foratura di cemento, mattoni e laterizi in genere. Corpo in acciaio speciale, attacco SDS, geometria a scalpello per un alto rendimento, placchetta in carburo di tungsteno saldata ad alte temperature.

| Codice | Ø | Lunghezza totale | Lunghezza elica | | € / cad. |
|---|---|---|---|---|---|
| UT0001005004110 | 4 mm | 110 mm | 50 mm | 1 | **9,35** |
| UT0001005004160 | 4 mm | 160 mm | 100 mm | 1 | **12,36** |
| UT0001005005110 | 5 mm | 110 mm | 50 mm | 1 | **6,02** |
| UT0001005005160 | 5 mm | 160 mm | 100 mm | 1 | **8,24** |
| UT0001005005516 | 5,5 mm | 160 mm | 100 mm | 1 | **8,65** |
| UT0001005006110 | 6 mm | 110 mm | 50 mm | 1 | **5,56** |
| UT0001005006160 | 6 mm | 160 mm | 100 mm | 1 | **6,80** |
| UT0001005006210 | 6 mm | 210 mm | 150 mm | 1 | **9,76** |
| UT0001005006516 | 6,5 mm | 160 mm | 100 mm | 1 | **6,80** |
| UT0001005007160 | 7 mm | 160 mm | 100 mm | 1 | **10,18** |
| UT0001005008110 | 8 mm | 110 mm | 50 mm | 1 | **6,72** |
| UT0001005008160 | 8 mm | 160 mm | 100 mm | 1 | **8,65** |
| UT0001005008210 | 8 mm | 210 mm | 150 mm | 1 | **8,86** |
| UT0001005008260 | 8 mm | 260 mm | 200 mm | 1 | **10,84** |
| UT0001005008310 | 8 mm | 310 mm | 250 mm | 1 | **15,24** |
| UT0001005008460 | 8 mm | 460 mm | 400 mm | 1 | **21,75** |
| UT0001005008610 | 8 mm | 610 mm | 550 mm | 1 | **41,41** |
| UT0001005009160 | 9 mm | 160 mm | 100 mm | 1 | **12,98** |
| UT0001005001011 | 10 mm | 110 mm | 50 mm | 1 | **7,29** |
| UT0001005001016 | 10 mm | 160 mm | 100 mm | 1 | **8,65** |
| UT0001005001021 | 10 mm | 210 mm | 150 mm | 1 | **9,97** |
| UT0001005001026 | 10 mm | 260 mm | 200 mm | 1 | **11,74** |
| UT0001005001031 | 10 mm | 310 mm | 250 mm | 1 | **14,01** |
| UT0001005001046 | 10 mm | 460 mm | 400 mm | 1 | **18,54** |
| UT0001005001061 | 10 mm | 610 mm | 550 mm | 1 | **37,08** |
| UT0001005010100 | 10 mm | 1000 mm | 950 mm | 1 | **86,11** |
| UT0001005001116 | 11 mm | 160 mm | 100 mm | 1 | **11,33** |
| UT0001005001216 | 12 mm | 160 mm | 100 mm | 1 | **11,95** |
| UT0001005001221 | 12 mm | 210 mm | 150 mm | 1 | **14,75** |
| UT0001005001226 | 12 mm | 260 mm | 200 mm | 1 | **16,27** |
| UT0001005001246 | 12 mm | 460 mm | 400 mm | 1 | **27,40** |
| UT0001005001261 | 12 mm | 610 mm | 550 mm | 1 | **37,90** |

## Punte SDS PLUS a 2 taglienti



### Caratteristiche

Punte professionali per foratura di cemento, mattoni e laterizi in genere. Corpo in acciaio speciale, attacco SDS, geometria a scalpello per un alto rendimento, placchetta in carburo di tungsteno saldata ad alte temperature.

| Codice | Ø | Lunghezza totale | Lunghezza elica | | € / cad. |
|---|---|---|---|---|---|
| UT0001005012100 | 12 mm | 1000 mm | 950 mm | 1 | **96,20** |
| UT0001005001416 | 14 mm | 160 mm | 100 mm | 1 | **14,42** |
| UT0001005001421 | 14 mm | 210 mm | 150 mm | 1 | **18,00** |
| UT0001005001431 | 14 mm | 310 mm | 250 mm | 1 | **23,48** |
| UT0001005001446 | 14 mm | 460 mm | 400 mm | 1 | **29,95** |
| UT0001005001461 | 14 mm | 610 mm | 550 mm | 1 | **52,53** |
| UT0001005014100 | 14 mm | 1000 mm | 950 mm | 1 | **108,15** |
| UT0001005001516 | 15 mm | 160 mm | 100 mm | 1 | **18,00** |
| UT0001005001526 | 15 mm | 260 mm | 200 mm | 1 | **26,45** |
| UT0001005001621 | 16 mm | 210 mm | 150 mm | 1 | **23,07** |
| UT0001005001631 | 16 mm | 310 mm | 250 mm | 1 | **29,99** |
| UT0001005001646 | 16 mm | 460 mm | 400 mm | 1 | **41,61** |
| UT0001005001661 | 16 mm | 610 mm | 550 mm | 1 | **49,03** |
| UT0001005016100 | 16 mm | 1000 mm | 950 mm | 1 | **100,82** |
| UT0001005001820 | 18 mm | 200 mm | 150 mm | 1 | **33,37** |
| UT0001005001830 | 18 mm | 300 mm | 250 mm | 1 | **37,29** |
| UT0001005001845 | 18 mm | 450 mm | 400 mm | 1 | **48,20** |
| UT0001005001860 | 18 mm | 600 mm | 550 mm | 1 | **82,40** |
| UT0001005018100 | 18 mm | 1000 mm | 950 mm | 1 | **134,72** |
| UT0001005002020 | 20 mm | 200 mm | 150 mm | 1 | **37,08** |
| UT0001005002030 | 20 mm | 300 mm | 250 mm | 1 | **43,26** |
| UT0001005002045 | 20 mm | 450 mm | 400 mm | 1 | **54,18** |
| UT0001005002060 | 20 mm | 600 mm | 550 mm | 1 | **80,34** |
| UT0001005020100 | 20 mm | 1000 mm | 950 mm | 1 | **101,35** |
| UT0001005002226 | 22 mm | 260 mm | 200 mm | 1 | **59,53** |
| UT0001005002245 | 22 mm | 450 mm | 600 mm | 1 | **78,28** |
| UT0001005002261 | 22 mm | 610 mm | 550 mm | 1 | **107,74** |
| UT0001005022100 | 22 mm | 1000 mm | 950 mm | 1 | **174,07** |
| UT0001005002425 | 24 mm | 250 mm | 200 mm | 1 | **64,77** |
| UT0001005002546 | 25 mm | 460 mm | 400 mm | 1 | **86,31** |
| UT0001005002645 | 26 mm | 450 mm | 400 mm | 1 | **91,05** |

## Punte SDS PLUS multitagliente



### Caratteristiche

Punte dalla massima qualità, per tutte le esigenze. Testa in metallo duro integrale con geometria a 4 taglienti, rilevatore di usura, vibrazioni ridotte e massima silenziosità. Rapida espulsione di polveri e detriti, ottimizzate per calcestruzzo e cemento armato. Garantiscono stabilità e durata; ideali anche per martelli perforatori da 3 Joule di nuova generazione.

| Codice | Ø | Lunghezza totale | Lunghezza elica | | € / cad. |
|---|---|---|---|---|---|
| UT000100500511D | 5 mm | 110 mm | 50 mm | 1 | **10,71** |
| UT000100500516D | 5 mm | 160 mm | 100 mm | 1 | **12,57** |
| UT000100500521D | 5 mm | 210 mm | 150 mm | 1 | **21,14** |
| UT000100500611D | 6 mm | 115 mm | 50 mm | 1 | **10,92** |
| UT000100500616D | 6 mm | 165 mm | 100 mm | 1 | **11,66** |
| UT000100500621D | 6 mm | 215 mm | 150 mm | 1 | **19,49** |
| UT000100500626D | 6 mm | 265 mm | 200 mm | 1 | **21,63** |
| UT000100506526D | 6,5 mm | 265 mm | 200 mm | 1 | **26,04** |
| UT000100500721D | 7 mm | 215 mm | 150 mm | 1 | **18,33** |
| UT000100500811D | 8 mm | 115 mm | 50 mm | 1 | **13,68** |
| UT000100500816D | 8 mm | 165 mm | 100 mm | 1 | **14,01** |
| UT000100500821D | 8 mm | 215 mm | 150 mm | 1 | **16,48** |
| UT000100500826D | 8 mm | 265 mm | 200 mm | 1 | **20,81** |
| UT000100500836D | 8 mm | 365 mm | 300 mm | 1 | **38,73** |
| UT000100500846D | 8 mm | 465 mm | 400 mm | 1 | **46,76** |
| UT000100501011D | 10 mm | 115 mm | 50 mm | 1 | **16,19** |
| UT000100501016D | 10 mm | 165 mm | 100 mm | 1 | **16,40** |
| UT000100501021D | 10 mm | 215 mm | 150 mm | 1 | **19,36** |
| UT000100501026D | 10 mm | 265 mm | 200 mm | 1 | **23,69** |
| UT000100501036D | 10 mm | 365 mm | 300 mm | 1 | **36,05** |
| UT000100501046D | 10 mm | 465 mm | 400 mm | 1 | **40,79** |
| UT000100501216D | 12 mm | 165 mm | 100 mm | 1 | **19,65** |
| UT000100501221D | 12 mm | 215 mm | 150 mm | 1 | **22,78** |
| UT000100501226D | 12 mm | 265 mm | 200 mm | 1 | **29,25** |
| UT000100501236D | 12 mm | 365 mm | 300 mm | 1 | **48,82** |
| UT000100501246D | 12 mm | 465 mm | 400 mm | 1 | **51,01** |
| UT000100501421D | 14 mm | 215 mm | 150 mm | 1 | **32,75** |
| UT000100501446D | 14 mm | 465 mm | 400 mm | 1 | **60,98** |
| UT000100501621D | 16 mm | 215 mm | 150 mm | 1 | **41,82** |
| UT000100501626D | 16 mm | 265 mm | 200 mm | 1 | **46,43** |
| UT000100501646D | 16 mm | 465 mm | 400 mm | 1 | **82,81** |

## Punte SDS MAX a 4 taglienti



### Caratteristiche

Punte ideali per la foratura di cemento, mattoni, laterizi in genere e per realizzare fori profondi con martelli perforatori pesanti. Corpo in acciaio speciale, placchette in carburo di tungsteno saldate ad alte temperature, attacco SDS Max, 4 taglienti; +46% capacità di scarico, +30% potenza di taglio; Ø da 12 a 14 mm: 2 placchette, Ø oltre 15 mm: 4 placchette.

| Codice | Ø | Lunghezza totale | Lunghezza elica | | € / cad. |
|---|---|---|---|---|---|
| UT000100501234M | 12 mm | 340 mm | 200 mm | 1 | **67,65** |
| UT000100501254M | 12 mm | 540 mm | 400 mm | 1 | **95,17** |
| UT000100501269M | 12 mm | 690 mm | 600 mm | 1 | **140,49** |
| UT000100501434M | 14 mm | 340 mm | 200 mm | 1 | **83,22** |
| UT000100501454M | 14 mm | 540 mm | 400 mm | 1 | **95,17** |
| UT000100501634M | 16 mm | 340 mm | 200 mm | 1 | **89,82** |
| UT000100501654M | 16 mm | 540 mm | 400 mm | 1 | **105,06** |
| UT000100501834M | 18 mm | 340 mm | 200 mm | 1 | **80,55** |
| UT000100501854M | 18 mm | 540 mm | 400 mm | 1 | **110,62** |
| UT000100501894M | 18 mm | 940 mm | 800 mm | 1 | **192,82** |
| UT000100502034M | 20 mm | 340 mm | 200 mm | 1 | **101,76** |
| UT000100502054M | 20 mm | 540 mm | 400 mm | 1 | **127,10** |
| UT000100502094M | 20 mm | 940 mm | 800 mm | 1 | **158,62** |
| UT000100502234M | 22 mm | 340 mm | 200 mm | 1 | **101,56** |
| UT000100502254M | 22 mm | 540 mm | 400 mm | 1 | **132,46** |
| UT000100502294M | 22 mm | 940 mm | 800 mm | 1 | **178,40** |
| UT000100502454M | 24 mm | 540 mm | 400 mm | 1 | **138,84** |
| UT000100502554M | 25 mm | 540 mm | 400 mm | 1 | **149,97** |
| UT000100502594M | 25 mm | 940 mm | 800 mm | 1 | **241,02** |
| UT000100502513M | 25 mm | 1320 mm | 1200 mm | 1 | **449,08** |
| UT000100502854M | 28 mm | 540 mm | 400 mm | 1 | **193,64** |
| UT000100502869M | 28 mm | 690 mm | 600 mm | 1 | **243,08** |
| UT000100503054M | 30 mm | 540 mm | 400 mm | 1 | **218,36** |
| UT000100503254M | 32 mm | 540 mm | 400 mm | 1 | **249,26** |
| UT000100503294M | 32 mm | 940 mm | 800 mm | 1 | **355,14** |
| UT000100503213M | 32 mm | 1320 mm | 1200 mm | 1 | **535,60** |
| UT000100503554M | 35 mm | 540 mm | 400 mm | 1 | **276,04** |
| UT000100503569M | 35 mm | 690 mm | 600 mm | 1 | **318,48** |
| UT000100503854M | 38 mm | 540 mm | 400 mm | 1 | **302,41** |

## Punte SDS MAX a 4 taglienti



### Caratteristiche

Punte ideali per la foratura di cemento, mattoni, laterizi in genere e per realizzare fori profondi con martelli perforatori pesanti. Corpo in acciaio speciale, placchette in carburo di tungsteno saldate ad alte temperature, attacco SDS Max, 4 taglienti; +46% capacità di scarico, +30% potenza di taglio; Ø da 12 a 14 mm: 2 placchette, Ø oltre 15 mm: 4 placchette.

| Codice | Ø | Lunghezza totale | Lunghezza elica | | € / cad. |
|---|---|---|---|---|---|
| UT000100504054M | 40 mm | 540 mm | 400 mm | 1 | **366,68** |
| UT000100504094M | 40 mm | 940 mm | 800 mm | 1 | **527,36** |
| UT000100504013M | 40 mm | 1320 mm | 1200 mm | 1 | **535,60** |
| UT000100505254M | 52 mm | 540 mm | 400 mm | 1 | **679,80** |

## Mandrino portapunte per trapano a colonna



### Caratteristiche

Mandrino portapunte automatico specifico per trapani a colonna, piccoli macchinari stazionari e officine; serie professionale, con accoppiamento conico. Eccentricità massima 0,12 mm.

| Codice | Ø | Attacco conico | L | L1 | D | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UT0020010013016 | 1-13 mm | B16 | 110 mm | 91 mm | 49 mm | 950 gr | 1 | **72,00** |
| UT0020010016016 | 1-16 mm | B16 | 112 mm | 102 mm | 54 mm | 1250 gr | 1 | **78,02** |
| UT0020010016018 | 1-16 mm | B18 | 112 mm | 102 mm | 54 mm | 1250 gr | 1 | **78,02** |

## Mandrino portapunte automatico per elettoroutensili



### Caratteristiche

Mandrino portapunte automatico in metallo, specifico per elettroutensili; ideale per trapani con potenza fino a 800 Watt, con foro passante, rotazione destra/sinistra, griffe in metallo duro, per utilizzo in avvitamento e percussione, con sistema di chiusura "lock system".

| Codice | Ø | Filettatura interna | L | L1 | D | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UT002001001513A | 1,5-13 mm | 1/2"-20H | 75 mm | 68 mm | 43 mm | 300 gr | 1 | **50,50** |

## Mandrino portapunte automatico combinato per elettroutensili a batteria



### Caratteristiche

Mandrino portapunte automatico combinato, specifico per trapani avvitatori a batteria con potenza fino a 500 Watt, con foro passante, rotazione destra/sinistra, griffe in metallo duro, con sistema di chiusura "lock system".

| Codice | Ø | Filettatura interna | L | L1 | D | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UT002001001513C | 1,5-13 mm | 1/2"-20H | 75 mm | 62 mm | 43 mm | 270 gr | 1 | **27,80** |

## Mandrino portapunte con chiave per elettoroutensili



### Caratteristiche

Mandrino portapunte con chiave DIN 6349, con filettatura interna, per elettroutensili portatili, ideale per trapani con rotazione destra/sinistra.

| Codice | Ø | Filettatura interna | L | D | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| UT002001001013C | 1-13 mm | 1/2"-20H | 78 mm | 43 mm | 380 gr | 1 | **20,98** |

## Attacco cono morse per mandrino portapunte



### Caratteristiche

Attacco cono morse per mandrino portapunte DIN 228/238, con accoppiamento conico.

| Codice | Cono morse DIN228 | Attacco conico | LT | | € / cad. |
|---|---|---|---|---|---|
| UT00200100100A1 | N.2 | B16 | 112 | 1 | **12,25** |
| UT00200100100A2 | N.3 | B16 | 134 | 1 | **14,75** |
| UT00200100100A3 | N.3 | B18 | 140 | 1 | **14,75** |
| UT00200100100A4 | N.4 | B16 | 158 | 1 | **23,00** |
| UT00200100100A5 | N.4 | B18 | 166 | 1 | **23,00** |

## Kit mandrino portapunte automatico con adattatore SDS Plus



### Caratteristiche

Kit mandrino portapunte automatico in metallo, con adattatore SDS Plus, per utilizzo in avvitamento e percussione, griffe in metallo duro, con sistema di chiusura "lock system".

| Codice | Ø | Filettatura interna | Peso | | € / cad. |
|---|---|---|---|---|---|
| UT00200101513KT | 1,5-13 mm | 1/2"-20H | 350 gr | 1 | **55,97** |

## Adattatore SDS Plus per mandrino portapunte



### Caratteristiche

Adattatore SDS Plus per mandrini portapunte a filettatura 1/2”-20H, con vite sinistra.

| Codice | Filettatura mandrino | | € / cad. |
|---|---|---|---|
| UT002001000012A | 1/2”-20H | 1 | **10,48** |

## Chiave per mandrino portapunte



### Caratteristiche

Chiave per mandrini portapunte Ø 1-13mm.

| Codice | Ø mandrino | | € / cad. |
|---|---|---|---|
| UT002001000013C | 1-13 mm | 1 | **3,08** |

## Ghiera di fissaggio rapido per smerigliatrici




### Caratteristiche

Ghiera di fissaggio rapido per dischi, da Ø 125mm a Ø 230mm, per smerigliatrici con potenza fino a 1200 Watt (disco 125mm) - 2400 Watt (disco 230mm).

| Codice | Ø disco | Attacco filettato | | € / cad. |
|---|---|---|---|---|
| UT0020020000125 | 125 mm | M14 | 1 | **22,30** |
| UT0020020000230 | 230 mm | M14 | 1 | **31,47** |

## Estrattori conici



### Caratteristiche

Estrattori professionali conici in acciaio al cromo vanadio, ideali per l'estrazione di viti spanate; filettatura sinistra; dopo l'esecuzione di un preforo con punta tradizionale, avvitare l'estrattore in modalità "reverse" fino al momento in cui fa presa ed estrarre la vite. Disponibili anche in kit da 5, 6 e 8 pezzi.

| Codice | M | G & BSP | Conicità | | € / cad. |
|---|---|---|---|---|---|
| UT0001005000036 | 3-6 mm | 1/8 - 1/4 | 1,4 - 3,6 | 1 | **3,22** |
| UT0001005000068 | 6-8 mm | 1/4 - 5/16 | 2,1 - 3,6 | 1 | **3,22** |
| UT0001005000811 | 8-11 mm | 5/16 - 7/16 | 3,1 - 6,5 | 1 | **3,35** |
| UT0001005001114 | 11-14 mm | 7/16 - 9/16 | 4,8 - 8,8 | 1 | **4,51** |
| UT0001005001418 | 14-18 mm | 9/16 - 3/4 | 6,2 - 11 | 1 | **7,12** |
| UT0001005001824 | 18-24 mm | 3/4 - 1 | 11 - 14 | 1 | **10,82** |
| UT0001005002433 | 24-33 mm | 1 - 1 3/8 | 14 - 18 | 1 | **22,15** |
| UT0001005003345 | 33-45 mm | 1 3/8 - 1 3/4 | 18 - 24 | 1 | **29,36** |

## Kit estrattori conici



### Caratteristiche

Estrattori professionali conici in acciaio al cromo vanadio, ideali per l'estrazione di viti spanate; filettatura sinistra; dopo l'esecuzione di un preforo con punta tradizionale, avvitare l'estrattore in modalità "reverse" fino al momento in cui fa presa ed estrarre la vite. Disponibili anche in kit da 5, 6 e 8 pezzi.

| Codice | M | G & BSP | n° pezzi | | € / cad. |
|---|---|---|---|---|---|
| UT0001005000318 | 3-18 mm | 1/8 - 3/4 | 5 | 1 | **21,37** |
| UT0001005000324 | 3-24 mm | 1/8 - 1 | 6 | 1 | **33,48** |
| UT0001005000350 | 3-50 mm | 1/8 - 1 1/4 | 8 | 1 | **83,95** |

## Frese levapunti



### Caratteristiche

Fresa levapunti per l'asportazione di punti di saldatura; punta retrattile per un ottimo centraggio e tazza reversibile per un doppio utilizzo.

| Codice | Ø | Lunghezza | | € / cad. |
|---|---|---|---|---|
| UT0001005001090 | 10 mm | 90 mm | 1 | **23,43** |
| UT00010050109R1 - ricambio fresa reversibile | 10 mm | -- | 1 | **14,68** |
| UT00010050109R2 - ricambio punta centraggio | 10 mm | -- | 1 | **2,32** |

## Frese levapunti professionali



### Caratteristiche

Fresa levapunti versione professionale per l'asportazione di punti di saldatura; punta retrattile per un ottimo centraggio.

| Codice | Ø | Lunghezza | | € / cad. |
|---|---|---|---|---|
| UT0001005001060 | 10 mm | 60 mm | 1 | **19,44** |
| UT0001005001265 | 12 mm | 65 mm | 1 | **31,42** |

## Punte levapunti



### Caratteristiche

Punta levapunti in acciaio HSS-E cobalto per l'asportazione di punti di saldatura; profilo speciale del tagliente che garantisce centraggio e stabilità durante l'operazione.

| Codice | Ø | Lunghezza | | € / cad. |
|---|---|---|---|---|
| UT0001005000666 | 6 mm | 66 mm | 1 | **8,88** |
| UT0001005000879 | 8 mm | 79 mm | 1 | **13,39** |

## Punte levapunti per macchine pneumatiche



### Caratteristiche

Punta levapunti in acciaio HSS-E cobalto specifica per l'asportazione di punti di saldatura mediante apposite macchine pneumatiche.

| Codice | Ø | Lunghezza | | € / cad. |
|---|---|---|---|---|
| UT0001005000840 | 8 mm | 40 mm | 1 | **15,19** |
| UT0001005000844 | 8 mm | 44 mm | 1 | **15,19** |

## Lima ripristina filetti



### Caratteristiche

Lima ripristina filetti in acciaio HSS per ripristinare un'ampia gamma di filetti metrici; una volta individuato il passo corretto corrispondente ad una delle facce dell'utensile, si può procedere con l'estremità per ripristinare filettature interne o particolari in rotazione oppure manualmente, utilizzando l'utensile come una lima, per recuperare filetti esterni ammaccati.

| Codice | Filettatura metrica | Lunghezza | | € / cad. |
|---|---|---|---|---|
| UT0001005000230 | 0,8-1-1,25-1,5-1,75-2-2,5-3 | 230 mm | 1 | **63,86** |

## Kit riparazione filetti



### Caratteristiche

Kit per la riparazione di filetti da M5 a M12. Per una corretta riparazione, è necessario seguire le seguenti fasi: forare la filettatura con la punta in dotazione, rimischiare la filettatura, avvitare l'inserto con l'aiuto dell'apposito utensile di montaggio, rimuovere l'utensile e spezzare lo spinotto con il perno in dotazione. I kit contengono: punte, maschi, utensili di montaggio, perni ed inserti.

| Codice | Filetti | Contenuto | | € / cad. |
|---|---|---|---|---|
| UT000100500005K | M5x0,8 | 1 punta, 1 maschio, 1 utensile di montaggio, 1 perno, 15 inserti da M5 | 1 | **43,00** |
| UT000100500006K | M6x1 | 1 punta, 1 maschio, 1 utensile di montaggio, 1 perno, 15 inserti da M6 | 1 | **41,46** |
| UT000100500008K | M8x1,25 | 1 punta, 1 maschio, 1 utensile di montaggio, 1 perno, 15 inserti da M8 | 1 | **49,31** |
| UT000100500010K | M10x1,5 | 1 punta, 1 maschio, 1 utensile di montaggio, 1 perno, 15 inserti da M10 | 1 | **66,18** |
| UT000100500012K | M12x1,5 | 1 punta, 1 maschio, 1 utensile di montaggio, 1 perno, 15 inserti da M12 | 1 | **76,22** |
| UT000100500512K | M5-M12 | 5 punte, 5 maschi, 5 utensili di montaggio, 5 perni, 25 inserti da M5 a 10 e 10 inserti da M12 | 1 | **240,89** |

## STRONG REPAIR nastro riparatore in fibra di vetro



### Caratteristiche

Nastro riparatore in fibra di vetro, resistente alle alte temperature fino a 450°C. STRONG REPAIR è una maglia in fibra di vetro di alta qualità con una resina speciale che, attivandosi con l'acqua, consente la riparazione definitiva e duratura di qualsiasi materiale (legno, plastica, metallo, pvc, ecc.). Resistente all'acqua, all'alta pressione e alla temperatura (da +450°C a -45°C), STRONG REPAIR indurisce rapidamente come il ferro, garantendo delle riparazioni estremamente forti. Il suo utilizzo è molto semplice: dopo avere preventivamente pulito le superfici da trattare, immergere il nastro nell'acqua e avvolgere immediatamente con fermezza le parti.

| Codice | Misura | Colore | | € / cad. |
|---|---|---|---|---|
| CH8901101000520 | 5x200cm | nero | 1 | **35,70** |

## Elettroaspiratore mobile per gas di scarico




### Caratteristiche

Elettroaspiratore mobile con interruttore e bocchetta in gomma montata su asta regolabile in altezza, per estrazione gas di scarico dalle zone di lavoro. Portata massima 1.000 m3/h, depressione massima 105mm, 230V, monofase, 50Hz, 0,37Kw, 0,5HP

| Codice | | € / cad. |
|---|---|---|
| SA00100200000EM | 1 | **1.428,00** |

## Arrotolatore a molla



### Caratteristiche

Arrotolatore a molla accoppiato con elettroaspiratore per aspirazione gas di scarico di autoveicoli di piccola, media e grande cilindrata, e motocicli; riavvolgimento meccanico; adatto ad installazione a soffitto e parete. Completo di tubo flessibile, ferma tubo, bocchetta, copri fascette e fascette. Aspiratore 230/400V, 3HP, 50Hz, 0,37Kw / 0,5HP

| Codice | Ø tubo | L tubo | | € / cad. |
|---|---|---|---|---|
| SA00100200075AR | 75 mm | 10 mt | 1 | **2.712,00** |
| SA00100200010AR | 100 mm | 10 mt | 1 | **3.390,00** |

## Kit aspirazione ed evacuazione



### Caratteristiche

Kit per l'aspirazione e l'evacuazione di esalazioni e odori nocivi nell'ambiente di lavoro (acidi batterie); dotato di cappa in vetroresina (1000x1200mm), flessibile di collegamento Ø 120mm ed elettroaspiratore in fusione; lunghezza tubo flessibile 5mt, 0,75HP, 0,55Kw.

| Codice | | € / cad. |
|---|---|---|
| SA00100200005KA | 1 | **2.508,00** |

## Vasca lavapezzi TOP WASH




### Caratteristiche

Vasca lavapezzi a sgrassatura biologica, ad alte prestazioni, di nuova tecnologia. Riscaldata a 38°C, funzionante con il principio di rigenerazione naturale che utilizza i microrganismi per trasformare semplicemente gli inquinanti in sorgente di cibo e di energia. Questo funzionamento garantisce una sgrassatura efficace ed economica dei pezzi. Pulisce i pezzi senza l'utilizzo di solventi, rispettando l'ambiente e la salute degli operatori. Ergonomica, di semplice utilizzo, facilmente trasportabile grazie alle 4 ruote integrate, con vaschetta di immersione da 30 lt.

| Codice | Capacità | Dimensione | | € / cad. |
|---|---|---|---|---|
| IM0000300200100 | 100 lt | 905 x 650 x 1080 mm | 1 | **4.305,00** |

## Vasca lavapezzi BIO WASH




### Caratteristiche

Vasca lavapezzi a sgrassatura biologica, riscaldata a 38°C, funzionante con il principio di rigenerazione naturale che utilizza i microrganismi per trasformare semplicemente gli inquinanti in sorgente di cibo e di energia. Questo funzionamento garantisce una sgrassatura efficace ed economica dei pezzi. Pulisce i pezzi senza l'utilizzo di solventi, rispettando l'ambiente e la salute degli operatori. Ergonomica, facile da utilizzare (un solo interruttore), con vaschetta di immersione da 13 lt.

| Codice | Capacità | Dimensione | | € / cad. |
|---|---|---|---|---|
| IM0000300200060 | 60 lt | 810 x 640 x 1010 mm | 1 | **3.187,50** |

## BLUE LIQUID




### Caratteristiche

Soluzione detergente per vasche lavapezzi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| IM000030020020L | 20 lt | 1 | **268,00** |

## BLUE TABLET




### Caratteristiche

Pastiglie detergenti per vasche lavapezzi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| IM000030020004T | 4 pz | 1 | **185,60** |

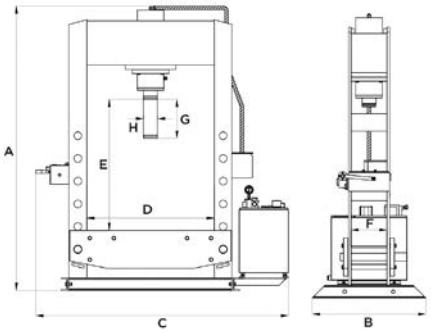
## Pressa elettroidraulica, velocità rapida, capacità 10-150 ton





### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Centralina motorizzata a due velocità ad inserimento automatico.
- Funzionamento tramite distributore a leva e pulsante sul quadro da azionare contemporaneamente.
- Pannelli protettivi posteriore e laterali in acciaio zincato.
- Valvola di taratura per regolare la potenza in base alla lavorazione da eseguire.
- Massima versatilità grazie al bancale ad altezza regolabile.
- Sollevamento del bancale tramite apposito argano o asta (escluso modelli capacità 10-20 ton.).
- Manometro in dotazione standard.



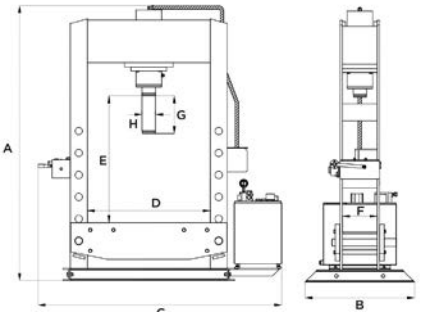

| Codice | TON | Vel. avv. (mm/min) | Velocità avv. (mm/min) CE | Velocità lavoro (mm/min) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Potenza motore (kw) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR15 | 10 | 5300 | 1750 | 350 | 1900 | 500 | 1100 | 520 | 980 | 120 | 260 | 40 | 0,75 | 194 | 1 | **5.517,72** |
| SO001001001PR16 | 20 | 5200 | 1550 | 260 | 1920 | 500 | 1110 | 510 | 1000 | 140 | 285 | 50 | 0,75 | 208 | 1 | **6.315,66** |
| SO001001001PR17 | 30 | 4490 | 1550 | 300 | 2000 | 600 | 1600 | 695 | 1000 | 170 | 260 | 60 | 1,5 | 338 | 1 | **7.175,61** |
| SO001001001PR18 | 40 | 4490 | 1530 | 300 | 2070 | 850 | 1650 | 775 | 1135 | 195 | 260 | 60 | 1,5 | 530 | 1 | **8.504,73** |
| SO001001001PR19 | 50 | 3100 | 1540 | 210 | 2080 | 850 | 1650 | 775 | 1135 | 205 | 260 | 60 | 1,5 | 560 | 1 | **9.037,08** |
| SO001001001PR20 | 70 | 3400 | 1600 | 260 | 2205 | 900 | 1755 | 880 | 1120 | 265 | 310 | 90 | 3 | 850 | 1 | **11.876,67** |
| SO001001001PR21 | 100 | 2360 | 1600 | 180 | 2260 | 900 | 1930 | 1010 | 1055 | 280 | 310 | 110 | 3 kw | 1100 | 1 | **12.949,56** |
| SO001001001PR22 | 100 | 2360 | 1600 | 180 | 2400 | 1300 | 2320 | 1520 | 1065 | 360 | 310 | 110 | 3 kw | 1500 | 1 | **18.336,24** |
| SO001001001PR23 | 150 | 1600 | 1600 | 120 | 2520 | 1300 | 2470 | 1520 | 1018 | 410 | 400 | 140 | 4 kw | 2200 | 1 | **27.370,98** |
| SO001001001PR24 | 150 | 1600 | 1600 | 120 | 2515 | 1300 | 1970 | 1020 | 1035 | 410 | 400 | 140 | 4 kw | 1870 | 1 | **19.866,60** |

## Pressa elettroidraulica, velocità media, capacità 40-150 ton



### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Centralina motorizzata a due velocità ad inserimento automatico (escluso modello capacità 40 ton.).
- Azionamento tramite distributore a leva a 3 posizioni. Questa soluzione permette di avere una mano libera per lavorare.
- Valvola di taratura per regolare la potenza in base alla lavorazione da eseguire.
- Massima versatilità grazie al bancale ad altezza regolabile.
- Sollevamento del bancale tramite apposito argano o tramite asta.
- Manometro in dotazione standard.



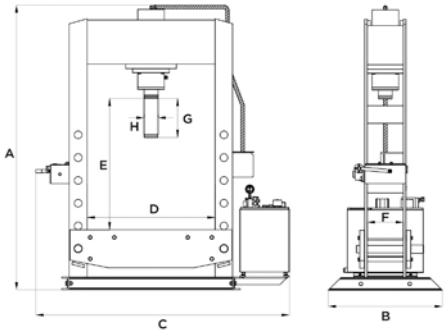

| Codice | TON | Vel. avv. (mm/min) | Vel. lavoro (mm/min) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Potenza motore (kw) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR10 | 40 | 575 | 575 | 2070 | 850 | 1650 | 775 | 1135 | 195 | 260 | 60 | 3 | 470 | 1 | **7.510,23** |
| SO001001001PR11 | 50 | 600 | 215 | 2080 | 850 | 1650 | 775 | 1135 | 205 | 260 | 60 | 1,5 | 530 | 1 | **8.309,34** |
| SO001001001PR12 | 70 | 595 | 260 | 2205 | 900 | 1755 | 880 | 1120 | 265 | 310 | 90 | 3 | 800 | 1 | **11.070,54** |
| SO001001001PR13 | 100 | 570 | 180 | 2260 | 900 | 1930 | 1010 | 1055 | 280 | 310 | 110 | 3 | 1050 | 1 | **12.279,15** |
| SO001001001PR14 | 150 | 600 | 120 | 2520 | 1300 | 2470 | 1520 | 1018 | 410 | 400 | 140 | 4 | 2200 | 1 | **26.275,86** |

## Pressa elettroidraulica, velocità lenta, capacità 40-100 ton



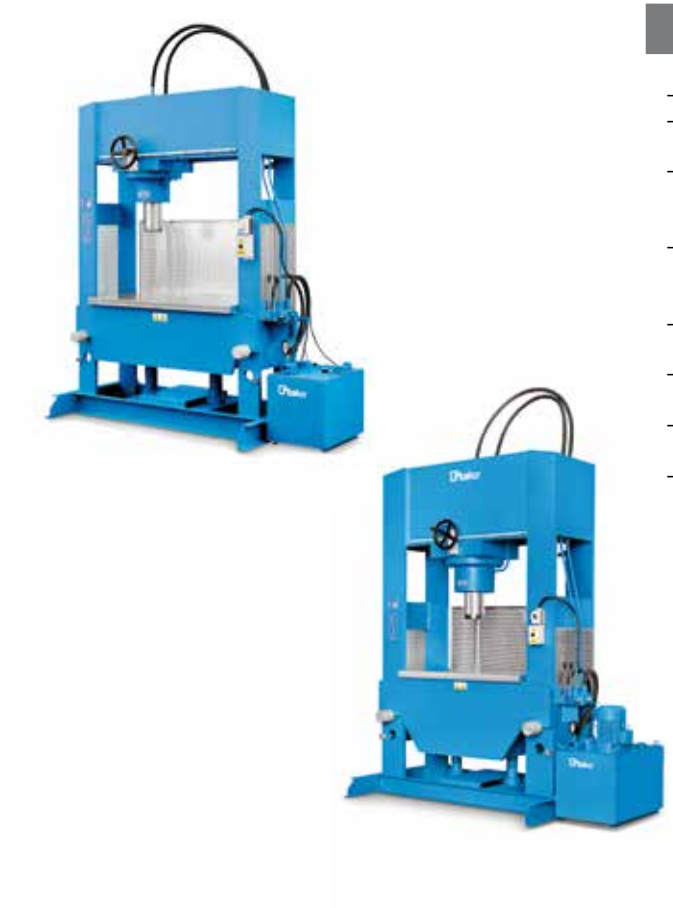
### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Centralina motorizzata ad una velocità.
- Azionamento tramite distributore a leva a 3 posizioni. Questa soluzione permette di avere una mano libera per lavorare.
- Valvola di taratura per regolare la potenza in base alla lavorazione da eseguire.
- Massima versatilità grazie al bancale ad altezza regolabile.
- Con argano per poter sollevare il bancale in modo pratico e veloce.
- Manometro in dotazione standard.



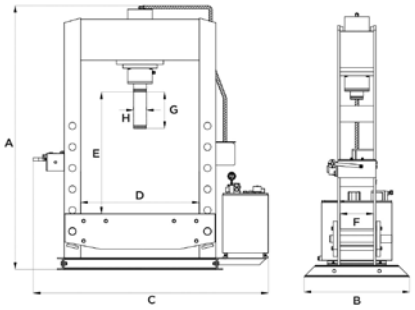

| Codice | TON | Vel. stelo (mm/min) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Potenza motore (kw) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR06 | 40 | 300 | 2070 | 850 | 1575 | 770 | 1135 | 200 | 260 | 60 | 1,5 | 440 | 1 | **6.750,90** |
| SO001001001PR07 | 50 | 210 | 2080 | 850 | 1570 | 770 | 1135 | 210 | 260 | 60 | 1,5 | 480 | 1 | **7.270,38** |
| SO001001001PR08 | 70 | 260 | 2205 | 900 | 1755 | 880 | 1120 | 270 | 310 | 90 | 3 | 740 | 1 | **9.792,90** |
| SO001001001PR09 | 100 | 180 | 2260 | 900 | 1930 | 1010 | 1055 | 285 | 310 | 110 | 3 | 1000 | 1 | **10.866,96** |

## Pressa elettroidraulica, alta potenza, capacità 200-300 ton



### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Centralina motorizzata a due velocità ad inserimento automatico.
- Funzionamento tramite distributore a leva e pulsante sul quadro da azionare contemporaneamente (cod. SO 001001001PR25 – SO001001001PR27).
- Azionamento tramite distributore a leva a 3 posizioni. Questa soluzione permette di avere una mano libera per lavorare (cod. SO001001001PR26 – SO001001001PR28).
- Complete di pannelli protettivi posteriore e laterali in acciaio zincato (cod. SO001001001PR25 – SO001001001PR27).
- Valvola di taratura per regolare la potenza in base alla lavorazione da eseguire.
- Sollevamento del bancale tramite due cilindri idraulici azionabili tramite apposita leva.
- Piano di lavoro fresato.



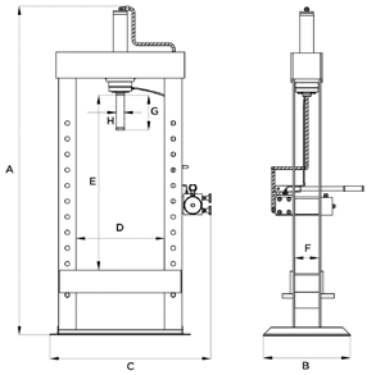

| Codice | TON | Vel. avv. (mm/min) | Vel. lavoro (mm/min) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Potenza motore (kw) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR26 | 200 | 600 | 95 | 2995 | 1310 | 2600 | 1520 | 1020 | 520 | 520 | 170 | 4 | 4150 | 1 | **47.483,28** |
| SO001001001PR25 | 200 | 1300 | 95 | 2995 | 1310 | 2600 | 1520 | 1020 | 520 | 520 | 170 | 4 | 4150 | 1 | **84.628,44** |
| SO001001001PR28 | 300 | 600 | 95 | 3415 | 1700 | 2900 | 1500 | 960 | 640 | 500 | 210 | 5,5 | 8200 | 1 | **82.513,08** |
| SO001001001PR27 | 300 | 1000 | 95 | 3415 | 1700 | 2900 | 1500 | 960 | 640 | 500 | 210 | 5,5 | 8200 | 1 | **46.058,22** |

## Pressa idraulica con pompa a mano, capacità 10-20 ton



### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Molla in acciaio inserita nel cilindro per un rapido ritorno dello stelo.
- Pompa a mano a due velocità: rapidità in fase di avvicinamento e precisione in fase di lavoro.
- Gestione delle due velocità tramite volantino posto sulla pompa.
- Massima versatilità grazie al bancale ad altezza regolabile.
- Piatto cacciaspine e coppia di prismi a V in dotazione standard.



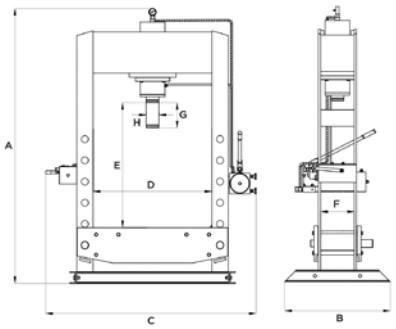

| Codice | TON | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR01 | 10 | 1900 | 500 | 910 | 520 | 980 | 120 | 190 | 40 | 124 | 1 | **1.478,88** |
| SO001001001PR02 | 15 | 1890 | 500 | 930 | 510 | 1020 | 140 | 190 | 40 | 130 | 1 | **1.661,40** |
| SO001001001PR03 | 20 | 1920 | 500 | 930 | 510 | 1020 | 140 | 200 | 50 | 150 | 1 | **1.930,50** |

## Pressa idraulica con pompa a mano, capacità 30-40 ton



### Caratteristiche

- Struttura in robusto acciaio saldato.
- Stelo cilindro in acciaio speciale, trattato e cromato.
- Molla in acciaio inserita nel cilindro per un rapido ritorno dello stelo.
- Pompa a mano a due velocità: rapidità in fase di avvicinamento e precisione in fase di lavoro.
- Gestione delle due velocità tramite volantino posto sulla pompa.
- Con argano per poter sollevare il bancale in modo pratico e veloce.
- Manometro di grosso diametro fornito di serie.



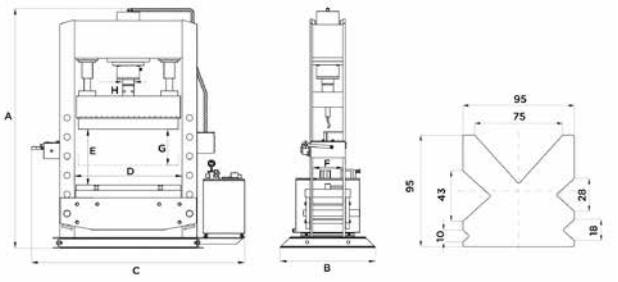

| Codice | TON | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR04 | 30 | 2000 | 600 | 1300 | 695 | 1000 | 170 | 190 | 60 | 280 | 1 | **3.081,78** |
| SO001001001PR05 | 40 | 2100 | 850 | 1420 | 770 | 1135 | 200 | 190 | 60 | 405 | 1 | **4.082,13** |

## Pressa elettroidraulica per piegature



### Caratteristiche

- Stelo cilindro in acciaio speciale, trattato e cromato.
- Lama in acciaio ad altissima resistenza.
- Particolare matrice che ospita 5 differenti impronte. Cinque accessori in uno.
- Dispositivo elettrico di finecorsa.
- Centralina motorizzata a due velocità ad inserimento automatico.
- Funzionamento tramite distributore a leva e pulsante sul quadro da azionare contemporaneamente (cod. SO001001001PR29 – SO001001001PR31).
- Funzionamento tramite pulsantiera di comando a due mani che consente manovre automatiche condizionate dal dispositivo di finecorsa (cod. SO001001001PR30 – SO001001001PR32).
- Pannelli protettivi posteriore e laterali in acciaio zincato.
- Valvola di taratura per regolare la potenza in base alla lavorazione da eseguire.

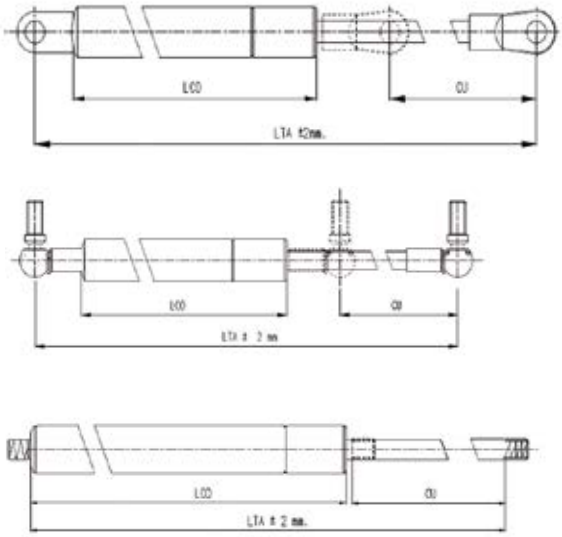



| Codice | TON | Vel. avv. (mm/min) | Velocità avv. (mm/min) CE | Velocità lavoro (mm/min) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Potenza motore (kw) | Peso (Kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001PR29 | 100 | 2360 | 1600 | 180 | 2260 | 900 | 1950 | 1050 | 400 | 280 | 310 | 110 | 3 | 1700 | 1 | **21.461,31** |
| SO001001001PR30 | 100 | 2360 | 1600 | 180 | 2300 | 900 | 1950 | 1050 | 400 | 280 | 300 | 110 | 3 | 1900 | 1 | **26.557,83** |
| SO001001001PR31 | 150 | 1600 | 1600 | 120 | 2850 | 1200 | 2450 | 1500 | 400 | 410 | 400 | 140 | 4 | 3100 | 1 | **48.957,48** |
| SO001001001PR32 | 150 | 1600 | 1600 | 120 | 2850 | 1200 | 2550 | 1500 | 400 | 410 | 400 | 140 | 4 | 3100 | 1 | **55.663,92** |

## Caratteristiche base delle molle a gas

Quando si vuole definire una molla a gas, ad esempio in caso di sostituzione di una molla esausta, gli elementi da considerare sono:

- Diametro corpo/diametro stelo - es. 15 6: molla avente diametro corpo 15 mm. e diametro stelo 6 mm.
- Corsa utile: escursione dello stelo dal cilindro misurata come da figura (CU)
- LCO: Lunghezza Corpo
- LTA: Lunghezza Tutto Aperto misurata come distanza tra interasse dei fori, interasse teste snodate, base filetti
- Spinta F1: forza della molla a gas espressa in Newton oppure in Kg. (Newton/9,81) misurata a molla tutta aperta comprimendo lo stelo per 10 mm. e liberandolo dagli attriti
- Attacchi: possono essere fori passanti, teste snodate dotate o meno di perno, forcelle, filetti, ecc.



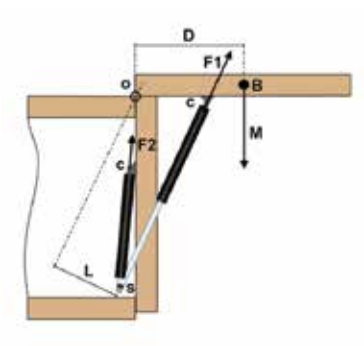

## Calcolo della spinta della molla a gas in base all'applicazione

Nei casi in cui la molla a gas venga impiegata per la prima volta e non vi sia alcun pezzo da sostituire diventa necessaria la definizione della spinta. Di seguito i dati fondamentali necessari per definire la spinta nei principali casi applicativi.

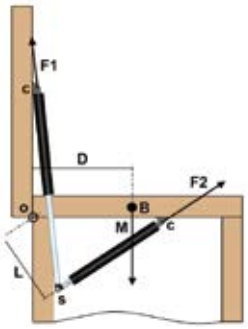
DATI FONDAMENTALI:
- Peso e dimensioni dell'oggetto da movimentare
- Braccio di leva (L) che si ottiene con l'applicazione della molla a gas

Casi applicativi con relativa formula di calcolo della spinta:

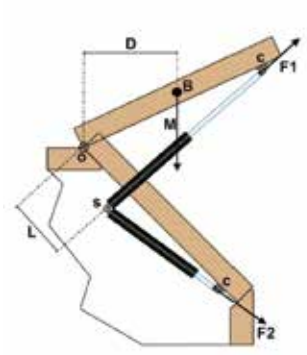
**CASO 1: VERTICALE**




**CASO 2: ORIZZONTALE**




**CASO 3: INCLINATA**




Legenda:

M = peso dell'oggetto espresso in kg.
D = misura in mm. della distanza dal fulcro del baricentro (B) dell'oggetto; questa misura normalmente si trova circa a metà sportello. Ad esempio: con uno sportello ad apertura verticale alto 500 mm., la misura D è 250 mm.
L = braccio di leva misurato come distanza in mm. della parallela passante per il fulcro e per i 2 punti di ancoraggio della molla; questa distanza non può mai essere superiore alla corsa della molla a gas per aperture a 90° o superiori.
F1 = spinta della molla in posizione di tutto aperto
F2 = spinta della molla in posizione di tutto chiuso (si ottiene incrementando la spinta iniziale per il fattore di incremento di spinta relativo al diametro utilizzato)

## CASO 1 - applicazione verticale: sportelli, ante, barriere di protezione

Nel caso di applicazioni come quella indicata nell'immagine 1, la spinta totale necessaria per aprire lo sportello a 90° si definisce come segue:

$$F1= [(M \times D)/L]+15\%$$

Il valore così ottenuto è espresso in kg. e deve essere diviso per il numero delle molle a gas che si vogliono installare. Si consiglia di installare 2 molle a gas per sportelli di larghezza superiore a 450 mm. F1 viene incrementata del 15% per compensare eventuali attriti di sistema.

## CASO 2 - applicazione orizzontale: coperchi di casse, tombini, grigliati, ecc.

Nel caso di applicazioni come quella indicata nell'immagine 2, la spinta totale per aprire lo sportello è pari alla spinta della/e molla/e nella posizione di tutto chiuso. Il braccio di leva L viene quindi calcolato quando lo sportello è chiuso.
In questa posizione, infatti, lo sforzo per sollevare è massimo, mentre quando lo sportello raggiunge la posizione di tutto aperto, tutto il suo peso è scaricato sulle cerniere (nel caso di apertura a 90°).

$$F2=(M \times D)/L$$

Il risultato ottenuto va diviso per il fattore di incremento di spinta (indicato per ogni diametro nelle pagine seguenti) in modo da ottenere la spinta della molla gas:

$$F1= F2/\text{Incremento di spinta}^*$$

Il valore così ottenuto, espresso in kg., deve essere diviso per il numero delle molle a gas che si vogliono installare. Si consiglia di installare 2 molle a gas per sportelli di larghezza superiore a 450 mm.

* il valore di incremento di spinta, come riportato nel presente catalogo, viene espresso in percentuale. Es. 30%. Nella formula riportata il divisore sarà: 30% = 1,30; 39% = 1,39 e così via.

Nell'applicazione orizzontale non vengono aggiunti fattori di correzione della forza per la compensazione di attriti.

## CASO 3 - applicazione inclinata: lucernari, bauli

In questo caso, la spinta della molla va calcolata quando lo sportello è in posizione di tutto aperto, il baricentro si può considerare al centro dello sportello anche se risulta leggermente spostato verso le cerniere (fulcro). La formula sarà:

$$F1= [(M \times D)/L]+15\%$$

Il valore così ottenuto deve essere diviso per il numero delle molle a gas che si vogliono installare. Si consiglia di installare 2 molle a gas per sportelli di larghezza superiore a 450 mm.
F1 viene incrementata del 15% per compensare eventuali attriti di sistema.

## Legenda

**CU**
Corsa utile

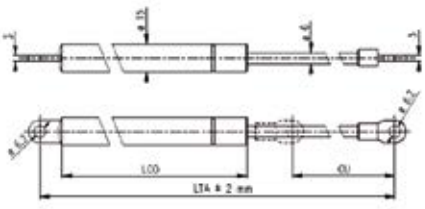
**LTA**
Lunghezza tutto aperto calcolata come distanza tra gli interassi degli attacchi

**LCO**
Lunghezza corpo

**Kg min/max**
Spinta

## Linea stelo Ø 6 mm. e corpo 15 mm.

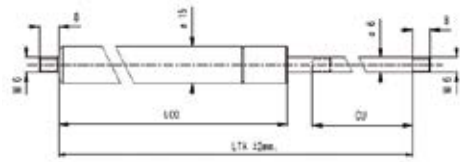




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT15.145.kg RT | 15 | 6 | 40 | 145 | 2 | 40 | 30% | 1 | **32,96** |
| TT15.185.kg RT | 15 | 6 | 60 | 185 | 2 | 40 | 30% | 1 | **33,37** |
| TT15.225.kg RT | 15 | 6 | 80 | 225 | 2 | 40 | 30% | 1 | **34,20** |
| TT15.265.kg RT | 15 | 6 | 100 | 265 | 2 | 40 | 30% | 1 | **35,02** |
| TT15.305.kg RT | 15 | 6 | 120 | 305 | 2 | 40 | 30% | 1 | **35,43** |
| TT15.365.kg RT | 15 | 6 | 150 | 365 | 2 | 40 | 30% | 1 | **36,67** |

## Linea stelo Ø 6 mm. e corpo 15 mm.

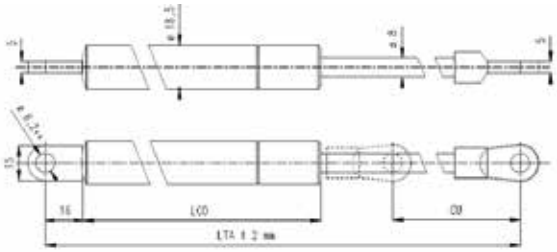




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT15.115.kg FF | 15 | 6 | 40 | 115 | 2 | 40 | 30% | 1 | **28,43** |
| TT15.155.kg FF | 15 | 6 | 60 | 155 | 2 | 40 | 30% | 1 | **29,25** |
| TT15.195.kg FF | 15 | 6 | 80 | 195 | 2 | 40 | 30% | 1 | **29,66** |
| TT15.235.kg FF | 15 | 6 | 100 | 235 | 2 | 40 | 30% | 1 | **30,49** |
| TT15.275.kg FF | 15 | 6 | 120 | 275 | 2 | 40 | 30% | 1 | **31,31** |
| TT15.335.kg FF | 15 | 6 | 150 | 335 | 2 | 40 | 30% | 1 | **32,14** |

## Linea stelo Ø 8 mm. e corpo 18,5 mm.

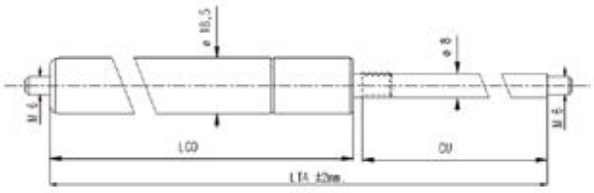




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT19.205.kg. RT | 18,5 | 8 | 60 | 205 | 5 | 75 | 39% | 1 | **39,96** |
| TT19.245.kg. RT | 18,5 | 8 | 80 | 245 | 5 | 75 | 39% | 1 | **40,79** |
| TT19.285.kg RT | 18,5 | 8 | 100 | 285 | 5 | 75 | 39% | 1 | **41,61** |
| TT19.325.kg RT | 18,5 | 8 | 120 | 325 | 5 | 75 | 39% | 1 | **42,44** |
| TT19.365.kg RT | 18,5 | 8 | 140 | 365 | 5 | 75 | 39% | 1 | **43,26** |
| TT19.405.kg RT | 18,5 | 8 | 160 | 405 | 5 | 75 | 39% | 1 | **44,08** |
| TT19.445.kg RT | 18,5 | 8 | 180 | 445 | 5 | 75 | 39% | 1 | **44,91** |
| TT19.485.kg RT | 18,5 | 8 | 200 | 485 | 5 | 75 | 39% | 1 | **45,73** |
| TT19.525.kg RT | 18,5 | 8 | 220 | 525 | 5 | 75 | 39% | 1 | **46,56** |
| TT19.585.kg RT | 18,5 | 8 | 250 | 585 | 5 | 75 | 39% | 1 | **48,20** |

## Linea stelo Ø 8 mm. e corpo 18,5 mm.

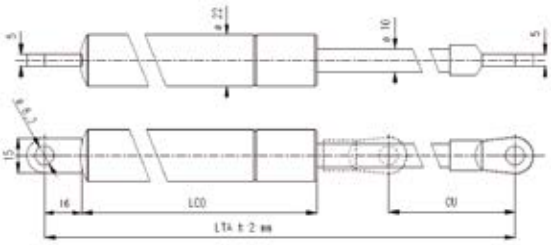




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT19.165.kg. FF | 18,5 | 8 | 60 | 165 | 5 | 75 | 39% | 1 | **35,84** |
| TT19.205.kg. FF | 18,5 | 8 | 80 | 205 | 5 | 75 | 39% | 1 | **36,67** |
| TT19.245.kg. FF | 18,5 | 8 | 100 | 245 | 5 | 75 | 39% | 1 | **37,49** |
| TT19.285.kg. FF | 18,5 | 8 | 120 | 285 | 5 | 75 | 39% | 1 | **38,32** |
| TT19.325.kg. FF | 18,5 | 8 | 140 | 325 | 5 | 75 | 39% | 1 | **39,14** |
| TT19.365.kg. FF | 18,5 | 8 | 160 | 365 | 5 | 75 | 39% | 1 | **39,96** |
| TT19.405.kg. FF | 18,5 | 8 | 180 | 405 | 5 | 75 | 39% | 1 | **40,79** |
| TT19.445.kg. FF | 18,5 | 8 | 200 | 445 | 5 | 75 | 39% | 1 | **41,61** |
| TT19.485.kg. FF | 18,5 | 8 | 220 | 485 | 5 | 75 | 39% | 1 | **42,44** |
| TT19.545.kg. FF | 18,5 | 8 | 250 | 545 | 5 | 75 | 39% | 1 | **56,03** |

## Linea stelo Ø 10 mm. e corpo 22 mm.

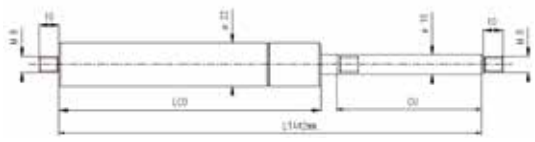




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT22.285.kg. RT | 22 | 10 | 100 | 285 | 10 | 120 | 44% | 1 | **48,62** |
| TT22.385.kg. RT | 22 | 10 | 150 | 385 | 10 | 120 | 44% | 1 | **51,50** |
| TT22.485.kg. RT | 22 | 10 | 200 | 485 | 10 | 120 | 44% | 1 | **53,97** |
| TT22.585.kg. RT | 22 | 10 | 250 | 585 | 10 | 120 | 44% | 1 | **56,44** |
| TT22.685.kg. RT | 22 | 10 | 300 | 685 | 10 | 120 | 44% | 1 | **59,33** |
| TT22.785.kg. RT | 22 | 10 | 350 | 785 | 10 | 120 | 44% | 1 | **61,80** |
| TT22.885.kg. RT | 22 | 10 | 400 | 885 | 10 | 120 | 44% | 1 | **64,27** |
| TT22.1085.kg. RT | 22 | 10 | 450 | 1085 | 10 | 120 | 44% | 1 | **69,63** |

## Linea stelo Ø 10 mm. e corpo 22 mm.

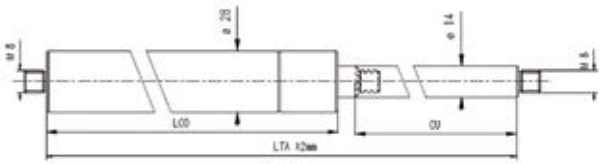




| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT22.255.kg. FF | 22 | 10 | 100 | 255 | 10 | 120 | 44% | 1 | **46,14** |
| TT22.355.kg. FF | 22 | 10 | 150 | 355 | 10 | 120 | 44% | 1 | **48,62** |
| TT22.455.kg. FF | 22 | 10 | 200 | 455 | 10 | 120 | 44% | 1 | **51,50** |
| TT22.555.kg. FF | 22 | 10 | 250 | 555 | 10 | 120 | 44% | 1 | **53,97** |
| TT22.655.kg. FF | 22 | 10 | 300 | 655 | 10 | 120 | 44% | 1 | **56,44** |
| TT22.755.kg. FF | 22 | 10 | 350 | 755 | 10 | 120 | 44% | 1 | **59,33** |
| TT22.855.kg. FF | 22 | 10 | 400 | 855 | 10 | 120 | 44% | 1 | **65,10** |
| TT22.1055.kg. FF | 22 | 10 | 500 | 1055 | 10 | 120 | 44% | 1 | **67,16** |

## Linea stelo Ø 14 mm. e corpo 28 mm.





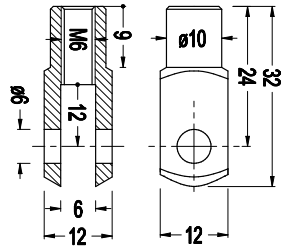

| Codice | Ø corpo | Ø stelo | CU (mm) | LTA (mm) | Kg min. | Kg max. | Incremento spinta | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| TT28.255.kg. FF | 28 | 14 | 100 | 255 | 10 | 250 | 54% | 1 | **73,75** |
| TT28.455.kg. FF | 28 | 14 | 200 | 455 | 10 | 250 | 54% | 1 | **80,75** |
| TT28.555.kg. FF | 28 | 14 | 250 | 555 | 10 | 250 | 54% | 1 | **84,46** |
| TT28.655.kg. FF | 28 | 14 | 300 | 655 | 10 | 250 | 54% | 1 | **88,58** |
| TT28.755.kg. FF | 28 | 14 | 350 | 755 | 10 | 250 | 54% | 1 | **91,88** |
| TT28.855.kg. FF | 28 | 14 | 400 | 855 | 10 | 250 | 54% | 1 | **95,58** |
| TT28.1055.kg. FF | 28 | 14 | 500 | 1055 | 10 | 250 | 54% | 1 | **103,00** |

## Attacchi lato corpo-stelo per filetto

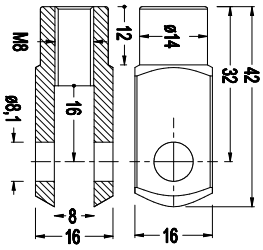


| Codice | Compatibilità | | € / cad. |
|---|---|---|---|
| TTFC1 | Filetto M6 | 1 | **4,96** |
| TTFC1C | Clip per FC1 | 1 | **2,47** |
| TTRF26 | Filetto M6 | 1 | **4,53** |
| TTS1F | Filetto M6 | 1 | **2,88** |
| TTS1FA | Filetto M6 | 1 | **2,88** |
| TTS1PL | Filetto M6 | 1 | **1,65** |
| TTS5F | Filetto M6 | 1 | **3,71** |
| TTS5PL | Filetto M6 | 1 | **1,24** |
| TTFC2 | Filetto M8 | 1 | **4,94** |
| TTFC2C | Clip per FC2 | 1 | **2,47** |
| TTF4 | Filetto M8 | 1 | **5,36** |
| TTS1F8 | Filetto M8 | 1 | **2,88** |
| TTS2F | Filetto M8 | 1 | **6,59** |
| TTS2FA | Filetto M8 | 1 | **4,94** |
| TTSN2 | Per testa con snodo 13 mm. | 1 | **3,71** |
| TTSN1BE | Per testa con snodo 10 mm. | 1 | **2,47** |

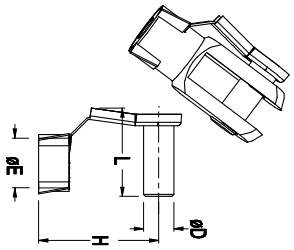
## Attacchi TTFC




FC1

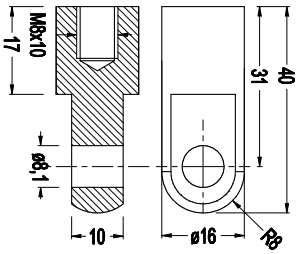



FC2



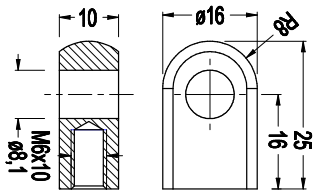

CLIP

## Attacchi TTF

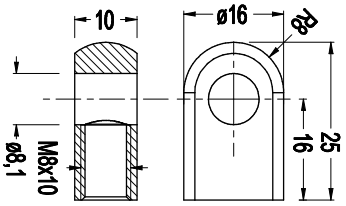



F4

## Attacchi TTRF

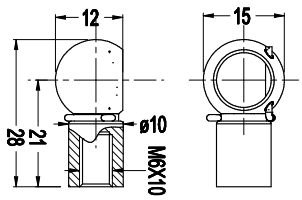



RF26

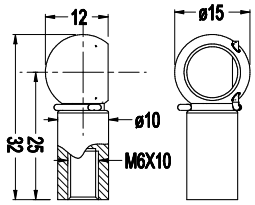



RF28

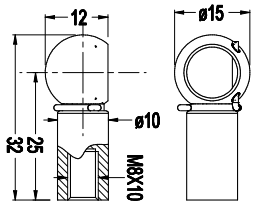
## Attacchi TTS1F



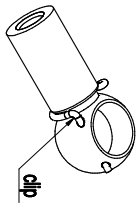

S1 ACC FEMM




S1 FEMM

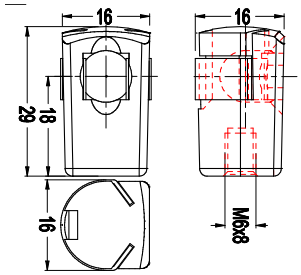



S1 FEMM M8

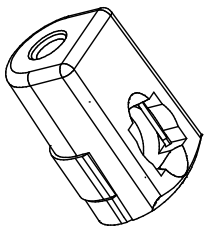



S1 FEMM ISO

## Attacchi TTS1PL

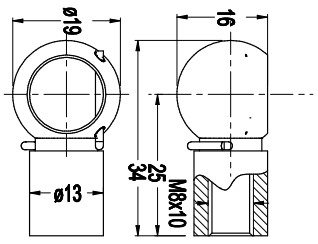



S1PL FEMM

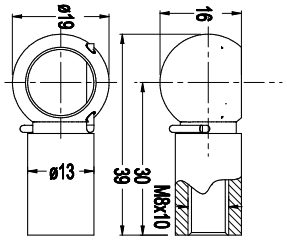


S1PL ISO

## Attacchi TTS2F

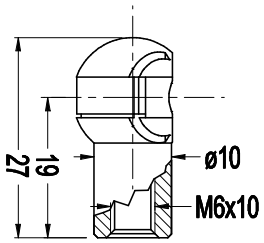



S2FA

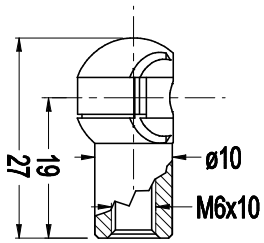



S2F

## Attacchi TTS5F

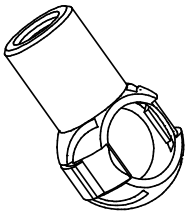



**S5 FEMM**



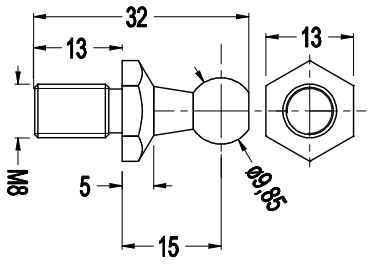

**S5PL**

per forze fino a 50 Kg, disponibile in plastica

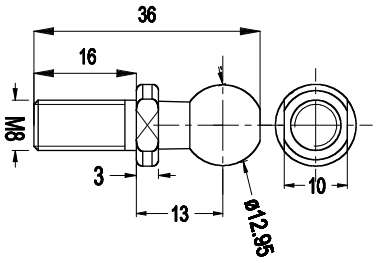


**S5 ISO**

## Attacchi TTSN




**SN1 BE**




**SN2**

## Rampa di carico LIGHT



### Caratteristiche

Realizzata interamente in alluminio, sostiene carichi fino a 400 kg; può essere costruita in dimensioni variabili da 40 a 105 cm di larghezza e da 150 a 325 cm di lunghezza. Leggera, versatile e di pratica installazione, la rampa LIGHT si caratterizza per il suo sistema veloce di aggancio-sgancio al veicolo e dalla dotazione di bandelle mobili, molla a gas e ruotine che facilitano il movimento di apertura; può anche essere utilizzata a ponte. Disponibile sia con il piano in alluminio antiscivolo che in versione con rete stirata. Su richiesta è possibile aggiungere il kit di rotazione per ruotarla esternamente.

| Codice | Larghezza | Lunghezza | Portata | | € / cad. |
|---|---|---|---|---|---|
| IM100004012000L | 80 cm | 200 cm | 400 kg | 1 | **2.008,50** |
| IM100004012250L | 80 cm | 225 cm | 400 kg | 1 | **2.083,25** |
| IM100004012500L | 80 cm | 250 cm | 400 kg | 1 | **2.184,00** |

## Rampa di carico SUPER LIGHT



### Caratteristiche

Composta da un piano in alluminio antiscivolo forato, permette di caricare in totale sicurezza carichi leggeri fino a 250 kg. Con una larghezza fissa di 85 cm e tre varianti di lunghezza 200 cm, 225 cm o 250 cm; le dimensioni della SUPER LIGHT sono standard e non modificabili. Decisamente pratico ed agevole il sistema di aggancio-sgancio che permette di smontarla con facilità per essere messa a riposo o trasferita da un mezzo all'altro. Disponibile a richiesta la versione con finestra sul retro per non ostacolare la visibilità.

| Codice | Larghezza | Lunghezza | Portata | | € / cad. |
|---|---|---|---|---|---|
| IM10000401200SL | 85 cm | 200 cm | 250 kg | 1 | **1.790,91** |
| IM10000401225SL | 85 cm | 225 cm | 250 kg | 1 | **1.856,17** |
| IM10000401250SL | 85 cm | 250 cm | 250 kg | 1 | **1.921,47** |

## Rampa di carico LIGHT PLUS



### Caratteristiche

Questa tipologia di rampa nasce dall'evoluzione del modello LIGHT con prestazioni e caratteristiche potenziate: ancoraggio con supporto fisso che permette di ampliare la gamma delle larghezze disponibili, da 40 cm fino a 120 cm; apertura a libro più semplice e veloce, installata di serie su ogni rampa; portata 600 kg nelle larghezze da 40 a 95 cm e 400 kg nelle altre larghezze. Realizzata interamente in alluminio antiscivolo, leggera, di facile installazione e maneggevolezza grazie anche al «kit ruota» di serie e alla molla a gas. Su richiesta, è possibile avere l'optional dell'apertura verso l'interno del veicolo. La LIGHT PLUS può essere inoltre utilizzata a ponte, grazie alla possibilità di bloccarla centralmente, per caricare a pari livello.

| Codice | Larghezza | Lunghezza | Portata | | € / cad. |
|---|---|---|---|---|---|
| IM10000401200LP | 80 cm | 200 cm | 600 kg | 1 | **2.636,17** |
| IM10000401225LP | 80 cm | 225 cm | 600 kg | 1 | **2.712,94** |
| IM10000401250LP | 80 cm | 250 cm | 600 kg | 1 | **2.815,31** |

## Rampa di carico PC



### Caratteristiche

Il modello più completo e flessibile della gamma, realizzato su misura per il mezzo: le dimensioni sono variabili, larghezza da 66 cm a 137 cm, e lunghezza da 195 cm fino a 330 cm, con portata variabile da 600 kg fino a 1.800 kg. La sua caratteristica di adattarsi ad ogni esigenza di peso e carico la rende molto funzionale, grazie anche alla speciale "apertura a libro" che permette di ruotarla internamente ed esternamente al vano. La rampa PC ha il piano d'appoggio in alluminio antiscivolo ed è dotata di piedini autoposizionanti all'apertura, oltre che al kit ruota per agevolarne il movimento.

| Codice | Larghezza | Lunghezza | Portata | | € / cad. |
|---|---|---|---|---|---|
| IM10004018195PC | 80 cm | 195 cm | 600 kg | 1 | **3.378,47** |
| IM10004019195PC | 90 cm | 195 cm | 600 kg | 1 | **3.419,26** |
| IM10004011250PC | 100 cm | 250 cm | 600 kg | 1 | **3.465,05** |


ø 36 mm

# 8 ATTREZZATURESOLLEVAMENTO



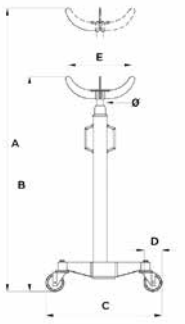
| | | |
|---|---|---|
| Sollevatori idraulici |     | 836-840 |
| Gru idrauliche |   | 841-842 |
| Curvatubi |   | 843 |
| Cilindri idraulici |    | 844-848 |
| Pompe |   | 849-850 |
| Accessori per sollevamento e ancoraggio |     | 850-873 |

## Sollevatori idraulici da fossa



### Caratteristiche

- Stelo in acciaio speciale rettificato e cromato.
- Ruote di grandi dimensioni montate su cuscinetti per la massima manovrabilità.
- Valvola di protezione contro i sovraccarichi.
- Comando di discesa a velocità controllata “uomo presente”.



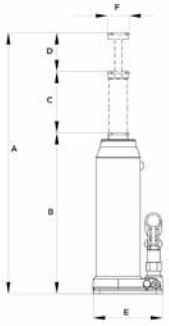

| Codice | Portata | A | B | C | D | E | Ø | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010002F01 | 250 kg | 2090 mm | 1240 mm | 410x585 mm | 60 mm | 270 mm | 22 mm | 22 kg | 1 | **412,88** |
| SO0010010004F02 | 400 kg | 2090 mm | 1240 mm | 410x585 mm | 80 mm | 270 mm | 24 mm | 27 kg | 1 | **482,63** |
| SO0010010006F03 | 600 kg | 1960 mm | 1180 mm | 520x520 mm | 80 mm | 320 mm | 30 mm | 37 kg | 1 | **709,88** |

## Sollevatori idraulici a bottiglia




### Caratteristiche

- Portata da 3 a 50 ton.
- Struttura sovradimensionata in acciaio ad alta resistenza.
- Base d’appoggio di grandi dimensioni a garanzia della massima stabilità.
- Valvola di protezione contro i sovraccarichi incorporata.
- I modelli più pesanti sono dotati di maniglia per agevolare il trasporto.
- Avvicinamento al punto di sollevamento rapido e preciso grazie alla vite incorporata (escluso art. portata 3000 Kg. e 50000 Kg.).




| Codice | Portata | A | B | C | D | E | F | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO0010010003B01 | 3000 kg | 325 mm | 200 mm | 125 mm | - | 120x120 mm | 40 mm | 1 | **92,25** |
| SO0010010003B02 | 3000 kg | 400 mm | 240 mm | 160 mm | - | 120x120 mm | 40 mm | 1 | **95,63** |

## Sollevatori idraulici a bottiglia

| Codice | Portata | A | B | C | D | E | F | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO0010010005B01 | 5000 kg | 485 mm | 220 mm | 140 mm | 125 mm | 120x120 mm | 40 mm | 1 | **111,38** |
| SO0010010005B02 | 5000 kg | 370 mm | 190 mm | 105 mm | 75 mm | 120x120 mm | 40 mm | 1 | **105,20** |
| SO0010010005B03 | 5000 kg | 630 mm | 275 mm | 195 mm | 160 mm | 120x120 mm | 40 mm | 1 | **146,25** |
| SO0010010010B01 | 10000 kg | 515 mm | 240 mm | 150 mm | 125 mm | 140x140 mm | 50 mm | 1 | **145,13** |
| SO0010010010B02 | 10000 kg | 710 mm | 310 mm | 225 mm | 175 mm | 140x140 mm | 50 mm | 1 | **191,25** |
| SO0010010015B01 | 15000 kg | 515 mm | 245 mm | 150 mm | 120 mm | 140x140 mm | 60 mm | 1 | **191,25** |
| SO0010010020B01 | 20000 kg | 575 mm | 285 mm | 165 mm | 125 mm | 170x170 mm | 60 mm | 1 | **268,88** |
| SO0010010025B01 | 25000 kg | 575 mm | 285 mm | 165 mm | 125 mm | 170x170 mm | 60 mm | 1 | **333,00** |
| SO0010010030B01 | 30000 kg | 585 mm | 295 mm | 165 mm | 125 mm | 225x183 mm | 65 mm | 1 | **385,88** |
| SO0010010050B01 | 50000 kg | 430 mm | 270 mm | 160 mm | - | 280x230 mm | 90 mm | 1 | **1.042,88** |

## Binde idrauliche



### Caratteristiche

- Struttura sovradimensionata in acciaio ad alta resistenza.
- Base d'appoggio di grandi dimensioni a garanzia della massima stabilità.
- Valvola di protezione contro i sovraccarichi incorporata.
- Altezza minima da terra di soli 30mm.

| Codice | Portata | H max | H min | | € / cad. |
|---|---|---|---|---|---|
| SO0010010005BI1 | 5000 kg | 170 mm | 30 mm | 1 | **619,88** |
| SO0010010005BI2* | 5000 kg | 170 mm | 30 mm | 1 | **1.408,50** |
| SO0010010005BI3** | 5000 kg | 170 mm | 30 mm | 1 | **945,00** |

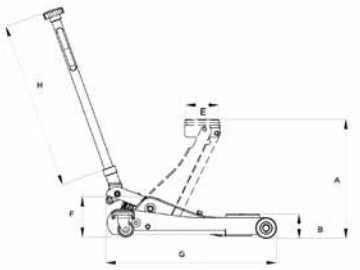
* Con pompa idropneumatica
** Con comando a distanza

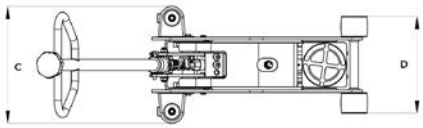
## Sollevatori idraulici a carrello, linea BEST



### Caratteristiche

- Design innovativo.
- Punti presa super ribassati.
- Manico ergonomico.
- Supporto piattello a base ampia.
- Piattello in gomma.
- 4 Ruote in nylon (due pivottanti).
- Comando di discesa manuale.





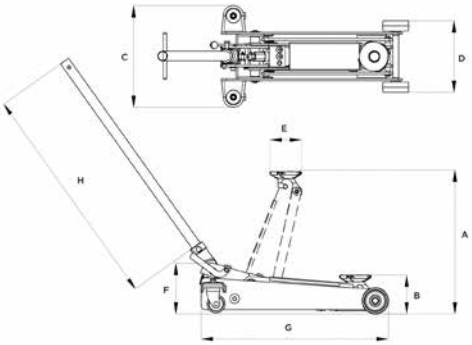
| Codice | Portata | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010003C01 | 3000 kg | 480 | 95 | 350 | 290 | 130 | 200 | 660 | 810 | 39 | 1 | **655,88** |

## Sollevatori idraulici a carrello, linea BASIC



### Caratteristiche

- Leva di comando.
- Piattello in ghisa.
- Comando di discesa a pedale.
- 4 Ruote (due pivottanti).



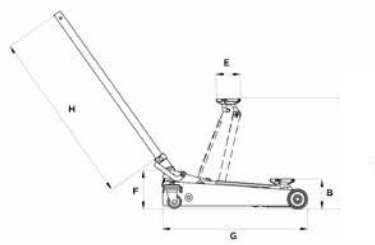
| Codice | Portata | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010001C02 | 1200 kg | 525 | 130 | 345 | 250 | 100 | 200 | 650 | 780 | 35 | 1 | **434,25** |
| SO0010010002C02 | 2000 kg | 520 | 130 | 325 | 270 | 130 | 175 | 1260 | 920 | 52 | 1 | **600,75** |

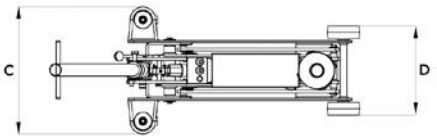
## Sollevatori idraulici a carrello, linea SPECIAL



### Caratteristiche

- Struttura in robusto acciaio di alta qualità.
- Comando di discesa a pedale.
- Supporto ricoperto in gomma.
- Valvola di massima per prevenire carichi superiori alla portata nominale.
- 4 Ruote in nylon (due pivottanti).
- Dotato di sicurezze meccaniche ad inserimento automatico.



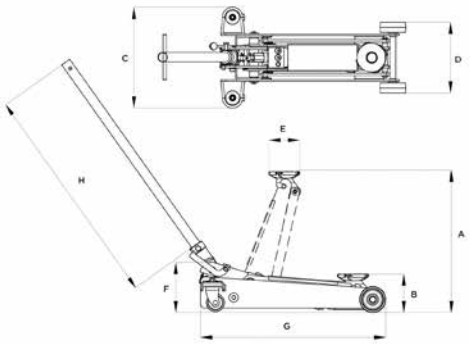

| Codice | Portata | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010002C03 | 3000 kg | 525 | 120 | 350 | 290 | 130 | 215 | 650 | 780 | 35 | 1 | **655,88** |

## Sollevatori idraulici a carrello linea SPECIAL-RED



### Caratteristiche

- Doppi rulli anteriori basculanti.
- Ruote posteriori pivottanti, in poliuretano.
- Comando di discesa a pedale.
- Particolarmente indicati per intervenire in fase di soccorsi stradali.




| Codice | Portata | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010002C05 | 2000 kg | 520 | 140 | 530 | 420 | 130 | 180 | 740 | 780 | 45 | 1 | **848,25** |
| SO0010010002C04 | 2000 kg | 760 | 130 | 530 | 480 | 130 | 200 | 1030 | 780 | 65 | 1 | **1.112,63** |

## Martinetti idraulici per carrozzeria

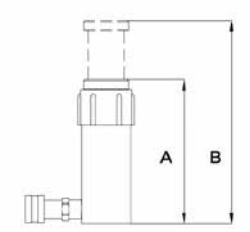




### Caratteristiche

Assortimento composto da:

- Pompa.
- Tubo in gomma 1,8 mt.
- Pistone.
- Tubo prolunga 100 mm.
- Tubo prolunga 200 mm.
- Tubo prolunga 300 mm.
- Tubo prolunga 400 mm.
- Tubo prolunga 500 mm.
- Raccordi per prolunghe.
- Tappi terminali.




| Codice | TON | A | B | | € / cad. |
|---|---|---|---|---|---|
| SO0010010002M01 | 20 | 310 mm | 440 mm | 1 | **1.357,88** |
| SO0010010003M02 | 30 | 310 mm | 440 mm | 1 | **1.600,88** |
| SO0010010005M03 | 50 | 330 mm | 465 mm | 1 | **2.300,63** |
| SO0010010008M04 | 80 | 330 mm | 470 mm | 1 | **2.981,25** |
| SO0010010001M05 | 120 | 320 mm | 460 mm | 1 | **4.217,63** |

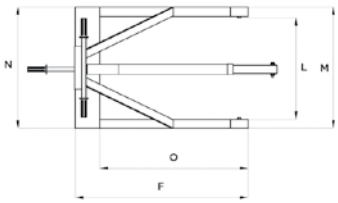
## Gru idrauliche a carrello

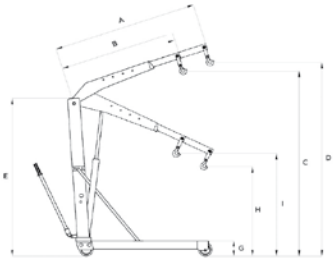




### Caratteristiche

- Stelo rettificato e cromato per un'alta affidabilità nel tempo.
- Braccio allungabile in quattro posizioni di lavoro.
- Ruote posteriori girevoli per la massima manovrabilità.
- Gancio girevole a 360°.
- Valvola di protezione contro i sovraccarichi incorporata.
- Comando di discesa a velocità controllata.
- Pompa idraulica a due velocità.
- Ruote in poliuretano.
- Compatibile Euro-Pallet.



| Codice | | | | |
|---|---|---|---|---|
| SO0010010001G01 | 1500 Kg | 1200 Kg | 800 Kg | 500 Kg |
| SO0010010002G02 | 2000 Kg | 1500 Kg | 1000 Kg | 600 Kg |
| SO0010010003G03 | 3000 Kg | 2400 Kg | 1850 Kg | 1300 Kg |
| SO0010010001G04 | 1500 Kg | 1200 Kg | 800 Kg | 500 Kg |
| SO0010010002G05 | 2000 Kg | 1500 Kg | 1000 Kg | 600 Kg |

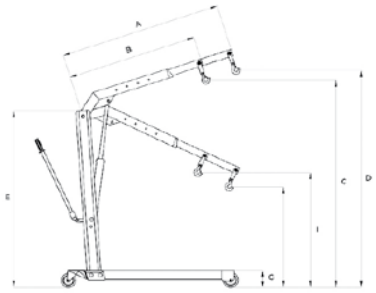
| Codice | Port. (kg) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | L (mm) | M (mm) | L (mm) | N (mm) | O (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010001G01 | 1500 | 1815 | 1370 | 2470 | 2750 | 1865 | 1690 | 195 | 310 | 630 | 830 | 1015 | 1000 | 1450 | 1450 | 190 | 1 | **1.842,75** |
| SO0010010001G04 | 1500 | 1815 | 1370 | 2680 | 3010 | 1935 | 1810 | 185 | 310 | 650 | 960 | 1145 | 1100 | 1640 | 1640 | 235 | 1 | **2.236,50** |
| SO0010010002G02 | 2000 | 1910 | 1460 | 2780 | 3110 | 1990 | 1910 | 215 | 315 | 645 | 940 | 1120 | 1400 | 1910 | 1910 | 480 | 1 | **2.206,13** |
| SO0010010002G05 | 2000 | 1910 | 1460 | 2900 | 3300 | 2055 | 1915 | 213 | 510 | 795 | 1150 | 1350 | 1140 | 1415 | 1415 | 250 | 1 | **2.709,00** |
| SO0010010003G03 | 3000 | 2280 | 1790 | 3300 | 3730 | 2150 | 2270 | 265 | 510 | 780 | 1170 | 1420 | 1340 | 1480 | 1480 | 315 | 1 | **4.141,13** |

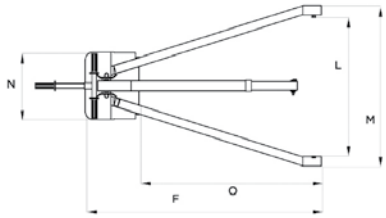
## Gru idrauliche a carrello pieghevoli



### Caratteristiche

- Pieghevoli in pochi secondi, ingombro irrisorio in fase di riposizione.
- Stelo rettificato e cromato per un'alta affidabilità nel tempo.
- Braccio allungabile in quattro posizioni di lavoro.
- Ruote posteriori girevoli per la massima manovrabilità.
- Gancio girevole a 360°.
- Valvola di protezione contro i sovraccarichi incorporata.
- Comando di discesa a velocità controllata.
- Pompa idraulica a due velocità.
- Ruote in gomma e nylon (modello portata 1.000 Kg.).
- Ruote in gomma (modello portata 500 Kg.).





| Codice | | | | |
|---|---|---|---|---|
| SO0010010005G06 | 500 Kg | 400 Kg | 250 Kg | 150 Kg |
| SO0010010001G07 | 1000 Kg | 800 Kg | 500 Kg | 300 Kg |

| Codice | Port. (kg) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | L (mm) | M (mm) | N (mm) | O (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010005G06 | 500 | 1300 | 1000 | 2130 | 2360 | 1570 | 1540 | 150 | 400 | 600 | 780 | 900 | 400 | 1160 | 80 | 1 | **900,00** |
| SO0010010001G07 | 1000 | 1470 | 1170 | 2180 | 2320 | 1700 | 1740 | 180 | 550 | 725 | 840 | 980 | 450 | 1325 | 122 | 1 | **1.266,75** |

## Curvatubi idraulici



### Caratteristiche

- Piastra superiore scorrevole.
- Piastra inferiore a lettura costante.
- Curvature a freddo senza riempimento tubi gas e acqua, senza saldatura, UNI EN10255 (BS1387 - UNI3824).

| Codice | Matrici | | € / cad. |
|---|---|---|---|
| SO0010010032CI1 | 3/8" - 1/2" - 3/4" - 1" - 1"1/4 - 1"1/2 - 2" | 1 | **1.307,25** |
| SO0010010033CI2 | 3/8" - 1/2" - 3/4" - 1" - 1"1/4 - 1"1/2 - 2" - 2"1/2 - 3" | 1 | **2.091,38** |

## Curvatubi elettroidraulici



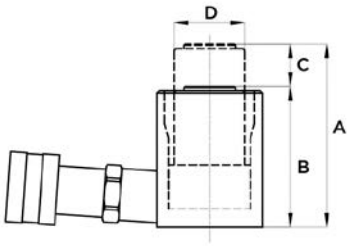
### Caratteristiche

- Silenziosa centralina elettroidraulica comandata a distanza da un distributore a due vie.
- Centralina a pistoni radianti con valvola di massima per lo scarico automatico dell'olio, al raggiungimento del massimo sforzo, ma mantenimento della pressione di esercizio inalterata. Solido banco da lavoro a due piani, in dotazione. Sul piano inferiore viene collocata la centralina idraulica, su quello superiore la macchina curvatubi.
- Possibilità di impiego anche con funzionamento manuale.
- Per piegatura tubi gas e acqua, senza saldatura, UNI EN10255 (BS1387 - UNI3824).

| Codice | Matrici | | € / cad. |
|---|---|---|---|
| SO0010010032CE1 | 3/8" - 1/2" - 3/4" - 1" - 1"1/4 - 1"1/2 - 2" | 1 | **4.550,63** |
| SO0010010033CE2 | 3/8" - 1/2" - 3/4" - 1" - 1"1/4 - 1"1/2 - 2"- 2"1/2 - 3" | 1 | **5.621,63** |

## Cilindri idraulici a semplice effetto, linea Ingombro Ridotto

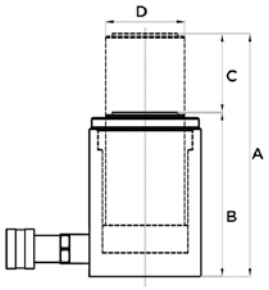





| Codice | TON | Ritorno | Press. (bar) | Capacità olio ($cm^3$) | A | B | C | D | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001005SG01 | 5 | a gravità | 520 | 15,3 | 76 mm | 60 mm | 16 mm | 30 mm | 0,6 kg | 1 | **186,75** |
| SO001001005SG02 | 5 | a gravità | 520 | 33,6 | 115 mm | 80 mm | 35 mm | 30 mm | 0,8 kg | 1 | **202,50** |
| SO001001005SM01 | 5 | a molla | 520 | 15,3 | 76 mm | 60 mm | 16 mm | 30 mm | 0,6 kg | 1 | **223,88** |
| SO001001005SM02 | 5 | a molla | 520 | 33,6 | 115 mm | 80 mm | 35 mm | 30 mm | 0,8 kg | 1 | **244,13** |
| SO001001001SG01 | 10 | a gravità | 640 | 25,4 | 76 mm | 60 mm | 16 mm | 40 mm | 0,9 kg | 1 | **241,88** |
| SO001001001SG02 | 10 | a gravità | 640 | 55,6 | 115 mm | 80 mm | 35 mm | 40 mm | 1,2 kg | 1 | **253,13** |
| SO001001001SM01 | 10 | a molla | 640 | 25,4 | 76 mm | 60 mm | 16 mm | 40 mm | 0,9 kg | 1 | **289,13** |
| SO001001001SM02 | 10 | a molla | 640 | 55,6 | 115 mm | 80 mm | 35 mm | 40 mm | 1,2 kg | 1 | **304,88** |
| SO001001002SG01 | 20 | a gravità | 640 | 26,4 | 78 mm | 70 mm | 8 mm | 60 mm | 2,7 kg | 1 | **425,25** |
| SO001001002SG02 | 20 | a gravità | 640 | 66,2 | 105 mm | 85 mm | 20 mm | 60 mm | 3,3 kg | 1 | **444,38** |
| SO001001002SM01 | 20 | a molla | 640 | 26,4 | 78 mm | 70 mm | 8 mm | 60 mm | 2,7 kg | 1 | **510,75** |
| SO001001002SM02 | 20 | a molla | 640 | 66,2 | 105 mm | 85 mm | 20 mm | 60 mm | 3,3 kg | 1 | **533,25** |
| SO001001003SG01 | 30 | a gravità | 640 | 40,1 | 78 mm | 70 mm | 8 mm | 75 mm | 3,8 kg | 1 | **519,75** |
| SO001001003SG02 | 30 | a gravità | 640 | 100,4 | 105 mm | 85 mm | 20 mm | 75 mm | 4,5 kg | 1 | **532,13** |
| SO001001003SM01 | 30 | a molla | 640 | 40,1 | 78 mm | 70 mm | 8 mm | 75 mm | 3,8 kg | 1 | **625,50** |
| SO001001003SM02 | 30 | a molla | 640 | 100,4 | 105 mm | 85 mm | 20 mm | 75 mm | 4,5 kg | 1 | **639,00** |
| SO001001050SG01 | 50 | a gravità | 640 | 39,2 | 75 mm | 70 mm | 5 mm | 90 mm | 6 kg | 1 | **690,75** |
| SO001001050SG02 | 50 | a gravità | 640 | 117,7 | 100 mm | 85 mm | 15 mm | 90 mm | 7,1 kg | 1 | **702,00** |
| SO001001050SM01 | 50 | a molla | 640 | 39,2 | 75 mm | 70 mm | 5 mm | 90 mm | 6 kg | 1 | **830,25** |
| SO001001050SM02 | 50 | a molla | 640 | 117,7 | 100 mm | 85 mm | 15 mm | 90 mm | 7,1 kg | 1 | **843,75** |

## Cilindri idraulici a semplice effetto, linea Impieghi Generici

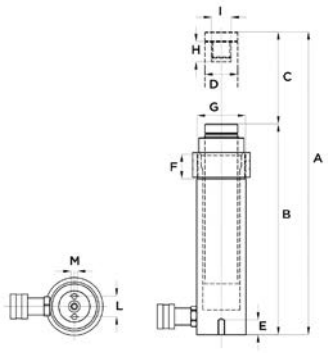





| Codice | TON | Ritorno | Press. (bar) | Cap. olio ($cm^3$) | A (mm) | B (mm) | C (mm) | D (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0010010005SG03 | 5 | a gravità | 520 | 52,8 | 155 | 100 | 55 | 30 | 1 | 1 | **210,38** |
| SO0010010005SG04 | 5 | a gravità | 520 | 72,0 | 195 | 120 | 75 | 30 | 1,2 | 1 | **222,75** |
| SO0010010005SG05 | 5 | a gravità | 520 | 100,8 | 255 | 150 | 105 | 30 | 1,5 | 1 | **236,25** |
| SO0010010005SM03 | 5 | a molla | 520 | 52,8 | 155 | 100 | 55 | 30 | 1 | 1 | **252,00** |
| SO0010010005SM04 | 5 | a molla | 520 | 72,0 | 195 | 120 | 75 | 30 | 1,2 | 1 | **267,75** |
| SO0010010005SM05 | 5 | a molla | 520 | 100,8 | 255 | 150 | 105 | 30 | 1,5 | 1 | **282,38** |
| SO0010010010SG03 | 10 | a gravità | 640 | 87,4 | 155 | 100 | 55 | 40 | 1,6 | 1 | **259,88** |
| SO0010010010SG04 | 10 | a gravità | 640 | 119,2 | 195 | 120 | 75 | 40 | 1,9 | 1 | **273,38** |
| SO0010010010SG05 | 10 | a gravità | 640 | 167,0 | 255 | 150 | 105 | 40 | 2,4 | 1 | **279,00** |
| SO0010010010SM03 | 10 | a molla | 640 | 87,4 | 155 | 100 | 55 | 40 | 1,6 | 1 | **313,88** |
| SO0010010010SM04 | 10 | a molla | 640 | 119,2 | 195 | 120 | 75 | 40 | 1,9 | 1 | **328,50** |
| SO0010010010SM05 | 10 | a molla | 640 | 167,0 | 255 | 150 | 105 | 40 | 2,4 | 1 | **335,25** |
| SO0010010020SG03 | 20 | a gravità | 640 | 132,4 | 145 | 105 | 40 | 60 | 4,1 | 1 | **455,63** |
| SO0010010020SG04 | 20 | a gravità | 640 | 198,6 | 185 | 125 | 60 | 60 | 4,9 | 1 | **475,88** |
| SO0010010020SG05 | 20 | a gravità | 640 | 331,0 | 265 | 165 | 100 | 60 | 6,5 | 1 | **500,63** |
| SO0010010020SM03 | 20 | a molla | 640 | 132,4 | 145 | 105 | 40 | 60 | 4,1 | 1 | **547,88** |
| SO0010010020SM04 | 20 | a molla | 640 | 198,6 | 185 | 125 | 60 | 60 | 4,9 | 1 | **570,38** |
| SO0010010020SM05 | 20 | a molla | 640 | 331,0 | 265 | 165 | 100 | 60 | 6,5 | 1 | **600,75** |
| SO0010010030SG03 | 30 | a gravità | 640 | 200,8 | 145 | 105 | 40 | 75 | 5,6 | 1 | **545,63** |
| SO0010010030SG04 | 30 | a gravità | 640 | 301,2 | 185 | 125 | 60 | 75 | 6,8 | 1 | **558,00** |
| SO0010010030SG05 | 30 | a gravità | 640 | 502,0 | 265 | 165 | 100 | 75 | 9,2 | 1 | **576,00** |
| SO0010010030SM03 | 30 | a molla | 640 | 200,8 | 145 | 105 | 40 | 75 | 5,6 | 1 | **654,75** |
| SO0010010030SM04 | 30 | a molla | 640 | 301,2 | 185 | 125 | 60 | 75 | 6,8 | 1 | **669,38** |
| SO0010010030SM05 | 30 | a molla | 640 | 502,0 | 265 | 165 | 100 | 75 | 9,2 | 1 | **691,88** |
| SO0010010050SG03 | 50 | a gravità | 640 | 274,7 | 140 | 105 | 35 | 90 | 9,2 | 1 | **734,63** |
| SO0010010050SG04 | 50 | a gravità | 640 | 431,7 | 180 | 125 | 55 | 90 | 11 | 1 | **748,13** |
| SO0010010050SG05 | 50 | a gravità | 640 | 745,7 | 260 | 165 | 95 | 90 | 15,2 | 1 | **772,88** |
| SO0010010050SM03 | 50 | a molla | 640 | 274,7 | 140 | 105 | 35 | 90 | 9,2 | 1 | **882,00** |
| SO0010010050SM04 | 50 | a molla | 640 | 431,7 | 180 | 125 | 55 | 90 | 11 | 1 | **896,63** |
| SO0010010050SM05 | 50 | a molla | 640 | 745,7 | 260 | 165 | 95 | 90 | 15,2 | 1 | **928,13** |

## Cilindri idraulici a semplice effetto, linea Corsa Lunga, ritorno a molla

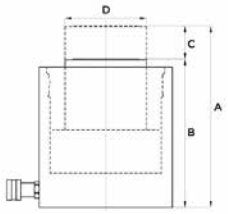





| Codice | TON | Press. (bar) | Cap. olio ($cm^3$) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G | H (mm) | I | L (mm) | M | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001005SM06 | 5 | 520 | 120 | 370 | 245 | 125 | 30 | 20 | 25 | M44x2 | 12 | M16x2 | 32 | M8 | 2,5 | 1 | **385,88** |
| SO001001005SM07 | 5 | 520 | 144 | 420 | 270 | 150 | 30 | 20 | 25 | M44x2 | 12 | M16x2 | 32 | M8 | 2,7 | 1 | **462,38** |
| SO001001005SM08 | 5 | 520 | 192 | 520 | 320 | 200 | 30 | 20 | 25 | M44x2 | 12 | M16x2 | 32 | M8 | 2,9 | 1 | **554,63** |
| SO001001005SM09 | 5 | 520 | 240 | 620 | 370 | 250 | 30 | 20 | 25 | M44x2 | 12 | M16x2 | 32 | M8 | 3,5 | 1 | **664,88** |
| SO001001001SM06 | 10 | 640 | 222 | 405 | 265 | 140 | 40 | 20 | 30 | M59x2 | 25 | M24x3 | 45 | M8 | 5,2 | 1 | **455,63** |
| SO001001001SM07 | 10 | 640 | 333 | 545 | 335 | 210 | 40 | 20 | 30 | M59x2 | 25 | M24x3 | 45 | M8 | 6,4 | 1 | **546,75** |
| SO001001001SM08 | 10 | 640 | 445 | 685 | 405 | 280 | 40 | 20 | 30 | M59x2 | 25 | M24x3 | 45 | M8 | 7,6 | 1 | **657,00** |
| SO001001001SM09 | 10 | 640 | 556 | 825 | 475 | 350 | 40 | 20 | 30 | M59x2 | 25 | M24x3 | 45 | M8 | 8,8 | 1 | **787,50** |
| SO001001002SM06 | 20 | 640 | 529 | 450 | 290 | 160 | 60 | 20 | 30 | M84x2 | 30 | M30x3,5 | 50 | M10 | 11,1 | 1 | **821,25** |
| SO001001002SM07 | 20 | 640 | 728,2 | 570 | 350 | 220 | 60 | 20 | 30 | M84x2 | 30 | M30x3,5 | 50 | M10 | 13,2 | 1 | **983,25** |
| SO001001002SM08 | 20 | 640 | 993 | 730 | 430 | 300 | 60 | 20 | 30 | M84x2 | 30 | M30x3,5 | 50 | M10 | 16,1 | 1 | **1.180,13** |
| SO001001002SM09 | 20 | 640 | 1158,5 | 830 | 480 | 350 | 60 | 20 | 30 | M84x2 | 30 | M30x3,5 | 50 | M10 | 18 | 1 | **1.417,50** |
| SO001001003SM06 | 30 | 640 | 702 | 420 | 275 | 140 | 75 | 20 | 30 | M104x2 | 25 | M35x4 | 65 | M10 | 16,8 | 1 | **956,25** |
| SO001001003SM07 | 30 | 640 | 1005 | 540 | 335 | 200 | 75 | 20 | 30 | M104x2 | 25 | M35x4 | 65 | M10 | 20,2 | 1 | **1.148,63** |
| SO001001003SM08 | 30 | 640 | 1305 | 660 | 395 | 260 | 75 | 20 | 30 | M104x2 | 25 | M35x4 | 65 | M10 | 23,5 | 1 | **1.379,25** |
| SO001001003SM09 | 30 | 640 | 1606 | 780 | 455 | 320 | 75 | 20 | 30 | M104x2 | 25 | M35x4 | 65 | M10 | 26,5 | 1 | **1.654,88** |
| SO001001050SM06 | 50 | 640 | 1177 | 445 | 295 | 150 | 90 | 20 | 30 | M128x1,5 | 30 | M55x3 | 77 | M10 | 25 | 1 | **1.283,63** |
| SO001001050SM07 | 50 | 640 | 1570 | 545 | 345 | 200 | 90 | 20 | 30 | M128x1,5 | 30 | M55x3 | 77 | M10 | 28,9 | 1 | **1.539,00** |
| SO001001050SM08 | 50 | 640 | 1962 | 645 | 395 | 250 | 90 | 20 | 30 | M128x1,5 | 30 | M55x3 | 77 | M10 | 32,6 | 1 | **1.847,25** |
| SO001001050SM09 | 50 | 640 | 2355 | 745 | 445 | 300 | 90 | 20 | 30 | M128x1,5 | 30 | M55x3 | 77 | M10 | 37,2 | 1 | **2.217,38** |

## Cilindri idraulici a semplice effetto, linea Alta Potenza, ritorno a molla

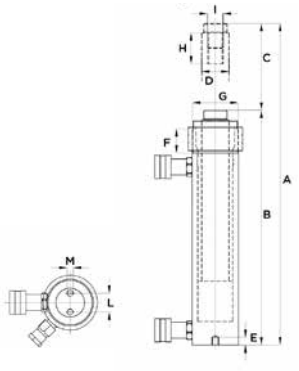





| Codice | TON | Press. (bar) | Capacità olio (cm³) | A (mm) | B (mm) | C (mm) | D (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO001001085SM01 | 85 | 520 | 794 | 245 | 200 | 45 | 110 | 32,5 | 1 | **1.561,50** |
| SO001001085SM02 | 85 | 520 | 1677 | 345 | 250 | 95 | 110 | 38,6 | 1 | **1.712,25** |
| SO001001085SM03 | 85 | 520 | 3090 | 505 | 330 | 175 | 110 | 48,5 | 1 | **1.897,88** |
| SO001001012SM01 | 125 | 520 | 1144 | 265 | 220 | 45 | 140 | 48,5 | 1 | **2.272,50** |
| SO001001012SM02 | 125 | 520 | 2416 | 365 | 270 | 95 | 140 | 59,5 | 1 | **2.506,50** |
| SO001001012SM03 | 125 | 520 | 4450 | 525 | 350 | 175 | 140 | 77 | 1 | **2.802,38** |
| SO001001019SM01 | 190 | 520 | 1709 | 295 | 250 | 45 | 170 | 91,5 | 1 | **3.863,25** |
| SO001001019SM02 | 190 | 520 | 3609 | 395 | 300 | 95 | 170 | 110 | 1 | **4.243,50** |
| SO001001019SM03 | 190 | 520 | 6648 | 555 | 380 | 175 | 170 | 140 | 1 | **4.748,63** |
| SO001001024SM01 | 245 | 520 | 2207 | 305 | 260 | 45 | 210 | 121 | 1 | **5.760,00** |
| SO001001024SM02 | 245 | 520 | 6623 | 485 | 350 | 135 | 210 | 163 | 1 | **6.519,38** |

## Cilindri idraulici a doppio effetto

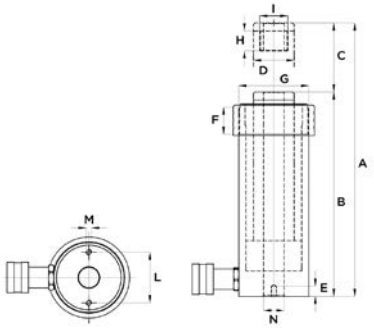





| Codice | ▲ TON | ▼ TON | Press. (bar) | Cap. olio (cm³) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G | H (mm) | I | L (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001004DE01 | 11 | 4 | 700 | 255,3 | 445 | 285 | 160 | 35 | 10 | 25 | M59x2 | 45 | M20x2,5 | 23 | 5,5 | 1 | **987,75** |
| SO001001004DE02 | 11 | 4 | 700 | 516 | 800 | 470 | 330 | 35 | 10 | 25 | M59x2 | 45 | M20x2,5 | 23 | 8,7 | 1 | **1.308,38** |
| SO001001001DE01 | 35 | 15 | 700 | 955 | 540 | 350 | 190 | 60 | 14 | 35 | M104x2 | 45 | M20x2,5 | 60 | 17,5 | 1 | **1.813,50** |
| SO001001001DE02 | 35 | 15 | 700 | 1.582 | 785 | 470 | 315 | 60 | 14 | 35 | M104x2 | 45 | M20x2,5 | 60 | 23,5 | 1 | **2.116,13** |
| SO001001002DE01 | 55 | 24 | 700 | 1.216 | 470 | 320 | 150 | 75 | 20 | 30 | M128x1,5 | 50 | M30x3,5 | 65 | 28,2 | 1 | **2.634,75** |
| SO001001002DE02 | 55 | 24 | 700 | 2.001 | 670 | 420 | 250 | 75 | 20 | 30 | M128x1,5 | 50 | M30x3,5 | 65 | 36 | 1 | **3.037,50** |

## Cilindri idraulici con pistone forato, linea Semplice Effetto, ritorno a molla

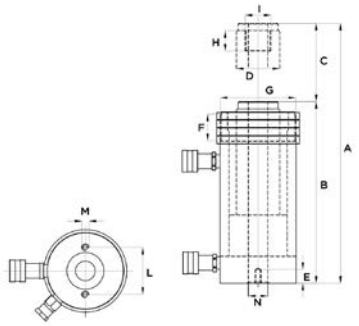





| Codice | TON | Press. (bar) | Cap. olio ($cm^3$) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G | H (mm) | I | L (mm) | M | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001CP01 | 12 | 640 | 111 | 265 | 200 | 65 | 40 | 10 | 25 | M69x2 | 20 | M28x1,5 | 50 | M5 | 4 | 1 | **759,38** |
| SO001001001CP02 | 12 | 640 | 15 | 118 | 110 | 8 | 40 | 10 | 25 | M69x2 | 20 | M28x1,5 | 50 | M5 | 2,5 | 1 | **696,38** |
| SO001001002CP01 | 24 | 640 | 471 | 445 | 320 | 125 | 60 | 10 | 35 | M104x2 | 25 | M44x2 | 67 | M6 | 14 | 1 | **1.172,25** |
| SO001001002CP02 | 24 | 640 | 70 | 193 | 175 | 18 | 60 | 10 | 35 | M104x2 | 25 | M44x2 | 67 | M6 | 8,5 | 1 | **1.076,63** |
| SO001001003CP01 | 37 | 640 | 150 | 230 | 195 | 35 | 75 | 20 | 30 | M128x1,5 | 20 | M55x2 | 88 | M10 | 16 | 1 | **1.549,13** |
| SO001001003CP02 | 37 | 640 | 760 | 535 | 385 | 150 | 75 | 20 | 30 | M128x1,5 | 20 | M55x2 | 88 | M10 | 25 | 1 | **1.813,50** |

## Cilindri idraulici con pistone forato, linea Doppio Effetto

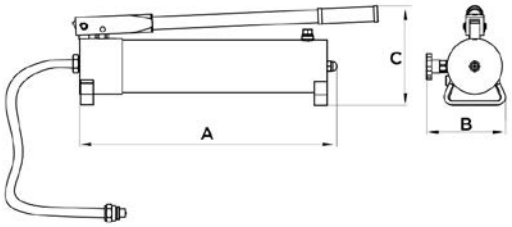





| Codice | ▲TON | ▼TON | Press. (bar) | Cap. olio ($cm^3$) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G | H (mm) | I | L (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO001001001CP03 | 24 | 14 | 640 | 301,4 | 330 | 250 | 80 | 60 | 10 | 35 | M104x2 | 25 | M44x2 | 67 | 14 | 1 | **1.235,25** |
| SO001001001CP04 | 24 | 14 | 640 | 753,6 | 570 | 370 | 200 | 60 | 10 | 35 | M104x2 | 25 | M44x2 | 67 | 24 | 1 | **1.341,00** |
| SO001001002CP03 | 37 | 22 | 640 | 471,2 | 335 | 255 | 80 | 75 | 18 | 30 | M128x1,5 | 20 | M55x2 | 88 | 22 | 1 | **1.771,88** |
| SO001001002CP04 | 37 | 22 | 640 | 1.472,3 | 675 | 425 | 250 | 75 | 18 | 30 | M128x1,5 | 20 | M55x2 | 88 | 34 | 1 | **2.071,13** |
| SO001001002CP05 | 48 | 22 | 640 | 671,4 | 360 | 270 | 90 | 90 | 20 | 30 | M160x3,5 | 25 | M76x3 | 98 | 37 | 1 | **2.075,63** |
| SO001001002CP06 | 48 | 22 | 640 | 1.790,4 | 660 | 420 | 240 | 90 | 20 | 30 | M160x3,5 | 25 | M76x3 | 98 | 45 | 1 | **2.422,13** |

## Pompe manuali con tubo flessibile e giunto rapido





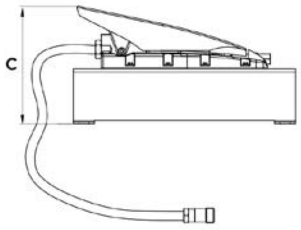

| Codice | Pompa | Pressione (bar) | Portata olio ($cm^3$) | Capacità serbatoio ($cm^3$) | A (mm) | B (mm) | C (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO001001051PM01 | 1 velocità | 520 | 0 - 2,26 | 650 | 330 | 140 | 160 | 6,5 | 1 | **388,13** |
| SO001001061PM02 | 1 velocità | 640 | 0 - 2,26 | 650 | 330 | 140 | 160 | 6,5 | 1 | **412,88** |
| SO001001061PM01 | 1 velocità | 640 | 0 - 2,26 | 1100 | 510 | 165 | 160 | 9,2 | 1 | **373,50** |
| SO001001061PM04 | 1 velocità | 640 | 0 - 2,26 | 1000 | 530 | 100 | 150 | 10 | 1 | **1.038,38** |
| SO001001061PM03 | 1 velocità | 640 | 0 - 3,5 | 2400 | 500 | 165 | 195 | 13,5 | 1 | **716,63** |
| SO001001071PM02 | 1 velocità | 700 | 0 - 2,26 | 1000 | 530 | 100 | 150 | 10 | 1 | **1.038,38** |
| SO001001071PM01 | 1 velocità | 700 | 0 - 2,26 | 1100 | 510 | 165 | 160 | 9,2 | 1 | **373,50** |
| SO001001072PM01 | 2 velocità | 700 | 14,13 - 3,07 | 2400 | 560 | 120 | 220 | 21,5 | 1 | **1.946,25** |
| SO001001052PM01 | 2 velocità | 520 | 26,3 - 3,07 | 4000 | 520 | 200 | 250 | 24,5 | 1 | **1.308,38** |
| SO001001062PM02 | 2 velocità | 520 | 30,3 - 3,07 | 7500 | 565 | 230 | 300 | 40 | 1 | **2.193,75** |
| SO001001062PM01 | 2 velocità | 640 | 14,13 - 3,07 | 2400 | 510 | 160 | 200 | 18 | 1 | **880,88** |
| SO001001062PM03 | 2 velocità | 640 | 14,13 - 3,07 | 2400 | 560 | 120 | 220 | 21,5 | 1 | **1.946,25** |

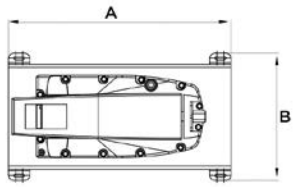
## Pompe idropneumatiche con tubo flessibile e giunto rapido







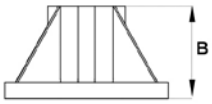


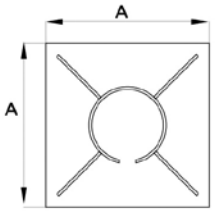




| Codice | Pressione (bar) | Portata (l/min) | Capacità olio ($cm^3$) | A | B | C | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO001001005PI03 | 520 | 0,7 | 1100 | 295 mm | 110 mm | 170 mm | 6,3 kg | 1 | **823,50** |
| SO001001005PI01 | 520 | 1,4 | 4500 | 420 mm | 240 mm | 220 mm | 14 kg | 1 | **1.010,25** |
| SO001001005PI02 | 520 | 1,4 | 8000 | 420 mm | 240 mm | 220 mm | 19 kg | 1 | **1.211,63** |
| SO001001006PI01 | 640 | 0,7 | 1100 | 295 mm | 110 mm | 170 mm | 6,3 kg | 1 | **823,50** |
| SO001001006PI02 | 640 | 1,1 | 5000 | 420 mm | 240 mm | 245 mm | 15,5 kg | 1 | **1.748,25** |
| SO001001007PI01 | 700 | 0,7 | 1100 | 295 mm | 110 mm | 170 mm | 6,3 kg | 1 | **823,50** |
| SO001001007PI02 | 700 | 1,1 | 5000 | 420 mm | 240 mm | 245 mm | 15,5 kg | 1 | **1.748,25** |

## Piastre di base per cilindri idraulici






| Codice | Cilindri compatibili | A | B | | € / cad. |
|---|---|---|---|---|---|
| SO001001005PB01 | SO001001005SG05 / …SM05 / …SM06 / …SM07 / …SM08 / …SM09 | 220 mm | 155 mm | 1 | **136,13** |
| SO001001006PB01 | SO001001001SG05 / …SM05 / …SM06 / …SM07 / …SM08 /…SM09 | 220 mm | 155 mm | 1 | **153,00** |
| SO001001006PB02 | SO001001002SG05 / …SM05 / …SM06 / …SM07 / …SM08 /…SM09 | 220 mm | 155 mm | 1 | **169,88** |
| SO001001006PB03 | SO001001003SG05 / …SM05 / …SM06 / …SM07 / …SM08 /…SM09 | 300 mm | 170 mm | 1 | **222,75** |
| SO001001006PB04 | SO001001050SG05 / …SM05 / …SM06 / …SM07 / …SM08 /…SM09 | 300 mm | 170 mm | 1 | **257,63** |

## Manometri in glicerina per cilindri idraulici



| Codice | Scala (bar) | Ø | | € / cad. |
|---|---|---|---|---|
| SO0010010001M01 | 0 - 1000 | 63 mm | 1 | **112,50** |
| SO0010010001M02 | 0 - 1000 | 100 mm | 1 | **164,25** |

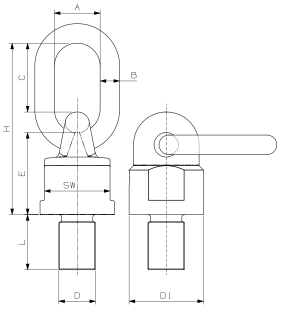
## Golfare girevole con anello, orientabile sotto carico, certificato CE



### Caratteristiche

Per il sollevamento di carichi da assemblare al carico stesso mediante idoneo foro filettato generalmente utilizzato per girare o ribaltare carichi pesanti.

- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 – EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Testato 100 % magnaflux
- Orientabile a 360° con anello ribaltabile a 180° autoallineante
- Testato a 20.000 cicli di fatica
- Assemblato con sfere per facilitare l'orientamento del carico
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%




| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | E (mm) | H (mm) | SW (mm) | D1 (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020010031018 | 0,3 | M10x18 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,48 | 1 | **66,83** |
| SO0020010051218 | 0,5 | M12x18 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,5 | 1 | **63,47** |
| SO0020010051225 | 0,5 | M12x25 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,5 | 1 | **66,83** |
| SO0020010001620 | 1,12 | M16x20 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 | 1 | **66,41** |
| SO0020010001630 | 1,12 | M16x30 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 | 1 | **69,71** |
| SO0020010002030 | 1,12 | M20x30 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 | 1 | **69,71** |

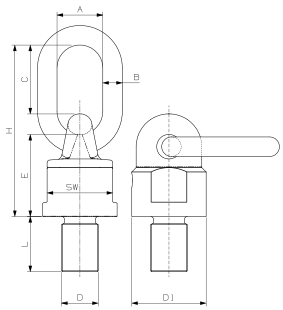
## Golfare girevole con anello, orientabile sotto carico, certificato CE



### Caratteristiche

Per il sollevamento di carichi da assemblare al carico stesso mediante idoneo foro filettato generalmente utilizzato per girare o ribaltare carichi pesanti.

- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 – EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Testato 100 % magnaflux
- Orientabile a 360° con anello ribaltabile a 180° autoallineante
- Testato a 20.000 cicli di fatica
- Assemblato con sfere per facilitare l'orientamento del carico
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%




| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | E (mm) | H (mm) | SW (mm) | D1 (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020010012030 | 2 | M20x30 | 34 | 16 | 57 | 61 | 131 | 40 | 50 | 1,05 | 1 | **76,86** |
| SO0020010002040 | 2 | M20x40 | 40 | 16 | 57 | 61 | 131 | 40 | 50 | 1,05 | 1 | **83,48** |
| SO0020010002430 | 3,15 | M24x30 | 40 | 18 | 70 | 68 | 153 | 48 | 58 | 1,63 | 1 | **103,97** |
| SO0020010003035 | 5,3 | M30x35 | 45 | 22 | 65 | 80 | 165 | 65 | 75 | 2,23 | 1 | **133,59** |
| SO0020010003654 | 8 | M36x54 | 50 | 22 | 65 | 95 | 205 | 75 | 85 | 5,5 | 1 | **188,46** |
| SO0020010003650 | 10 | M36x50 | 50 | 23 | 65 | 95 | 205 | 75 | 85 | 5,5 | 1 | **227,82** |
| SO0020010004263 | 10 | M42x63 | 50 | 23 | 95 | 95 | 205 | 75 | 85 | 10 | 1 | **194,63** |
| SO0020010004860 | 15 | M48x60 | 70 | 32 | 120 | 130 | 280 | 95 | 120 | 10 | 1 | **554,68** |
| SO0020010005678 | 15 | M56x78 | 70 | 32 | 120 | 130 | 280 | 95 | 120 | 10 | 1 | **504,90** |

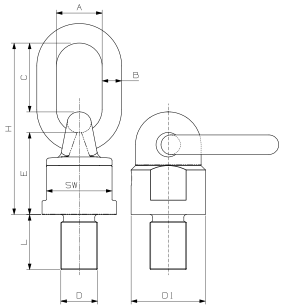
## Golfare girevole con anello, orientabile sotto carico, certificato CE



### Caratteristiche

Per il sollevamento di carichi da assemblare al carico stesso mediante idoneo foro filettato generalmente utilizzato per girare o ribaltare carichi pesanti.

- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 – EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Testato 100 % magnaflux
- Orientabile a 360° con anello ribaltabile a 180° autoallineante
- Testato a 20.000 cicli di fatica
- Assemblato con sfere per facilitare l'orientamento del carico
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%



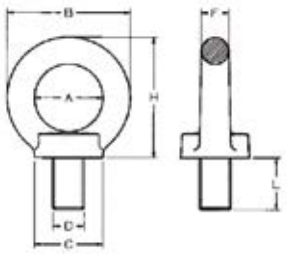

| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | E (mm) | H (mm) | SW (mm) | D1 (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020020051018 | 0,5 | M10x18 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,48 | 1 | **78,82** |
| SO0020020041620 | 1,4 | M16x20 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 | 1 | **84,10** |
| SO0020020072030 | 1,7 | M20x30 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 | 1 | **93,04** |
| SO0020020002430 | 4 | M24x30 | 40 | 18 | 70 | 68 | 153 | 48 | 58 | 1,63 | 1 | **129,17** |
| SO0020020073035 | 6,7 | M30x35 | 45 | 22 | 65 | 71 | 156 | 70 | 80 | 2,85 | 1 | **165,98** |
| SO0020020003045 | 8 | M30x45 | 50 | 23 | 91 | 86 | 200 | 80 | 90 | 4,4 | 1 | **193,12** |
| SO0020020054263 | 12,5 | M42x63 | 50 | 23 | 91 | 86 | 200 | 80 | 90 | 5,2 | 1 | **241,78** |

## Golfare orientabile con vite 8.8, certificato CE



### Caratteristiche

- Con vite da 8,8 mm
- Coefficiente di sicurezza 4
- Da avvitare con chiave



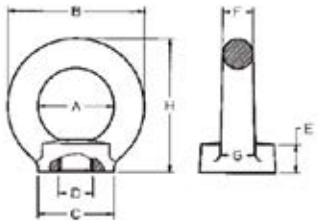

| Codice | Misura DxL | A | B | C | F | H | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO0020030000108 | M8x15 | 25 mm | 45 mm | 25 mm | 10 mm | 45 mm | 0,09 kg | 1 | **14,58** |
| SO0020030000110 | M10x16 | 25 mm | 45 mm | 25 mm | 10 mm | 45 mm | 0,11 kg | 1 | **17,31** |
| SO0020030000112 | M12x22 | 35 mm | 63 mm | 35 mm | 14 mm | 62 mm | 0,27 kg | 1 | **19,80** |
| SO0020030000116 | M16x29 | 35 mm | 63 mm | 35 mm | 14 mm | 62 mm | 0,31 kg | 1 | **21,08** |
| SO0020030000120 | M20x32 | 50 mm | 90 mm | 50 mm | 20 mm | 90 mm | 0,86 kg | 1 | **38,62** |
| SO0020030000124 | M24x40 | 50 mm | 90 mm | 50 mm | 20 mm | 90 mm | 0,9 kg | 1 | **41,77** |

## Golfare femmina per vite 8.8, certificato CE



### Caratteristiche

- Per vite da 8,8 mm
- Coefficiente di sicurezza 4
- Da avvitare con chiave



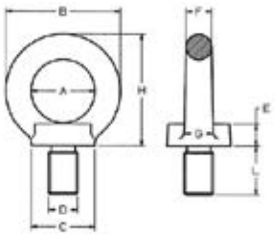

| Codice | Misura | A | B | C | E | F | H | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO0020040000208 | M8 | 25 mm | 45 mm | 25 mm | 10 mm | 10 mm | 45 mm | 0,1 kg | 1 | **9,11** |
| SO0020040000210 | M10 | 25 mm | 45 mm | 25 mm | 10 mm | 10 mm | 45 mm | 0,1 kg | 1 | **10,69** |
| SO0020040000212 | M12 | 35 mm | 63 mm | 35 mm | 14 mm | 14 mm | 62 mm | 0,26 kg | 1 | **11,93** |
| SO0020040000214 | M14 | 35 mm | 63 mm | 35 mm | 14 mm | 14 mm | 62 mm | 0,26 kg | 1 | **11,82** |
| SO0020040000216 | M16 | 35 mm | 63 mm | 35 mm | 14 mm | 14 mm | 62 mm | 0,26 kg | 1 | **12,05** |
| SO0020040000220 | M20 | 50 mm | 90 mm | 50 mm | 20 mm | 20 mm | 90 mm | 0,75 kg | 1 | **25,71** |
| SO0020040000224 | M24 | 50 mm | 90 mm | 50 mm | 20 mm | 20 mm | 90 mm | 0,75 kg | 1 | **28,59** |

## Golfare maschio con vite 8.8, certificato CE



### Caratteristiche

- Con vite da 8,8 mm
- Coefficiente di sicurezza 4
- Da avvitare con chiave



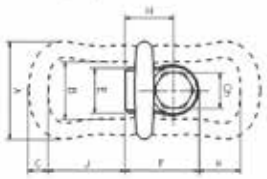

| Codice | Misura DxL | A | B | C | E | F | H | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO0020050000306 | M6x13 | 25 mm | 45 mm | 25 mm | 10 mm | 10 mm | 45 mm | 0,09 kg | 1 | **8,61** |
| SO0020050000308 | M8x13 | 25 mm | 45 mm | 25 mm | 10 mm | 10 mm | 45 mm | 0,09 kg | 1 | **10,03** |
| SO0020050000310 | M10x17 | 25 mm | 45 mm | 25 mm | 10 mm | 10 mm | 45 mm | 0,11 kg | 1 | **11,82** |
| SO0020050000312 | M12x21 | 35 mm | 63 mm | 35 mm | 14 mm | 14 mm | 62 mm | 0,27 kg | 1 | **13,54** |
| SO0020050000316 | M16x27 | 35 mm | 63 mm | 35 mm | 14 mm | 14 mm | 62 mm | 0,31 kg | 1 | **14,13** |
| SO0020050000320 | M20x30 | 50 mm | 90 mm | 50 mm | 20 mm | 20 mm | 90 mm | 0,86 kg | 1 | **31,08** |
| SO0020050000324 | M24x36 | 50 mm | 90 mm | 50 mm | 20 mm | 20 mm | 90 mm | 0,9 kg | 1 | **33,58** |
| SO0020050000330 | M30x45 | 60 mm | 108 mm | 65 mm | 24 mm | 24 mm | 109 mm | 1,66 kg | 1 | **57,12** |
| SO0020050000336 | M36x54 | 70 mm | 126 mm | 75 mm | 26 mm | 28 mm | 128 mm | 2,15 kg | 1 | **84,40** |
| SO0020050000342 | M42x63 | 80 mm | 144 mm | 85 mm | 30 mm | 32 mm | 147 mm | 4,15 kg | 1 | **110,73** |

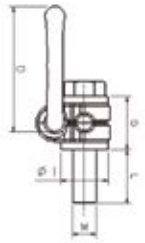
## Golfare girevole con staffa, certificato CE

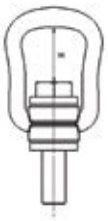


### Caratteristiche

- Punto di ancoraggio destinato al sollevamento dei carichi
- Tiro a 90° con minimo ingombro
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 - EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Vite protetta con sistema GEOMET che garantisce una protezine duratura nel tempo
- Vite imperdibile







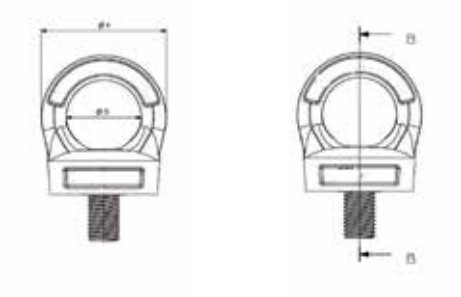
| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | L (mm) | W (mm) | J (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020060000008 | 0,3 | M8 | 57 | 34 | 10 | 78 | 24 | 41 | 30 | 26,5 | 25 | 15 | 43 | 51 | 0,27 | 1 | **71,87** |
| SO0020060000012 | 1 | M12 | 66 | 38 | 13,5 | 85 | 30 | 50 | 36 | 33 | 32 | 23 | 40 | 52 | 0,5 | 1 | **73,00** |
| SO0020060000016 | 1,5 | M16 | 66 | 38 | 13,5 | 85 | 30 | 50 | 36 | 33 | 32 | 24 | 38 | 52 | 0,51 | 1 | **77,93** |
| SO0020060000020 | 2,5 | M20 | 87 | 55 | 16 | 111 | 48 | 68 | 44 | 42,5 | 45 | 31 | 54 | 71 | 1,25 | 1 | **86,69** |
| SO0020060000024 | 4 | M24 | 87 | 55 | 16 | 111 | 48 | 68 | 44 | 42,5 | 45 | 37 | 51 | 71 | 1,3 | 1 | **87,31** |
| SO0020060000030 | 5 | M30 | 109 | 66 | 22,5 | 145 | 54 | 91 | 65 | 58,5 | 60 | 45 | 62 | 86 | 3,25 | 1 | **177,80** |
| SO0020060000036T | 7 | M36 | 109 | 66 | 22,5 | 145 | 54 | 91 | 55 | 58,5 | 60 | 50 | 60 | 86 | 3,3 | 1 | **183,62** |
| SO0020060000036 | 8 | M36 | 136 | 78 | 28 | 190 | 62 | 108 | 81 | 72,5 | 70 | 59 | 88 | 115 | 5,9 | 1 | **344,23** |
| SO00206000042T | 10 | M42 | 136 | 78 | 28 | 190 | 62 | 108 | 75 | 72,5 | 70 | 75 | 86 | 115 | 6,5 | 1 | **380,21** |

## Golfare girevole H.Q. orientabile per ogni direzione di carico, certificato CE



### Caratteristiche

- Punto di ancoraggio destinato al sollevamento dei carichi
- Ideale per ancoraggi a 90°
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 - EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Vite imperdibile
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%



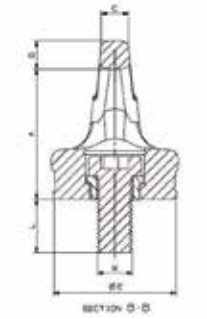
| Codice | TON | Misura | A | B | C | D | E | K | L | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020070000008 | 0,3 | M8 | 44,5 mm | 8 mm | 10 mm | 29 mm | 32 mm | 45 mm | 12 mm | 0,3 kg | 1 | **32,98** |
| SO0020070000016 | 1,5 | M16 | 56,5 mm | 13 mm | 14,5 mm | 39 mm | 56 mm | 65 mm | 24 mm | 0,9 kg | 1 | **45,13** |
| SO0020070000024 | 3,2 | M24 | 80 mm | 18 mm | 19 mm | 52 mm | 73 mm | 88 mm | 36 mm | 2,05 kg | 1 | **88,11** |
| SO0020070000030 | 4,5 | M30 | 101 mm | 22 mm | 27 mm | 62 mm | 80 mm | 106 mm | 43 mm | 3,12 kg | 1 | **120,23** |
| SO0020070000036 | 7 | M36 | 125 mm | 37 mm | 38 mm | 80 mm | 95 mm | 154 mm | 54 mm | 6,7 kg | 1 | **195,31** |
| SO0020070000042 | 9 | M42 | 148 mm | 40 mm | 41 mm | 90 mm | 105 mm | 170 mm | 64 mm | 9,5 kg | 1 | **273,13** |
| SO0020070000048 | 12 | M48 | 165 mm | 45 mm | 47 mm | 95 mm | 120 mm | 185 mm | 72 mm | 13,55 kg | 1 | **334,61** |

## Golfare girevole H.Q. con chiave, orientabile per ogni direzione di carico, certificato CE



### Caratteristiche

- Punto di ancoraggio destinato al sollevamento dei carichi
- Ideale per ancoraggi a 90°
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04 - EN 1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC - Orientabile a 360°
- Testato 100% magnaflux - Testato a 20.000 cicli di fatica
- Vite imperdibile
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%



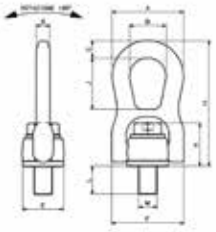
| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | K (mm) | L (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO002007000012C | 0,75 | M12 | 53,5 | 11 | 11 | 34 | 44 | 56 | 18 | 0,46 | 1 | **40,17** |
| SO002007000016C | 1,5 | M16 | 56,5 | 13 | 14,5 | 39 | 56 | 65 | 24 | 0,9 | 1 | **47,50** |

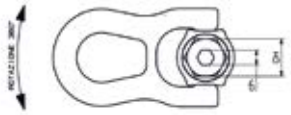
## Golfare girevole con snodo, certificato CE



### Caratteristiche

- Punto di ancoraggio destinato al sollevamento dei carichi
- Ideale per ancoraggi a 90°
- Tiro assiale con minimo ingombro con coefficiente di sicurezza 5 in tutte le direzioni di carico
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Vite protetta con sistema GEOMET che garantisce una protezine duratura nel tempo
- Vite imperdibile
- Le viti dei golfari sono state realizzate per poter essere serrate anche con chiavi esagonali universali

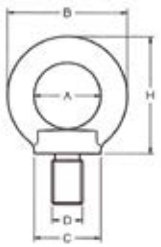


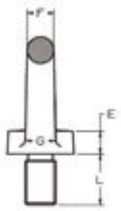


| Codice | TON | Misura | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) | G (mm) | H (mm) | J (mm) | K (mm) | L (mm) | CH (mm) | ch (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020080000014 | 1,3 | M14 | 74,5 | 38 | 18 | 47 | 78 | 17 | 135,5 | 55 | 46 | 21 | 22 | 7 | 1,3 | 1 | **122,52** |
| SO0020080000016 | 1,6 | M16 | 74,5 | 38 | 18 | 47 | 78 | 17 | 135,5 | 55 | 46,5 | 25 | 24 | 10 | 1,3 | 1 | **120,77** |
| SO0020080000018 | 2 | M18 | 74,5 | 38 | 18 | 47 | 78 | 17 | 135,5 | 55 | 47 | 27 | 27 | 10 | 1,3 | 1 | **124,24** |
| SO0020080000020 | 2,5 | M20 | 74,5 | 38 | 18 | 47 | 78 | 17 | 135,5 | 55 | 48 | 30 | 30 | 12 | 1,3 | 1 | **125,99** |
| SO0020080000024 | 4 | M24 | 106 | 56 | 25 | 62 | 114,5 | 22 | 198,5 | 84 | 64,5 | 36 | 36 | 14 | 4 | 1 | **192,49** |
| SO0020080000030 | 6,3 | M30 | 106 | 56 | 25 | 62 | 114,5 | 22 | 198,5 | 84 | 68 | 45 | 46 | 17 | 4 | 1 | **203,00** |

## Golfare zincato maschio, DIN 580, acciaio C 15 E, certificato CE



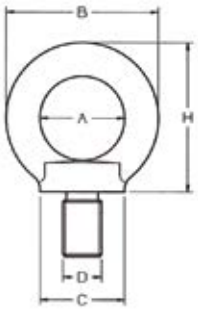


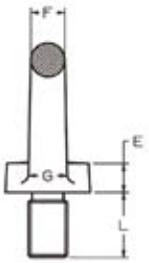




| Codice | Misura | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) | G (mm) | H (mm) | L (mm) | Port. (kg) | Portata (incl. 45°) (kg) | Portata (incl. 90°) (kg) | Coppia max serrag. (Nm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020090000006 | M6 | 20 | 36 | 20 | 6 | 8 | 10 | 36 | 13 | 90 | 60 | 45 | 3,5 | 0,06 | 1 | **0,71** |
| SO0020090000008 | M8 | 20 | 36 | 20 | 6 | 8 | 10 | 36 | 13 | 140 | 100 | 70 | 8 | 0,06 | 1 | **0,66** |
| SO0020090000010 | M10 | 25 | 45 | 25 | 8 | 10 | 12 | 45 | 17 | 230 | 170 | 115 | 16 | 0,11 | 1 | **0,95** |

## Golfare zincato maschio, DIN 580, acciaio C 15 E, certificato CE



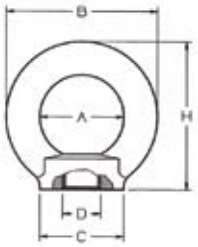


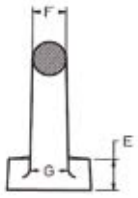




| Codice | Misura | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) | G (mm) | H (mm) | L (mm) | Port. (kg) | Portata (incl. 45°) (kg) | Portata (incl. 90°) (kg) | Coppia max serrag. (Nm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020090000012 | M12 | 30 | 54 | 30 | 10 | 12 | 14 | 53 | 20,5 | 340 | 240 | 170 | 28 | 0,17 | 1 | **1,29** |
| SO0020090000014 | M14 | 30 | 54 | 30 | 10 | 12 | 14 | 53 | 20,5 | 500 | 350 | 250 | 45 | 0,17 | 1 | **1,29** |
| SO0020090000016 | M16 | 35 | 63 | 35 | 12 | 14 | 16 | 62 | 27 | 700 | 500 | 350 | 70 | 0,31 | 1 | **1,93** |
| SO0020090000018 | M18 | 35 | 63 | 35 | 12 | 14 | 16 | 62 | 27 | 930 | 650 | 465 | 95 | 0,48 | 1 | **2,08** |
| SO0020090000020 | M20 | 40 | 72 | 40 | 14 | 16 | 19 | 71 | 30 | 1200 | 860 | 600 | 135 | 0,48 | 1 | **2,93** |

## Golfare zincato femmina, DIN 582, acciaio C 15 E, certificato CE



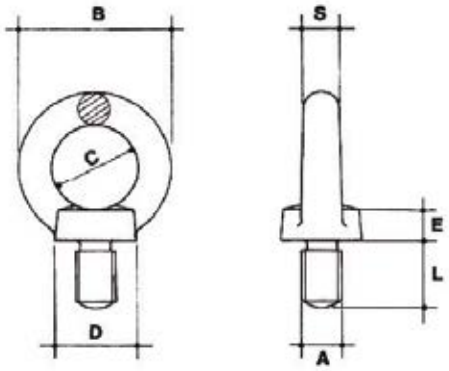



| Codice | Misura | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Port. (kg) | Portata (incl. 45°) (kg) | Portata (incl. 90°) (kg) | Coppia max serrag. (Nm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020100000006 | M6 | 20 | 36 | 20 | 8,5 | 8 | 10 | 36 | 90 | 60 | 45 | 3,5 | 0,06 | 1 | **0,62** |
| SO0020100000008 | M8 | 20 | 36 | 20 | 8,5 | 8 | 10 | 36 | 140 | 100 | 70 | 8 | 0,06 | 1 | **0,65** |
| SO0020100000010 | M10 | 25 | 45 | 25 | 10 | 10 | 12 | 45 | 230 | 170 | 115 | 16 | 0,1 | 1 | **0,95** |
| SO0020100000012 | M12 | 30 | 54 | 30 | 11 | 12 | 14 | 53 | 340 | 240 | 170 | 28 | 0,17 | 1 | **1,20** |
| SO0020100000014 | M14 | 30 | 54 | 30 | 11 | 12 | 14 | 53 | 500 | 350 | 250 | 45 | 0,15 | 1 | **1,21** |
| SO0020100000016 | M16 | 35 | 63 | 35 | 13 | 14 | 16 | 62 | 700 | 500 | 350 | 70 | 0,26 | 1 | **1,91** |
| SO0020100000018 | M18 | 35 | 63 | 35 | 13 | 14 | 16 | 62 | 930 | 650 | 465 | 95 | 0,24 | 1 | **2,05** |
| SO0020100000020 | M20 | 40 | 72 | 40 | 16 | 16 | 19 | 71 | 1200 | 860 | 600 | 135 | 0,41 | 1 | **2,95** |

## Golfare maschio in acciaio inox, DIN 580, AISI 304/316, certificato CE

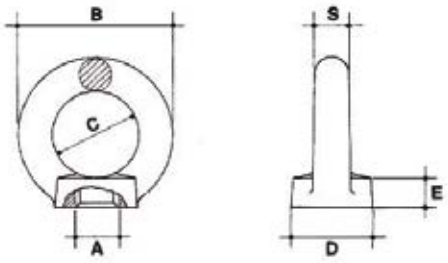





| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | L (mm) | S (mm) | Port. (kg) | Portata (incl. 45°) (kg) | Portata (incl. 90°) (kg) | Coppia max serrag. (Nm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020110000006 | M6 | 6 | 36 | 20 | 20 | 6 | 13 | 8 | 90 | 60 | 45 | 3,5 | 0,05 | 1 | **2,76** |
| SO0020110000008 | M8 | 8 | 36 | 20 | 20 | 6 | 13 | 8 | 140 | 100 | 70 | 8 | 0,06 | 1 | **3,25** |
| SO0020110000010 | M10 | 10 | 45 | 25 | 25 | 8 | 17 | 10 | 230 | 170 | 115 | 16 | 0,12 | 1 | **5,12** |

## Golfare femmina in acciaio inox, DIN 582, AISI 304/316, certificato CE

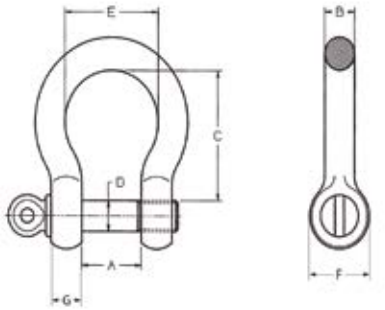





| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | S (mm) | Port. (kg) | Portata (incl. 45°) (kg) | Portata (incl. 90°) (kg) | Coppia max serrag. (Nm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020120000006 | M6 | 6 | 36 | 20 | 20 | 8,5 | 8 | 90 | 60 | 45 | 3,5 | 0,06 | 1 | **3,25** |
| SO0020120000010 | M10 | 10 | 45 | 25 | 25 | 10 | 10 | 230 | 170 | 115 | 16 | 0,1 | 1 | **5,12** |

## Grillo a cuore con perno a vite, in acciaio ad alta resistenza, certificato CE

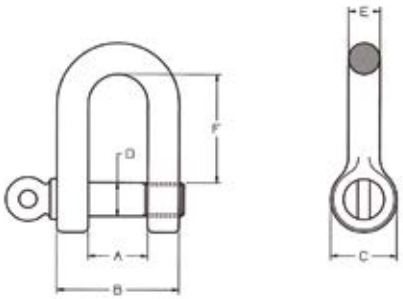





| Codice | Misura | Portata | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020130000516 | 5/16” | 0,75 ton | 13,5 | 7,9 | 31 | 9,7 | 21,3 | 19 | 8 | 0,0863 | 1 | **1,22** |
| SO0020130000038 | 3/8” | 1 ton | 16,8 | 9,7 | 36,6 | 11,2 | 26,2 | 23 | 10 | 0,1407 | 1 | **1,66** |
| SO0020130000012 | 1/2” | 2 ton | 20,6 | 12,7 | 47,8 | 16 | 33,3 | 30 | 13 | 0,3269 | 1 | **3,09** |
| SO0020130000058 | 5/8” | 3,25 ton | 26,9 | 16 | 60,5 | 19,1 | 42,9 | 39 | 16 | 0,622 | 1 | **5,23** |
| SO0020130000034 | 3/4” | 4,75 ton | 31,8 | 19,1 | 71,4 | 22,4 | 50,8 | 47 | 19 | 1,0669 | 1 | **8,12** |
| SO0020130000078 | 7/8” | 6,6 ton | 36,6 | 22,4 | 84,1 | 25,4 | 57,9 | 54 | 22 | 1,6435 | 1 | **12,13** |
| SO0020130000001 | 1” | 8,5 ton | 42,9 | 25,4 | 95,3 | 28,7 | 68,3 | 60 | 25 | 2,2836 | 1 | **17,52** |

## Grillo dritto con perno occhio circolare, in acciaio Fe 430 B, certificato CE





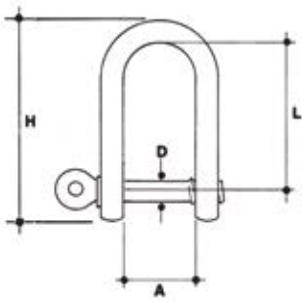

| Codice | Misura | A | B | C | D | E | F | Carico max di sicurezza | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020140000005 | 5 mm | 8 mm | 18 mm | 12 mm | 5 mm | 5 mm | 23 mm | 70 kg | 0,02 kg | 1 | **0,68** |
| SO0020140000006 | 6 mm | 11 mm | 23 mm | 14 mm | 6 mm | 6 mm | 29 mm | 100 kg | 0,04 kg | 1 | **0,91** |
| SO0020140000008 | 8 mm | 16 mm | 32 mm | 18 mm | 8 mm | 8 mm | 37 mm | 250 kg | 0,08 kg | 1 | **1,37** |
| SO0020140000010 | 10 mm | 19 mm | 38 mm | 21 mm | 10 mm | 10 mm | 41 mm | 400 kg | 0,11 kg | 1 | **1,60** |
| SO0020140000012 | 12 mm | 26 mm | 50 mm | 28 mm | 12 mm | 12 mm | 54 mm | 630 kg | 0,25 kg | 1 | **2,76** |
| SO0020140000014 | 14 mm | 28 mm | 56 mm | 30 mm | 14 mm | 14 mm | 57 mm | 750 kg | 0,34 kg | 1 | **3,52** |
| SO0020140000016 | 16 mm | 30 mm | 64 mm | 35 mm | 16 mm | 16 mm | 63 mm | 1000 kg | 0,51 kg | 1 | **4,94** |
| SO0020140000018 | 18 mm | 28 mm | 64 mm | 37 mm | 18 mm | 18 mm | 62 mm | 1300 kg | 0,75 kg | 1 | **6,65** |
| SO0020140000020 | 20 mm | 35 mm | 68 mm | 39 mm | 20 mm | 20 mm | 65 mm | 1600 kg | 0,94 kg | 1 | **7,73** |

## Grillo dritto con perno occhio circolare, in acciaio Fe 430 B, certificato CE

| Codice | Misura | A | B | C | D | E | F | Carico max di sicurezza | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020140000022 | 22 mm | 41 mm | 83 mm | 44 mm | 22 mm | 22 mm | 75 mm | 2000 kg | 1,3 kg | 1 | **11,53** |
| SO0020140000025 | 25 mm | 36 mm | 80 mm | 50 mm | 25 mm | 25 mm | 81 mm | 2500 kg | 1,6 kg | 1 | **15,35** |
| SO0020140000028 | 28 mm | 40 mm | 88 mm | 56 mm | 28 mm | 28 mm | 90 mm | 3150 kg | 2 kg | 1 | **21,06** |
| SO0020140000032 | 32 mm | 45 mm | 99 mm | 64 mm | 32 mm | 32 mm | 99 mm | 4000 kg | 2,9 kg | 1 | **25,89** |

## Grillo dritto in acciaio inox, AISI 314/316, certificato CE





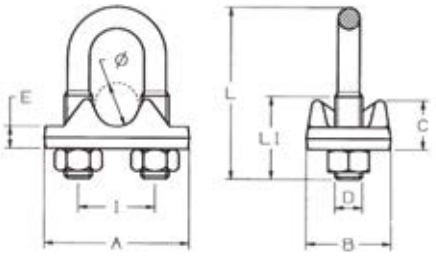

| Codice | Misura | D | A | L | H | Carico max di sicurezza | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO0020160000004 | 4 mm | 4 mm | 8 mm | 16 mm | 24 mm | 50 kg | 0,01 kg | 1 | **1,07** |
| SO0020160000005 | 5 mm | 5 mm | 10 mm | 20 mm | 30 mm | 70 kg | 0,02 kg | 1 | **1,11** |
| SO0020160000006 | 6 mm | 6 mm | 14 mm | 26 mm | 37 mm | 100 kg | 0,03 kg | 1 | **1,26** |
| SO0020160000008 | 8 mm | 8 mm | 16 mm | 32 mm | 48 mm | 250 kg | 0,07 kg | 1 | **1,90** |
| SO0020160000010 | 10 mm | 10 mm | 20 mm | 45 mm | 64 mm | 400 kg | 0,13 kg | 1 | **3,13** |

## Morsetto a cavallotto per fune, certificato CE



### Caratteristiche

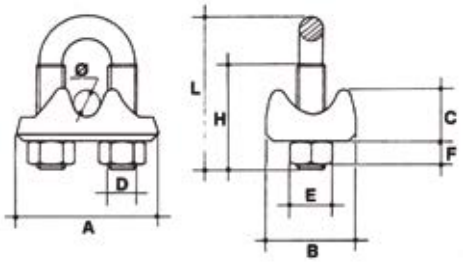
- Stampato a caldo
- Corpo in acciaio Fe 430 B
- Cavallotto in acciaio 360 Fe B




| Codice | Misura (mm) | Fune (mm) | A (mm) | B (mm) | C (mm) | D | E (mm) | I (mm) | L (mm) | L1 (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020150000004 | 4 | 3-4 | 21 | 14 | 9 | M4 | 4,5 | 9 | 20 | 12 | 0,01 | 1 | **0,27** |
| SO0020150000005 | 5 | 5 | 25 | 17 | 10 | M5 | 4,5 | 11 | 24 | 13 | 0,02 | 1 | **0,35** |
| SO0020150000006 | 6 | 6 | 30 | 19 | 11 | M6 | 5 | 14,5 | 34 | 19 | 0,03 | 1 | **0,41** |
| SO0020150000008 | 8 | 8 | 33 | 20 | 12 | M6 | 5,5 | 16 | 34 | 19 | 0,04 | 1 | **0,51** |
| SO0020150000010 | 10 | 10 | 38 | 22 | 14 | M8 | 6 | 18 | 44 | 24 | 0,07 | 1 | **0,74** |
| SO0020150000011 | 11 | 11 | 40 | 23 | 15 | M8 | 6,5 | 20 | 45 | 27 | 0,08 | 1 | **0,95** |
| SO0020150000012 | 12 | 12 | 45 | 25 | 16 | M10 | 7 | 23 | 55 | 30 | 0,12 | 1 | **1,07** |
| SO0020150000014 | 14 | 14 | 46 | 27 | 17 | M10 | 7,5 | 24 | 55 | 30 | 0,14 | 1 | **1,17** |
| SO0020150000016 | 16 | 16 | 53 | 31 | 18 | M10 | 8 | 28 | 63 | 32 | 0,18 | 1 | **1,43** |
| SO0020150000018 | 18 | 18 | 59 | 33 | 20 | M12 | 8 | 30 | 78 | 38 | 0,26 | 1 | **2,09** |
| SO0020150000020 | 20 | 20 | 60 | 34 | 22 | M12 | 9 | 33 | 78 | 38 | 0,29 | 1 | **2,23** |
| SO0020150000022 | 22 | 22 | 64 | 34 | 23 | M12 | 9,5 | 36 | 81 | 45 | 0,3 | 1 | **2,64** |
| SO0020150000024 | 24 | 24-25 | 70 | 40 | 24 | M12 | 10 | 38 | 86 | 45 | 0,38 | 1 | **3,13** |

## Morsetto a cavallotto in acciao inox, AISI 316, certificato CE

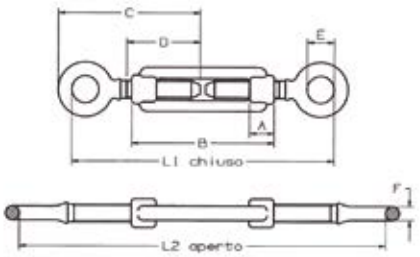





| Codice | Misura (mm) | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) | H (mm) | L (mm) | D (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020170000034 | 3-4 | 22 | 14 | 8 | 7 | 3,5 | 12 | 22 | 4 | 0,01 | 1 | **1,23** |
| SO0020170000005 | 5 | 24 | 16 | 9 | 8 | 4 | 15 | 24 | 5 | 0,02 | 1 | **1,41** |
| SO0020170000006 | 6 | 30 | 18 | 11 | 10 | 5 | 18 | 33 | 6 | 0,03 | 1 | **1,68** |
| SO0020170000008 | 8 | 33 | 20 | 12 | 10 | 5 | 20 | 35 | 6 | 0,04 | 1 | **2,02** |
| SO0020170000010 | 10 | 37 | 22 | 14 | 13 | 6,5 | 22 | 43 | 8 | 0,07 | 1 | **3,25** |

## Tenditore a due occhi, corpo in ghisa, certificato CE

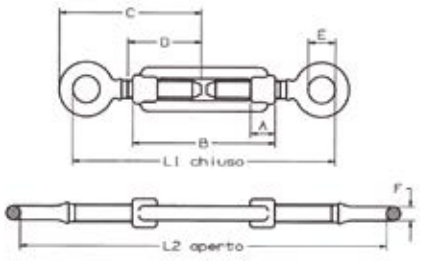





| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | L1 (mm) | L2 (mm) | Carico max di sicur. (kg) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020180000005 | M5 | 9 | 79 | 59 | 40 | 8 | 4 | 122 | 175 | 140 | 0,04 | 1 | **0,65** |
| SO0020180000006 | M6 | 10 | 88 | 74 | 50 | 10 | 4 | 140 | 203 | 225 | 0,06 | 1 | **0,74** |
| SO0020180000008 | M8 | 12 | 110 | 80 | 52 | 11 | 5 | 157 | 226 | 410 | 0,15 | 1 | **0,99** |
| SO0020180000010 | M10 | 15 | 130 | 97 | 60 | 14 | 6,5 | 182 | 260 | 650 | 0,21 | 1 | **1,44** |
| SO0020180000012 | M12 | 18 | 140 | 106 | 67 | 17 | 8 | 228 | 297 | 930 | 0,34 | 1 | **2,27** |
| SO0020180000014 | M14 | 20 | 170 | 126 | 83 | 18 | 8,5 | 245 | 365 | 1330 | 0,5 | 1 | **3,41** |

## Tenditore a due occhi, corpo in ghisa, certificato CE

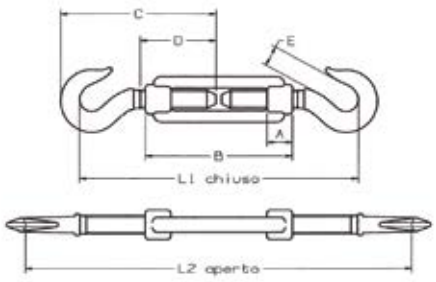





| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | L1 (mm) | L2 (mm) | Carico max di sicur. (kg) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020180000016 | M16 | 22,5 | 190 | 160 | 97 | 23 | 13 | 280 | 412 | 1770 | 0,93 | 1 | **4,65** |
| SO0020180000018 | M18 | 27 | 200 | 178 | 112 | 25 | 14 | 324 | 450 | 2200 | 1,38 | 1 | **6,78** |
| SO0020180000020 | M20 | 30 | 220 | 190 | 116 | 25 | 14 | 340 | 470 | 2700 | 1,42 | 1 | **8,56** |
| SO0020180000022 | M22 | 33 | 242 | 200 | 120 | 30 | 16 | 365 | 495 | 3300 | 2,11 | 1 | **12,32** |
| SO0020180000024 | M24 | 39 | 255 | 210 | 125 | 34 | 17 | 400 | 565 | 3920 | 2,76 | 1 | **15,42** |

## Tenditore con occhio e gancio, corpo in ghisa, certificato CE





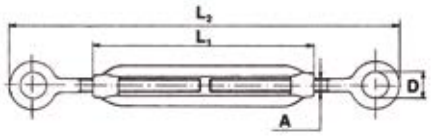

| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | L1 (mm) | L2 (mm) | Coppia max di sicur. (kg) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020190000005 | M5 | 9 | 79 | 59 | 40 | 8 | 62 | 40 | 6 | 120 | 170 | 50 | 0,05 | 1 | **0,65** |
| SO0020190000006 | M6 | 10 | 88 | 74 | 50 | 10 | 76 | 50 | 8,5 | 143 | 205 | 75 | 0,06 | 1 | **0,74** |
| SO0020190000008 | M8 | 12 | 110 | 80 | 52 | 11 | 89 | 52 | 10 | 162 | 237 | 165 | 0,12 | 1 | **0,99** |
| SO0020190000010 | M10 | 15 | 130 | 97 | 60 | 14 | 103 | 62 | 12 | 196 | 277 | 235 | 0,24 | 1 | **1,44** |
| SO0020190000012 | M12 | 18 | 140 | 106 | 67 | 17 | 121 | 65 | 16 | 223 | 310 | 320 | 0,38 | 1 | **2,27** |

## Tenditore con occhio e gancio, corpo in ghisa, certificato CE

| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | L1 (mm) | L2 (mm) | Coppia max di sicur. (kg) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020190000014 | M14 | 20 | 170 | 126 | 83 | 18 | 144 | 82 | 16 | 262 | 378 | 420 | 0,56 | 1 | **3,41** |
| SO0020190000016 | M16 | 22,5 | 190 | 160 | 97 | 23 | 172 | 105 | 16,5 | 296 | 420 | 530 | 0,94 | 1 | **4,65** |
| SO0020190000018 | M18 | 27 | 200 | 178 | 112 | 25 | 183 | 110 | 17 | 326 | 455 | 630 | 1,35 | 1 | **6,78** |
| SO0020190000020 | M20 | 30 | 220 | 190 | 116 | 25 | 185 | 110 | 17,5 | 342 | 475 | 730 | 1,48 | 1 | **8,56** |

## Tenditore a due occhi in acciaio inox, AISI 316, certificato CE

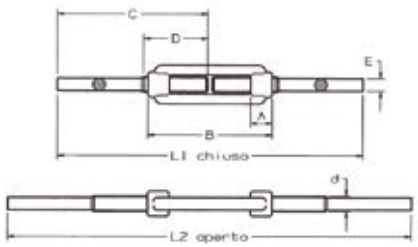





| Codice | Misura | D | L1 | L2 | Carico max di sicurezza | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SO0020200000005 | M5 | 8 mm | 70 mm | 110÷170 mm | 140 kg | 0,04 kg | 1 | **2,43** |
| SO0020200000006 | M6 | 10 mm | 90 mm | 140÷220 mm | 225 kg | 0,08 kg | 1 | **3,41** |
| SO0020200000008 | M8 | 14 mm | 120 mm | 180÷280 mm | 410 kg | 0,16 kg | 1 | **6,15** |

## Tenditore a due tronchi neri, DIN 1480, in acciaio Fe 430 B, certificato CE

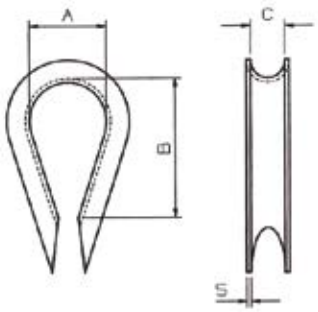





| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | L1 (mm) | L2 (mm) | Carico max di sicur. (kg) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020210000016 | M16 | 27 | 170 | 200 | 100 | 14,5 | 400 | 543 | 1770 | 0,97 | 1 | **6,10** |
| SO0020210000020 | M20 | 34 | 200 | 220 | 120 | 18,7 | 440 | 606 | 2700 | 1,7 | 1 | **9,05** |
| SO0020210000022 | M22 | 36 | 220 | 240 | 130 | 21,7 | 480 | 664 | 3300 | 2,38 | 1 | **13,06** |
| SO0020210000024 | M24 | 39 | 255 | 260 | 150 | 22,5 | 520 | 736 | 3920 | 2,94 | 1 | **15,82** |
| SO0020210000027 | M27 | 45 | 255 | 260 | 160 | 24,8 | 520 | 736 | 4950 | 4,15 | 1 | **27,52** |
| SO0020210000030 | M30 | 45 | 255 | 260 | 175 | 27,5 | 520 | 736 | 6250 | 4,45 | 1 | **32,02** |
| SO0020210000033 | M33 | 55 | 295 | 300 | 190 | 30,7 | 600 | 810 | 7560 | 6,57 | 1 | **50,57** |

## Redance, DIN 6899A, in acciaio Fe 360 B, certificato CE





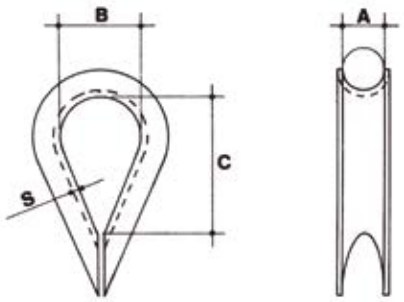

| Codice | Misura | A | B | C | S | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SO0020220000003 | 3 mm | 12 mm | 26,5 mm | 4 mm | 0,75 mm | 0,0035 kg | 1 | **0,12** |
| SO0020220000004 | 4 mm | 13 mm | 28,5 mm | 5 mm | 0,75 mm | 0,0043 kg | 1 | **0,13** |
| SO0020220000005 | 5 mm | 14 mm | 30 mm | 6 mm | 1 mm | 0,0058 kg | 1 | **0,14** |
| SO0020220000006 | 6 mm | 15 mm | 33 mm | 7 mm | 1 mm | 0,0079 kg | 1 | **0,17** |
| SO0020220000007 | 7 mm | 16 mm | 35 mm | 8 mm | 1,25 mm | 0,0101 kg | 1 | **0,19** |
| SO0020220000008 | 8 mm | 18 mm | 39 mm | 9 mm | 1,25 mm | 0,016 kg | 1 | **0,20** |

## Redance, DIN 6899A, in acciaio Fe 360 B, certificato CE

| Codice | Misura | A | B | C | S | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SO0020220000009 | 9 mm | 20 mm | 43 mm | 10 mm | 1,25 mm | 0,0198 kg | 1 | **0,27** |
| SO0020220000010 | 10 mm | 22 mm | 47,5 mm | 11 mm | 1,5 mm | 0,0295 kg | 1 | **0,27** |
| SO0020220000011 | 11 mm | 24 mm | 51,5 mm | 12 mm | 1,5 mm | 0,037 kg | 1 | **0,31** |
| SO0020220000012 | 12 mm | 26 mm | 56,5 mm | 13 mm | 1,5 mm | 0,0525 kg | 1 | **0,37** |

## Redance in acciaio inox, AISI 316, certificato CE

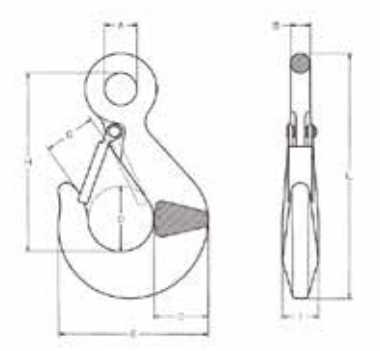





| Codice | Misura | A | B | C | S | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SO0020230000004 | 4 mm | 4 mm | 11 mm | 18 mm | 1 mm | 0,008 kg | 1 | **0,29** |
| SO0020230000005 | 5 mm | 5 mm | 14 mm | 20 mm | 1,2 mm | 0,01 kg | 1 | **0,41** |
| SO0020230000006 | 6 mm | 6 mm | 15 mm | 23 mm | 1,2 mm | 0,01 kg | 1 | **0,49** |
| SO0020230000008 | 8 mm | 8 mm | 18 mm | 29 mm | 1,5 mm | 0,02 kg | 1 | **0,74** |

## Gancio di sollevamento con sicura, DIN 689, in acciaio C 15, certificato CE

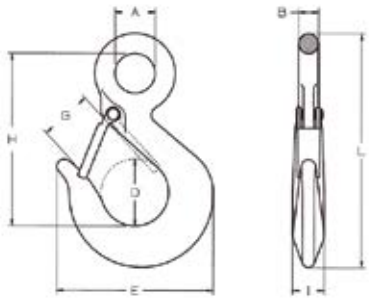




| Codice | Carico max di sicur. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | G (mm) | H (mm) | I (mm) | L (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020250000025 | 0,25 ton | 12 | 7,5 | 19,5 | 23 | 53,5 | 15 | 64 | 13 | 88,5 | 0,15 | 1 | **1,50** |

## Gancio di sollevamento al carbonio con sicura, acciaio C 40, certificato CE

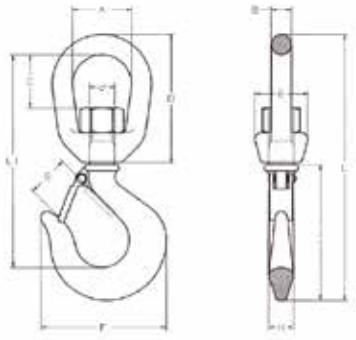




| Codice | Carico max di sicur. | A (mm) | B (mm) | D (mm) | E (mm) | G (mm) | H (mm) | I (mm) | L (mm) | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020240000008 | 0,8 ton | 19 | 10 | 30 | 73 | 21,5 | 80 | 15 | 114 | 0,26 | 1 | **3,51** |
| SO0020240000010 | 1 ton | 23 | 12 | 32 | 82 | 23 | 93 | 17,5 | 125 | 0,35 | 1 | **4,67** |
| SO0020240000016 | 1,6 ton | 27 | 13 | 35 | 93 | 23 | 103 | 20,5 | 142 | 0,62 | 1 | **7,28** |
| SO0020240000020 | 2 ton | 30 | 16 | 38 | 105 | 24 | 117 | 22 | 165 | 0,93 | 1 | **8,95** |
| SO0020240000032 | 3,2 ton | 38 | 19 | 46 | 125 | 26,5 | 145 | 28,5 | 204 | 1,73 | 1 | **16,21** |
| SO0020240000005 | 5 ton | 50 | 24 | 60 | 168 | 40 | 185 | 35 | 255 | 3,42 | 1 | **29,88** |

## Gancio girevole di sollevamento al carbonio con sicura, acciaio C 40, certificato CE

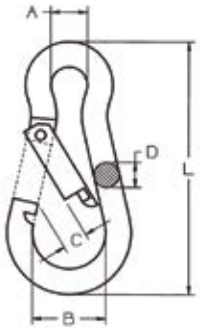




| Codice | Carico max di sicur. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | L (mm) | L1 (mm) | d | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020260000008 | 0,8 ton | 32 | 10 | 34 | 64 | 25 | 73 | 25 | 14 | 77 | 142 | 113,5 | M12 | 0,45 | 1 | **6,01** |
| SO0020260000010 | 1 ton | 38 | 13 | 34 | 82 | 34 | 81 | 27 | 16 | 86 | 170 | 135,5 | M16 | 0,77 | 1 | **8,34** |
| SO0020260000016 | 1,6 ton | 46 | 16 | 42 | 99 | 38 | 92 | 29 | 19 | 94 | 197,5 | 156 | M18 | 1,22 | 1 | **11,80** |
| SO0020260000020 | 2 ton | 50 | 18 | 47 | 110 | 48 | 104 | 32 | 21,5 | 106 | 219,5 | 173 | M20 | 1,51 | 1 | **13,66** |
| SO0020260000032 | 3,2 ton | 57 | 20 | 55 | 127 | 54 | 125 | 38 | 28,5 | 133 | 262 | 205 | M22 | 2,48 | 1 | **25,36** |

## Moschettone DIN 5299, in acciaio Fe 360 B, certificato CE

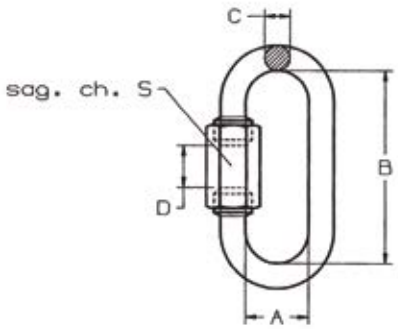





| Codice | Misura | A | B | C | D | L | Carico max di sicur. | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO0020270000050 | 5x50 mm | 8 mm | 15 mm | 7 mm | 5 mm | 50 mm | 100 mm | 0,02 kg | 1 | **0,32** |
| SO0020270000060 | 6x60 mm | 9 mm | 17 mm | 8 mm | 6 mm | 60 mm | 120 mm | 0,02 kg | 1 | **0,39** |
| SO0020270000080 | 8x80 mm | 12 mm | 23 mm | 10 mm | 8 mm | 80 mm | 230 mm | 0,07 kg | 1 | **0,63** |
| SO0020270000100 | 10x100 mm | 15 mm | 29 mm | 11 mm | 10 mm | 100 mm | 350 mm | 0,13 kg | 1 | **1,05** |
| SO0020270000120 | 11x120 mm | 18 mm | 36 mm | 16 mm | 11 mm | 120 mm | 380 mm | 0,19 kg | 1 | **1,43** |

## Maglia rapida di giunzione, in acciaio Fe 360 B, certificata CE

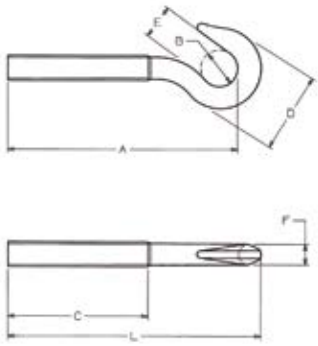





| Codice | Misura | A | B | C | D | ch. S | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SO0020280000006 | 6 mm | 15 mm | 46 mm | 6 mm | 9 mm | 11 mm | 0,03 kg | 1 | **0,44** |
| SO0020280000008 | 8 mm | 17,5 mm | 58 mm | 8 mm | 9,5 mm | 14 mm | 0,08 kg | 1 | **0,79** |
| SO0020280000010 | 10 mm | 20,5 mm | 69 mm | 10 mm | 13 mm | 17 mm | 0,15 kg | 1 | **1,31** |
| SO0020280000012 | 12 mm | 23,5 mm | 80,5 mm | 12 mm | 14,5 mm | 19 mm | 0,23 kg | 1 | **2,21** |
| SO0020280000014 | 14 mm | 27 mm | 97 mm | 14 mm | 16 mm | 22 mm | 0,35 kg | 1 | **4,56** |

## Gancio per tasselli con occhiolo aperto, in acciaio Fe 430 B, certificato CE

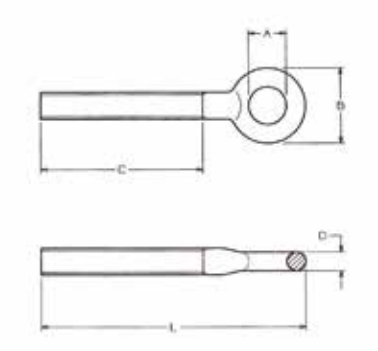




| Codice | Misura | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | L (mm) | Carico max di sicur. | Peso (kg) | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO0020290000006 | M6 | 75 | 10 | 55 | 21 | 8,5 | 5 | 81 | 75 kg | 0,018 | 1 | **0,32** |
| SO0020290000008 | M8 | 88 | 11 | 60 | 27 | 10 | 6 | 97 | 165 kg | 0,035 | 1 | **0,55** |
| SO0020290000010 | M10 | 105 | 14 | 73 | 33 | 12 | 8 | 114 | 235 kg | 0,07 | 1 | **0,91** |
| SO0020290000012 | M12 | 135 | 17 | 90 | 42 | 16 | 10 | 146 | 320 kg | 0,13 | 1 | **0,92** |

## Vite ad occhio per tasselli, in acciaio Fe 430 B, certificata CE

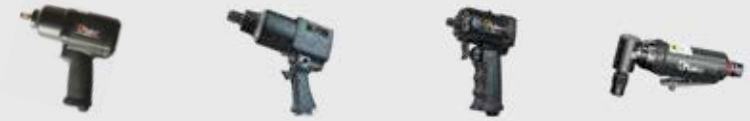





| Codice | Misura | A | B | C | D | L | Carico max di sicur. | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| SO0020300000006 | M6 | 10 mm | 18 mm | 55 mm | 4 mm | 79 mm | 225 kg | 0,016 kg | 1 | **0,34** |
| SO0020300000008 | M8 | 11 mm | 21 mm | 60 mm | 5 mm | 88 mm | 410 kg | 0,035 kg | 1 | **0,58** |
| SO0020300000010 | M10 | 14 mm | 27 mm | 73 mm | 6,5 mm | 110 mm | 650 kg | 0,06 kg | 1 | **0,73** |
| SO0020300000012 | M12 | 17 mm | 33 mm | 90 mm | 8 mm | 129 mm | 930 kg | 0,11 kg | 1 | **1,81** |

# 9 PNEUMATICA



Utensili pneumatici  876-884

Tubi aria  885-887

Raccordi  888-890

## POWER STATION PRO, centralina con avvitatore idraulico ad impulsi



### Caratteristiche

POWER STATION PRO, centralina con avvitatore idraulico ad impulsi (attacco quadro 3/4" - 1" - 1 1/2"). Fornita con supporto avvitatore, porta bussole e pre-regolatore in dotazione. Accessori optional: scambiatore di calore, ideale per lavori in ambienti gravosi e Heavy-Duty; cofano in alluminio mandorlato; ruote maggiorate; tubi da 7-10-15 mt. Gli avvitatori sono tutti forniti con tubo 4 mt e maniglia D-grip.

**Campi di applicazione:** officine, manutenzione industriale, cambio gomme, manutenzione mezzi agricoli, settore navale, ingegneria civile, movimento terra, ecc.

| Codice | Descrizione | Albero | Attacco | Potenza | Input | Coppia serraggio | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UT0020030340PSP | POWER STATION PRO 340 centralina+avvitatore | corto | 3/4" | 3 HP | 380 V | 3000 Nm | 1 | **8.287,50** |
| UT002003034PSPL | POWER STATION PRO 340L centralina+avvitatore | lungo | 3/4" | 3 HP | 380 V | 3000 Nm | 1 | **8.287,50** |
| UT0020030010PSP | POWER STATION PRO 100 centralina+avvitatore | corto | 1" | 3 HP | 380 V | 3500 Nm | 1 | **8.450,00** |
| UT002003001PSPL | POWER STATION PRO 100L centralina+avvitatore | lungo | 1" | 3 HP | 380 V | 3500 Nm | 1 | **8.450,00** |
| UT0020030101PSP | POWER STATION PRO 101 centralina+avvitatore | corto | 1" | 5,5 HP | 380 V | 5500 Nm | 1 | **11.537,50** |
| UT002003011PSPL | POWER STATION PRO 101L centralina+avvitatore | lungo | 1" | 5,5 HP | 380 V | 5500 Nm | 1 | **11.537,50** |
| UT0020030112PSP | POWER STATION PRO 112 centralina+avvitatore | corto | 1 1/2" | 5,5 HP | 380 V | 8500 Nm | 1 | **14.625,00** |
| UT00200300000C2 | Centralina 3HP | - | - | 3 HP | 380 V | - | 1 | **4.160,00** |
| UT00200300000C3 | Centralina 5,5HP | - | - | 5,5 HP | 380 V | - | 1 | **5.135,00** |
| UT0020030340000A | Avvitatore idraulico con tubo 4 mt | corto | 3/4" | - | - | 3000 Nm | 1 | **4.127,50** |
| UT00200303400AL | Avvitatore idraulico con tubo 4 mt | lungo | 3/4" | - | - | 3000 Nm | 1 | **4.127,50** |
| UT0020030010000A | Avvitatore idraulico con tubo 4 mt | corto | 1" | - | - | 3500 Nm | 1 | **4.290,00** |
| UT00200300100AL | Avvitatore idraulico con tubo 4 mt | lungo | 1" | - | - | 3500 Nm | 1 | **4.290,00** |
| UT0020030010100A | Avvitatore idraulico con tubo 4 mt | corto | 1" | - | - | 5500 Nm | 1 | **6.402,50** |
| UT00200300101AL | Avvitatore idraulico con tubo 4 mt | lungo | 1" | - | - | 5500 Nm | 1 | **6.402,50** |
| UT0020030011120A | Avvitatore idraulico con tubo 4 mt | corto | 1 1/2" | - | - | 8500 Nm | 1 | **9.490,00** |
| **Accessori centralina** | | | | | | | | |
| UT0020030R10PSP | Kit scambiatore di calore | | | | | | 1 | **1.235,00** |
| UT0020030R20PSP | Cofano in alluminio mandorlato | | | | | | 1 | **796,25** |
| UT0020030R30PSP | Ruote maggiorate | | | | | | 1 | **438,75** |
| UT0020030R40PSP | Tubo 10 mt per avvitatore idraulico | | | | | | 1 | **406,25** |
| UT0020030R50PSP | Maniglia speciale antivibrazione | | | | | | 1 | **367,25** |
| UT0020030R60PSP | Adattatore idraulico (mini centralina) | | | | | | 1 | **2.242,50** |

## Avvitatore pneumatico RACING 3000



### Caratteristiche

RACING 3000, avvitatore portatile pneumatico ad impulsi, con attacco quadro 1", con foro e anello di ritegno, attacchi in-out aria standard, con cuscinetto combinato; nuova tecnologia Pin-Clutch con materiali innovativi e trattamenti tipo aeronautico che garantiscono minime vibrazioni; massa battente lubrificata a bagno d'olio; fornito con maniglia smontata per permettere all'utilizzatore di montarla a destra, a sinistra o in alto secondo le sue esigenze.

- **Capacità bullone:** M18/M39
- **Coppia max:** 2.796 Nm
- **Coppia raccomandata:** 589-1.890 Nm
- **Entrata aria:** 1/2" GAS - 750 impatti/min
- **Pressione esercizio:** 6,3 bar - 4.200 giri/min
- **Ø interno tubo alimentazione:** 13 mm
- **Lunghezza:** 250 mm
- **Peso:** 9,17 kg (albero lungo), 8,2 kg (albero corto)

| Codice | Albero | | € / cad. |
|---|---|---|---|
| UT002003000001C | corto | 1 | **2.319,28** |
| UT002003000001L | lungo | 1 | **2.395,40** |

## Avvitatore pneumatico RACING 100



### Caratteristiche

RACING 100, avvitatore portatile pneumatico ad impulsi, con attacco quadro 1", albero corto, con foro, con anello di ritegno e OR, con regolazione di potenza.

- **Capacità bullone:** M16/M30
- **Coppia max:** 1.550 Nm
- **Coppia raccomandata:** 200-1.300 Nm
- **Entrata aria:** 3/8" GAS - 1.100 impatti/min
- **Pressione esercizio:** 6,3 bar - 6.000 giri/min
- **Ø interno tubo alimentazione:** 13 mm
- **Lunghezza:** 200 mm
- **Peso:** 3,75 kg

| Codice | | € / cad. |
|---|---|---|
| UT0020030000010 | 1 | **1.139,35** |

## Avvitatore pneumatico RACING 340



### Caratteristiche

RACING 340, avvitatore portatile pneumatico ad impulsi, con attacco quadro 3/4", albero corto, senza foro, con anello di ritegno e OR, con maniglia tonda, attacchi in-out standard, con boccola.

- **Capacità bullone:** M14/M24
- **Coppia max:** 1.690 Nm
- **Coppia raccomandata:** 200-1.350 Nm- 1.100 impatti/min - 5.500 giri/min
- **Pressione esercizio:** 6,3 bar
- **Entrata aria:** 3/8" BSP
- **Ø interno tubo alimentazione:** 13 mm
- **Lunghezza:** 227 mm
- **Peso:** 5,2 kg

| Codice | | € / cad. |
|---|---|---|
| UT0020030000340 | 1 | **903,35** |

## Avvitatore pneumatico RACING 120



### Caratteristiche

RACING 120, avvitatore portatile pneumatico ad impulsi, con attacco quadro 1/2", albero corto, senza foro, con anello di ritegno e OR, senza maniglia, attacchi in-out standard, con boccola, con regolazione di potenza.

- **Capacità bullone:** M10/M16
- **Coppia max:** 1.080 Nm
- **Coppia raccomandata:** 946 Nm
- **Entrata aria:** 1/4" BPT - 1.050 impatti/min
- **Pressione esercizio:** 6,3 bar - 8.500 giri/min
- **Ø interno tubo alimentazione:** 8 mm
- **Lunghezza:** 185 mm
- **Peso:** 2,10 kg

| Codice | | € / cad. |
|---|---|---|
| UT0020030000120 | 1 | **271,53** |

## Avvitatore pneumatico COMPACT RACING 120



### Caratteristiche

COMPACT RACING 120, avvitatore portatile pneumatico ad impulsi, ultra compatto, con attacco quadro 1/2", albero corto, senza foro, con anello di ritegno e OR, con comando per cambio direzione e registro di potenza incorporato. Massa battente Jumbo, supporto per operatori mancini.

- **Capacità bullone:** M10/M16
- **Coppia max:** 700 Nm
- **Coppia raccomandata:** 100-600 Nm
- **Entrata aria:** 1/4" NPT- 1.150 impatti/min
- **Pressione esercizio:** 6,3 bar - 9.000 giri/min
- **Ø interno tubo alimentazione:** 8 mm
- **Lunghezza:** 92 mm
- **Peso:** 1,3 kg

| Codice | | € / cad. |
|---|---|---|
| UT0020030000120C | 1 | **276,60** |

## Smerigliatrice pneumatica dritta, 6 mm



### Caratteristiche

- **Velocità libera:** 25.000 giri/min
- **Attacco quadro:** 6 mm / 3 mm
- **Attacco aria:** 1/4" NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 161 mm
- **Peso:** 0,4 kg
- **Potenza:** 0,2 Kw
- **Rumorosità:** 84 dBA
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040100060 | 1 | **113,75** |

## Smerigliatrice pneumatica dritta prolungata, 6 mm



### Caratteristiche

- **Velocità libera:** 25.000 giri/min
- **Attacco quadro:** 6 mm / 3 mm
- **Attacco aria:** 1/4" NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 256 mm
- **Peso:** 0,7 kg
- **Potenza:** 0,2 Kw
- **Rumorosità:** 84 dBA

| Codice | | € / cad. |
|---|---|---|
| UT002004010006P | 1 | **155,50** |

## Smerigliatrice pneumatica angolare, 6 mm



### Caratteristiche

- **Velocità libera:** 20.000 giri/min
- **Attacco quadro:** 6 mm / 3 mm
- **Attacco aria:** 1/4" NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 165 mm
- **Peso:** 0,5 kg
- **Potenza:** 0,2 Kw
- **Rumorosità:** 84 dBA
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT002004010006A | 1 | **149,50** |

## Levigatrice pneumatica orbitale, 5 mm



### Caratteristiche

- **Velocità libera:** 12.000 giri/min
- **Ø orbitale:** 5 mm
- **Ø platorello:** 5 mm
- **Attacco filettato:** 5/16”
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 57 l/min
- **Lunghezza:** 187 mm
- **Peso:** 0,6 kg
- **Rumorosità:** 76 dBA

| Codice | | € / cad. |
|---|---|---|
| UT0020040100050 | 1 | **275,25** |

## Cricchetto pneumatico, attacco 1/2”



### Caratteristiche

- **Velocità libera:** 200 giri/min
- **Coppia massima:** 68 Nm
- **Attacco quadro:** 1/2”
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 265 mm
- **Peso:** 1,1 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040200012 | 1 | **113,75** |

## Trapano pneumatico reversibile, 10 mm




### Caratteristiche

- **Velocità libera:** 2.000 giri/min
- **Capacità mandrino:** 10 mm
- **Attacco filettato:** 3/8”
- **Attacco aria**: 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 195 mm
- **Peso:** 1 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040300010 | 1 | **161,50** |

## Trapano pneumatico reversibile, 13 mm




### Caratteristiche

- **Velocità libera:** 800 giri/min
- **Capacità mandrino:** 13 mm
- **Attacco filettato:** 3/8”
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 219 mm
- **Peso:** 1,3 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040300013 | 1 | **215,25** |

## Trapano pneumatico non reversibile, 10 mm




### Caratteristiche

- **Velocità libera:** 2.200 giri/min
- **Capacità mandrino:** 10 mm
- **Attacco filettato:** 3/8”
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 189 mm
- **Peso:** 1 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040400010 | 1 | **173,50** |

## Trapano pneumatico non reversibile, 13 mm




### Caratteristiche

- **Velocità libera:** 500 giri/min
- **Capacità mandrino:** 13 mm
- **Attacco filettato:** 3/8”
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 228 mm
- **Peso:** 1,5 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040400013 | 1 | **245,25** |

## Martello pneumatico




### Caratteristiche

- **Colpi al minuto:** 2.600
- **Corsa pistone:** 73 mm
- **Ø pistone:** 10,2 mm
- **Attacco aria:** 1/4” NPT
- **Ø interno tubo:** 10 mm
- **Consumo aria:** 113 l/min
- **Lunghezza:** 211 mm
- **Peso:** 2,2 kg
- **Pressione aria raccomandata:** 6,2 bar

| Codice | | € / cad. |
|---|---|---|
| UT0020040500010 | 1 | **233,25** |

## Tubo flessibile in poliammide PA12



### Caratteristiche

Tubo flessibile in poliammide PA12 caratterizzato da alte proprietà meccaniche, buona resistenza al calore, basso assorbimento di acqua, resistenza agli idrocarburi e agli oli ed eccellente inerzia agli agenti chimici. Particolarmente indicato per tutte le applicazioni che richiedono un'alta prestazione meccanica alla trazione e a continue o alternate flessioni, robotica, pneumatica, macchine industriali, ecc. o quando è richiesta un'alta flessibilità, specialmente in applicazioni a freddo. Tolleranza: DIN73378/74324 - ISO7628.

| Codice | Ø interno | Ø esterno | Scoppio 20°C | Esercizio 20°C | Raggio min. curv. | Peso | Colore | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SP000102020040E | 2 mm | 4 mm | 133 bar | 44 bar | 20 mm | 10 gr/mt | neutro | 100 mt | **87,80** |
| SP000102020040B | 2 mm | 4 mm | 133 bar | 44 bar | 20 mm | 10 gr/mt | azzurro | 100 mt | **87,80** |
| SP000102020040N | 2 mm | 4 mm | 133 bar | 44 bar | 20 mm | 10 gr/mt | nero | 100 mt | **87,80** |
| SP000102040060E | 4 mm | 6 mm | 80 bar | 27 bar | 35 mm | 16 gr/mt | neutro | 100 mt | **135,12** |
| SP000102040060B | 4 mm | 6 mm | 80 bar | 27 bar | 35 mm | 16 gr/mt | azzurro | 100 mt | **135,12** |
| SP000102040060N | 4 mm | 6 mm | 80 bar | 27 bar | 35 mm | 16 gr/mt | nero | 100 mt | **135,12** |
| SP000102060080E | 6 mm | 8 mm | 57 bar | 19 bar | 40 mm | 23 gr/mt | neutro | 100 mt | **188,84** |
| SP000102060080B | 6 mm | 8 mm | 57 bar | 19 bar | 40 mm | 23 gr/mt | azzurro | 100 mt | **188,84** |
| SP000102060080N | 6 mm | 8 mm | 57 bar | 19 bar | 40 mm | 23 gr/mt | nero | 100 mt | **188,84** |
| SP000102080010E | 8 mm | 10 mm | 44 bar | 15 bar | 60 mm | 30 gr/mt | neutro | 100 mt | **247,92** |
| SP000102080010B | 8 mm | 10 mm | 44 bar | 15 bar | 60 mm | 30 gr/mt | azzurro | 100 mt | **247,92** |
| SP000102080010N | 8 mm | 10 mm | 44 bar | 15 bar | 60 mm | 30 gr/mt | nero | 100 mt | **247,92** |
| SP000102100012E | 10 mm | 12 mm | 36 bar | 12 bar | 85 mm | 36 gr/mt | neutro | 50 mt | **148,68** |
| SP000102100012B | 10 mm | 12 mm | 36 bar | 12 bar | 85 mm | 36 gr/mt | azzurro | 50 mt | **148,68** |
| SP000102100012N | 10 mm | 12 mm | 36 bar | 12 bar | 85 mm | 36 gr/mt | nero | 50 mt | **148,68** |

## Tubo a spirale in poliammide PA12



### Caratteristiche

Tubo flessibile a spirale in poliammide PA12 caratterizzato da alte proprietà meccaniche, buona resistenza al calore, basso assorbimento di acqua, resistenza agli idrocarburi e agli oli ed eccellente inerzia agli agenti chimici. Particolarmente indicato per tutte le applicazioni che richiedono un'alta prestazione meccanica alla trazione e a continue o alternate flessioni, robotica, pneumatica, macchine industriali, ecc. o quando è richiesta un'alta flessibilità, specialmente in applicazioni a freddo. Tolleranza: DIN73378/74324 - ISO7628.

| Codice | Ø interno | Ø esterno | Press. | Raggio min. curv. | Peso | Lunghezza | Colore | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SP000103060801A | 6 mm | 8 mm | 11 bar | 35 mm | 21,8 gr/mt | 15 mt | arancio | 1 | **35,20** |
| SP000103060803A | 6 mm | 8 mm | 11 bar | 35 mm | 21,8 gr/mt | 30 mt | arancio | 1 | **67,76** |
| SP000103080101A | 8 mm | 10 mm | 11 bar | 55 mm | 28 gr/mt | 15 mt | arancio | 1 | **46,32** |
| SP000103080103A | 8 mm | 10 mm | 11 bar | 55 mm | 28 gr/mt | 30 mt | arancio | 1 | **90,92** |

## Tubo flessibile in poliuretano PU 98 Shore



### Caratteristiche

Tubo flessibile in poliuretano PU 98 Shore. Alta flessibilità anche a basse temperature, eccellente resistenza all'abrasione, resistenza alle intemperie, buon invecchiamento e alta resistenza alla fatica. Particolarmente indicato per applicazioni di tipo pneumatico, oleodinamico, robotica, macchine industriali, etc.. Tolleranza: DIN53453- EN ISO 179.

| Codice | Ø interno | Ø esterno | Scoppio 20°C | Esercizio 20°C | Raggio min. curv. | Peso | Colore | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SP000101020040A | 2 mm | 4 mm | 67 bar | 22 bar | 20 mm | 12 gr/mt | arancio | 100 mt | **54,80** |
| SP000101020040B | 2 mm | 4 mm | 67 bar | 22 bar | 20 mm | 12 gr/mt | azzurro | 100 mt | **54,80** |
| SP000101020040N | 2 mm | 4 mm | 67 bar | 22 bar | 20 mm | 12 gr/mt | nero | 100 mt | **54,80** |
| SP000101040060A | 4 mm | 6 mm | 40 bar | 13 bar | 30 mm | 19 gr/mt | arancio | 100 mt | **91,52** |
| SP000101040060B | 4 mm | 6 mm | 40 bar | 13 bar | 30 mm | 19 gr/mt | azzurro | 100 mt | **91,52** |
| SP000101040060N | 4 mm | 6 mm | 40 bar | 13 bar | 30 mm | 19 gr/mt | nero | 100 mt | **91,52** |

## Tubo flessibile in poliuretano PU 98 Shore

| Codice | Ø interno | Ø esterno | Scoppio 20°C | Esercizio 20°C | Raggio min. curv. | Peso | Colore | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| SP000101060080A | 6 mm | 8 mm | 29 bar | 10 bar | 40 mm | 30 gr/mt | arancio | 100 mt | **128,20** |
| SP000101060080B | 6 mm | 8 mm | 29 bar | 10 bar | 40 mm | 30 gr/mt | azzurro | 100 mt | **128,20** |
| SP000101060080N | 6 mm | 8 mm | 29 bar | 10 bar | 40 mm | 30 gr/mt | nero | 100 mt | **128,20** |
| SP000101080010A | 8 mm | 10 mm | 22 bar | 7 bar | 50 mm | 40 gr/mt | arancio | 100 mt | **164,92** |
| SP000101080010B | 8 mm | 10 mm | 22 bar | 7 bar | 50 mm | 40 gr/mt | azzurro | 100 mt | **164,92** |
| SP000101080010N | 8 mm | 10 mm | 22 bar | 7 bar | 50 mm | 40 gr/mt | nero | 100 mt | **164,92** |
| SP000101090012A | 9 mm | 12 mm | 29 bar | 10 bar | 50 mm | 61 gr/mt | arancio | 50 mt | **144,16** |
| SP000101090012B | 9 mm | 12 mm | 29 bar | 10 bar | 50 mm | 61 gr/mt | azzurro | 50 mt | **144,16** |
| SP000101090012N | 9 mm | 12 mm | 29 bar | 10 bar | 50 mm | 61 gr/mt | nero | 50 mt | **144,16** |

## Tubo a spirale in poliuretano PU 98 Shore, raccordato



### Caratteristiche

Tubo flessibile a spirale in poliuretano PU 98 Shore. Alta flessibilità anche a basse temperature, eccellente resistenza all'abrasione, resistenza alle intemperie, buon invecchiamento e alta resistenza alla fatica. Particolarmente indicato per applicazioni di tipo pneumatico, oleodinamico, robotica, macchine industriali, etc.. In accordo con le norme DIN53453-EN ISO 179.

| Codice | Ø interno | Ø esterno | Attacco | Lunghezza | Colore | | € / cad. |
|---|---|---|---|---|---|---|---|
| SP0001002055805 | 5,5 mm | 8 mm | 1/4" | 5 mt | azzurro | 1 | **33,57** |
| SP0001002055810 | 5,5 mm | 8 mm | 1/4" | 10 mt | azzurro | 1 | **45,70** |
| SP0001002055815 | 5,5 mm | 8 mm | 1/4" | 15 mt | azzurro | 1 | **50,22** |
| SP0001002065110 | 6,5 mm | 10 mm | 1/4" | 10 mt | azzurro | 1 | **54,10** |
| SP0001002065115 | 6,5 mm | 10 mm | 1/4" | 15 mt | azzurro | 1 | **59,05** |
| SP0001002081210 | 8 mm | 12 mm | 3/8" | 10 mt | azzurro | 1 | **72,72** |
| SP0001002081215 | 8 mm | 12 mm | 3/8" | 15 mt | azzurro | 1 | **92,41** |

## Innesto rapido maschio



| Codice | Serie | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SP00010040140IM | standard | 1/4” | 40 mm | 15 bar | aria - olio | 25 gr | 1 | **5,12** |
| SP00010040380IM | standard | 3/8” | 40 mm | 15 bar | aria - olio | 40 gr | 1 | **5,84** |
| SP00010040120IM | standard | 1/2” | 46 mm | 15 bar | aria - olio | 65 gr | 1 | **7,24** |
| SP00010040120IMG | gigante | 1/2” | 47,5 mm | 15 bar | aria - olio | 70 gr | 1 | **15,32** |
| SP00010040340IMG | gigante | 3/4” | 51 mm | 15 bar | aria - olio | 115 gr | 1 | **21,72** |
| SP00010040100IMG | gigante | 1” | 54 mm | 15 bar | aria - olio | 125 gr | 1 | **33,16** |

## Innesto rapido femmina



| Codice | Serie | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SP00010040140IF | standard | 1/4” | 36 mm | 15 bar | aria - olio | 30 gr | 1 | **5,24** |
| SP00010040380IF | standard | 3/8” | 38 mm | 15 bar | aria - olio | 45 gr | 1 | **5,84** |
| SP00010040120IF | standard | 1/2” | 41 mm | 15 bar | aria - olio | 65 gr | 1 | **8,60** |
| SP00010040120IFG | gigante | 1/2” | 41,5 mm | 15 bar | aria - olio | 70 gr | 1 | **15,32** |
| SP00010040340IFG | gigante | 3/4” | 45 mm | 15 bar | aria - olio | 106 gr | 1 | **21,72** |
| SP00010040100IFG | gigante | 1” | 54 mm | 15 bar | aria - olio | 120 gr | 1 | **38,12** |

## Valvola semi-automatica maschio



| Codice | Serie | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| SP00010040140VM | standard | 1/4” | 55,5 mm | 15 bar | aria - olio | 95 gr | 1 | **16,52** |
| SP00010040380VM | standard | 3/8” | 55,5 mm | 15 bar | aria - olio | 100 gr | 1 | **16,96** |
| SP00010040120VM | standard | 1/2” | 55,5 mm | 15 bar | aria - olio | 110 gr | 1 | **20,56** |
| SP00010040120VMG | gigante | 1/2” | 64 mm | 15 bar | aria - olio | 220 gr | 1 | **52,76** |
| SP00010040340VMG | gigante | 3/4” | 65 mm | 15 bar | aria - olio | 240 gr | 1 | **60,92** |
| SP00010040100VMG | gigante | 1” | 67 mm | 15 bar | aria - olio | 250 gr | 1 | **72,08** |

## Valvola semi-automatica femmina



| Codice | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| SP00010040140VF | standard | 1/4” | 50,5 mm | 15 bar | aria - olio | 1 | **16,52** |
| SP00010040380VF | standard | 3/8” | 52,5 mm | 15 bar | aria - olio | 1 | **16,96** |
| SP00010040120VF | standard | 1/2” | 55,5 mm | 15 bar | aria - olio | 1 | **21,40** |
| SP0001004012VFG | gigante | 1/2” | 59 mm | 15 bar | aria - olio | 1 | **52,76** |
| SP0001004034VFG | gigante | 3/4” | 62 mm | 15 bar | aria - olio | 1 | **60,92** |
| SP0001004010VFG | gigante | 1” | 65 mm | 15 bar | aria - olio | 1 | **80,88** |

## Valvola automatica maschio



| Codice | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| SP00010040140AM | 1/4” | 55 mm | 15 bar | aria - olio | 95 gr | 1 | **21,08** |
| SP00010040380AM | 3/8” | 56 mm | 15 bar | aria - olio | 100 gr | 1 | **22,56** |
| SP00010040120AM | 1/2” | 59 mm | 15 bar | aria - olio | 120 gr | 1 | **26,04** |

## Valvola automatica femmina



| Codice | Ø | Lunghezza | Pressione max | Impiego | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| SP00010040140AF | 1/4” | 51 mm | 15 bar | aria - olio | 95 gr | 1 | **21,08** |
| SP00010040380AF | 3/8” | 53 mm | 15 bar | aria - olio | 105 gr | 1 | **22,56** |
| SP00010040120AF | 1/2” | 55 mm | 15 bar | aria - olio | 132 gr | 1 | **26,72** |

## Innesto rapido e valvola



| Codice | Ø tubo | | € / cad. |
|---|---|---|---|
| SP000100406010I | 6 - 10 mm | 1 | **26,04** |
| SP000100408012I | 8 - 12 mm | 1 | **27,44** |
| SP000100401015I | 10 - 12 mm | 1 | **34,56** |
| SP000100406010V | 6 - 10 mm | 1 | **10,68** |
| SP000100408012V | 8 - 12 mm | 1 | **10,68** |
| SP000100401015V | 10 - 12 mm | 1 | **17,00** |


ttake

# 10 UTENSILIMANUALI



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# Legenda simboli


impronta ad intaglio


impronta a croce PHILLIPS


impronta a croce POZIDRIV


impronta esagonale



conforme alla norma DIN ISO standard



cromo vanadio


impronta ad intaglio, giravite isolato


impronta a croce PHILLIPS, giravite isolato



giravite SLIM



isolato fino a 1000 Volt


collaudato VDE



conforme alla norma EN 60900


anelli esterni


anelli interni


tagliente centrale


tagliente con smusso esterno

## 5022 Giravite per viti con intaglio



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità
- Finitura satinata
- Punta nera
- Impugnatura ergonomica tricomponente

| Codice | Misura | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050220402575 | 0,4x2,5x75 mm | 155 mm | 1 | **4,01** |
| UM0050220503080 | 0,5x3x80 mm | 160 mm | 1 | **4,10** |
| UM0050220804100 | 0,8x4x100 mm | 190 mm | 1 | **4,77** |
| UM0050220155125 | 1,0x5,5x125 mm | 225 mm | 1 | **5,18** |
| UM0050221265150 | 1,2x6,5x150 mm | 260 mm | 1 | **6,39** |
| UM0050221208175 | 1,2x8x175 mm | 295 mm | 1 | **8,82** |

## 5022 PH Giravite per viti con impronta a croce PHILLIPS



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità
- Finitura satinata
- Punta nera
- Impugnatura ergonomica tricomponente

| Codice | Misura | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00502200060PH | 0x60 mm | 140 mm | 1 | **4,05** |
| UM00502201080PH | 1x80 mm | 180 mm | 1 | **4,73** |
| UM00502202100PH | 2x100 mm | 210 mm | 1 | **5,99** |
| UM00502203150PH | 3x150 mm | 270 mm | 1 | **8,60** |

## 5022 PZ Giravite per viti con impronta a croce POZIDRIV-SUPADRIV



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità
- Finitura satinata
- Punta nera
- Impugnatura ergonomica tricomponente

| Codice | Misura | ⟷ | | € / cad. |
|---|---|---|---|---|
| UM00502200060PZ | 0x60 mm | 140 mm | 1 | **4,10** |
| UM00502201080PZ | 1x80 mm | 180 mm | 1 | **5,04** |
| UM00502202100PZ | 2x100 mm | 210 mm | 1 | **6,08** |
| UM00502203150PZ | 3x150 mm | 270 mm | 1 | **8,69** |

## 5022 KT07 Serie giraviti per viti con intaglio e con impronta a croce PHILLIPS




### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità
- Finitura satinata
- Punta nera
- Impugnatura ergonomica tricomponente

| Codice | Misura | Pezzi | | € / cad. |
|---|---|---|---|---|
| UM005022000KT07 | 3x80-4x100-5,5x125-6,5x150mm - PH1-PH2-PH3 | 7 | 1 | **43,74** |

## 5022 R Giravite reversibile per viti con intaglio e impronta a croce PHILLIPS e POZIDRIV



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità
- Finitura satinata
- Punta nera
- Impugnatura ergonomica tricomponente

| Codice | Misura | | € / cad. |
|---|---|---|---|
| UM005022000000R | 6 mm (intaglio) - 0-1-2-3 mm (PH-PZ) | 1 | **7,84** |

## 5090 Portainserti magnetico con impugnatura



### Caratteristiche

- Lama esagonale in acciaio al Cromo Vanadio, con porta inserti magnetico
- Finitura satinata
- Impugnatura ergonomica tricomponente

| Codice | Impronta BIT | | € / cad. |
|---|---|---|---|
| UM0050900001463 | 6,3 mm - 1/4” | 1 | **9,18** |

## 5033 KIT1 Set composto da 10 inserti e 1 portainserti magnetico



### Caratteristiche

- Set composto da 10 inserti e 1 portainserti magnetico
- Per viti ad intaglio, impronta a croce PHILLIPS, impronta POZIDRIV e impronta TORX
- Finitura satinata

| Codice | Impronta BIT | Misura | | € / cad. |
|---|---|---|---|---|
| UM005033000KT11 | 6,3 mm - 1/4” | 0,8x5,5-1x6 (intaglio) - PH1-PH2-PH3 (PH) - PZ1-PZ2 (PZ) - TX20-TX25-TX30 (TORX) | 1 | **14,81** |

## 5092 Giravite isolato SLIM per viti con intaglio



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità, con guaina isolante integrata
- Esecuzione fosfatata
- Punta nera
- Impugnatura ergonomica isolante tricomponente
- Isolamento a 1000Volt, collaudato VDE, EN 60900

| Codice | Misura | | | € / cad. |
|---|---|---|---|---|
| UM0050920635100 | 0,6x3,5x100 mm | 155 mm | 1 | **5,76** |
| UM0050920804100 | 0,8x4x100 mm | 190 mm | 1 | **6,08** |
| UM0050920155125 | 1,0x5,5x125 mm | 225 mm | 1 | **6,44** |

## 5092 PH Giravite isolato SLIM per viti con impronta a croce PHILLIPS



### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità, con guaina isolante integrata
- Esecuzione fosfatata
- Punta nera
- Impugnatura ergonomica isolante tricomponente
- Isolamento a 1000Volt, collaudato VDE, EN 60900

| Codice | Misura | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00509201080PH | 1x80 mm | 180 mm | 1 | **6,35** |
| UM00509202100PH | 2x100 mm | 210 mm | 1 | **7,16** |

## 5092 KT05 Serie giraviti isolati SLIM per viti con intaglio e con impronta a croce PHILLIPS




### Caratteristiche

- Lama in acciaio al Cromo Vanadio di qualità, con guaina isolante integrata
- Esecuzione fosfatata
- Punta nera
- Impugnatura ergonomica isolante tricomponente
- Isolamento a 1000Volt, collaudato VDE, EN 60900

| Codice | Misura | Pezzi | 📦 | € / cad. |
|---|---|---|---|---|
| UM005092000KT05 | 3,5x100-4x100-5,5x125mm - PH1-PH2 | 5 | 1 | **36,27** |

## 5021 Giravite cercafase tascabile



### Caratteristiche

- Lama fissa in acciaio temprato
- Impugnatura bicomponente
- Con clip da taschino
- Per tensione 220-250Volt
- Isolamento a 1000Volt, collaudato VDE, EN 0680

| Codice | Misura | | € / cad. |
|---|---|---|---|
| UM0050210531140 | 0,5x31 mm | 1 | **3,44** |

## Pinza universale



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 60 HRC
- Per il taglio di fili metallici a bassa ed alta resistenza
- Taglienti allungati per tagli precisi
- Taglienti con sfaccettatura per un migliore accesso
- Becchi piatti
- Becchi con superficie di contatto zigrinata per la presa di materiale piano e tondo e per tubi filettati
- DIN ISO 5746
- Per impiego universale

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| UM00200100BH160 | bicomponente | 160 mm | 2,5 mm | 1,8 mm | 210 gr | 1 | **21,66** |
| UM00200100PH160 | resina sintetica (pvc) | 160 mm | 2,5 mm | 1,8 mm | 210 gr | 1 | **17,43** |
| UM00200100BH180 | bicomponente | 180 mm | 2,8 mm | 2,5 mm | 265 gr | 1 | **23,00** |
| UM002001000H180 | isolati 1000Volt, collaudati VDE | 180 mm | 2,8 mm | 2,5 mm | 265 gr | 1 | **29,00** |
| UM00200100BH200 | bicomponente | 200 mm | 3,0 mm | 2,8 mm | 325 gr | 1 | **33,99** |
| UM00200100PH200 | resina sintetica (pvc) | 200 mm | 3,0 mm | 2,8 mm | 325 gr | 1 | **25,02** |
| UM002001000H200 | isolati 1000Volt, collaudati VDE | 200 mm | 3,0 mm | 2,8 mm | 325 gr | 1 | **33,99** |

## Pinza universale con molla



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 64 HRC
- Per il taglio di fili metallici a bassa ed alta resistenza
- Taglienti allungati per tagli precisi
- Taglienti con sfaccettatura per un migliore accesso
- Becchi piatti
- Becchi con 4 punti di contatto per una presa più sicura
- Con molla
- DIN ISO 574
- Articolazione forgiata ed elevato rapporto di trasmissione per uno sforzo ridotto del 20%
- Per impieghi gravosi e prolungati

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|
| UM002003000B180 | bicomponente | 180 mm | 2,8 mm | 2,5 mm | 265 gr | 1 | **24,03** |
| UM00200300PH180 | resina sintetica (pvc) | 180 mm | 2,8 mm | 2,5 mm | 265 gr | 1 | **21,32** |

## Pinza universale per filo armonico



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 64 HRC
- Per il taglio di fili metallici a bassa resistenza e filo armonico
- Rapporti di leva ottimizzati per garantire uno sforzo ridotto del 40%
- Taglienti di precisione extra lunghi, con sfaccettatura per un migliore accesso
- Becchi con superficie di contatto zigrinata per la presa di materiale piano e tondo e per tubi filettati
- Ulteriore zona di presa zigrinata sotto lo snodo
- DIN ISO 5746
- Per impiego universale

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Ø filo 2000 N/mm | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM002002000B200 | bicomponente | 200 mm | 3,8 mm | 2,7 mm | 2,3 mm | 325 gr | 1 | **29,69** |

## Pinza per meccanica a becchi mezzotondi diritti e tronchese



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 60 HRC
- Becchi mezzotondi diritti, lunghi, con interni zigrinati e tronchese
- DIN ISO 5745
- Per lavori di precisione e taglio di fili

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| UM00100100LB160 | bicomponente | 160 mm | 2,5 mm | 1,6 mm | 145 gr | 1 | **20,29** |
| UM00100100LV160 | isolati 1000Volt, collaudati VDE | 160 mm | 2,5 mm | 1,6 mm | 145 gr | 1 | **30,29** |
| UM00100100LB200 | bicomponente | 200 mm | 2,8 mm | 1,8 mm | 190 gr | 1 | **26,46** |

## Pinza per meccanica a becchi mezzotondi piegati e tronchese



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 60 HRC
- Becchi mezzotondi piegati a 40°, lunghi, con interni zigrinati e tronchese
- DIN ISO 5745
- Per lavori di precisione e taglio di fili, con ottima visuale dello spazio di lavoro

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|
| UM001002000L451 | bicomponente | 160 mm | 2,5 mm | 1,6 mm | 145 gr | 1 | **23,44** |
| UM00100200LV451 | isolati 1000Volt, collaudati VDE | 160 mm | 2,5 mm | 1,6 mm | 145 gr | 1 | **32,31** |
| UM001002000L452 | bicomponente | 200 mm | 2,8 mm | 1,8 mm | 190 gr | 1 | **31,02** |

## Pinza per meccanica, a becchi lunghi



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Becchi lunghi, piatti, con interni zigrinati
- DIN ISO 5745
- Per lavori di presa e montaggio in spazi ristretti

| Codice | Manici | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM001003000L160 | bicomponente | 160 mm | 145 gr | 1 | **20,79** |

## Pinza per anelli di sicurezza esterni



### Caratteristiche

- Testa bonderizzata nera
- Per il montaggio di anelli di sicurezza esterni (DIN 471 e DIN 983) su alberi da Ø 3 – 140mm
- Punte diritte, resistenti, antiscivolo
- Molla di apertura
- Forma robusta, forgiata
- DIN ISO 5254 A

| Codice | Manici | ⟷ | Ø Albero | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0030010SE0310 | resina sintetica (pvc) | 135 mm | 3-10 mm | 85 gr | 1 | **23,89** |
| UM0030010SE1025 | resina sintetica (pvc) | 135 mm | 10-25 mm | 85 gr | 1 | **20,16** |
| UM0030010SE1960 | resina sintetica (pvc) | 180 mm | 19-60 mm | 185 gr | 1 | **20,27** |
| UM0030010SE4010 | resina sintetica (pvc) | 225 mm | 40-100 mm | 240 gr | 1 | **25,57** |
| UM0030010SE8514 | resina sintetica (pvc) | 320 mm | 85-140 mm | 470 gr | 1 | **39,85** |

## Pinza per anelli sicurezza esterni, becchi piegati



### Caratteristiche

- Testa bonderizzata nera
- Per il montaggio di anelli di sicurezza esterni (DIN 471 e DIN 983) su alberi da Ø 3 – 140mm
- Punte piegate a 90°, resistenti, antiscivolo
- Molla di apertura
- Forma robusta, forgiata
- DIN ISO 5254 B

| Codice | Manici | ⟷ | Ø Albero | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0030010EP0310 | resina sintetica (pvc) | 135 mm | 3-10 mm | 85 gr | 1 | **22,55** |
| UM0030010EP1025 | resina sintetica (pvc) | 135 mm | 10-25 mm | 85 gr | 1 | **20,37** |
| UM0030010EP1960 | resina sintetica (pvc) | 180 mm | 19-60 mm | 185 gr | 1 | **21,95** |
| UM0030010EP4010 | resina sintetica (pvc) | 225 mm | 40-100 mm | 250 gr | 1 | **26,93** |
| UM0030010EP8514 | resina sintetica (pvc) | 320 mm | 85-140 mm | 470 gr | 1 | **41,29** |

## Pinza per anelli di sicurezza interni



### Caratteristiche

- Testa bonderizzata nera
- Per il montaggio di anelli di sicurezza interni (DIN 471 e DIN 983) per fori da Ø 8 – 140mm
- Punte diritte, resistenti, antiscivolo
- Forma robusta, forgiata
- DIN ISO 5256 C

| Codice | Manici | ⟷ | Ø Foro | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0030020SI0813 | resina sintetica (pvc) | 135 mm | 8-13 mm | 85 gr | 1 | **17,33** |
| UM0030020SI1025 | resina sintetica (pvc) | 135 mm | 12-25 mm | 85 gr | 1 | **17,54** |
| UM0030020SI1960 | resina sintetica (pvc) | 180 mm | 19-60 mm | 185 gr | 1 | **19,19** |
| UM0030020SI4010 | resina sintetica (pvc) | 225 mm | 40-100 mm | 240 gr | 1 | **23,89** |
| UM0030020SI8514 | resina sintetica (pvc) | 320 mm | 85-140 mm | 470 gr | 1 | **36,28** |

## Pinza per anelli sicurezza interni, becchi piegati



### Caratteristiche

- Testa bonderizzata nera
- Per il montaggio di anelli di sicurezza interni (DIN 471 e DIN 983) per fori da Ø 8 – 140mm
- Punte piegate a 90°, resistenti, antiscivolo
- Forma robusta, forgiata
- DIN ISO 5256 D

| Codice | Manici | ⟷ | Ø Foro | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0030020IP0813 | resina sintetica (pvc) | 135 mm | 8-13 mm | 85 gr | 1 | **18,90** |
| UM0030020IP1025 | resina sintetica (pvc) | 135 mm | 12-25 mm | 85 gr | 1 | **19,40** |
| UM0030020IP1960 | resina sintetica (pvc) | 180 mm | 19-60 mm | 185 gr | 1 | **21,05** |
| UM0030020IP4010 | resina sintetica (pvc) | 225 mm | 40-100 mm | 240 gr | 1 | **26,75** |
| UM0030020IP8514 | resina sintetica (pvc) | 320 mm | 85-140 mm | 470 gr | 1 | **37,12** |

## Tronchese laterale per meccanica



### Caratteristiche

- Manici ergonomici, rivestiti in materiale bicomponente, isolati a 1000 Volt, collaudati VDE
- Testa cromata
- Taglienti durezza 62 HRC
- Tagliente preciso per il taglio sicuro di fili metallici a bassa ed alta resistenza
- DIN ISO 5749
- Per impiego universale

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 160 N/mm | Ø filo 2000 N/mm | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM00500100D0160 | isolati 1000Volt, collaudati VDE | 160 mm | 3,0 mm | 2,3 mm | 1,6 mm | 220 gr | 1 | **32,92** |

## Tronchese laterale per meccanica - tipo forte



### Caratteristiche

- Manici ergonomici
- Testa bonderizzata nera
- Taglienti durezza 64 HRC
- Per il taglio di fili metallici a bassa resistenza e filo armonico
- Articolazione forgiata ed elevato rapporto di trasmissione per uno sforzo ridotto del 20%
- Con molla di apertura
- DIN ISO 5749
- Punte taglienti resistenti per utilizzi gravosi e duraturi

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 160 N/mm | Ø filo 2000 N/mm | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM0050020MB0160 | bicomponente | 160 mm | 3,5 mm | 2,5 mm | 2,0 mm | 190 gr | 1 | **33,38** |
| UM0050020MF0160 | resina sintetica (pvc) | 160 mm | 3,5 mm | 2,5 mm | 2,0 mm | 190 gr | 1 | **27,48** |
| UM00500200F0160 | isolati 1000Volt, collaudati VDE | 160 mm | 3,5 mm | 2,5 mm | 2,0 mm | 190 gr | 1 | **40,35** |
| UM0050020MB0200 | bicomponente | 200 mm | 4,2 mm | 3,0 mm | 2,5 mm | 265 gr | 1 | **41,49** |
| UM0050020MF0200 | resina sintetica (pvc) | 200 mm | 4,2 mm | 3,0 mm | 2,5 mm | 265 gr | 1 | **34,87** |

## Tronchese a doppia leva



### Caratteristiche

- Manici ergonomici
- Snodo innovativo e duraturo con doppia leva di precisione assistita
- Testa bonderizzata nera
- Taglienti durezza 64 HRC
- Tagliente robusto e duraturo per il taglio sicuro e preciso di fili metallici a bassa ed alta resistenza e per filo armonico
- Molla e fermo di chiusura integrati per lavori con una sola mano
- Sforzo ridotto del 60% rispetto ai tronchesi tradizionali
- DIN ISO 5743

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 160 N/mm | Ø filo 2000 N/mm | Peso | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM00500300B0200 | bicomponente | 200 mm | 5,2 mm | 4,0 mm | 3,6 mm | 380 gr | 1 | **56,75** |

## Tagliacavi con molla



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Taglienti durezza 52 HRC
- Taglienti rettificati per il taglio morbido e preciso di cavi di rame e alluminio
- Non utilizzabile per cavi in rame trafilati a freddo e fili di acciaio
- Articolazione forgiata a vite, regolabile
- DIN ISO 5746
- Molla di ritorno e fermo di arresto integrati per lavori con una sola mano

| Codice | Manici | ⟷ | Capacità taglio | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM00500400M0200 | bicomponente | 210 mm | Ø 25mm / 70 mm² | 380 gr | 1 | **64,00** |

## Pinza spellafili



### Caratteristiche

- Manici ergonomici
- Testa pulita
- Per conduttori unipolari, a più fili, a fili sottili con isolamento in resina sintetica o gomma
- Ø massimo cavi 5mm, sezione 10 mm²
- Molla, vite di regolazione zigrinata e controdado posizionati all'interno
- DIN ISO 5744

| Codice | Manici | ⟷ | Capacità taglio | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM00500500M0160 | bicomponente | 160 mm | Ø 5mm / 10 mm² | 165 gr | 1 | **29,87** |

## Pinza spellafili automatica



### Caratteristiche

- Regolazione automatica
- Per l'incisione della guaina dei cavi in materiale plastico

| Codice | Ø filo | ⟷ | Peso | | € / cad. |
|---|---|---|---|---|---|
| UM00500500A0170 | 0,2 ÷ 6 mm | 170 mm | 140 gr | 1 | **27,19** |

## Pinza per capicorda isolati



### Caratteristiche

- Corpo in lamiera di acciaio tranciato
- Esecuzione brunita
- Manici rivestiti in pvc tipo leggero
- Per capicorda isolati

| Codice | Capicorda | ⟷ | Peso | | € / cad. |
|---|---|---|---|---|---|
| UM0040040015106 | 1,5 ÷ 6 mmq | 210 mm | 200 gr | 1 | **5,80** |

## Pinza a fustella



### Caratteristiche

- Testa cromata, lucida
- Fustelle intercambiabili Ø 2 – 2.5 – 3 – 3.5 – 4 – 4.5 mm
- Molla di ritorno
- Autobloccante
- Corpo in acciaio speciale temperato ad olio
- Finestra di lettura della misura della fustella scelta
- Per punzonare fori su cuoio, tessuto e materiale sintetico

| Codice | Manici | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM00400300F0220 | resina sintetica (pvc) | 220 mm | 325 gr | 1 | **22,31** |

## Pinza regolabile autobloccante con ganasce concave



### Caratteristiche

- Esecuzione nichelata
- Presa sicura di materiale tondo, piatto e sagomato
- Per alta sollecitazione
- Vite di regolazione e leva interna di rilascio a scatto
- Corpo in acciaio laminato temperato ad olio
- Ganasce in acciaio al cromo vanadio, forgiato
- DIN ISO 5743

| Codice | Manici | ⟷ | Apertura ganasce | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM00400100A0180 | non rivestiti | 180 mm | 30 mm | 355 gr | 1 | **24,81** |
| UM00400100A0250 | non rivestiti | 250 mm | 50 mm | 545 gr | 1 | **26,33** |
| UM00400100A0300 | non rivestiti | 300 mm | 60 mm | 900 gr | 1 | **46,46** |

## Pinza regolabile autobloccante con ganasce a collo di cigno



### Caratteristiche

- Esecuzione nichelata
- Presa sicura di materiale piatto e sagomato
- Per alta sollecitazione
- Vite di regolazione e leva interna di rilascio a scatto
- Corpo in acciaio laminato temperato ad olio
- Ganasce in acciaio al cromo vanadio, forgiate e stampate a caldo
- DIN ISO 5743
- Per il serraggio di pezzi e profili voluminosi con spessore fino a 40mm

| Codice | Manici | ⟷ | Apertura ganasce | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM00400200A0280 | non rivestiti | 280 mm | 90 mm | 693 gr | 1 | **40,69** |

## Tenaglia per cementisti



### Caratteristiche

- Esecuzione bonderizzata nera
- Rapida torsione e taglio del filo, in una sola operazione
- Durezza taglienti 61 HRC
- Taglienti ulteriormente temperati
- Ampie impugnature lisce per una facile torsione della mano
- Elevata resistenza all'usura
- Acciaio speciale bonificato, forgiato, temperato ad olio
- DIN ISO 9242

| Codice | Manici | ⟷ | Ø filo 800 N/mm | Ø filo 1600 N/mm | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|
| UM0070010010220 | non rivestiti | 220 mm | 3,2 | 1,8 | 345 gr | 1 | **17,22** |
| UM0070010010250 | non rivestiti | 250 mm | 3,5 | 2,0 | 445 gr | 1 | **18,61** |
| UM0070010010280 | non rivestiti | 280 mm | 3,5 | 2,2 | 455 gr | 1 | **20,29** |

## Troncabulloni



### Caratteristiche

- Testa intercambiabile bonderizzata nera
- Manici a leva con angolazione ergonomica, in acciaio tubolare
- Capacità di taglio fino a durezza 44 HRC
- Taglienti robusti ulteriormente temperati ad induzione
- Durezza taglienti 62 HRC
- Impugnature robuste e maneggevoli
- Battuta forgiata con inserto ammortizzato
- Lama in acciaio al cromo vanadio ad alte prestazioni
- Lame facilmente regolabili singolarmente
- DIN ISO 5743

| Codice | Manici | ⟷ | Capacità taglio | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0070020020460 | resina sintetica (pvc) | 460 mm | 8 -7 - 5 mm | 1670 gr | 1 | **90,41** |
| UM0070020020620 | resina sintetica (pvc) | 620 mm | 9 - 8 -7 mm | 2370 gr | 1 | **106,58** |
| UM0070020020780 | resina sintetica (pvc) | 780 mm | 11 - 9 -8 mm | 4570 gr | 1 | **149,84** |
| UM0070020020900 | resina sintetica (pvc) | 900 mm | 13 - 11 - 9 mm | 4980 gr | 1 | **205,93** |

## Testa e viti ricambio per troncabulloni




| Codice | ⟷ | 📦 | € / cad. |
|---|---|---|---|
| UM007002002090R | 900 mm | 1 | **104,88** |
| UM007002002078R | 780 mm | 1 | **98,49** |
| UM007002002062R | 620 mm | 1 | **66,22** |
| UM007002002046R | 460 mm | 1 | **51,67** |

## Bulloni e viti ricambio per troncabulloni



| Codice | ⟷ | 📦 | € / cad. |
|---|---|---|---|
| UM00700202046R2 | 460 mm | 1 | **17,72** |
| UM00700202062R2 | 620 mm | 1 | **19,69** |
| UM00700202078R2 | 780 mm | 1 | **21,66** |
| UM00700202090R2 | 900 mm | 1 | **23,63** |

## 5048 Tagliacavo in acciaio speciale



### Caratteristiche

- Testa lucida
- Impugnatura isolata
- Per taglio cavi di rame e alluminio

| Codice | ⟷ | Capacità taglio Ø | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050480100600 | 600 mm | 120 mm | 250 gr | 1 | **120,17** |
| UM0050480100900 | 900 mm | 240 mm | 490 gr | 1 | **139,49** |

## 7003 Cesoia modello Italia



### Caratteristiche

- Lame in acciaio al carbonio
- Impugnatura plastificata
- Esecuzione brunita

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0070030010022 | 220 mm | 350 gr | 1 | **16,31** |
| UM0070030010024 | 240 mm | 460 gr | 1 | **17,76** |
| UM0070030010026 | 260 mm | 485 gr | 1 | **18,49** |
| UM0070030010028 | 280 mm | 685 gr | 1 | **23,20** |

## 7004 Cesoia a doppia leva, tagliente diritto



### Caratteristiche

- Lame in acciaio al carbonio
- Taglio diritto - Impugnatura plastificata
- Esecuzione brunita
- Per taglio lamiere

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM007004001250D | 250 mm | 480 gr | 1 | **19,94** |

## 7004 Cesoia a doppia leva, tagliente sinistro



### Caratteristiche

- Lame in acciaio al carbonio
- Taglio sinistro - Impugnatura plastificata
- Esecuzione brunita
- Per taglio lamiere

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM00700400125SX | 250 mm | 480 gr | 1 | **19,94** |

## 7004 Cesoia a doppia leva, tagliente destro



### Caratteristiche

- Lame in acciaio al carbonio
- Taglio destro
- Impugnatura plastificata
- Esecuzione brunita
- Per taglio lamiere

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM00700400125DX | 250 mm | 480 gr | 1 | **19,94** |

## 7004 Cesoia a doppia leva, tagliente passante sinistro



### Caratteristiche

- Lame in acciaio al carbonio
- Taglio passante sinistro
- Impugnatura plastificata
- Esecuzione brunita
- Per taglio lamiere

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM00700400126PS | 260 mm | 550 gr | 1 | **27,19** |

## 7004 Cesoia a doppia leva, tagliente passante destro



### Caratteristiche

- Lame in acciaio al carbonio
- Taglio passante destro
- Impugnatura plastificata
- Esecuzione brunita
- Per taglio lamiere

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM00700400126PD | 260 mm | 550 gr | 1 | **27,19** |

## 6082 Q Chiave a settore con nasello quadro




### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM006082002528Q | 25x28 mm | 136 mm | 50 gr | 1 | **8,54** |
| UM006082003032Q | 30x32 mm | 136 mm | 50 gr | 1 | **8,54** |
| UM006082003436Q | 34x36 mm | 170 mm | 95 gr | 1 | **11,88** |
| UM006082004042Q | 40x42 mm | 170 mm | 95 gr | 1 | **11,88** |
| UM006082004550Q | 45x50 mm | 205 mm | 150 gr | 1 | **14,53** |
| UM006082005255Q | 52x55 mm | 205 mm | 150 gr | 1 | **14,53** |
| UM006082005862Q | 58x62 mm | 240 mm | 220 gr | 1 | **17,46** |
| UM006082006875Q | 68x75 mm | 240 mm | 220 gr | 1 | **17,46** |
| UM006082008090Q | 80x90 mm | 280 mm | 370 gr | 1 | **21,66** |
| UM006082098100Q | 98x100 mm | 280 mm | 370 gr | 1 | **21,66** |
| UM006082011115Q | 110x115 mm | 320 mm | 740 gr | 1 | **33,58** |
| UM006082012130Q | 120x130 mm | 320 mm | 740 gr | 1 | **33,58** |

## 6082 T Chiave a settore con nasello tondo



### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM006082002528T | 25x28 mm | 136 mm | 50 gr | 1 | **9,75** |
| UM006082003032T | 30x32 mm | 136 mm | 50 gr | 1 | **9,75** |
| UM006082003436T | 34x36 mm | 170 mm | 95 gr | 1 | **13,47** |
| UM006082004042T | 40x42 mm | 170 mm | 95 gr | 1 | **13,47** |
| UM006082004550T | 45x50 mm | 205 mm | 150 gr | 1 | **16,39** |
| UM006082005255T | 52x55 mm | 205 mm | 150 gr | 1 | **16,39** |
| UM006082005862T | 58x62 mm | 240 mm | 220 gr | 1 | **18,98** |
| UM006082006875T | 68x75 mm | 240 mm | 220 gr | 1 | **18,98** |
| UM006082008090T | 80x90 mm | 280 mm | 370 gr | 1 | **24,14** |
| UM006082098100T | 98x100 mm | 280 mm | 370 gr | 1 | **24,14** |
| UM006082011115T | 110x115 mm | 320 mm | 740 gr | 1 | **37,09** |
| UM006082012130T | 120x130 mm | 320 mm | 740 gr | 1 | **37,09** |

## 6082 SQ Chiave a settore snodata con nasello quadro




### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | ⟷ | | € / cad. |
|---|---|---|---|---|
| UM00608201535SQ | 15x35 mm | 170 mm | 1 | **28,38** |
| UM00608203550SQ | 35x50 mm | 210 mm | 1 | **34,44** |
| UM00608205080SQ | 50x80 mm | 280 mm | 1 | **47,04** |
| UM00608208012SQ | 80x120 mm | 345 mm | 1 | **66,81** |
| UM00608201280SQ | 120x180 mm | 475 mm | 1 | **89,81** |

## 6082 ST Chiave a settore snodata con nasello tondo




### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | ø | ⟷ | | € / cad. |
|---|---|---|---|---|---|
| UM00608201535ST | 15x35 mm | 3 mm | 170 mm | 1 | **31,96** |
| UM00608203550ST | 35x50 mm | 4 mm | 210 mm | 1 | **40,91** |
| UM00608205080ST | 50x80 mm | 5 mm | 280 mm | 1 | **52,52** |
| UM00608208012ST | 80x120 mm | 6 mm | 345 mm | 1 | **74,35** |
| UM00608201280ST | 120x180 mm | 8 mm | 475 mm | 1 | **101,76** |

## 6085 Chiave combinata tipo corto



### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata
- Testa inclinata e piegata a 15°

| Codice | Misura | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0060850100006 | 6 mm | 105 mm | 15 gr | 1 | **3,25** |
| UM0060850100007 | 7 mm | 110 mm | 19 gr | 1 | **3,33** |
| UM0060850100008 | 8 mm | 120 mm | 25 gr | 1 | **3,42** |
| UM0060850100009 | 9 mm | 125 mm | 30 gr | 1 | **3,53** |
| UM0060850100010 | 10 mm | 135 mm | 40 gr | 1 | **3,98** |
| UM0060850100011 | 11 mm | 145 mm | 45 gr | 1 | **4,13** |
| UM0060850100012 | 12 mm | 155 mm | 58 gr | 1 | **4,25** |
| UM0060850100013 | 13 mm | 165 mm | 75 gr | 1 | **4,31** |
| UM0060850100014 | 14 mm | 175 mm | 85 gr | 1 | **4,75** |
| UM0060850100015 | 15 mm | 185 mm | 100 gr | 1 | **5,24** |
| UM0060850100016 | 16 mm | 185 mm | 100 gr | 1 | **5,53** |
| UM0060850100017 | 17 mm | 205 mm | 125 gr | 1 | **5,92** |
| UM0060850100018 | 18 mm | 205 mm | 125 gr | 1 | **6,35** |
| UM0060850100019 | 19 mm | 230 mm | 160 gr | 1 | **6,47** |
| UM0060850100020 | 20 mm | 230 mm | 160 gr | 1 | **7,09** |
| UM0060850100021 | 21 mm | 250 mm | 195 gr | 1 | **7,52** |
| UM0060850100022 | 22 mm | 250 mm | 195 gr | 1 | **7,76** |
| UM0060850100023 | 23 mm | 270 mm | 275 gr | 1 | **8,50** |
| UM0060850100024 | 24 mm | 270 mm | 275 gr | 1 | **9,31** |
| UM0060850100025 | 25 mm | 290 mm | 250 gr | 1 | **9,68** |
| UM0060850100026 | 26 mm | 290 mm | 350 gr | 1 | **10,17** |
| UM0060850100027 | 27 mm | 310 mm | 420 gr | 1 | **10,66** |
| UM0060850100028 | 28 mm | 310 mm | 420 gr | 1 | **11,46** |
| UM0060850100029 | 29 mm | 330 mm | 495 gr | 1 | **12,02** |
| UM0060850100030 | 30 mm | 330 mm | 495 gr | 1 | **13,06** |
| UM0060850100032 | 32 mm | 360 mm | 575 gr | 1 | **14,36** |

## 6052 Chiave a forchetta doppia



### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | ⟷ | Peso | | € / cad. |
|---|---|---|---|---|---|
| UM0060520100607 | 6x7 mm | 120 mm | 20 gr | 1 | **2,38** |
| UM0060520100709 | 8x9 mm | 135 mm | 30 gr | 1 | **2,38** |
| UM0060520101011 | 10x11 mm | 150 mm | 50 gr | 1 | **2,54** |
| UM0060520101213 | 12x13 mm | 165 mm | 70 gr | 1 | **3,00** |
| UM0060520101415 | 14x15 mm | 180 mm | 95 gr | 1 | **3,53** |
| UM0060520101617 | 16x17 mm | 195 mm | 125 gr | 1 | **4,12** |
| UM0060520101819 | 18x19 mm | 210 mm | 160 gr | 1 | **4,76** |
| UM0060520102022 | 20x22 mm | 225 mm | 195 gr | 1 | **7,65** |
| UM0060520102123 | 21x23 mm | 240 mm | 220 gr | 1 | **7,89** |
| UM0060520102426 | 24x26 mm | 260 mm | 300 gr | 1 | **9,32** |
| UM0060520102427 | 24x27 mm | 260 mm | 300 gr | 1 | **10,35** |
| UM0060520102528 | 25x28 mm | 280 mm | 350 gr | 1 | **9,66** |
| UM0060520102729 | 27x29 mm | 280 mm | 355 gr | 1 | **12,16** |
| UM0060520103032 | 30x32 mm | 300 mm | 450 gr | 1 | **12,16** |

## 6072 Chiave a croce per smontaggio ruote



### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata

| Codice | Misura | | € / cad. |
|---|---|---|---|
| UM0060720171922 | 17x19x22x13/16 mm | 1 | **89,81** |

## 6080 Chiavi maschio esagonale piegate



### Caratteristiche

- Acciaio speciale al Cromo Vanadio
- Esecuzione nichelata
- Per viti con esagono incassato
- Tipo corto

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0060800000015 | 1,5 mm | 45 mm | 1 | **0,44** |
| UM0060800000020 | 2 mm | 50 mm | 1 | **0,44** |
| UM0060800000025 | 2,5 mm | 56 mm | 1 | **0,44** |
| UM0060800000030 | 3 mm | 63 mm | 1 | **0,63** |
| UM0060800000035 | 3,5 mm | 66 mm | 1 | **0,63** |
| UM0060800000040 | 4 mm | 70 mm | 1 | **0,75** |
| UM0060800000045 | 4,5 mm | 75 mm | 1 | **0,85** |
| UM0060800000050 | 5 mm | 80 mm | 1 | **0,90** |
| UM0060800000060 | 6 mm | 90 mm | 1 | **1,35** |
| UM0060800000070 | 7 mm | 95 mm | 1 | **1,55** |
| UM0060800000080 | 8 mm | 100 mm | 1 | **2,05** |
| UM0060800000090 | 9 mm | 105 mm | 1 | **2,70** |
| UM0060800000100 | 10 mm | 112 mm | 1 | **3,38** |
| UM0060800000120 | 12 mm | 125 mm | 1 | **4,89** |
| UM0060800000130 | 13 mm | 132 mm | 1 | **6,88** |
| UM0060800000140 | 14 mm | 140 mm | 1 | **6,93** |
| UM0060800000170 | 17 mm | 160 mm | 1 | **10,78** |
| UM0060800000190 | 19 mm | 180 mm | 1 | **14,92** |
| UM0060800000220 | 22 mm | 200 mm | 1 | **23,13** |

## 6080/P Chiavi maschio esagonale piegate, misure in pollici



### Caratteristiche

- Acciaio speciale al Cromo Vanadio
- Esecuzione nichelata
- Per viti con esagono incassato
- Tipo corto

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM006080000116P | 1/16” | 45 mm | 1 | **0,45** |
| UM006080000564P | 5/64” | 50 mm | 1 | **0,45** |
| UM006080000332P | 3/32” | 56 mm | 1 | **0,55** |
| UM006080000764P | 7/64” | 57 mm | 1 | **0,55** |
| UM006080000180P | 1/8” | 63 mm | 1 | **0,55** |
| UM006080000964P | 9/64” | 64 mm | 1 | **0,65** |
| UM006080000532P | 5/32” | 70 mm | 1 | **0,85** |
| UM006080000316P | 3/16” | 80 mm | 1 | **1,30** |
| UM006080000732P | 7/32” | 85 mm | 1 | **1,55** |
| UM006080000140P | 1/4” | 90 mm | 1 | **1,55** |
| UM006080000516P | 5/16” | 100 mm | 1 | **2,80** |
| UM006080000380P | 3/8” | 105 mm | 1 | **3,50** |
| UM006080000120P | 1/2” | 132 mm | 1 | **6,30** |

## 5028 KT07 Serie chiavi maschio esagonale piegate, con impugnatura



### Caratteristiche

- Acciaio speciale al Cromo Vanadio
- Finitura satinata
- Punta nera
- Per viti con esagono incassato
- Impugnatura ergonomica in materiale bicomponente

| Codice | ⬡ | Pezzi | 📦 | € / cad. |
|---|---|---|---|---|
| UM005028000KT07 | 2,5-3-4-5-6-8-10 mm | 7 | 1 | **22,07** |

## 5028 KT09 Serie chiavi maschio esagonale piegate, con testa sferica



### Caratteristiche

- Acciaio speciale al Cromo Vanadio
- Esecuzione brunita
- Testa sferica
- Per viti con esagono incassato
- Consentono operazioni con inclinazioni fino a 25° rispetto all'asse della vite
- Supporto in plastica

| Codice | ⬡ | Pezzi | 📦 | € / cad. |
|---|---|---|---|---|
| UM005028000KT09 | 1,5-2-2,5-3-4-5-6-8-10 mm | 9 | 1 | **22,80** |

## 5035 1/4 E Chiave a bussola con bocca esagonale, attacco 1/4”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ⬡ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050350014O4E | 4 mm | 10 gr | 1 | **1,50** |
| UM0050350014O5E | 4,5 mm | 11 gr | 1 | **1,50** |
| UM0050350014O5E | 5 mm | 11 gr | 1 | **1,50** |
| UM0050350014O5E | 5,5 mm | 12 gr | 1 | **1,50** |
| UM0050350014O6E | 6 mm | 12 gr | 1 | **1,50** |
| UM0050350014O7E | 7 mm | 12 gr | 1 | **1,50** |
| UM0050350014O8E | 8 mm | 12 gr | 1 | **1,50** |
| UM0050350014O9E | 9 mm | 14 gr | 1 | **1,50** |
| UM0050350014I0E | 10 mm | 14 gr | 1 | **1,50** |
| UM0050350014I1E | 11 mm | 20 gr | 1 | **1,50** |
| UM0050350014I2E | 12 mm | 22 gr | 1 | **1,60** |
| UM0050350014I3E | 13 mm | 25 gr | 1 | **1,80** |
| UM0050350014I4E | 14 mm | 28 gr | 1 | **1,80** |

## 5035 3/8 P Chiave a bussola con bocca poligonale, attacco 3/8”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ◯ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050350038O6P | 6 mm | 20 gr | 1 | **2,30** |
| UM0050350038O7P | 7 mm | 21 gr | 1 | **2,30** |
| UM0050350038O8P | 8 mm | 22 gr | 1 | **2,30** |
| UM0050350038O9P | 9 mm | 23 gr | 1 | **2,30** |

## 5035 3/8 P Chiave a bussola con bocca poligonale, attacco 3/8”

| Codice | ◯ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005035003810P | 10 mm | 23,5 gr | 1 | **2,40** |
| UM005035003811P | 11 mm | 24 gr | 1 | **2,40** |
| UM005035003812P | 12 mm | 25 gr | 1 | **2,40** |
| UM005035003813P | 13 mm | 29 gr | 1 | **2,60** |
| UM005035003814P | 14 mm | 33 gr | 1 | **2,70** |
| UM005035003815P | 15 mm | 44 gr | 1 | **3,20** |
| UM005035003816P | 16 mm | 45 gr | 1 | **3,30** |
| UM005035003817P | 17 mm | 50 gr | 1 | **3,40** |
| UM005035003818P | 18 mm | 55 gr | 1 | **3,50** |
| UM005035003819P | 19 mm | 58 gr | 1 | **3,50** |
| UM005035003820P | 20 mm | 59 gr | 1 | **3,60** |
| UM005035003821P | 21 mm | 63 gr | 1 | **3,60** |
| UM005035003822P | 22 mm | 79 gr | 1 | **3,70** |

## 5035 1/2 P Chiave a bussola con bocca poligonale, attacco 1/2”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ◯ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005035001208P | 8 mm | 35 gr | 1 | **3,50** |
| UM005035001209P | 9 mm | 40 gr | 1 | **3,50** |
| UM005035001210P | 10 mm | 50 gr | 1 | **3,50** |
| UM005035001211P | 11 mm | 55 gr | 1 | **3,50** |
| UM005035001212P | 12 mm | 60 gr | 1 | **3,50** |
| UM005035001213P | 13 mm | 62 gr | 1 | **3,50** |
| UM005035001214P | 14 mm | 65 gr | 1 | **3,50** |
| UM005035001215P | 15 mm | 68 gr | 1 | **3,50** |
| UM005035001216P | 16 mm | 70 gr | 1 | **3,50** |
| UM005035001217P | 17 mm | 73 gr | 1 | **4,20** |
| UM005035001218P | 18 mm | 77 gr | 1 | **4,70** |
| UM005035001219P | 19 mm | 80 gr | 1 | **4,70** |

## 5035 1/2 P Chiave a bussola con bocca poligonale, attacco 1/2”

| Codice | ◯ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005035001220P | 20 mm | 85 gr | 1 | **4,70** |
| UM005035001221P | 21 mm | 90 gr | 1 | **4,70** |
| UM005035001222P | 22 mm | 100 gr | 1 | **5,40** |
| UM005035001223P | 23 mm | 105 gr | 1 | **5,40** |
| UM005035001224P | 24 mm | 110 gr | 1 | **6,40** |
| UM005035001225P | 25 mm | 120 gr | 1 | **6,40** |
| UM005035001226P | 26 mm | 125 gr | 1 | **6,40** |
| UM005035001227P | 27 mm | 130 gr | 1 | **7,50** |
| UM005035001228P | 28 mm | 140 gr | 1 | **8,00** |
| UM005035001230P | 30 mm | 165 gr | 1 | **8,00** |
| UM005035001232P | 32 mm | 195 gr | 1 | **8,30** |

## 5035 1/2 E Chiave a bussola con bocca esagonale, attacco 1/2”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ⬡ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005035001208E | 8 mm | 35 gr | 1 | **3,50** |
| UM005035001209E | 9 mm | 40 gr | 1 | **3,50** |
| UM005035001210E | 10 mm | 50 gr | 1 | **3,50** |
| UM005035001211E | 11 mm | 55 gr | 1 | **3,50** |
| UM005035001212E | 12 mm | 60 gr | 1 | **3,50** |
| UM005035001213E | 13 mm | 62 gr | 1 | **3,50** |
| UM005035001214E | 14 mm | 65 gr | 1 | **3,50** |
| UM005035001215E | 15 mm | 68 gr | 1 | **3,60** |
| UM005035001216E | 16 mm | 70 gr | 1 | **3,60** |
| UM005035001217E | 17 mm | 73 gr | 1 | **4,20** |
| UM005035001218E | 18 mm | 77 gr | 1 | **4,70** |
| UM005035001219E | 19 mm | 80 gr | 1 | **4,70** |

## 5035 1/2 E Chiave a bussola con bocca esagonale, attacco 1/2”

| Codice | ⬡ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005035001220E | 20 mm | 85 gr | 1 | **4,70** |
| UM005035001221E | 21 mm | 90 gr | 1 | **4,70** |
| UM005035001222E | 22 mm | 100 gr | 1 | **5,40** |
| UM005035001223E | 23 mm | 105 gr | 1 | **5,40** |
| UM005035001224E | 24 mm | 110 gr | 1 | **5,90** |
| UM005035001225E | 25 mm | 120 gr | 1 | **5,90** |
| UM005035001226E | 26 mm | 125 gr | 1 | **5,90** |
| UM005035001227E | 27 mm | 130 gr | 1 | **7,50** |
| UM005035001228E | 28 mm | 140 gr | 1 | **7,50** |
| UM005035001230E | 30 mm | 165 gr | 1 | **8,00** |
| UM005035001232E | 32 mm | 195 gr | 1 | **8,30** |

## 5035 3/4 E Chiave a bussola con bocca esagonale, attacco 3/4”





### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ⬡ | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM005035003422E | 22 mm | 52 mm | 200 gr | 1 | **9,40** |
| UM005035003423E | 23 mm | 52 mm | 210 gr | 1 | **9,40** |
| UM005035003424E | 24 mm | 52 mm | 225 gr | 1 | **9,40** |
| UM005035003426E | 26 mm | 53 mm | 275 gr | 1 | **9,40** |
| UM005035003427E | 27 mm | 53 mm | 280 gr | 1 | **9,40** |
| UM005035003428E | 28 mm | 53 mm | 285 gr | 1 | **9,60** |
| UM005035003430E | 30 mm | 55 mm | 300 gr | 1 | **11,70** |
| UM005035003432E | 32 mm | 58 mm | 320 gr | 1 | **11,80** |
| UM005035003433E | 33 mm | 58 mm | 330 gr | 1 | **12,80** |
| UM005035003436E | 36 mm | 62 mm | 450 gr | 1 | **12,80** |
| UM005035003438E | 38 mm | 65 mm | 490 gr | 1 | **13,50** |
| UM005035003441E | 41 mm | 68 mm | 525 gr | 1 | **19,20** |
| UM005035003446E | 46 mm | 73 mm | 740 gr | 1 | **21,00** |
| UM005035003450E | 50 mm | 76 mm | 835 gr | 1 | **21,50** |

## 5035 1 E Chiave a bussola con bocca esagonale, attacco 1”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ⬡ | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM005035000146E | 46 mm | 71 mm | 750 gr | 1 | **47,90** |
| UM005035000150E | 50 mm | 74 mm | 900 gr | 1 | **59,10** |
| UM005035000155E | 55 mm | 79 mm | 1200 gr | 1 | **63,30** |
| UM005035000160E | 60 mm | 83 mm | 1400 gr | 1 | **73,60** |
| UM005035000165E | 65 mm | 86 mm | 1650 gr | 1 | **82,10** |
| UM005035000170E | 70 mm | 91 mm | 2000 gr | 1 | **92,40** |
| UM005035000175E | 75 mm | 95 mm | 2300 gr | 1 | **102,60** |
| UM005035000180E | 80 mm | 101 mm | 2800 gr | 1 | **119,70** |

## 5035 1/2 ME Chiave a bussola macchina con bocca esagonale, attacco 1/2”



### Caratteristiche

- Acciaio speciale al cromo molibdeno
- Esecuzione fosfatata

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00503501210ME | 10 mm | 38 mm | 1 | **6,60** |
| UM00503501211ME | 11 mm | 38 mm | 1 | **7,00** |
| UM00503501212ME | 12 mm | 38 mm | 1 | **7,00** |
| UM00503501213ME | 13 mm | 38 mm | 1 | **7,00** |
| UM00503501214ME | 14 mm | 38 mm | 1 | **7,00** |
| UM00503501215ME | 15 mm | 38 mm | 1 | **7,10** |
| UM00503501216ME | 16 mm | 38 mm | 1 | **7,10** |
| UM00503501217ME | 17 mm | 38 mm | 1 | **7,50** |
| UM00503501218ME | 18 mm | 38 mm | 1 | **8,20** |
| UM00503501219ME | 19 mm | 38 mm | 1 | **8,30** |

## 5035 1/2 ME Chiave a bussola macchina con bocca esagonale, attacco 1/2”

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00503501220ME | 20 mm | 38 mm | 1 | **8,30** |
| UM00503501221ME | 21 mm | 38 mm | 1 | **8,30** |
| UM00503501222ME | 22 mm | 38 mm | 1 | **8,30** |
| UM00503501223ME | 23 mm | 38 mm | 1 | **9,70** |
| UM00503501224ME | 24 mm | 38 mm | 1 | **10,60** |
| UM00503501226ME | 26 mm | 50 mm | 1 | **10,80** |
| UM00503501227ME | 27 mm | 50 mm | 1 | **11,70** |
| UM00503501230ME | 30 mm | 50 mm | 1 | **12,50** |
| UM00503501232ME | 32 mm | 50 mm | 1 | **14,80** |

## 5035 3/4 ME Chiave a bussola con bocca esagonale, attacco 3/4”



### Caratteristiche

- Acciaio speciale al cromo molibdeno
- Esecuzione fosfatata

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00503503419ME | 19 mm | 51 mm | 1 | **17,50** |
| UM00503503421ME | 21 mm | 51 mm | 1 | **17,50** |
| UM00503503422ME | 22 mm | 51 mm | 1 | **17,50** |
| UM00503503423ME | 23 mm | 51 mm | 1 | **17,50** |
| UM00503503424ME | 24 mm | 51 mm | 1 | **18,30** |
| UM00503503426ME | 26 mm | 53 mm | 1 | **18,30** |
| UM00503503427ME | 27 mm | 53 mm | 1 | **18,30** |
| UM00503503428ME | 28 mm | 53 mm | 1 | **20,60** |
| UM00503503430ME | 30 mm | 53 mm | 1 | **19,50** |
| UM00503503432ME | 32 mm | 57 mm | 1 | **20,10** |
| UM00503503433ME | 33 mm | 57 mm | 1 | **20,10** |
| UM00503503434ME | 34 mm | 57 mm | 1 | **20,60** |
| UM00503503436ME | 36 mm | 57 mm | 1 | **23,90** |
| UM00503503438ME | 38 mm | 57 mm | 1 | **27,50** |
| UM00503503441ME | 41 mm | 58 mm | 1 | **30,50** |
| UM00503503446ME | 46 mm | 62 mm | 1 | **40,40** |
| UM00503503450ME | 50 mm | 68 mm | 1 | **43,40** |

## 5035 1 ME Chiave a bussola macchina con bocca esagonale, attacco 1”



### Caratteristiche

- Acciaio speciale al cromo molibdeno
- Esecuzione fosfatata

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM00503500136ME | 36 mm | 66 mm | 1 | **30,80** |
| UM00503500138ME | 38 mm | 66 mm | 1 | **37,60** |
| UM00503500141ME | 41 mm | 66 mm | 1 | **37,60** |
| UM00503500146ME | 46 mm | 72 mm | 1 | **42,40** |
| UM00503500150ME | 50 mm | 76 mm | 1 | **65,00** |
| UM00503500155ME | 55 mm | 84 mm | 1 | **68,10** |
| UM00503500160ME | 60 mm | 86 mm | 1 | **87,00** |
| UM00503500165ME | 65 mm | 92 mm | 1 | **101,10** |
| UM00503500170ME | 70 mm | 96 mm | 1 | **123,70** |
| UM00503500175ME | 75 mm | 102 mm | 1 | **160,90** |
| UM00503500180ME | 80 mm | 102 mm | 1 | **191,60** |

## 5036 Prolunga per chiavi a bussola esagonali



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | Attacco | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050360014050 | 1/4” | 50 mm | 1 | **3,20** |
| UM0050360014100 | 1/4” | 100 mm | 1 | **3,90** |
| UM0050360038125 | 3/8” | 125 mm | 1 | **5,90** |
| UM0050360038250 | 3/8” | 250 mm | 1 | **11,20** |
| UM0050360012125 | 1/2” | 125 mm | 1 | **7,70** |
| UM0050360012250 | 1/2” | 250 mm | 1 | **15,80** |
| UM0050360034200 | 3/4” | 200 mm | 1 | **21,10** |
| UM0050360034400 | 3/4” | 400 mm | 1 | **36,90** |
| UM0050360001200 | 1” | 200 mm | 1 | **55,26** |
| UM0050360001400 | 1” | 400 mm | 1 | **73,13** |

## 5040 Leva a T con asta scorrevole



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | Attacco | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050400000014 | 1/4” | 115 mm | 1 | **4,80** |
| UM0050400000038 | 3/8” | 165 mm | 1 | **11,20** |
| UM0050400000012 | 1/2” | 250 mm | 1 | **11,80** |
| UM0050400000034 | 3/4” | 495 mm | 1 | **36,00** |
| UM0050400000001 | 1” | 508 mm | 1 | **89,42** |

## 5041 Snodo cardanico



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | Attacco | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050410000014 | 1/4” | 40 mm | 1 | **6,20** |
| UM0050410000038 | 3/8” | 56 mm | 1 | **9,50** |
| UM0050410000012 | 1/2” | 75 mm | 1 | **12,80** |
| UM0050410000034 | 3/4” | 102 mm | 1 | **77,40** |

## 5044 3/4 Leva ad angolo, attacco 3/4”



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | ⟷ | | € / cad. |
|---|---|---|---|
| UM0050440034305 | 305 mm | 1 | **47,70** |

## 5046 Raccordo riduttore



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | Attacco | | € / cad. |
|---|---|---|---|
| UM0050460003814 | 3/8” - 1/4” | 1 | **4,23** |
| UM0050460001234 | 3/4” - 1/2” | 1 | **10,80** |
| UM0050460000134 | 1” - 3/4” | 1 | **38,25** |

## 5047 Raccordo aumentatore



### Caratteristiche

- Acciaio speciale al cromo vanadio
- Esecuzione cromata

| Codice | Attacco | | € / cad. |
|---|---|---|---|
| UM0050470003812 | 3/8" - 1/2" | 1 | **4,14** |
| UM0050470003401 | 3/4" - 1" | 1 | **14,90** |

## 5037 Cricchetto reversibile



### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione brunita
- Sbloccaggio rapido con pulsante
- Impugnatura ergonomica in gomma

| Codice | Attacco | ⟷ | | € / cad. |
|---|---|---|---|---|
| UM0050370010012 | 1/2" | 260 mm | 1 | **30,34** |
| UM0050370010014 | 1/4" | 195 mm | 1 | **25,96** |
| UM0050370010038 | 3/8" | 195 mm | 1 | **38,93** |

## 5037 KT Assortimento bussole ed accessori





### Caratteristiche

- Acciaio al cromo vanadio
- Esecuzione cromata
- In valigetta di plastica
- 175 pz.

| Codice | Composizione | Peso | | € / cad. |
|---|---|---|---|---|
| UM00503700173KT | 175 pz. da 1/2” - 1/4” - 3/8” | 9200 gr | 1 | **396,00** |

## 5082 Martello per meccanici



### Caratteristiche

Martello per meccanici, modello tedesco. Testa piana quadra in acciaio temprato e manico in legno. DIN 1041.

| Codice | Gr. | ⟷ | Peso totale | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050820000100 | 100 | 265 mm | 180 gr | 1 | **6,60** |
| UM0050820000200 | 200 | 280 mm | 255 gr | 1 | **7,20** |
| UM0050820000300 | 300 | 300 mm | 410 gr | 1 | **8,80** |
| UM0050820000400 | 400 | 310 mm | 510 gr | 1 | **9,90** |
| UM0050820000500 | 500 | 320 mm | 600 gr | 1 | **10,90** |
| UM0050820000600 | 600 | 330 mm | 700 gr | 1 | **13,10** |
| UM0050820000800 | 800 | 350 mm | 960 gr | 1 | **15,00** |
| UM0050820001000 | 1000 | 360 mm | 1150 gr | 1 | **16,40** |

## 5087 Martello per carpentieri



### Caratteristiche

Martello per carpentieri con testa in acciaio temprato a induzione e manico in legno, disponibile con o senza magnete fermachiodi.

| Codice | Gr. | ⟷ | Peso totale | Versione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050870000300 | 300 | 450 mm | 500 gr | con magnete | 1 | **17,00** |
| UM0050870000400 | 400 | 450 mm | 550 gr | con magnete | 1 | **19,50** |
| UM00508700300SM | 300 | 450 mm | 500 gr | senza magnete | 1 | **15,30** |
| UM00508700400SM | 400 | 450 mm | 550 gr | senza magnete | 1 | **17,80** |

## 5088 Martello per muratori



### Caratteristiche

Martello per muratori con testa in acciaio temprato a induzione e manico in legno. Testa a due battenti, uno a scalpello e uno a battente.

| Codice | Gr. | ⟷ | Peso totale | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050880000400 | 400 | 370 mm | 500 gr | 1 | **14,10** |
| UM0050880000600 | 600 | 370 mm | 700 gr | 1 | **15,60** |

## 5080 Mazzetta per muratori



### Caratteristiche

Mazzetta per muratori e minatori. Doppia testa piana quadra in acciaio temprato, esecuzione verniciata, manico in legno. UNI 7777 - DIN 6475.

| Codice | Gr. | ⟷ | Peso totale | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050800001000 | 1000 | 260 mm | 1150 gr | 1 | **13,40** |
| UM0050800001250 | 1250 | 260 mm | 1390 gr | 1 | **15,20** |
| UM0050800001500 | 1500 | 280 mm | 1690 gr | 1 | **18,60** |
| UM0050800002000 | 2000 | 300 mm | 2250 gr | 1 | **21,10** |

## 5081 Mazza a coppia



### Caratteristiche

Mazza a coppia con testa in acciaio temprato con battenti piani e spigoli smussati; manico in legno.

| Codice | ⟷ | Peso totale | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050810000003 | 90 mm | 3000 gr | 1 | **46,80** |
| UM0050810000005 | 90 mm | 5000 gr | 1 | **64,50** |

## 5076 Mazzuola con tasselli intercambiabili




### Caratteristiche

Mazzuola a tasselli intercambiabili in materiale plastico (poliuretano), corpo in acciaio al carbonio e manico in legno. UNI 7784.

| Codice | ø | ⟷ | Peso totale | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050760000022 | 22 mm | 260 mm | 135 gr | 1 | **10,80** |
| UM0050760000028 | 28 mm | 280 mm | 245 gr | 1 | **12,90** |
| UM0050760000035 | 35 mm | 310 mm | 400 gr | 1 | **17,00** |
| UM0050760000042 | 42 mm | 310 mm | 625 gr | 1 | **22,60** |
| UM0050760000050 | 50 mm | 320 mm | 905 gr | 1 | **30,80** |
| UM0050760000060 | 60 mm | 380 mm | 1450 gr | 1 | **41,20** |

## Tasselli di ricambio per mazzuola 5076



### Caratteristiche

Coppia di tasselli di ricambio in poliuretano per mazzuola 5076.

| Codice | ø | | € / cad. |
|---|---|---|---|
| UM005076000022R | 22 mm | 1 | **1,80** |
| UM005076000028R | 28 mm | 1 | **2,30** |
| UM005076000035R | 35 mm | 1 | **3,30** |
| UM005076000042R | 42 mm | 1 | **4,10** |
| UM005076000050R | 50 mm | 1 | **8,50** |
| UM005076000060R | 60 mm | 1 | **12,00** |

## 5078 Mazzuola in gomma dura




### Caratteristiche

Mazzuola a doppia testa bombata, in gomma dura e manico in legno.

| Codice | Gr. | ⟷ | Peso totale | | € / cad. |
|---|---|---|---|---|---|
| UM0050780000030 | 30 | 310 mm | 305 gr | 1 | **12,70** |
| UM0050780000050 | 50 | 320 mm | 445 gr | 1 | **15,80** |
| UM0050780000060 | 60 | 320 mm | 575 gr | 1 | **17,90** |
| UM0050780000070 | 70 | 320 mm | 620 gr | 1 | **22,80** |
| UM0050780000100 | 100 | 320 mm | 815 gr | 1 | **27,60** |

## 5085 Leverino per carpentiere



### Caratteristiche

Leverino per carpentiere a sezione esagonale, con leva e levachiodi in acciaio temprato e apposita curvatura nelle zone attive. Verniciatura a polvere epossidica.

| Codice | ⬡ | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050850000050 | 18 mm | 50 mm | 1 | **11,20** |
| UM0050850000060 | 18 mm | 60 mm | 1 | **12,00** |
| UM0050850000070 | 18 mm | 70 mm | 1 | **13,80** |
| UM0050850000080 | 18 mm | 80 mm | 1 | **14,90** |
| UM0050850000100 | 18 mm | 100 mm | 1 | **18,90** |

## 5060 Scalpello esagonale per muratore

### Caratteristiche

Scalpello esagonale per muratori, modello a taglio, esecuzione verniciata.



| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050600100250 | 250 mm | 330 gr | 1 | **6,89** |
| UM0050600100300 | 300 mm | 500 gr | 1 | **7,98** |
| UM0050600100350 | 350 mm | 580 gr | 1 | **9,06** |
| UM0050600100400 | 400 mm | 800 gr | 1 | **10,69** |

## 5060 P Scalpello esagonale a punta per muratore



### Caratteristiche

Scalpello esagonale per muratori, modello a punta, esecuzione verniciata.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005060010250P | 250 mm | 330 gr | 1 | **6,89** |
| UM005060010300P | 300 mm | 500 gr | 1 | **7,98** |
| UM005060010350P | 350 mm | 580 gr | 1 | **9,06** |
| UM005060010400P | 400 mm | 800 gr | 1 | **10,69** |

## 5060 A Scalpello piatto in acciaio



### Caratteristiche

Scalpello piatto, in acciaio cromo vanadio, esecuzione cromata.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005060010125A | 10 mm | 125 gr | 1 | **6,63** |
| UM005060010150A | 10 mm | 150 gr | 1 | **10,75** |

## 5068 Bulino



### Caratteristiche

Bulino in acciaio al cromo vanadio, esecuzione cromata.

| Codice | ⬡ | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050680100100 | 8 mm | 100 mm | 30 gr | 1 | **5,69** |
| UM0050680100125 | 10 mm | 125 mm | 60 gr | 1 | **5,69** |
| UM0050680100150 | 10 mm | 150 mm | 105 gr | 1 | **7,69** |

## 5067 Cacciaspine



### Caratteristiche

Cacciaspine in acciaio al cromo vanadio, esecuzione cromata.

| Codice | Ø | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050670100110 | 2 mm | 110 mm | 33 gr | 1 | **6,78** |
| UM0050670100128 | 3 mm | 128 mm | 37 gr | 1 | **6,78** |
| UM0050670100146 | 4 mm | 146 mm | 63 gr | 1 | **6,78** |

## 5067 KT06 Assortimento cacciaspine, 6 pz.



### Caratteristiche

Assortimento cacciaspine in acciaio al cromo vanadio, esecuzione cromata, 6 pz.

| Codice | Composizione Ø | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050670100KT6 | 2-3-4-5-6-8 mm | 420 gr | 1 | **47,13** |

## Pinza regolabile per tubi e dadi



### Caratteristiche

- Esecuzione cromata
- Autoserrante, per tubi e dadi
- Superfici ganasce con denti trattati con speciale tempera
- Durezza denti 61 HRC
- Presa sicura con elevata resistenza all'usura
- Fermo di contrasto
- Acciaio al cromo vanadio, forgiato, temperato ad olio
- DIN ISO 8976
- Struttura robusta, ideale per impieghi esterni perché resistente allo sporco

| Codice | Manici | ⟷ | Capacità presa Ø | Peso | | € / cad. |
|---|---|---|---|---|---|---|
| UM00400100R0180 | resina sintetica (pvc) | 170 mm | 5-30 mm | 215 gr | 1 | **20,92** |
| UM00400100R0250 | resina sintetica (pvc) | 240 mm | 5-36 mm | 355 gr | 1 | **22,34** |
| UM00400100R0300 | resina sintetica (pvc) | 300 mm | 6-46 mm | 505 gr | 1 | **33,55** |
| UM00400100SR255 | non rivestiti | 240 mm | 5-36 mm | 355 gr | 1 | **26,96** |
| UM00400100SR305 | non rivestiti | 300 mm | 6-46 mm | 505 gr | 1 | **37,62** |

## Pinza e chiave combinata



### Caratteristiche

- Manici ergonomici
- Esecuzione cromata
- Apertura chiave da 10 a 32mm, autoserrante da 17 a 32mm
- Per tutti i serraggi metrici ed in pollici
- Facile regolazione mediante pulsante direttamente sul pezzo da stringere
- Utilizzo come chiave universale
- Superfici ganasce con denti trattati con speciale tempera
- Elevata capacità di serraggio
- Fermo di contrasto
- Acciaio al cromo vanadio, forgiato, temperato ad olio
- DIN ISO 8976
- Struttura robusta e duratura

| Codice | Manici | ⟷ | Capacità presa Ø | Peso | | € / cad. |
|---|---|---|---|---|---|---|
| UM00400200T0250 | bicomponente | 260 mm | 10-36 mm | 375 gr | 1 | **43,31** |

## Giratubi con ganasce a 90°



### Caratteristiche

- Superficie cromata e verniciata a polvere
- Forma svedese
- Impugnatura con profilo a doppia T
- Ganasce piegate a 90°
- Dentatura temperata ad induzione
- Denti contrari al senso di rotazione
- Acciaio al cromo vanadio, forgiato, temperato ad olio
- Ghiera con dispositivo anticaduta
- DIN ISO 5234

| Codice | Manici | ⟷ | Capacità presa Ø | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0060010090325 | non rivestiti | 325 mm | 0-50 mm | 800 gr | 1 | **42,53** |
| UM0060010090415 | non rivestiti | 415 mm | 0-60 mm | 1300 gr | 1 | **56,62** |
| UM0060010090540 | non rivestiti | 540 mm | 10-80 mm | 2300 gr | 1 | **87,07** |
| UM0060010090685 | non rivestiti | 685 mm | 10-105 mm | 4000 gr | 1 | **177,35** |
| UM0060010090750 | non rivestiti | 750 mm | 10-125 mm | 4800 gr | 1 | **242,39** |

## Giratubi con ganasce a S



### Caratteristiche

- Superficie cromata e verniciata a polvere
- Forma svedese
- Impugnatura con profilo a doppia T
- Ganasce strette a S
- Dentatura temperata ad induzione
- Denti contrari al senso di rotazione
- Presa mediante tre punti di contatto al tubo, autoserrante
- Acciaio al cromo vanadio, forgiato, temperato ad olio
- Ghiera con dispositivo anticaduta
- DIN ISO 5234

| Codice | Manici | ⟷ | Capacità presa Ø | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0060020000270 | non rivestiti | 270 mm | 0-35 mm | 500 gr | 1 | **46,88** |
| UM0060020000335 | non rivestiti | 335 mm | 0-50 mm | 800 gr | 1 | **48,04** |
| UM0060020000430 | non rivestiti | 430 mm | 0-60 mm | 1400 gr | 1 | **62,74** |
| UM0060020000550 | non rivestiti | 550 mm | 0-80 mm | 2300 gr | 1 | **103,43** |
| UM0060020000700 | non rivestiti | 700 mm | 10-105 mm | 4400 gr | 1 | **169,31** |

## Giratubi regolabile a rullino con ganasce a 90°



### Caratteristiche

- Corpo in lamiera
- Ganasce in acciaio a 90°
- Esecuzione verniciata

| Codice | Capacità tubo | Apertura ganasce | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0060030090175 | 1” | 45 mm | 175 mm | 330 gr | 1 | **15,23** |
| UM0060030090225 | 1,5” | 60 mm | 225 mm | 580 gr | 1 | **19,21** |
| UM0060030090275 | 2” | 75 mm | 275 mm | 800 gr | 1 | **23,20** |
| UM0060030090300 | 2,5” | 85 mm | 300 mm | 1000 gr | 1 | **28,28** |
| UM0060030090350 | 3” | 100 mm | 350 mm | 1100 gr | 1 | **30,81** |

## 5014 Tagliatubi tascabile




### Caratteristiche

- Esecuzione verniciata
- Per il taglio di rame e leghe leggere
- Modello compatto per lavori in spazi ristretti

| Codice | Capacità tubo (min-max) | Ø tubo | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050140322056 | 1/8” - 5/8” | 3 ÷ 16 mm | 56 mm | 105 gr | 1 | **7,94** |

## 5014 Tagliatubi a vite per rame



### Caratteristiche

- In lega di alluminio
- Esecuzione verniciata
- Per il taglio di rame e leghe leggere

| Codice | Capacità tubo (min-max) | Ø tubo | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050140330015 | 1/8" - 1" 1/8" | 3 ÷ 30 mm | 150 mm | 290 gr | 1 | **19,79** |

## 5014 Tagliatubi ad avanzamento telescopico



### Caratteristiche

- In lega di alluminio
- Esecuzione verniciata
- Per il taglio di rame

| Codice | Capacità tubo (min-max) | Ø tubo | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050140332013 | 1/8" - 1" 1/4" | 3 ÷ 30 mm | 135 mm | 280 gr | 1 | **21,10** |

## 5014 Tagliatubi a cremagliera



### Caratteristiche

- Avanzamento a cricco
- Apertura manuale della lama dopo il taglio
- Per il taglio di plastica e gomma

| Codice | Ø tubo | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0050140642019 | 6 ÷ 42 mm | 190 mm | 300 gr | 1 | **17,76** |

## 5051 Estrattore universale a 2 bracci per interni ed esterni



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato, robusta vite con filettatura fine e perno all'estremità per un centraggio ottimale. Bracci reversibili per utilizzi su interni ed esterni. Espandibile con gambe di diversa lunghezza, ottimizzate per la necessaria profondità di serraggio.

| Codice | Grandezza | Ø ⟷ min-max | ↓ | Ø interno | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM0050510000001 | 1 | 20-90 mm | 100 mm | 70-130 mm | 80 Nm | 4,5 t | 1 | **81,37** |
| UM0050510000015 | 1,5 | 25-130 mm | 100 mm | 80-180 mm | 80 Nm | 4,5 t | 1 | **87,42** |
| UM0050510000002 | 2 | 50-160 mm | 150 mm | 105-220 mm | 150 Nm | 6,5 t | 1 | **148,58** |
| UM0050510000025 | 2,5 | 60-200 mm | 150 mm | 120-270 mm | 150 Nm | 6,5 t | 1 | **163,00** |
| UM0050510000003 | 3 | 80-250 mm | 200 mm | 160-330 mm | 320 Nm | 11 t | 1 | **271,15** |

## 5052 Estrattore a 3 bracci



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato, doppio attacco, bracci reversibili, doppia estremità (una larga, una stretta). Robusta vite con filettatura fine e perno all'estremità per un centraggio ottimale. Grazie alla cinghia autobloccante, durante la leva le staffe premono strettamente sotto la parte da rimuovere.

| Codice | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050520000015 | 20-150 mm | 85 mm | 60 Nm | 4,0 t | 1 | **80,86** |
| UM0050520000022 | 40-220 mm | 130 mm | 70 Nm | 4,0 t | 1 | **133,64** |

## 5053 Estrattore a 3 bracci regolabili



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato, robusta vite con filettatura fine e perno all'estremità per un centraggio ottimale, bracci regolabili per profondità di bloccaggio variabile. Grazie alla cinghia autobloccante, durante la leva le staffe premono strettamente sotto la parte da rimuovere.

| Codice | Grandezza | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|
| UM0050530000001 | 1 | 20-70 mm | 130 mm | 60 Nm | 4,0 t | 1 | **87,04** |
| UM0050530000002 | 2 | 20-230 mm | 200 mm | 70 Nm | 4,5 t | 1 | **125,92** |

## 5054 Estrattore a 2 bracci per interni ed esterni



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato, robusta vite con filettatura fine e perno all'estremità per un centraggio ottimale. Bracci reversibili per utilizzi su interni ed esterni.

| Codice | Ø min-max | ↓ | Ø interno | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|
| UM0050540000001 | 15-80 mm | 100 mm | 70-130 mm | 60 Nm | 3,5 t | 1 | **87,55** |
| UM0050540000002 | 15-120 mm | 100 mm | 80-170 mm | 60 Nm | 3,5 t | 1 | **91,16** |
| UM0050540000025 | 20-160 mm | 150 mm | 110-210 mm | 120 Nm | 6 t | 1 | **155,27** |
| UM0050540000003 | 20-200 mm | 150 mm | 120-250 mm | 120 Nm | 8 t | 1 | **170,21** |
| UM0050540000004 | 40-250 mm | 200 mm | 170-300 mm | 150 Nm | 8 t | 1 | **306,17** |
| UM0050540000005 | 40-350 mm | 200 mm | 190-400 mm | 150 Nm | 6 t | 1 | **332,43** |

## Ricambi viti e staffe per estrattori 5054

### Caratteristiche

Ricambi viti e staffe per estrattori 5054

| Codice | Grandezza estrattore | 📦 | € / cad. |
|---|---|---|---|
| UM005054000001M | 1 | 1 | **21,37** |
| UM005054000001V | 1 | 1 | **9,79** |
| UM005054000002M | 2 | 1 | **21,37** |
| UM005054000002V | 2 | 1 | **9,79** |
| UM005054000025M | 2,5 | 1 | **39,14** |
| UM005054000025V | 2,5 | 1 | **45,06** |
| UM005054000003M | 3 | 1 | **39,14** |
| UM005054000003V | 3 | 1 | **20,34** |
| UM005054000004M | 4 | 1 | **124,89** |
| UM005054000004V | 4 | 1 | **39,91** |
| UM005054000005M | 5 | 1 | **124,89** |
| UM005054000005V | 5 | 1 | **41,72** |

## 5055 Estrattore universale a 2 e 3 bracci, senza impugnatura



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato per un elevato carico meccanico, robusta vite con filettatura fine, bracci autocentranti, senza impugnatura.

| Codice | Bracci | Grandezza | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM0050550000201 | 2 | 1 | 10-100 mm | 80 mm | 25 Nm | 2,5 t | 1 | **66,44** |
| UM0050550000202 | 2 | 2 | 10-120 mm | 120 mm | 35 Nm | 3,0 t | 1 | **98,11** |
| UM0050550000203 | 2 | 3 | 20-160 mm | 160 mm | 45 Nm | 3,5 t | 1 | **148,06** |
| UM0050550000204 | 2 | 4 | 20-200 mm | 200 mm | 50 Nm | 4,0 t | 1 | **199,56** |
| UM0050550000310 | 3 | 10 | 10-100 mm | 80 mm | 25 Nm | 2,5 t | 1 | **71,33** |
| UM0050550000320 | 3 | 20 | 10-120 mm | 120 mm | 35 Nm | 3,0 t | 1 | **132,61** |
| UM0050550000330 | 3 | 30 | 20-160 mm | 160 mm | 45 Nm | 3,5 t | 1 | **195,44** |
| UM0050550000340 | 3 | 40 | 20-200 mm | 200 mm | 50 Nm | 4,0 t | 1 | **261,62** |

## 5056 Estrattore a 3 bracci



### Caratteristiche

Estrattore con solido corpo in acciaio forgiato per un elevato carico meccanico, autocentrante, con regolatore di diffusione per mantenere i bracci in posizione ottimale.

| Codice | Grandezza | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|
| UM0050560000010 | 10 | 10-60 mm | 45 mm | 25 Nm | 2,5 t | 1 | **63,35** |
| UM0050560000020 | 20 | 15-70 mm | 65 mm | 35 Nm | 3,0 t | 1 | **82,40** |
| UM0050560000030 | 30 | 20-100 mm | 80 mm | 45 Nm | 3,5 t | 1 | **94,50** |

## 5061 Mini estrattore a 2 e 3 bracci per esterni



### Caratteristiche

Mini estrattore con solido corpo in acciaio forgiato, bracci autocentranti, piedini regolabili. Durante la leva le staffe premono strettamente sotto la parte da rimuovere; ideale per la rimozione di particolari di piccole dimensioni.

| Codice | Bracci | Grandezza | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM0050610000001 | 2 | 1 | 10-60 mm | 40 mm | 18 Nm | 1,0 t | 1 | **29,61** |
| UM0050610000002 | 2 | 2 | 10-70 mm | 44/74 mm | 20 Nm | 1,2 t | 1 | **29,87** |
| UM0050610000003 | 2 | 3 | 10-90 mm | 84 mm | 24 Nm | 2,0 t | 1 | **34,25** |
| UM0050610000010 | 3 | 10 | 10-60 mm | 40 mm | 20 Nm | 1,2 t | 1 | **41,46** |
| UM0050610000020 | 3 | 20 | 10-70 mm | 44/74 mm | 21 Nm | 1,3 t | 1 | **41,46** |
| UM0050610000030 | 3 | 30 | 10-90 mm | 84 mm | 40 Nm | 2,5 t | 1 | **44,03** |

## 5062 Mini estrattore a 2 bracci per esterni



### Caratteristiche

Mini estrattore con solido corpo in acciaio forgiato, piedini regolabili. Durante la leva le staffe premono strettamente sotto la parte da rimuovere; ideale per la rimozione di particolari di piccole dimensioni, adatto anche per smontare i bracci dei tergicristalli di mezzi pesanti.

| Codice | Ø min-max | ↓ | Coppia massima | Potenza | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| UM0050620000000 | 10-50 mm | 40 mm | 18 Nm | 1,0 t | 1 | **38,37** |

## 5072 Separatori



### Caratteristiche

Separatore per l'estrazione di particolari che non consentono l'utilizzo di estrattori tradizionali. Inserito tra pezzo e sede, il separatore consente il distacco tra le parti. L'estrazione può essere poi completata collegando il separatore ad un tirante. Corpo forgiato con bordi taglienti; albero meccanico con alloggiamento filettato.

| Codice | Grandezza | Ø min-max | Alloggiamento | Asta scorrimento | | € / cad. |
|---|---|---|---|---|---|---|
| UM0050720000000 | 0 | 5-60 mm | M12 | M10x120 mm | 1 | **51,24** |
| UM0050720000001 | 1 | 12-75 mm | M12 | M12x140 mm | 1 | **70,56** |
| UM0050720000002 | 2 | 22-115 mm | M16 | M16x1,5x180 mm | 1 | **105,83** |
| UM0050720000003 | 3 | 25-155 mm | M20x1,5 | M20x1,5x250 mm | 1 | **172,53** |
| UM0050720000004 | 4 | 30-220 mm | M20x1,5 | M24x1,5x410 mm | 1 | **401,19** |
| UM0050720000005 | 5 | 40-280 mm | M24x1,5 | M28x1,5x410 mm | 1 | **975,41** |

## 5072/T Tiranti per separatori



### Caratteristiche

Tiranti a bracci scorrevoli per separatori con bracci scorrevoli.

| Codice | Grandezza | Ø min-max | | Alloggiam. | Viti | Asta collegamento | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| UM005072000000T | 0 | 40-115 mm | 150 mm | M12 | M14x1,5x130 mm | M12x200 mm | 1 | **61,03** |
| UM005072000001T | 1 | 45-140 mm | 150 mm | M12 | M14x1,5x130 mm | M12x200 mm | 1 | **74,68** |
| UM005072000002T | 2 | 55-205 mm | 210 mm | M16 | G1/2"x14x210 mm | M16x280 mm | 1 | **116,13** |
| UM005072000003T | 3 | 90-260 mm | 315 mm | M20x1,5 | G1/2"x14x210 mm | M20x1,5x370 mm | 1 | **216,04** |
| UM005072000004T | 4 | 100-360 mm | 305 mm | M20x1,5 | G3/4"x14x280 mm | M20x1,5x370 mm | 1 | **280,68** |
| UM005072000005T | 5 | 140-435 mm | 320 mm | M24x1,5 | G1"x11x370 mm | M24x1,5x460 mm | 1 | **733,88** |

## Lima piatta parallela



### Caratteristiche

Taglio doppio sul piatto; un bordo intagliato. Acciaio speciale ad alto contenuto di carbonio; durezza 64 HRC. Ideale per superfici piane, angoli, feritoie e affilatura utensili per l'agricoltura. UNI 5487.

| Codice | Taglio | Pollici | ⟷ | Sezione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| LA020020200060B | bastardo | 6 | 150 mm | 16x4 mm | 1 | **4,14** |
| LA020020200060M | mezzodolce | 6 | 150 mm | 16x4 mm | 1 | **4,26** |
| LA020020200080B | bastardo | 8 | 200 mm | 20x5 mm | 1 | **4,70** |
| LA020020200080M | mezzodolce | 8 | 200 mm | 20x5 mm | 1 | **5,04** |
| LA020020200100B | bastardo | 10 | 250 mm | 25x6 mm | 1 | **6,49** |
| LA020020200100M | mezzodolce | 10 | 250 mm | 25x6 mm | 1 | **6,94** |

## Lima mezzotonda



### Caratteristiche

Rastremazione a punta; taglio doppio sul dorso e sul piatto. Acciaio speciale ad alto contenuto di carbonio; durezza 64 HRC. Ideale per superfici concave, fori, bronzine e sbavature di raccordi; per operazioni manuali di sgrossatura e/o finitura su materiali metallici. UNI 5489.

| Codice | Taglio | Pollici | ⟷ | Sezione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| LA020020100060B | bastardo | 6 | 150 mm | 16x5 mm | 1 | **5,82** |
| LA020020100060M | mezzodolce | 6 | 150 mm | 16x5 mm | 1 | **6,04** |
| LA020020100080B | bastardo | 8 | 200 mm | 20x6,5 mm | 1 | **7,06** |
| LA020020100080M | mezzodolce | 8 | 200 mm | 20x6,5 mm | 1 | **7,51** |
| LA020020100100B | bastardo | 10 | 250 mm | 25x8 mm | 1 | **9,29** |
| LA020020100100M | mezzodolce | 10 | 250 mm | 25x8 mm | 1 | **10,08** |

## Lima quadrata



### Caratteristiche

Rastremazione a punta; taglio doppio sulle 4 facce. Acciaio speciale ad alto contenuto di carbonio; durezza 64 HRC. Ideale per “tagli di chiavette” e per cavità quadre. UNI 5492.

| Codice | Taglio | Pollici | ⟷ | Sezione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| LA020020300060B | bastardo | 6 | 150 mm | 6x6 mm | 1 | **4,37** |
| LA020020300060M | mezzodolce | 6 | 150 mm | 6x6 mm | 1 | **4,70** |
| LA020020300080B | bastardo | 8 | 200 mm | 8x8 mm | 1 | **5,37** |
| LA020020300080M | mezzodolce | 8 | 200 mm | 8x8 mm | 1 | **5,49** |
| LA020020300100B | bastardo | 10 | 250 mm | 10x10 mm | 1 | **7,06** |
| LA020020300100M | mezzodolce | 10 | 250 mm | 10x10 mm | 1 | **7,39** |

## Lima triangolare



### Caratteristiche

Rastremazione a punta; taglio doppio; acciaio speciale ad alto contenuto di carbonio; durezza 64 HRC. Classica lima per aggiustatori meccanici per ottenere superfici piane: stampi, piani di riscontro, banchine e lardoni di macchine utensili. UNI 5494.

| Codice | Taglio | Pollici | ⟷ | Sezione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| LA020020500060B | bastardo | 6 | 150 mm | 10 mm | 1 | **5,15** |
| LA020020500060M | mezzodolce | 6 | 150 mm | 10 mm | 1 | **5,37** |
| LA020020500080B | bastardo | 8 | 200 mm | 12 mm | 1 | **6,38** |
| LA020020500080M | mezzodolce | 8 | 200 mm | 12 mm | 1 | **6,49** |
| LA020020500100B | bastardo | 10 | 250 mm | 16 mm | 1 | **8,63** |
| LA020020500100M | mezzodolce | 10 | 250 mm | 16 mm | 1 | **8,85** |

## Lima tonda



### Caratteristiche

Taglio doppio; acciaio speciale ad alto contenuto di carbonio; durezza 64 HRC. Ideale per fori, superfici concave, bronzine ecc.. UNI 5493.

| Codice | Taglio | Pollici | ⟷ | Sezione | 📦 | € / cad. |
|---|---|---|---|---|---|---|
| LA020020400060B | bastardo | 6 | 150 mm | 6 mm | 1 | **4,04** |
| LA020020400060M | mezzodolce | 6 | 150 mm | 6 mm | 1 | **4,14** |
| LA020020400080B | bastardo | 8 | 200 mm | 8 mm | 1 | **4,70** |
| LA020020400080M | mezzodolce | 8 | 200 mm | 8 mm | 1 | **4,82** |
| LA020020400100B | bastardo | 10 | 250 mm | 10 mm | 1 | **6,16** |
| LA020020400100M | mezzodolce | 10 | 250 mm | 10 mm | 1 | **6,49** |

## Manico in legno per lime



### Caratteristiche

In legno, adatto a lime per meccanica.

| Codice | Lime | ⟷ | 📦 | € / cad. |
|---|---|---|---|---|
| LA0200200000406 | 4-6” | 100 mm | 1 | **0,74** |
| LA0200200000708 | 7-8” | 110 mm | 1 | **0,83** |
| LA0200200000912 | 9-12” | 120 mm | 1 | **0,85** |

## 5000 Seghetto



### Caratteristiche

Seghetto con asta in tubo rettangolare in lega di alluminio, per lame da 12".

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050000120450 | 450 mm | 500 gr | 1 | **14,43** |

## 5001 Archetto in acciaio



### Caratteristiche

Archetto leggero in acciaio trafilato, esecuzione verniciata, per lame tipo puck.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050010100240 | 240 mm | 100 gr | 1 | **3,12** |

## 5020 P Cutter professionale



### Caratteristiche

Cutter professionale con custodia in lega di zinco.

| Codice | ⟷ lama | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005020010170P | 170 mm | 130 gr | 1 | **7,88** |

## 5020 Cutter con blocco automatico



### Caratteristiche

Cutter con blocco automatico, custodia in ABS-gomma, spazio interno per alloggiamento lame di ricambio.

| Codice | ⟷ lama | Tipo | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050200100180 | 100x18 mm | cutter | 1 | **3,56** |
| UM005020010018R | 100x18 mm | lame di ricambio - 10 pz. | 10 | **1,50** |

## Forbici multiuso



### Caratteristiche

Forbici multiuso con lame in acciaio inox, durezza 50-52HRC e rivestimento al titanio. Una lama microdentata antiscivolo e una lama a rasoio; impugnature ergonomiche in bimateriale, soft touch. Forbici ideali per il taglio di gomma, cartone, cuoio, stoffa,ecc.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| SP000100500018 | 140 mm | 36 gr | 1 | **4,13** |
| SP000100500019 | 165 mm | 43 gr | 1 | **5,13** |
| SP000100500020 | 205 mm | 106 gr | 1 | **5,38** |
| SP000100500021 | 230 mm | 110 gr | 1 | **7,00** |

## 5010 Forbici multiuso tipo francese



### Caratteristiche

Forbici multiuso, tipo francese, con lame in acciao al carbonio C50, nichelate.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM0050100100125 | 125 mm | 60 gr | 1 | **9,43** |
| UM0050100100155 | 155 mm | 79 gr | 1 | **10,51** |

## 5010 S Forbici da sarto



### Caratteristiche

Forbici da sarto con lame in acciaio al carbonio C50, nichelate, con manici verniciati.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| UM005010010205S | 205 mm | 220 gr | 1 | **14,86** |
| UM005010010255S | 255 mm | 300 gr | 1 | **19,94** |

## Forbici per elettricista



### Caratteristiche

Forbici per elettricista con lame in acciaio inox, spessore 3mm, durezza 50-52HRC. Impugnature ergonomiche in bimateriale (nylon + TPR). Lama microdentata finissima; doppia presa per una maggiore forza. Forbici specifiche per elettricisti.

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| SP000100500017 | 160 mm | 80 gr | 1 | **12,63** |

## Forbici per elettricista SVOLTA



### Caratteristiche

Forbici per elettricisti, ad uso professionale, con lame e corpo in acciaio altamente tecnologico inox Mo-Va, durezza 5860HRC. Lame microdentate finissime, 0.25mm, impugnature ergonomiche in nylon con una percentuale del 30% di fibra di vetro, doppia presa antiscivolo su entrambi gli anelli per una maggiore forza, appoggiadito antiscivolo, con fessura sulla lama per la pulizia di parti in plastica nelle scatole elettriche. Movimento scorrevole per un taglio netto su cavi con diametro 50 mm² taglio netto su cavi in rame con spessore fino a 0.5mm, funzione di crimpaggio integrata: può crimpare terminali da 0.5-4 mm², elevate performance progrip antiusura

| Codice | ⟷ | Peso | 📦 | € / cad. |
|---|---|---|---|---|
| SP000100500016 | 145 mm | 82 gr | 1 | **25,13** |

## 7081 Flessometro




### Caratteristiche

Flessometro con custodia in ABS-gomma.

| Codice | ⟷ | Peso | Rivetto | 📦 | € / cad. |
|---|---|---|---|---|---|
| UM0070810103013 | 3 mt x 13 mm | 156 gr | standard | 1 | **5,44** |
| UM0070810105019 | 5 mt x 19 mm | 251 gr | magnetico | 1 | **8,25** |

## 5042 Oliatore in metallo



### Caratteristiche

Oliatore professionale con corpo in metallo, cannuccia flessibile.

| Codice | Capacità | | € / cad. |
|---|---|---|---|
| UM0050420100200 | 200 gr | 1 | **9,79** |
| UM0050420100300 | 300 gr | 1 | **10,33** |
| UM0050420100500 | 500 gr | 1 | **10,69** |

## 5086 Kit traccialinee




### Caratteristiche

Kit traccialinee con cassa in materiale plastico antiurto, sistema di svolgimento con bloccaggio e riavvolgimento rapido del filo (cotone, 30 mt), completo di barattolo di polvere, colore blu.

| Codice | Lunghezza filo | | € / cad. |
|---|---|---|---|
| UM0050860000KIT | 30 mt | 1 | **10,50** |

## Polvere per kit traccialinee 5086




### Caratteristiche

Barattolo di polvere, colore blu, per traccialinee 5086.

| Codice | Peso | | € / cad. |
|---|---|---|---|
| UM0050860000180 | 180 gr | 1 | **4,00** |

## Pennello piatto




### Caratteristiche

Pennello piatto con manico in legno certificato FSC e finitura antiscivolo LaserTouch (realizzata con incisione laser senza l'utilizzo di solventi per garantire maggiore grip nella zona di presa), ghiera in acciaio inox, setola in fibra FillPro (filamento sintetico conico che consente un alto assorbimento ed un rilascio graduale della pittura, garantendo elevate performance). Per uso professionale, ideale per smalti a solvente e idropitture.

| Codice | Misura | Lunghezza | Spessore | | € / cad. |
|---|---|---|---|---|---|
| PE0010010010025 | 25 mm | 57 mm | 12,5 mm | 1 | **7,80** |
| PE0010010010038 | 38 mm | 57 mm | 15 mm | 1 | **8,95** |
| PE0010010010050 | 50 mm | 64 mm | 16 mm | 1 | **10,45** |
| PE0010010010065 | 65 mm | 70 mm | 18 mm | 1 | **14,87** |

## Pennello piatto triplo spessore



### Caratteristiche

Pennello piatto, triplo spessore, con manico in legno certificato FSC, finitura antiscivolo LaserTouch (realizzata con incisione laser senza l'utilizzo di solventi per garantire maggiore grip nella zona di presa), ghiera in acciaio inox, setola bionda selezionata. Per uso professionale, ideale per smalti a solvente e idropitture.

| Codice | Misura | Lunghezza | Spessore | | € / cad. |
|---|---|---|---|---|---|
| PE0010010020030 | 30 mm | 51 mm | 15 mm | 1 | **3,13** |
| PE0010010020040 | 40 mm | 57 mm | 15 mm | 1 | **3,95** |
| PE0010010020050 | 50 mm | 64 mm | 15 mm | 1 | **6,75** |
| PE0010010020060 | 60 mm | 64 mm | 15 mm | 1 | **7,75** |
| PE0010010020070 | 70 mm | 70 mm | 15 mm | 1 | **9,06** |

## Pennello piatto Eco



### Caratteristiche

Pennello piatto con manico in legno, setola bionda mista. Ideale per usi generici.

| Codice | Misura | Lunghezza | Spessore | | € / cad. |
|---|---|---|---|---|---|
| PE0010010090020 | 20 mm | 44 mm | 15 mm | 1 | **1,62** |
| PE0010010090030 | 30 mm | 44 mm | 15 mm | 1 | **1,88** |
| PE0010010090040 | 40 mm | 51 mm | 15 mm | 1 | **2,17** |
| PE0010010090050 | 50 mm | 51 mm | 15 mm | 1 | **2,43** |

## Radiatore



### Caratteristiche

Radiatore con manico in legno certificato FSC e finitura antiscivolo LaserTouch (realizzata con incisione laser senza l'utilizzo di solventi per garantire maggiore grip nella zona di presa), ghiera in acciaio inox, setola in fibra FillPro (filamento sintetico conico che consente un alto assorbimento ed un rilascio graduale della pittura, garantendo elevate performance). Per uso professionale, ideale per smalti a solvente e idropitture.

| Codice | Misura | Lunghezza | Spessore | | € / cad. |
|---|---|---|---|---|---|
| PE0010010030030 | 30 mm | 57 mm | 9 mm | 1 | **5,50** |
| PE0010010030040 | 40 mm | 57 mm | 9 mm | 1 | **5,91** |
| PE0010010030050 | 50 mm | 64 mm | 9 mm | 1 | **6,71** |
| PE0010010030060 | 60 mm | 70 mm | 9 mm | 1 | **8,12** |

## Plafoniera



### Caratteristiche

Plafoniera con manico in legno certificato FSC e finitura antiscivolo LaserTouch (realizzata con incisione laser senza l'utilizzo di solventi per garantire maggiore grip nella zona di presa), ghiera in acciaio inox, setola in fibra FillPro (filamento sintetico conico che consente un alto assorbimento ed un rilascio graduale della pittura, garantendo elevate performance). Per uso professionale, ideale per idropitture.

| Codice | Misura | Lunghezza | Spessore | | € / cad. |
|---|---|---|---|---|---|
| PE0010010040070 | 70x30 mm | 76 mm | 30 mm | 1 | **13,87** |
| PE0010010040100 | 100x30 mm | 76 mm | 30 mm | 1 | **16,05** |
| PE0010010040120 | 120x30 mm | 76 mm | 30 mm | 1 | **17,99** |

## Rullo Malerstreif



### Caratteristiche

Rullo con manico SoftTouch comfort, in tessuto Malerstreif poliammide verde termosaldato e risvoltato. Per uso professionale, ideale per quarzi e idropitture su superfici ruvide ed esterni.

| Codice | Tipo | Misura | Altezza fibre | ø | ø manico | | € / cad. |
|---|---|---|---|---|---|---|---|
| PE0010010050020 | rullo + manico | 220 mm | 21 mm | 50 mm | 8 mm | 1 | **17,12** |
| PE001001005002R | ricambio rullo | 220 mm | 21 mm | 50 mm | 8 mm | 1 | **11,25** |

## Rullo in poliammide



### Caratteristiche

Rullo con manico SoftTouch comfort, in poliammide con filo giallo, termosaldato e risvoltato. Per uso professionale. Ideale per tutte le idropitture su superfici poco ruvide.

| Codice | Tipo | Misura | Altezza fibre | ø | ø manico | | € / cad. |
|---|---|---|---|---|---|---|---|
| PE0010010050022 | rullo + manico | 220 mm | 12 mm | 50 mm | 8 mm | 1 | **15,88** |
| PE001001005022R | ricambio rullo | 220 mm | 12 mm | 50 mm | 8 mm | 1 | **10,25** |

## Mini rullo, blu



### Caratteristiche

Mini rullo in tessuto Teflon® surface protector. Per uso professionale. Ideale per smalti all'acqua. Fornito in box da 10 pezzi.

| Codice | Misura | Altezza fibre | ø | ø manico | | € / cad. |
|---|---|---|---|---|---|---|
| PE0010010060101 | 110 mm | 6 mm | 18 mm | 6 mm | 1 | **23,37** |

## Mini rullo, rosso



### Caratteristiche

Mini rullo in tessuto Teflon® surface protector. Per uso professionale. Ideale per smalti a solvente. Fornito in box da 10 pezzi.

| Codice | Misura | Altezza fibre | ø | ø manico | | € / cad. |
|---|---|---|---|---|---|---|
| PE0010010060102 | 110 mm | 4 mm | 18 mm | 6 mm | 1 | **23,37** |

## Mini rullo, bianco

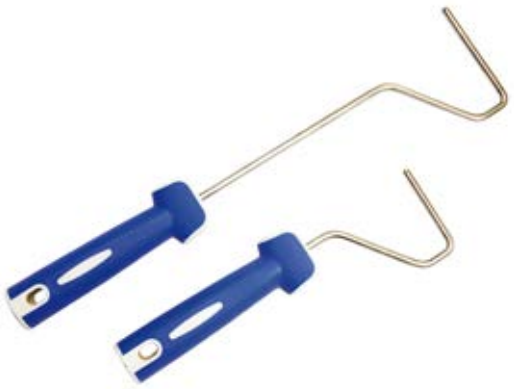


### Caratteristiche

Mini rullo in tessuto Teflon® surface protector. Per uso professionale. Ideale per tutti i tipi di idropitture su superfici lisce e poco ruvide. Fornito in box da 10 pezzi.

| Codice | Misura | Altezza fibre | ø | ø manico | | € / cad. |
|---|---|---|---|---|---|---|
| PE0010010060103 | 110 mm | 12 mm | 18 mm | 6 mm | 1 | **23,37** |

## Manico per mini rullo e rullotto



### Caratteristiche

Manico SoftTouchcomfort per mini rullo e rullotto. Compatibile con pertiche telescopiche Systemblock.

| Codice | Misura | Ø manico | Lunghezza manico | | € / cad. |
|---|---|---|---|---|---|
| PE0010010070062 | 60 mm | 6 mm | 275 mm | 1 | **3,00** |
| PE0010010070063 | 60 mm | 6 mm | 370 mm | 1 | **3,00** |
| PE0010010070012 | 110 mm | 6 mm | 275 mm | 1 | **3,14** |
| PE0010010070013 | 110 mm | 6 mm | 370 mm | 1 | **3,14** |

## Pertica



### Caratteristiche

Pertica telescopica, sistema di aggancio sicuro Systemblock, in ferro verniciato.

| Codice | Misura | | € / cad. |
|---|---|---|---|
| PE0010010080011 | 110/200 mm | 1 | **9,50** |

# 11 CHIMICI



Spray e spray Linea Optimum  969-991

Linea mani  991-995

Detergenza acquosa  995-1002

Detergenza base solvente e disincrostazione  1002-1004

Linea auto  1005-1007

Sicurezza e protezione  1008-1012

Fluidi lubrorefrigeranti e additivi  1013-1026

Fluidi da taglio  1027-1029

Lubrificanti industriali  1030-1049

Siliconi, schiume, ancoranti e pistole  1050-1056

Adesivi e sigillanti  1056-1070

Accessori tecnici  1071

# Legenda simboli


ferramenta


industria


auto


ufficio

## ACRY PAINT vernice acrilica




### Caratteristiche

ACRY PAINT è una vernice acrilica professionale a rapida velocità di essiccazione, adatta sia per interni che per esterni. Garantisce un'elevata coprenza con finiture di ottima qualità, lucide e resistenti all'azione del tempo e ai graffi. L'elevata velocità di essiccazione permette di concludere rapidamente la fase di verniciatura.

**Applicazioni:** ACRY PAINT può essere utilizzata su diversi metalli e superfici, quali ferro, ottone, alluminio e materiali plastici.

| Codice | Colore | RAL | Formato | | € / cad. |
|---|---|---|---|---|---|
| CH9330010200092 | Arancio puro | 2004 | 400 ml | 1 | **7,00** |
| CH9330010200099 | Beige lucido | 1015 | 400 ml | 1 | **7,00** |
| CH9330010200081 | Bianco lucido | 9010 | 400 ml | 1 | **7,00** |
| CH9330010200089 | Blu cielo | 5015 | 400 ml | 1 | **7,00** |
| CH9330010200090 | Blu segnale | 5005 | 400 ml | 1 | **7,00** |
| CH9330010200097 | Grigio luce | 7035 | 400 ml | 1 | **7,00** |
| CH9330010200098 | Giallo cromo brillante | 1007 | 400 ml | 1 | **7,00** |
| CH9330010200096 | Grigio ferro | 7011 | 400 ml | 1 | **7,00** |
| CH9330010200095 | Giallo navone | 1021 | 400 ml | 1 | **7,00** |
| CH9330010200094 | Giallo segnale | 1003 | 400 ml | 1 | **7,00** |
| CH9330010200093 | Giallo traffico | 1023 | 400 ml | 1 | **7,00** |
| CH9330010200100 | Grigio antracite | 7016 | 400 ml | 1 | **7,00** |
| CH9330010200086 | Grigio argento | 7001 | 400 ml | 1 | **7,00** |
| CH9330010200084 | Marrone cioccolato | 8017 | 400 ml | 1 | **7,00** |
| CH9330010200085 | Marrone noce | 8011 | 400 ml | 1 | **7,00** |
| CH9330010200083 | Nero lucido | 9005L | 400 ml | 1 | **7,00** |
| CH9330010200082 | Nero opaco | 9005 | 400 ml | 1 | **7,00** |
| CH9330010200091 | Rosso fuoco | 3000 | 400 ml | 1 | **7,00** |
| CH9330010200080 | Trasparente lucido | 9201 | 400 ml | 1 | **7,00** |
| CH9330010200102 | Verde foglia | 6002 | 400 ml | 1 | **7,00** |
| CH9330010200087 | Verde menta | 6029 | 400 ml | 1 | **7,00** |
| CH9330010200088 | Verde muschio | 6005 | 400 ml | 1 | **7,00** |
| CH9330010200103 | Verde pallido | 6021 | 400 ml | 1 | **7,00** |
| CH9330010200101 | Verde reseda | 6011 | 400 ml | 1 | **7,00** |

## ANTI S Antislittante per cinghie




### Caratteristiche

ANTI S è un fluido di particolare formulazione che sostituisce i vecchi prodotti, a base esclusivamente di colofonia, usati per eliminare gli slittamenti delle cinghie di trasmissione. Aumenta la coesione tra le cinghie e le pulegge, senza vetrificare, ed incrementa la capacità di trazione. Impregnando la cinghia, elimina ogni tipo di rumore o cigolio, permettendo un funzionamento silenzioso.

**Applicazioni:** ANTI S può essere utilizzato su qualunque tipo di cinghia; è consigliabile, comunque, applicarlo solo su cinghie nuove o in buone condizioni, in quanto quelle deteriorate potrebbero rompersi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9000010100000 | 400 ml | 1 | **9,16** |

## ANTI SALD Spray antiadesivo per saldature autogene




### Caratteristiche

ANTI SALD evita l'adesione di scorie e gocce di saldatura su qualsiasi supporto. Protegge da ossidi e corrosioni e non contiene silicone.

**Applicazioni:** ANTI SALD è idoneo per saldature autogene, elettriche ed a base di gas inerti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9350010200000 | 400 ml | 1 | **8,28** |

## ARIA Aria compressa rimuovi polvere




### Caratteristiche

ARIA è un prodotto spray appositamente studiato per soffiare aria compressa in parti poco accessibili, al fine di eliminare polvere e sporco. Viene inoltre utilizzato per raffreddare rapidamente circuiti elettronici o particolari di altro genere durante le operazioni di manutenzione.

**Applicazioni:** ARIA è specifico per la rapida manutenzione giornaliera di tastiere, stampanti, meccanismi interni ed esterni, attrezzature fotografiche e di precisione in genere. Adatto alla manutenzione di schede elettroniche, circuiti integrati, transistor. Idoneo per la localizzazione di rotture nelle saldature dei circuiti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060010100000 | 400 ml | 1 | **9,28** |

## BISOL DUE Antigrip lubrificante e antiadesivo per torce di saldatura




### Caratteristiche

BISOL DUE è un composto formato da agenti lubrificanti ed antiadesivi specifici, additivati con bisolfuro di molibdeno, atti a prevenire il grippaggio tra le superfici a contatto sottoposte a condizioni di temperatura e pressione elevate. È un valido antiadesivo per torce di saldatura. BISOL DUE è una buona alternativa alla grafite ed è esente da siliconi.

**Applicazioni:** BISOL DUE può essere utilizzato nell'industria meccanica e metalmeccanica in genere, qualora venga richiesto un prodotto che debba soddisfare le specifiche prestazioni di lubrificazione ed antiadesività. Utilizzato anche nella carpenteria meccanica e navale per prevenire l'adesione delle particelle metalliche all'ugello della torcia delle saldatrici a filo continuo.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9140010100000 | 400 ml | 1 | **11,12** |

## BLU TRAK Tracciante per impiantistica




### Caratteristiche

BLU TRAK è un rivestimento di rapida essiccazione ed alto contrasto che aderisce a metalli, manufatti, calcestruzzi, ecc., formando un rivestimento liscio e privo di riflessi. Le linee di tracciatura eseguite sono nette ed incisive. BLU TRAK non contiene sostanze corrosive e irritanti, resiste agli oli, al calore ed allo sfregamento. Non si sfoglia ed elimina la necessità di ulteriori applicazioni anche su lunghe tracce, aumentando così la precisione. Copre in modo uniforme e persistente.

**Applicazioni:** BLU TRAK è ideale in tutte le operazioni di tracciatura su tutte le superfici. Utilizzato da attrezzisti, stampatori, macchinisti, disegnatori e meccanici di manutenzione, garantisce un'elevata qualità del lavoro di tracciatura. Particolarmente utile nella realizzazione di riferimenti per il montaggio di tenute meccaniche su alberi durante le fasi di manutenzione delle pompe. Indispensabile nei settori idraulico ed elettrico.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9070010100000 | 400 ml | 1 | **11,52** |

## CAVO FACILE Spray per l'inserimento di cavi elettrici in guaina




### Caratteristiche

CAVO FACILE agevola l'inserimento di cavi elettrici in guaina, cavi telefonici e fibre ottiche. Non intacca plastica e gomma; protegge le parti dall'usura e dall'invecchiamento.

**Applicazioni:** CAVO FACILE trova applicazioni di vario tipo nel settore industriale e della ferramenta.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9320010200000 | 400 ml | 1 | **12,84** |
| CH9320010200001 | 1 lt | 1 | **9,68** |

## COVER-SEAL Sigillante bituminoso, anticorrosione, impermeabilizzante




### Caratteristiche

COVER-SEAL è uno spray sigillante bituminoso persistente ad azione anticorrosiva ed impermeabilizzante. Il prodotto, dopo l'asciugatura crea un film flessibile che garantisce una protezione efficiente e duratura. Contiene solventi non clorurati. Non contiene solventi tossici. Caratterizzato da una notevole resistenza alla corrosione ed una rapida asciugatura. COVER-SEAL previene l'umidità, penetrando capillarmente nelle superfici trattate, crea un film resistente a condizioni estreme: pioggia, vento, acqua marina, ecc.

**Applicazioni:** COVER-SEAL si adatta a qualsiasi tipologia e condizione di applicazione, ed è utilizzabile su qualsiasi materiale (metallo, plastica, cemento, legno, ecc.). Ideale per protezioni esterne: ponti, pavimenti, piloni, tetti, strutture d'acciaio, cisterne, carrozzerie, ecc. Adatto per tubi in PVC o metallo, guarnizioni, crepe e per otturare infiltrazioni su tegole, grondaie, tetti. Indicato anche per la protezione di attrezzature militari, portuali e ferroviarie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9400102000300 | 300 ml | 1 | **36,80** |
| CH940010200030M - manico | - | 1 | **3,72** |











## DET LUB Lubrificante detergente




### Caratteristiche

DET LUB è un composto oleoso semisintetico che penetra e lubrifica in profondità svolgendo, nel contempo, un'ottima azione detergente. Grazie al componente sintetico, permette una lubrificazione più duratura rispetto agli oli tradizionali. È stato inserito nella formulazione di DET LUB uno specifico inibitore di corrosione che ostacola l'ossidazione e la conseguente corrosione delle superfici trattate.

**Applicazioni:** DET LUB trova impiego come detergente-lubrificante principalmente su catene di trasmissione, particolari meccanici (ruote, cuscinetti, utensili, ecc.) e funi metalliche.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9130010100000 | 400 ml | 1 | **11,12** |

## DISTAK NO-SIL Distaccante speciale non siliconico




### Caratteristiche

DISTAK NO-SIL isola e protegge le superfici rendendole antiadesive, ma idonee a ricevere successive operazioni di verniciatura, cromatura e serigrafia.

**Applicazioni:** DISTAK NO-SIL trova impiego nell'industria delle materie plastiche, come distaccante per gli stampi e nel campo della saldatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9230010100000 | 400 ml | 1 | **9,16** |
| CH9230010100030 | 30 Kg | 1 | **428,24** |

## DISTAK SIL Lucidante, distaccante al silicone




### Caratteristiche

DISTAK SIL è una soluzione di particolari agenti siliconici puri. Lascia sulla superficie trattata esclusivamente un velo sottilissimo di polimero siliconico, avente un'azione distaccante, brillantante e protettiva.

**Applicazioni:** DISTAK SIL è molto efficace come distaccante per stampi di materie plastiche e come brillantante per superfici in pelle, finta pelle e materiali plastici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9220010100000 | 400 ml | 1 | **8,28** |
| CH9220010100022 | 22,4 Kg | 1 | **501,76** |

## GAS RIL Rilevatore fughe gas




### Caratteristiche

GAS RIL individua rapidamente le perdite di gas, quali: azoto, ossigeno, aria compressa e anidride carbonica.

**Applicazioni:** GAS RIL può essere utilizzato in ogni punto dell'impianto da verificare, ogni qualvolta si avvertano odori inusuali o anomalie di funzionamento.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9190010100000 | 400 ml | 1 | **10,20** |
| CH9640070100005 | 5 Kg | 1 | **60,00** |

## GRASSO BIANCO Grasso bianco, purezza F.U.




### Caratteristiche

GRASSO BIANCO lubrifica resistendo all'acqua, al vapore ed ai fumi; è una miscela di sostanze lubrificanti con un elevato grado di purezza F.U. (Farmacopea Ufficiale).

**Applicazioni:** L'assenza di sostanze tossiche e l'elevata qualità del formulato rendono GRASSO BIANCO utilizzabile soprattutto negli impianti alimentari, dove vi possa essere contatto accidentale con i cibi; negli impianti farmaceutici e tessili e negli strumenti musicali, per la lubrificazione dei movimenti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9300010100000 | 400 ml | 1 | **9,20** |

## GRASSO FILANTE Grasso filante multiuso ad alta adesività




### Caratteristiche

GRASSO FILANTE è un grasso multiuso ad alta adesività che garantisce una lubrificazione duratura ed un'ottima protezione dall'usura e dall'ossidazione. Molto resistente agli sbalzi di temperatura ed all'acqua salata.

**Applicazioni:** Considerata la sua versatilità, GRASSO FILANTE si presta a molteplici applicazioni in ogni campo industriale, automotive, idraulica, industria navale, ferramenta, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9300010100001 | 400 ml | 1 | **8,88** |

## GRASSO SPRAY Grasso infusibile universale




### Caratteristiche

GRASSO SPRAY è un grasso lubrificante polivalente che resiste in modo molto efficace all'ossidazione, agli alti carichi ed alle alte e basse velocità. È esente da punto di goccia.

**Applicazioni:** GRASSO SPRAY trova impiego principalmente con i seguenti componenti: cuscinetti a sfera, rulli, perni, cilindri, particolari soggetti a forti sollecitazioni ed attriti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9280010100000 | 400 ml | 1 | **12,44** |

## IGIENI CLIMA Igienizzante per impianti di condizionamento




### Caratteristiche

IGIENI CLIMA è uno spray al profumo di brezza marina che permette un efficace trattamento di pulizia e sanificazione, reso evidente anche dalla delicata profumazione che attesta l'avvenuto trattamento di rimozione della carica batterica. È formulato per limitare la contaminazione batterica che si annida nell'impianto di condizionamento, grazie ad un'azione igienizzante, detergente e deodorante.

**Applicazioni:** IGIENI CLIMA viene utilizzato per igienizzare e deodorare gli impianti di condizionamento di auto, uffici, ristoranti e dell'industria in genere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9200010100000 | 400 ml | 1 | **14,56** |

## IGIENI SHOE&HELMET Igienizzante per scarpe e caschi




### Caratteristiche

IGIENI SHOE&HELMET è uno spray innovativo a forte azione igienizzante per il trattamento di scarpe e caschi. Elimina efficacemente gli odori sgradevoli e ne ritarda la formazione, evitando la proliferazione batterica.

**Applicazioni:** IGIENI SHOE&HELMET può essere utilizzato per qualsiasi tipologia di calzature e caschi. Per un'azione più efficace, lasciare agire il prodotto qualche ora prima di indossare nuovamente le calzature o il casco.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9430030100004 | 400 ml | 1 | **8,28** |

## IPER SBLOK Sbloccante iperattivo




### Caratteristiche

La specifica composizione di IPER SBLOK consente di sbloccare rapidamente bulloni, viti e pezzi ossidati in generale, lubrificando e proteggendo contemporaneamente.

**Applicazioni:** IPER SBLOK trova impiego principalmente nelle industrie meccaniche, tessili e siderurgiche, nelle officine, nei cantieri e nei reparti di manutenzione in particolare.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9310010100000 | 400 ml | 1 | **8,28** |
| CH931001010000L | 28 lt | 1 | **499,36** |

## CRICCHE RIL.1 ROSSO Penetrante rosso per cricche




### Caratteristiche

KIT RILEVA CRICCHE è utile per rilevare difetti e imperfezioni nei materiali non porosi. Viene impiegato nel controllo dei processi di saldatura e di elementi sottoposti a sollecitazioni nel tempo, per rilevare crepe, difetti di fusione e cavità aperte sulle parti saldate. L'utilizzo di tale metodologia di verifica non è distruttivo e consente un efficace controllo della qualità, conformità ed uniformità delle superfici. Il kit si compone di 3 prodotti (acquistabili separatamente):

- CRICCHE DET: da utilizzare nella prima fase, prepara la superficie del materiale da controllare all'applicazione dei prodotti successivi, rimuovendo le tracce di sporco; formato 400 ml.

- CRICCHE RIL 1 rosso: da spruzzare abbondantemente sulla superficie, agevola la penetrazione del liquido nel difetto per gravità e capillarità; formato 400 ml.

- CRICCHE RIL 2 bianco: da usare dopo aver rimosso l'eccesso del penetrante (CRICCHE RIL 1 rosso) con l'apposito pulitore. Si spruzza uno strato sottile e uniforme e si attende l'asciugatura. Rende visibili le imperfezioni presenti sulla superficie; formato 400 ml.

**Applicazioni:** KIT RILEVA CRICCHE trova applicazione in molteplici campi d'impiego, ovunque siano presenti materiali non porosi con imperfezioni da rilevare, pertanto il suo uso è consigliato nel settore metallurgico e nell'industria in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH93300102000DT - DET | 400 ml | 1 | **8,68** |
| CH933001020000R - RIL 1 | 400 ml | 1 | **10,72** |
| CH933001020000B - RIL 2 | 400 ml | 1 | **8,36** |
| CH93300102000KT - KIT | - | 1 | **27,68** |

## LEVA GUM Distaccante per gomma




### Caratteristiche

LEVA GUM rimuove residui, anche vecchi, di gomma da masticare e gomma plastica da tutti i tipi di tessuti e pavimenti. I residui di gomma vengono eliminati con facilità, spruzzando il prodotto direttamente sulle macchie. LEVA GUM non lascia tracce appiccicose, né grasse su tessuti e pavimenti.

**Applicazioni:** LEVA GUM può essere utilizzato su tutti i tipi di pavimenti, indumenti e tessuti in poliestere, oltre che su PVC, linoleum, legno e pietra.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9110010100000 | 400 ml | 1 | **24,44** |

## LUBRI ARMI Olio lubrificante per armi




### Caratteristiche

LUBRI ARMI è un olio lubrificante protettivo per la manutenzione delle parti meccaniche di armi in genere. Inibisce l'effetto corrosivo provocato dalle ceneri da sparo.

**Applicazioni:** LUBRI ARMI è indispensabile per operazioni di rimessaggio delle armi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9010010100002 | 200 ml | 1 | **7,48** |

## LUBRI BIANCO Lubrificante oleoso incolore




### Caratteristiche

LUBRI BIANCO è appositamente formulato per lubrificare accuratamente macchine ed attrezzature che necessitano di una lubrificazione "pulita". Può essere utilizzato in alternativa alla vaselina spray.

**Applicazioni:** LUBRI BIANCO trova applicazione principalmente nelle industrie tessili, alimentari e manifatturiere e, più in particolare, sulle macchine per la lavorazione di filati, per le lavorazioni di precisione e per la panificazione.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9290010100000 | 400 ml | 1 | **11,44** |

## LUBRI KAT Lubrificante per catene




### Caratteristiche

LUBRI KAT è una miscela formata da agenti ad alta viscosità e da lubrificanti specifici. L'alto potere adesivo e l'effetto centripeto fanno in modo che il potere lubrificante venga mantenuto costante in un ampio intervallo di temperature, fino a 130-150°C. LUBRI KAT è esente da solventi clorurati.

**Applicazioni:** LUBRI KAT può essere utilizzato su qualunque tipo di catena, su cuscinetti e su ogni particolare in cui la lubrificazione sia resa difficoltosa dall'espulsione del materiale lubrificante normale, a causa della notevole velocità.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9010010100000 | 400 ml | 1 | **9,88** |

## LUBRI LOCK Lubrificante alla grafite per serrature




### Caratteristiche

LUBRI LOCK è uno spray per tutti i tipi di serrature e lucchetti. Lubrifica e agevola il buon funzionamento di meccanismi soggetti a rigature e graffiature; si utilizza nei casi in cui non sia desiderata la presenza di oli.

**Applicazioni:** LUBRI LOCK è ideale per lubrificare e agevolare il buon funzionamento di serrature e lucchetti, pertanto il suo uso è consigliato in uffici, ferramenta e applicazioni industriali di vario tipo.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200004 | 200 ml | 1 | **7,48** |

## LUBRI RAME Antigrip lubrificante al rame




### Caratteristiche

LUBRI RAME è un grasso lubrificante antigrippante per alte temperature, che non brucia fino a 1200°C; resiste alle estreme pressioni di esercizio ed all'acqua dolce e salata.

**Applicazioni:** LUBRI RAME trova applicazione principalmente su stampi, perni di guida, filetti, valvole, testate di estrusione, cavi e tiranti, prigionieri, bussole, alberi e pulegge, giunti di dilatazione e spinotti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9100010100000 | 400 ml | 1 | **13,52** |

## LUBRI SEK Lubrificante secco al PTFE




### Caratteristiche

LUBRI SEK è un composto a base di PTFE, una sostanza chimica inerte e inodore, il cui coefficiente d'attrito è tra i più bassi conosciuti. E' la soluzione ideale per una lubrificazione di lunga durata, resistente all'abrasione e all'azione di liquidi, quali olio e acqua, ed alla polvere. LUBRI SEK mantiene le sue caratteristiche di lubrificazione da –70°C a +300°C; non trattiene la polvere e lo sporco; non contiene silicone, né oli.

**Applicazioni:** LUBRI SEK viene utilizzato per lubrificare a secco stampi, attrezzature di precisione, parti scorrevoli, cerniere, cassetti, serrature e componenti di macchine per la lavorazione del legno, riducendo i tempi di lavoro ed aumentando la durata della lubrificazione dei particolari trattati. Rende le superfici antiadesive scorrevoli senza ungerle e senza trattenere polvere e sporco. LUBRI SEK è particolarmente indicato, come distaccante inerte, nello stampaggio tecnico di materie plastiche. Raccomandato nel settore tessile, in quello tipografico, nelle falegnamerie e in tutte le applicazioni nelle quali venga richiesta una lubrificazione pulita, secca, prova di odore e di lunga durata.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9030010100000 | 400 ml | 1 | **12,72** |

## LUBRI SIL Lubrificante viscoso al silicone




### Caratteristiche

LUBRI SIL è un fluido siliconico ad alta viscosità e senza solventi; appositamente formulato per essere utilizzato come distaccante, lubrificante ed impermeabilizzante.

**Applicazioni:** LUBRI SIL viene utilizzato principalmente per guarnizioni industriali, linee di imbottigliamento, nastri trasportatori e nelle industrie alimentari in genere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9210010100000 | 400 ml | 1 | **12,92** |

## LUCID INOX Lucidante per acciaio inox




### Caratteristiche

LUCID INOX è appositamente formulato per ravvivare e lucidare l'acciaio inossidabile.

**Applicazioni:** LUCID INOX trova applicazione come brillantante di notevole efficacia su tutte le superfici in acciaio inossidabile.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9080010100000 | 400 ml | 1 | **10,72** |

## MULTI COLLA Colla multiuso




### Caratteristiche

MULTI COLLA è un adesivo a base di elastomeri termoplastici e resine sintetiche in soluzione solvente. Indicato per l'incollaggio di gomma, schiuma poliuretanica, materiale sintetico, moquette su pareti, tessuti, legno, superfici metalliche. È indicato inoltre per l'incollaggio di sughero, alluminio, pelle, metalli, plastica, materiali espansi, vetro e carta.

**Applicazioni:** MULTI COLLA trova applicazione in vari settori: automotive, ferramenta, uffici, idraulica e impianti di condizionamento, settore nautico e per usi industriali di vario tipo.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200005 | 400 ml | 1 | **11,32** |

## MULTI DET Detergente multiuso




### Caratteristiche

MULTI DET è formulato per asportare tutte le macchie solubili in acqua da tappeti, tappezzerie, tessuti e interni di automobili, lasciando un gradevole profumo di pulito. È la soluzione ideale per rimuovere segni e impronte digitali da pareti, ceramiche, superfici verniciate ed infissi. MULTI DET è adatto per la pulizia e la sanificazione di laminati e plastica. Impiegato anche nelle cucine per sgrassare fornelli, piastre di cottura, cappe e superfici in acciaio inossidabile.

**Applicazioni:** Per le sue molteplici funzioni, MULTI DET trova applicazione in tutti i settori industriali, con particolare riferimento al comparto automobilistico (per la pulizia degli interni dei veicoli), alle comunità, a bar e ristoranti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9040010100000 | 400 ml | 1 | **9,08** |

## MULTI KLEAN Antistatico lucidante satinato




### Caratteristiche

MULTI KLEAN pulisce e lucida senza lasciare aloni, creando un velo protettivo invisibile sulle superfici trattate. Rimuove e previene l'accumulo di elettricità statica ed assicura una lunga protezione e riduzione della formazione di polvere.

**Applicazioni:** MULTI KLEAN può essere utilizzato su tutti i tipi di superfici, quali PVC, gomma, plastica, legno, acciaio, vetro e ceramica. Trova applicazione nell'industria in genere, nel settore automotive, negli uffici e nel settore dell'arredamento.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9250010100000 | 400 ml | 1 | **10,20** |

## MULTI SOLV Spray detergente, sgrassante e deodorante




### Caratteristiche

MULTI SOLV è un formulato di origine naturale che deterge, sgrassa e deodora tutte le superfici metalliche, lasciando nell'ambiente un gradevole aroma agli agrumi.

**Applicazioni:** Grazie alle sue proprietà multifunzionali, MULTI SOLV trova diversi impieghi, ad esempio come detergente deodorante per officine, come sgrassante deodorante e dissolvente per pozzetti di scarico mense e come solvente per grassi e depositi bituminosi. Inoltre, MULTI SOLV è particolarmente indicato per la rimozione di lubrificanti, grassi, cere, inchiostri, colle ed adesivi e per la pulizia dei retini serigrafici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9240010100000 | 400 ml | 1 | **11,96** |

## MULTI SPRAY 4.0 Spray multifunzione, sbloccante e lubrificante




### Caratteristiche

MULTI SPRAY 4.0 è stato appositamente formulato per facilitare lo smontaggio di pezzi ossidati, aggiungendo contemporaneamente un'azione sgrassante, lubrificante, idrorepellente e protettiva di lunga durata. La sua moderna formulazione, contenente un solvente di origine bio, consente di ottenere 8 diverse funzioni con un unico prodotto

- Azione **SBLOCCANTE**: aggredisce la ruggine e le ossidazioni favorendo il rapido sbloccaggio di bulloni, viti, dadi, serrature, cerniere, cuscinetti, stampi, utensili pneumatici, attrezzature, ecc.

- Azione **PENETRANTE**: agisce in modo estremamente rapido grazie all'elevatissimo potere penetrante che consente di raggiungere rapidamente le zone che necessitano della sua azione.

- Azione **SGRASSANTE**: sgrassa le superfici, eliminando l'unto e lo sporco più tenace.

- Azione **DETERGENTE**: lo speciale additivo contenuto in MULTI SPRAY 4.0 ha un forte potere disgregante anche sulle formazioni di sporco non di origine oleomorchiosa (polvere sedimentata, leggere incrostazioni).

- Azione **PROTETTIVA**: forma una sottile pellicola che protegge, a lungo nel tempo, i metalli dall'ossidazione.

- Azione **LUCIDANTE**: le parti trattate assumono uno splendido aspetto brillante.

- Azione **LUBRIFICANTE**: assicura una lubrificazione repellente alla polvere; non contiene siliconi.

- Azione **IDROREPELLENTE**: la pellicola lasciata da MULTI SPRAY 4.0 protegge i particolari trattati dall'umidità, prevenendo i problemi da essa causati (per esempio i cortocircuiti).

**Applicazioni:** MULTI SPRAY 4.0 trova largo impiego nelle industrie meccaniche, tessili, siderurgiche, di manutenzione automezzi, nelle officine e nei reparti di manutenzione in genere. Le particolari caratteristiche idrorepellenti lo rendono utilizzabile anche sui condotti elettrici, oltre che nei settori nautico e ciclistico.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9150010100100 | 100 ml | 1 | **6,75** |
| CH9150010100040 | 400 ml | 1 | **13,75** |
| CH9150010100050 | 5 lt | 1 | **112,20** |

## NO-SLIDE Pellicola antiscivolante




### Caratteristiche

NO-SLIDE è una vernice per impieghi in ambito antinfortunistico. L'applicazione del prodotto crea una patina antiscivolo ruvida al tatto idonea per superfici scivolose come gradini, piastrelle, marmo ecc. Non ingiallisce nel tempo e non contiene piombo, cadmio e cromo. Colori disponibili: trasparente e fluorescente.

**Applicazioni:** NO-SLIDE trova applicazione in ferramenta, nel settore nautico e nell'industria in generale. Può essere utilizzato su svariati supporti come metallo, plastica, legno, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200001 | 400 ml | 1 | **11,12** |
| CH9330010200002 | 400 ml | 1 | **15,96** |

## PEELABLE FILM Pellicola pelabile




### Caratteristiche

PEELABLE FILM è una pittura asportabile a strappo per il rivestimento temporaneo di macchine e manufatti in genere (vetro, zone cromate, superfici metalliche non porose) da preservare durante periodi di inoperosità o durante le spedizioni nei lunghi viaggi via mare in coperta. Questo prodotto deve essere applicato esclusivamente su superfici inerti, non porose e inalterabili dal contatto con solventi aggressivi.

**Applicazioni:** PEELABLE FILM è adatto per riparare le superfici da abrasioni, graffi, sporcizia e condizioni climatiche. Il suo uso è consigliato nel settore automotive, ferramenta, uffici e applicazioni industriali di vario tipo.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200003 | 400 ml | 1 | **13,36** |

## PROTEKT Protettivo semi-oleoso antiossidante




### Caratteristiche

PROTEKT protegge tutti i metalli e le superfici pregiate dall'umidità e dall'ossidazione. Previene la corrosione provocata dalle impronte digitali e ravviva le superfici finite.

**Applicazioni:** PROTEKT trova applicazione principalmente su stampi, ingranaggi, utensili, strumenti di misura, armi e manufatti pregiati.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9170010100000 | 400 ml | 1 | **8,68** |

## PROTEKT TRASP Vernice protettiva trasparente, anticorrosiva, antiossidante




### Caratteristiche

PROTEKT TRASP forma una pellicola resistente agli agenti corrosivi, alle ossidazioni ed all'umidità, senza ingiallire.

**Applicazioni:** PROTEKT TRASP è ideale per la protezione di documenti cartacei, circuiti elettronici, parti in plastica e ceramica.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200000 | 400 ml | 1 | **11,64** |

## PULI ELEK Pulitore per dispositivi elettrici ed elettronici




### Caratteristiche

PULI ELEK è il prodotto ideale per lo sgrassaggio rapido e senza residui di unto, sporco, polvere e umidità dalle apparecchiature elettriche ed elettroniche, non sotto tensione. PULI ELEK è esente da carbonio tetracloruro e da clorofluorocarburi.

**Applicazioni:** PULI ELEK trova applicazione nei reparti di manutenzione per la pulizia di condizionatori d'aria, interruttori, generatori, alternatori, trasformatori, spazzole, motori elettrici, collettori, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9050010100000 | 400 ml | 1 | **7,92** |

## ROAD TRAK Vernice spartitraffico




### Caratteristiche

ROAD TRAK è una vernice tracciante ideale per creare la segnaletica di parcheggi, segnalare zone di pericolo, demarcare opere di manutenzione, rendere visibili termini di riferimento di lavori di posa, scavi, ecc. E' molto resistente agli agenti atmosferici e chimici; garantisce l'ottenimento di linee di alta precisione.

**Applicazioni:** ROAD TRAK trova applicazione in svariati settori industriali, edilizia, ferramenta e può essere utilizzato su numerose superfici quali cemento, asfalto, vetro, legno, materiali sintetici.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH9330010200502 | Blu | 500 ml | 1 | **22,00** |
| CH9330010200501 | Giallo | 500 ml | 1 | **22,00** |
| CH9330010200500 | Rosso | 500 ml | 1 | **22,00** |

## SPRAY INOX Rivestimento protettivo a base di acciaio inossidabile




### Caratteristiche

SPRAY INOX consente di conferire un rivestimento in acciaio inossidabile ai metalli ferrosi, ripristinare la patina inox compromessa dalle operazioni di saldatura, rifinire le superfici di acciaio inox danneggiate dall'azione degli agenti atmosferici, proteggere dall'ossidazione i materiali ferrosi sottoposti alle alte temperature.

**Applicazioni:** SPRAY INOX trova applicazione principalmente nel settore industriale, su tutte le superfici metalliche e parti meccaniche sottoposte al rigore delle intemperie e del calore (resistente fino a 500-600°C). SPRAY INOX è inoltre indicato nel settore delle costruzioni metalliche in acciaio inox per ricoprire le parti annerite dai processi di saldatura, nel settore autotrazioni per proteggere i monoblocchi del motore, i collettori, gli scappamenti e le marmitte di scarico, oltre che per trattare cerchioni e superfici genericamente esposte alle intemperie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9090010100000 | 400 ml | 1 | **15,36** |

## STOP COLLA Spray per rimozione colla




### Caratteristiche

STOP COLLA è un solvente sgrassante in grado di dissolvere resine siliconiche, residui di etichette, adesivi, oli e grassi. Non attacca metalli, plastiche e gomme e lascia un gradevole aroma agli agrumi.

**Applicazioni**: STOP COLLA può essere utilizzato su tutte le superfici per rimuovere rapidamente residui di etichette, adesivi, nastri adesivi; è inoltre un ottimo detergente per inchiostri.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9120010100000 | 400 ml | 1 | **10,72** |
| CH9120010100005 | 5 lt | 1 | **118,76** |
| CH9120010100028 | 28 lt | 1 | **611,84** |

## STOP RUGGINE Spray per la rimozione della ruggine




### Caratteristiche

STOP RUGGINE è un prodotto di nuova formulazione, ad alto potere penetrante e lubrificante che ghiaccia, rompe e separa le molecole che compongono la ruggine.

**Applicazioni:** STOP RUGGINE trova applicazione in diversi settori quali: industria, automotive, ferramenta e idraulica.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9340010200000 | 400 ml | 1 | **11,72** |

## STOP UMIDITA' Idrorepellente antiumidità




### Caratteristiche

STOP UMIDITÀ è uno spray che garantisce una protezione idrorepellente e forma una barriera antiumidità, evita dispersioni elettriche ed è ideale per il ripristino della funzionalità di motori elettrici, bobine, morsetterie, quadri, calotte, batterie soggette ad esposizione in ambienti umidi.

**Applicazioni:** STOP UMIDITÀ trova applicazione in ferramenta, nel settore nautico, automotive e nell'industria in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9330010200007 | 400 ml | 1 | **7,76** |

## VETRO Detergente per superfici in vetro e policarbonato




### Caratteristiche

VETRO è un formulato che, senza l'ausilio di prodotti abrasivi o caustici, consente di detergere perfettamente e senza aloni vetri, policarbonato e superfici speculari. Le ottime prestazioni del prodotto sono ottenute grazie all'inserimento nella formulazione di particolari agenti antistatici ed antipolvere che ostacolano attivamente il depositarsi dello sporco, garantendo alle superfici una protezione duratura nel tempo.

**Applicazioni:** VETRO è indicato per la pulizia di superfici in policarbonato, vetri e specchi, superfici cromate, acciaio inox, superfici smaltate, laminati plastici, cristalli di autoveicoli.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9160010100000 | 400 ml | 1 | **7,68** |

## ZINCO TEK Zincante protettivo chiaro




### Caratteristiche

ZINCO TEK crea un rivestimento protettivo, ideale per proteggere tutte le superfici ferrose dalla corrosione, per ripristinare la zincatura compromessa dall'azione degli agenti atmosferici e per rivestire parti zincate danneggiate dalle operazioni di saldatura.

**Applicazioni:** ZINCO TEK trova applicazione nella lavorazione e nella manutenzione di tetti metallici, grondaie, serramenti, strutture, contenitori, impianti alimentari e non, attrezzature, saldature, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9180010100000 | 400 ml | 1 | **11,12** |

## ZINCO TEK BRILL Zincante chiaro brillante




### Caratteristiche

ZINCO TEK BRILL crea un rivestimento protettivo, ideale per proteggere tutte le superfici ferrose dalla corrosione, per ripristinare la zincatura compromessa dall'azione degli agenti atmosferici e per rivestire parti zincate danneggiate dalle operazioni di saldatura. ZINCO TEK BRILL trova applicazione nella lavorazione e nella manutenzione di tetti metallici, grondaie, serramenti, strutture, contenitori, impianti alimentari e non, attrezzature, saldature, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9185010100000 | 400 ml | 1 | **9,88** |

## Optimum, solvente e pulitore HD




### Caratteristiche

Utilizzabile prima, durante e dopo la ricerca di cricche. Utilizzo con liquidi penetranti: il prodotto può essere utilizzato sia nella fase di preparazione dell'ispezione, sia nella fase di asportazione del penetrante in eccesso, sia nella pulizia finale per rimuovere il Rivelatore. Utilizzo con Liquidi Magnetici: il prodotto può essere utilizzato sia nella fase di preparazione dell'ispezione, sia nella pulizia finale per rimuovere la Lacca Bianca di Contrasto e il Liquido/Spray Magnetico. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007001S | 400 ml | 1 | **15,60** |

## Optimum, penetrante rosso HD




### Caratteristiche

Per la ricerca di difetti, imperfezioni e cricche in saldatura. Da utilizzare dopo la fase di pulizia preliminare con il Solvente e Pulitore. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007002R | 400 ml | 1 | **19,60** |

## Optimum, rilevatore bianco HD




### Caratteristiche

Utilizzabile dopo il Penetrante Rosso per evidenziare le cricche trovate. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800101007003B | 400 ml | 1 | **18,40** |

## Optimum, liquido magnetico nero HD




### Caratteristiche

Per l'individuazione di cricche, difetti e imperfezioni; da utilizzare dopo l'applicazione della Lacca Bianca di contrasto. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800102007002M | 400 ml | 1 | **23,20** |

## Optimum, lacca bianca di contrasto




### Caratteristiche

Utilizzabile dopo la fase di pulizia preliminare con il Solvente e Pulitore per aumentare il contrasto dello spray Magnetico Nero. Certificata CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800102007001L | 400 ml | 1 | **18,20** |

## Optimum, penetrante fluorescente liquido




### Caratteristiche

Per la ricerca di difetti, imperfezioni e cricche in saldatura; da utilizzare dopo la fase di pulizia preliminare con il Solvente e Pulitore. Colore giallo-fluorescente. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH800103007001F | 5 lt | 1 | **252,00** |

## Optimum, magnetico fluorescente liquido




### Caratteristiche

Per l'individuazione di cricche, difetti e imperfezioni. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH80010300701FM | 5 lt | 1 | **145,40** |

## Optimum, rilevatore fughe gas




### Caratteristiche

Per la rapida individuazione delle fughe di gas. Certificato CND.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8000010070010 | 300 gr | 1 | **19,60** |

## IPER MANI Liquido lavamani superconcentrato




### Caratteristiche

IPER MANI è stato formulato per l'impiego specifico negli ambienti di lavoro in cui il tipo di sporco, depositato sull'epidermide durante le lavorazioni, risulta particolarmente tenace. IPER MANI è dermocompatibile e risponde alle normative sui prodotti cosmetici.

**Applicazioni:** IPER MANI trova applicazione principalmente nelle officine meccaniche, nelle officine di riparazione auto e nell'industria in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9020020100005 | 5 kg | 1 | **49,48** |
| CH9020020100030 | 30 kg | 1 | **248,48** |

## MANI BAR Crema barriera mani




### Caratteristiche

MANI BAR protegge le mani, con un guanto invisibile, dal contatto con tutte le sostanze che possono provocare irritazioni, allergie o dermatiti. Può essere anche utilizzata preventivamente, prima di indossare guanti da lavoro, al fine di neutralizzare gli inconvenienti causati dalla sudorazione. MANI BAR resiste a numerosi lavaggi e risponde alle normative sui prodotti cosmetici.

**Applicazioni:** MANI BAR trova applicazione nelle industrie, nelle officine e nei locali pubblici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020100000 | 400 ml | 1 | **10,84** |

## MANI CREAM Crema lavamani con effetto abrasivo




### Caratteristiche

MANI CREAM è ideale per detergere le mani da sporco, grasso ed unto, resistenti ai comuni lavamani. Rimuove lo sporco più tenace, lasciando le mani morbide.

**Applicazioni:** MANI CREAM viene utilizzato principalmente nelle officine meccaniche e metalmeccaniche, nelle carpenterie, nel settore agricolo, nel settore dell'autoriparazione e dell'edilizia. L'erogazione tramite dispenser riduce gli sprechi di prodotto e ne garantisce l'igiene, preservando le qualità originarie del prodotto stesso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9040020100000 | 5 kg | 1 | **46,48** |

## MANI GEL Gel lavamani abrasivo bianco, senza solventi




### Caratteristiche

MANI GEL è una sospensione detergente ad elevata stabilità, con un particolare abrasivo, completamente solubile in acqua e, quindi, asportabile in modo completo dalla pelle. È realizzato con un'opportuna miscela di tensioattivi dermocompatibili. MANI GEL è da considerarsi "non irritante" (disponibile test di irritazione cutanea primaria).

**Applicazioni:** MANI GEL trova specifico impiego nelle officine meccaniche, per operatori che eseguono lavori a contatto con sporchi molto tenaci, quali unti di macchinari e grassi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9050020100005 | 5 kg | 1 | **65,44** |

## MANI OFFICE Sapone liquido a pH neutro




### Caratteristiche

MANI OFFICE è un sapone liquido a pH neutro con tensioattivi dolci emollienti che svolgono un'azione delicata e detergente, lasciando le mani morbide, protette e gradevolmente profumate, rispettando il naturale equilibrio della pelle.

**Applicazioni:** MANI OFFICE trova impiego principalmente in uffici, alberghi e ristoranti, scuole, mense, bar, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9030020100001 | 1 lt | 1 | **6,12** |
| CH9030020100005 | 5 kg | 1 | **27,20** |

## MANI SAN Gel lavamani no-acqua




### Caratteristiche

MANI SAN è un gel formulato specificatamente per rimuovere e tenere lontani germi e batteri presenti sulle mani. Può essere utilizzato frequentemente perché non danneggia il film lipidico delle mani, ma ne protegge l'igiene e funge da barriera. MANI SAN non lascia le mani appiccicose; è idoneo anche per la rimozione di odori sgradevoli dalle mani.

**Applicazioni:** MANI SAN viene utilizzato senza acqua, in ogni situazione in cui ci sia la necessità di igienizzare e pulire le mani. In particolare, MANI SAN trova applicazione in tutti i luoghi di lavoro ed in ambienti di contatto con persone e cose (uffici, mezzi pubblici, magazzini, ristoranti, ecc.) ed in tutti i settori alimentari.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9000020100000 | 200 ml | 1 | **10,08** |
| CH9000020100500 | 500 ml | 1 | **15,00** |

## SCRAT Pasta lavamani ai gusci di nocciola




### Caratteristiche

SCRAT è un detergente in pasta ai gusci di nocciola adatto a tutti i tipi di sporco, particolarmente indicato per rimuovere dalle mani residui di grasso, vernice e macchie di ogni genere. L'effetto abrasivo del prodotto deriva da gusci di nocciola finemente triturati, non contiene silice né solventi, agisce in profondità anche nei punti più difficili.

**Applicazioni:** SCRAT è consigliato in tutti gli ambienti industriali e per uso domestico.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020700001 | 1000 ml | 1 | **4,88** |
| CH9060020700004 | 4000 ml | 1 | **16,56** |

## VULCANO Pasta lavamani a base di roccia lavica




### Caratteristiche

VULCANO è un detergente in pasta a base di roccia lavica, ad alto potere pulente. Agisce in profondità, proteggendo le pelli delicate ed evitando screpolature. Particolarmente indicato per rimuovere dalle mani lo sporco più tenace (olio, grasso, vernice, ecc.). Non ottura i lavandini perché si scioglie a contatto con l'acqua; non contiene solventi, né silice.

**Applicazioni:** VULCANO è consigliato in tutti gli ambienti industriali.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020700010 | 1000 ml | 1 | **6,48** |
| CH9060020700040 | 4000 ml | 1 | **19,23** |

## TNT UMI Salviette detergenti e sgrassanti




### Caratteristiche

TNT UMI sono salviette in TNT (tessuto non tessuto) con un lato abrasivo, impregnate di una soluzione detergente molto efficace che elimina dalle mani e dalle superfici anche lo sporco più difficile.

**Applicazioni:** TNT UMI senz'acqua, rapidamente e senza dover ricorrere a sostanze abrasive, rimuove dalle mani e dalle superfici numerosi tipi di contaminanti quali: olio, grasso, catrame, colle, vernici fresche, inchiostri, tracce d'erba e di resina, residui carboniosi, nerofumo, nicotina, tracce di benzina e di gasolio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9010020100000 | 140 strappi | 1 | **36,40** |

## BLU SKIN Benda elastica protettiva, autoadesiva






### Caratteristiche

BLU SKIN è un “bendaggio protettivo di primo soccorso” unico, specifico per tagli o abrasioni di mani e braccia nel settore industriale. Può essere utilizzato immediatamente dopo il trattamento iniziale della ferita; possiede un’eccellente resistenza ad acqua, grasso e sporco. La benda BLU SKIN è elastica, facile da utilizzare, flessibile e traspirante; protegge da umidità e sporco, aderisce solo su se stessa e non si appiccica alla pelle e ai capelli, non impedisce il movimento, è ideale anche come protezione di altri bendaggi/ medicazioni.

**Applicazioni:** BLUS SKIN ha molteplici impieghi: trattamento facile e veloce di piccole ferite ed abrasioni, trattamento di contusioni e stiramenti come benda di supporto (autoriparazioni, industrie, esercizi commerciali, club sportivi, scuole, asili, uffici, ecc.), protezione delle mani durante lavori di assemblaggio e produzione, protezione durante la riparazione, imballaggio o smistamento di piccoli pezzi, protezione durante le lavorazioni con carta abrasiva (settore automotive), protezione durante la stuccatura di pietre e piastrelle, protezione durante lavori di cucitura, protezione delle mani da sfregamento o continue pressioni, o dalla manipolazione di oggetti taglienti (stoccaggio, lavorazione metalli, lucidatura), protezione di prodotti delicati da impronte digitali o pelle oleosa (industria ottica, elettronica).

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8900101000005 | 50mm x 4,5mt | 1 | **20,72** |

## ALU DET Schiuma detergente




### Caratteristiche

ALU DET è una schiuma detergente per grassi animali e vegetali e per tutte le superfici. La schiuma attiva di ALU DET emulsiona i grassi e ne consente la successiva dispersione tramite un normale risciacquo. Specificatamente formulato per penetrare, rimuovere e dissolvere grassi animali, vegetali, sporchi proteici e untuosità da pavimenti, superfici verticali, automezzi e tende da esterno.

**Applicazioni:** ALU DET è ideale per la pulizia di controsoffittature sporche di nicotina. Non intacca vernici e metalli. ALU DET trova impiego principalmente per la pulizia di veicoli industriali, serramenti, teloni, pavimenti e superfici verticali, celle frigorifere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9360030100005 | 5 kg | 1 | **44,44** |
| CH9360030100030 | 30 kg | 1 | **247,92** |

## BLU DET Detergente concentrato per lavaggio di indumenti da lavoro




### Caratteristiche

BLU DET è un formulato super concentrato con spiccate caratteristiche detergenti, specifico per il lavaggio di indumenti da lavoro. Consente di ottenere ottimi risultati anche a basse temperature, senza prelavaggio e con qualsiasi tipo di acqua. Dopo il lavaggio la biancheria risulta pulita, non infeltrita, morbida e profumata.

**Applicazioni:** BLU DET può essere impiegato in impianti grandi o piccoli, e può essere dosato manualmente o con dosatori elettronici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9370030100005 | 5 kg | 1 | **65,64** |

## FULL DET Sgrassatore e detergente concentrato per sporchi difficili




### Caratteristiche

FULL DET è uno sgrassatore detergente universale ad altissima concentrazione in grado di solubilizzare ed emulsionare ogni tipo di sporco, particolarmente adatto per la rimozione di sporchi di origine minerale: morchia, catrame, fluidi da taglio, lubrificanti. Formula concentrata a base di tensioattivi cationici. Per uso professionale. FULL DET si diluisce in acqua al 3-5%, per lavaggi di fondo aumentare la dose al 5-15%. In caso di sporchi particolarmente ostinati utilizzare il prodotto diluito al 50%; spruzzato puro sulle superfici funziona come solvente solubilizzante. Non contiene solventi e componenti nocivi per l'operatore.

**Applicazioni:** FULL DET viene impiegato principalmente per la pulizia e lo sgrassaggio di macchine utensili, macchine da stampa, superfici plastiche, macchine tessili, presse di stampaggio, pavimentazioni.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9410030100001 | 1lt | 1 | **10,60** |
| CH9410030110005 | 5 lt | 1 | **39,36** |
| CH9410030110025 | 25 lt | 1 | **189,28** |

## IDRO DET Sgrassante concentrato per idropulitrici




### Caratteristiche

IDRO DET è appositamente indicato per pulire e brillantare tutte le parti verniciate (carrozzerie, mezzi di trasporto ecc.), per rimuovere sporchi pesanti da particolari meccanici e da macchinari, per sgrassare le superfici metalliche prima della verniciatura.

**Applicazioni:** IDRO DET è raccomandato per l'utilizzo con macchine idropulitrici ad acqua calda e trova impiego principalmente per la pulizia di carrozzerie di autoveicoli, cabine di autocarri, autocisterne, furgoni, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9480030100005 | 5 kg | 1 | **51,12** |
| CH9480030100030 | 30 kg | 1 | **199,76** |

## IGIENI DET Detergente deodorante igienizzante a base quaternaria




### Caratteristiche

IGIENI DET è un detergente, diluibile in acqua, appositamente formulato per igienizzare e deodorare tutte le superfici lavabili; disponibile nella gradevole profumazione di pino.

**Applicazioni:** IGIENI DET può essere utilizzato su qualsiasi superficie lavabile.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9430030100005 | 5 kg | 1 | **34,96** |

## INDU PAV Detergente per pavimentazioni industriali




### Caratteristiche

INDU PAV è un detergente concentrato, diluibile in acqua, appositamente formulato per sgrassare meccanicamente e manualmente pavimenti sporchi di unto, olio e grasso, senza risciacquo.

**Applicazioni:** INDU PAV trova applicazione in ogni settore industriale dove sia necessaria un'energica azione pulente.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9440030100001 | 1 kg | 1 | **9,80** |
| CH9440030100005 | 5 kg | 1 | **47,08** |
| CH9440030100030 | 30 kg | 1 | **195,52** |
| CH9440030100220 | 220 kg | 1 | **1.397,84** |

## MAK DET Detergente acquoso per macchinari




### Caratteristiche

MAK DET è costituito da un'accurata miscela, in ambiente acquoso, di alcali tamponati, agenti bagnanti e detergenti specifici, nonché solventi idrocompatibili che sviluppano un'intensa azione sinergica, assicurando una perfetta e rapida azione detergente su superfici naturali e sintetiche. La bassissima schiuma permette, inoltre, di evitare l'azione di risciacquo. MAK DET esercita anche una leggera azione antiruggine sulle superfici metalliche sgrassate; è diluibile in acqua, non è corrosivo e non emana odori sgradevoli.

**Applicazioni:** MAK DET viene impiegato principalmente per la pulizia di macchine utensili, macchine da stampa, superfici plastiche, macchine tessili, presse di stampaggio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9410030100005 | 5 kg | 1 | **44,04** |
| CH9410030100030 | 30 kg | 1 | **206,24** |
| CH9410030100220 | 220 kg | 1 | **1.444,32** |

## MOTO DET Sgrassante acquoso per lavaggio motori




### Caratteristiche

MOTO DET è un prodotto a pH neutro, diluibile in acqua, costituito da una miscela di alcali tamponati, estratti di origine naturale ed alcoli. Non è corrosivo, non intacca i metalli e la quasi totalità delle vernici e delle materie plastiche usate in campo automobilistico.

**Applicazioni:** MOTO DET viene impiegato principalmente nel settore automotive per il lavaggio dei motori, dei vani motore, oltre che nella manutenzione industriale per sgrassare particolari meccanici montati e smontati dove l'impiego di solventi aromatici o detergenti alcalini risulta essere controindicato.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9400030100030 | 30 kg | 1 | **273,80** |

## NEUTRO DET Detergente neutro universale




### Caratteristiche

NEUTRO DET è un detergente liquido a pH neutro, utilizzabile sia diluito che puro. Anche utilizzato puro, non genera schiuma, limitando l'azione di risciacquo. NEUTRO DET è indicato anche per la rimozione di oli interi ed emulsionabili.

**Applicazioni:** NEUTRO DET viene impiegato principalmente per la pulizia di superfici plastiche e verniciate, superfici sintetiche, macchine tessili, macchine utensili, porcellana, marmo, alluminio, linoleum, pavimentazioni industriali.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9380030100001 | 1 kg | 1 | **9,40** |
| CH9380030100005 | 5 kg | 1 | **44,92** |
| CH9380030100030 | 30 kg | 1 | **188,80** |

## NO-RUGGINE Antiruggine a spruzzo e ad immersione




### Caratteristiche

NO-RUGGINE è stato appositamente formulato per additivare i bagni detergenti alcalini a freddo e a caldo, i bagni di risciacquo e le soluzioni di raffreddamento e per conferire un elevato potere antiossidante. NO-RUGGINE non contiene soda caustica e nitriti e non provoca schiuma.

**Applicazioni:** NO-RUGGINE trova impiego negli impianti di lavaggio dei metalli ferrosi e di particolari metallici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9420030100030 | 30 kg | 1 | **251,48** |

## SIKUR DET Sgrassante acquoso concentrato a pH neutro




### Caratteristiche

SIKUR DET è un prodotto, diluibile in acqua, costituito da una miscela in ambiente acquoso di alcali tamponati, estratti di origine naturale ed alcoli, formulato appositamente per pulire a fondo le superfici lavabili e i pavimenti da sporchi tenaci quali unto, fuliggine e macchie pesanti. La sua particolare formulazione, oltre a detergere, profuma l'ambiente con una gradevole fragranza di agrumi. SIKUR DET non richiede risciacquo, non è corrosivo e non intacca l'alluminio e la quasi totalità delle vernici industriali e delle materie plastiche.

**Applicazioni:** SIKUR DET trova applicazione in ogni settore industriale dove sia necessario operare con sicurezza e dove si0 un'energica azione pulente. Raccomandato per l'impiego sia manuale che con macchine lava-asciuga pavimenti, per la pulizia delle pavimentazioni di ogni genere nei reparti produttivi delle industrie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9390030100005 | 5 kg | 1 | **47,08** |
| CH9390030100030 | 30 kg | 1 | **252,72** |

## SUPER DET Detergente bifasico per sporco tenace




### Caratteristiche

SUPER DET è stato appositamente formulato per la rimozione dello sporco tenace e dello smog da tutte le superfici, esercitando la sua azione in modo rapido ed energico. Alle concentrazioni consigliate, non intacca i metalli ferrosi e la quasi totalità delle materie plastiche utilizzate in campo automobilistico.

**Applicazioni:** SUPER DET viene impiegato principalmente nella pulizia di veicoli industriali, macchine movimentazione a terra, pavimenti di officine, vani motore, teloni, ruote di autoveicoli.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9450030100005 | 5 kg | 1 | **62,44** |

## ULTRA DET Detergente per impianti di lavaggio ad ultrasuoni




### Caratteristiche

ULTRA DET è un detergente universale, raccomandato per lavare qualsiasi tipo di metallo negli impianti ad ultrasuoni.

**Applicazioni:** ULTRA DET trova applicazione principalmente nell'industria meccanica e nei reparti di manutenzione per lo sgrassaggio di pezzi finiti e semilavorati, sporchi di grasso, unto e residui carboniosi. Specifico per il lavaggio delle celle in alluminio dei filtri elettrostatici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9460030100030 | 30 kg | 1 | **703,36** |
| CH9460030100200 | 200 kg | 1 | **5.114,64** |
| CH9460030101000 | 1000 kg | 1 | **23.044,16** |

## VETRI DET Detergente per vetri e specchi




### Caratteristiche

VETRI DET ha una formula che contiene tensioattivi facilmente e rapidamente biodegradabili che permettono una perfetta pulizia e brillantezza delle superfici, quali vetri e specchi, senza lasciare aloni.

**Applicazioni:** VETRI DET viene impiegato per la pulizia di vetri, specchi, finestre e superfici dure in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9470030100001 - con spruzzatore | 1 lt | 1 | **7,96** |
| CH947003010001R | 1 lt | 1 | **6,68** |
| CH9470030100005 | 5 kg | 1 | **24,04** |
| CH9470030100030 | 30 kg | 1 | **108,28** |

## SIKUR SOL Solvente universale, inodore, antisiliconico




### Caratteristiche

SIKUR SOL è un solvente universale, inodore, antisiliconico, a bassa volatilità. Sostituisce con la massima sicurezza ed efficienza i solventi tradizionali clorurati e non, ottemperando alle disposizioni di legge in materia.

**Applicazioni:** SIKUR SOL trova applicazione nei settori meccanico, elettromeccanico, tessile, lavorazione e stampaggio materie plastiche e gomma. Idoneo per rimuovere unti, grassi, oli e protettivi dai pezzi e per le operazioni di manutenzione.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9490040100005 | 3,85 kg | 1 | **82,40** |
| CH9490040100021 | 21,8 kg | 1 | **403,80** |
| CH9490040100156 | 156 kg | 1 | **2.630,04** |

## UNI SOL Solvente universale per lo sgrassaggio di metalli




### Caratteristiche

UNI SOL grazie al suo potere solvente, agisce energicamente nell'eliminazione di grassi e oli lubrificanti dai pezzi prima della verniciatura o della pulizia in genere. E' un ottimo sostituto dell'1.1.1-tricloroetano, offrendo un elevato potere solvente ed un basso impatto ambientale. È assolutamente importante considerare il punto d'infiammabilità di 2°C e quindi utilizzare il prodotto in ambienti idonei all'impiego di sostanze infiammabili, con apparati adatti ed evitare l'accumulo di cariche elettrostatiche.

**Applicazioni:** UNI SOL trova applicazione nei settori meccanico, elettromeccanico, tessile per pulire i pezzi durante le operazioni di lavorazione, montaggio e revisione. Particolarmente indicato per la preparazione dei materiali prima della verniciatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9500040100020 | 20,4 kg | 1 | **329,68** |

## DIS CEM Disincrostante per cemento




### Caratteristiche

DIS CEM è un prodotto acido ad elevata concentrazione, specifico per la rimozione di leggeri strati di cemento, anche molto tenaci, da qualunque superficie. È opportunamente inibito affinché, se usato in maniera corretta, non intacchi i materiali ferrosi.

**Applicazioni:** DIS CEM trova applicazione principalmente nel settore edilizio, per la pronta rimozione di residui di calce, gesso e cemento da betoniere e attrezzature edili.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9530050100001 | 1 kg | 1 | **9,88** |
| CH9530050100005 | 5 kg | 1 | **41,64** |
| CH9530050100030 | 30 kg | 1 | **171,08** |

## DIS PHOS Disincrostante a base fosforica




### Caratteristiche

DIS PHOS è un prodotto altamente concentrato, totalmente esente da acido cloridrico e, quindi, di impiego particolarmente sicuro sotto il profilo sanitario ed ambientale. La particolare formulazione include speciali inibitori che permettono l'applicazione del prodotto anche su metalli ferrosi, senza che gli stessi vengano intaccati, ma proteggendoli per un breve periodo di tempo da ulteriori aggressioni. DIS PHOS non sviluppa nessun tipo di gas nocivo.

**Applicazioni:** DIS PHOS viene impiegato per l'eliminazione di calce, gesso e salnitro da piastrelle, mattoni a vista, cotto, pavimenti in gres e ceramiche vetrificate.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9520050100010 | 10 kg | 1 | **74,12** |
| CH9520050100030 | 30 kg | 1 | **205,64** |

## IPER SGORG Disotturante acido per scarichi e tubazioni




### Caratteristiche

IPER SGORG è un prodotto acido particolarmente indicato per disotturare le tubazioni di scarico industriale e civile.

**Applicazioni:** IPER SGORG viene impiegato per liberare efficacemente e prontamente gli scarichi da grassi, stracci, carta, garze, saponi, detersivi, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9540050100001 | 1,8 kg | 1 | **15,36** |

## METAL DIS Disincrostante per alluminio anodizzato




### Caratteristiche

METAL DIS è stato appositamente formulato per il rapido trattamento disossidante dei manufatti metallici, ed in particolare di alluminio. La formulazione, a base acida, assicura l'eliminazione delle incrostazioni che l'usura, lo smog ed il tempo depositano sulle superfici. METAL DIS esercita sulle superfici un'azione passivante che inibisce la corrosione futura.

**Applicazioni:** METAL DIS viene impiegato per la pulizia, disincrostazione e disossidazione di superfici metalliche in genere ed, in particolare, di superfici in alluminio anodizzato e non (infissi, cancellate, recinzioni, transenne).

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9510050100030 | 30 kg | 1 | **339,60** |

## AUTO SHAMPOO CERA Shampoo con cera per lavaggio manuale dei veicoli




### Caratteristiche

AUTO SHAMPOO CERA lava e lucida contemporaneamente i veicoli, grazie alla sua azione combinata di shampoo e cera. Rimuove ogni tipo di sporco, ridona alla vernice la sua lucentezza originaria, lasciando sulla stessa una pellicola che protegge dagli agenti atmosferici e dona brillantezza alle superfici.

**Applicazioni:** AUTO SHAMPOO CERA trova applicazione su tutti i tipi di carrozzerie e di superfici lavabili, intrise di sporco causato dal traffico stradale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9550060100030 | 30 kg | 1 | **186,44** |

## FRENI DET Pulitore per freni e frizioni




### Caratteristiche

FRENI DET è un detergente formulato specificatamente per la pulizia ottimale di freni a disco, freni a tamburo e frizioni. Asciuga rapidamente e non lascia residui.

**Applicazioni:** FRENI DET viene impiegato specificatamente nel settore automotive.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9590060200400 | 400 ml | 1 | **9,08** |
| CH9590060200500 | 500 ml | 1 | **10,80** |

## MOTO SOLV Detergente spray per la pulizia dell'esterno motore




### Caratteristiche

MOTO SOLV è un detergente in formato spray ad alto potere solvente che scioglie ed elimina dalle superfici depositi di olio, grasso e sporco tenace.

**Applicazioni:** MOTO SOLV viene impiegato principalmente nel settore automotive per la pulizia dell'esterno motore e di qualsiasi parte meccanica.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9560060200400 | 400 ml | 1 | **10,40** |

## NO-FREEZE Spray per l'eliminazione di neve e ghiaccio da parabrezza e vetri




### Caratteristiche

NO-FREEZE elimina istantaneamente ghiaccio, neve e brina da parabrezza e vetri. Scongela serrature e pinze freni; non intacca la plastica e le guarnizioni.

**Applicazioni:** NO-FREEZE viene impiegato specificatamente nel settore automotive.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9580060200200 | 200 ml | 1 | **6,80** |

## PNEU BLACK Ravvivante per pneumatici




### Caratteristiche

PNEU BLACK è stato appositamente formulato per ravvivare pneumatici, tappetini e parti in gomma dei veicoli. Ridona lucentezza alle parti trattate con un effetto duraturo nel tempo.

**Applicazioni:** PNEU BLACK viene impiegato specificatamente nel settore automotive.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9570060200400 | 400 ml | 1 | **8,28** |

## PNEU RIP Spray per gonfiare e riparare pneumatici forati




### Caratteristiche

PNEU RIP gonfia e ripara istantaneamente ogni tipo di pneumatico forato. Non danneggia lo pneumatico né la camera d'aria, consentendone la relativa riparazione.

**Applicazioni:** PNEU RIP viene impiegato specificatamente nel settore automotive.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9590060200300 | 300 ml | 1 | **14,36** |

## PULI DIESEL Pulitore per impianti di aspirazione diesel




### Caratteristiche

PULI DIESEL elimina e previene il formarsi di depositi oleosi e carboniosi su tutto l'impianto di aspirazione dei motori a gasolio/diesel. Rimuove i residui particolarmente dannosi nelle marmitte a catalizzatore e pulisce da incrostazioni valvole e camera di combustione, pulisce e lubrifica le palette del tubo e il collettore d'aspirazione. Diminuisce il consumo di carburante e aumenta la resa del motore. È particolarmente indicato anche per la pulizia e la corretta manutenzione di valvole di tipo EGR.

**Applicazioni:** PULI DIESEL trova applicazione in particolare nel settore automotive.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9590060220200 | 400 ml | 1 | **17,36** |

## QUICK START Avviamento rapido




### Caratteristiche

QUICK START è uno spray che agevola e permette l'accensione immediata del motore anche a basse temperature. È formulato per la pulizia ottimale di freni a disco, a tamburo e frizioni. Asciuga rapidamente, non lascia residui. Ideale per mezzi usati in agricoltura ed in edilizia, per barche e macchinari di movimentazione terra.

**Applicazioni:** QUICK START trova applicazione nelle officine meccaniche per ricambi automobilistici, in nautica, ferramenta e nell'industria in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9590060210200 | 200 ml | 1 | **6,92** |

## ASS-ACID PLUS Neutralizzatore ed assorbente per acido solforico




### Caratteristiche

ASS-ACID PLUS permette il rapido e completo assorbimento e la neutralizzazione di sostanze acide. Le prestazioni di assorbimento e neutralizzazione dell'acido solforico sono rigorosamente certificate da un ente autorizzato, in ottemperanza al D.M. n°20/2011 del Ministero dell'Ambiente che stabilisce in modo preciso la tipologia e la quantità di materiale assorbente e neutralizzante da stoccare in tutti i locali in cui si impiegano batterie di accumulatori al piombo. La miscela dei componenti di ASS-ACID PLUS è stata appositamente creata per risolvere e contenere rapidamente ed in modo sicuro gli sversamenti accidentali di sostanze acide, evitando al contempo la formazione di rifiuti speciali pericolosi.

**Applicazioni:** Il suo utilizzo è consigliato in tutte le aree dove vengono movimentate e stoccate sostanze acide, come impianti destinati alla gestione degli accumulatori, industrie, officine, laboratori, centrali elettriche, centri di raccolta rifiuti, ecc. Utilizzare il prodotto tal quale, coprendo la zona da bonificare in modo uniforme e versandolo gradatamente sullo sversamento in modo che la superficie porosa e cava inizi il processo di incapsulazione fino al completo assorbimento dell'inquinante. Rispettare le dosi previste per l'assorbimento e la neutralizzazione dell'acido in funzione del volume della fuoriuscita. Rapporto di assorbenza / neutralizzazione: 1 litro di Acido Solforico viene assorbito / neutralizzato da 0,54 kg di ASS-ACID PLUS. Quindi 1 kg di ASS-ACID PLUS assorbe e neutralizza 1,852 litri di acido solforico. I dati sono riferiti ad acido avente densità di 1,27 kg/l, quello comunemente presente negli elementi quali batterie, accumulatori ecc. Inizierà il processo di neutralizzazione mediante una reazione esotermica (che sviluppa calore) ed effervescente (con emissione di gas innocui).

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH960007020010P | 10 kg | 1 | **50,46** |

## ASS-OIL assorbente antisdrucciolo, sepiolite




### Caratteristiche

Prodotto non polveroso appositamente formulato per assorbire ed adsorbire rapidamente, e con la massima sicurezza per gli operatori, sostanze chimiche allo stato liquido (oli, derivati petroliferi, inchiostri), umidità e odori sgradevoli. Non è espolosivo né comburente, ed è insolubile. ASS-OIL non richiede precauzioni per l'utilizzo, la manipolazione e lo stoccaggio.

**Applicazioni:** ASS-OIL è indispensabile nelle aree di lavoro in cui fuoriuscite di liquidi possono provocare incidenti, fermentazioni, pericoli e odori sgradevoli. Trova impiego come assorbente industriale e agente anti-umido nei magazzini. È consigliabile in tutti quei settori in cui non deve essere presente polvere, nelle cucine e nelle aree di ristorazione.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9620070100020 | 20 Kg | 1 | **33,33** |

## ASS-UNI assorbente granulare universale



### Caratteristiche

Prodotto ideale per l'assorbimento di oli, grassi, idrocarburi e prodotti chimici presenti sul suolo degli ambienti di lavoro e sulle pavimentazioni stradali. ASS-UNI è ecologico, a base di componenti naturali, privo di sostanze tossiche e non infiammabile. Possiede una struttura multicellulare a celle aperte che conferisce un enorme potere assorbente tramite un'azione capillare e una rapida messa in sicurezza della pavimentazione contaminata, che viene resa pulita e asciutta. ASS-UNI è antisdrucciolo e al passaggio degli automezzi si frantuma in micro particelle senza creare l'"effetto ghiaia" tipico di altri prodotti assorbenti in granuli. Non rilascia nel tempo la sostanza assorbita, non lascia residui unti o scivolosi sul pavimento e il suo utilizzo in modo ripetuto elimina anche vecchi aloni e tracce di unto. La colorazione bianco latte permette un'immediata individuazione del prodotto al momento dell'impiego. Dopo l'uso acquisisce un colore più scuro che si confonde con l'ambiente circostante. È confezionato in pratici e maneggevoli sacchi poco ingombranti con manico, adatti per essere spostati senza sforzo. ASS-UNI è disponibile in due diverse granulometrie (0,80 – 2,00 mm ; 2,00 – 4,80 mm), a seconda del luogo di impiego e dei tempi di intervento.

**Applicazioni:** Prodotto ideale per sversamenti di piccola e media rilevanza, permette di continuare le attività svolte senza interrompere il ciclo produttivo. Grazie alla sua ininfiammabilità ASS-UNI può essere usato come mezzo di spegnimento per gli incendi. Il suo utilizzo è adatto anche in condizioni di pioggia o giornate molto umide, poiché non si altera a contatto con l'acqua. Per un utilizzo corretto, cospargere la superficie da trattare con ASS-UNI e spazzolare con scope o pale il prodotto una volta impregnato del liquido. Seguire con una successiva applicazione in caso di sversamenti più grandi. Non è scivoloso quindi può essere anche calpestato. ASS-UNI è indispensabile per la pulizia di manti stradali, parcheggi, piazzali, aree di servizio e per il trattamento rapido in raffinerie, industrie, aeroporti e offcine.

| Codice | Dimensione granuli | Formato | | € / cad. |
|---|---|---|---|---|
| CH9600070900045 | 2,00 - 4,80 mm | 4,5 kg | 1 | **14,22** |
| CH9600070900007 | 0,80 - 2,00 mm | 7 kg | 1 | **21,42** |

## TOP ACUSTIK avvisatore acustico a gas




### Caratteristiche

TOP ACUSTIK è un avvisatore acustico a gas, fornito in set completo di bombola e tromba di plastica rossa.

**Applicazioni:** TOP ACUSTIK viene impiegato specificatamente nel settore nautico ed in occasione di eventi sportivi

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9630070200300 | 300 ml | 1 | **14,10** |

## IPERASS-OIL Assorbente in polvere ad alta efficienza, per oli



### Caratteristiche

IPERASS-OIL è una miscela inorganica e inerte di minerali silicei in grado di assorbire ogni tipo di liquido (animale, vegetale, minerale, chimico e petrolifero) e semi-liquido. Ha una capacità di assorbimento superiore di 15-20 volte quella dei prodotti a base di argilla. IPERASS-OIL non è tossico, non è infiammabile, non è dannoso per l'ambiente e per gli esseri umani. Non contiene sostanze chimiche reattive ed è ecologicamente sicuro perchè inerte.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9600070100012 | 12 kg | 1 | **137,10** |

## NO-ICE Sali fondenti per ghiaccio e neve




### Caratteristiche

NO-ICE è una miscela di sali di moderna concezione da utilizzarsi per il trattamento delle pavimentazioni stradali, in occasione di ghiacciate e nevicate. Può essere utilizzato a scopo preventivo o in occasione di eventi atmosferici già avvenuti. L'estrema igroscopicità del prodotto favorisce l'assorbimento spontaneo dell'umidità dell'atmosfera, anche con umidità relativa molto bassa (30%), permettendo la dissoluzione del ghiaccio, soprattutto con temperature fredde e secche. La grande quantità di calore che si sviluppa utilizzando NO-ICE ha effetto immediato, creando un notevole vantaggio agli operatori. Il cloruro di sodio raffinato presente prolunga nel tempo l'azione di fusione e, sfruttando la durezza del suo cristallo, ottiene anche una buona azione meccanica, evitando l'aggiunta di inerti.

**Applicazioni:** L'impiego di NO-ICE è consigliabile in caso di previsioni di precipitazioni nevose o drastici abbassamenti della temperatura che potrebbero portare alla formazione di stratificazioni ghiacciate su passaggi pedonali, piazzali, parcheggi, marciapiedi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9610070100010 | 10 kg | 1 | **119,40** |

## RECYCLE UNIT riciclatore di assorbente universale




### Caratteristiche

RECYCLE UNIT è un riciclatore di assorbente mobile in polietilene ad alta densità (PEHD), utilizzabile in caso di problemi di sversamento, dotato di setaccio, pala, scopa e contenitore per la raccolta dell'assorbente riutilizzabile (non impregnato). RECYCLE UNIT permette di separare l'assorbente sporco dall'assorbente riutilizzabile. Funziona unicamente con le ricariche di assorbente COTTON POWDER, permettendo un assorbimento istantaneo. Ha una capacità di 50 lt. max (2 ricariche). L'assorbente universale COTTON POWDER è naturale, a base di fibre di cotone. Assorbe 8 volte di più rispetto agli assorbenti tradizionali, non lascia alcun residuo di grasso, garantisce un assorbimento istantaneo ed è riutilizzabile fino a completa saturazione; quando satura, la polvere forma dei grumi. COTTON POWDER non rilascia il prodotto assorbito, non è abrasivo, non contiene silice ed è biodegradabile.

**Applicazioni:** RECYCLE UNIT trova impiego in molteplici campi: automotive, manutenzione industriale, officine meccaniche, lavori pubblici, lavorazione metalli, stazioni di servizio, trasporti, ecc. COTTON POWDER è infatti efficace su qualsiasi tipo di superficie: cemento, resina, asfalto, vernice, smalto, ecc. In caso di sversamento, spargere la polvere assorbente sulla zona interessata ed attendere il completo assorbimento. Raccogliere poi il prodotto con la pala e versarlo nel setaccio, scuotendolo; l'assorbente saturo rimarrà nel setaccio, mentre il prodotto non impregnato ricadrà in fondo al bidone e potrà essere riutilizzato.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| IM0000300200050* | L 570 x l 689 x H 1090 mm | 1 | **1.032,00** |
| IM000030020025S | 25 lt | 1 | **117,45** |

*assorbente non incluso











## PROTEKT SEK Protettivo antiossidante, semi-secco



### Caratteristiche

PROTEKT SEK è un prodotto bivalente che toglie l'umidità dai metalli e dai pezzi finiti e, contemporaneamente, protegge dall'ossidazione i manufatti metallici non destinati alla verniciatura.

**Applicazioni:** PROTEKT SEK viene impiegato su superfici metalliche di ogni genere e, nello specifico, minuterie metalliche e componenti meccanici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9650080100022 | 22,4 kg | 1 | **421,36** |

## PROTEKT SEMI-OIL Protettivo anticorrosivo, semi-oleoso



### Caratteristiche

PROTEKT SEMI-OIL è un protettivo semi-oleoso, anticorrosivo e antiossidante, a base sintetica. Protegge tutti i metalli e le superfici pregiate dall'umidità e dall'ossidazione, previene la corrosione provocata dalle impronte digitali e ravviva le superfici finite.

**Applicazioni:** PROTEKT SEMI-OIL trova applicazione su stampi, ingranaggi, utensili, strumenti di precisione, armi e manufatti pregiati.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9640080100022 | 22,4 kg | 1 | **420,36** |

## LUB ONE Lubrorefrigerante

### Caratteristiche

LUB ONE è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 15-30 Fh; con fattore di correzione refrattometrica pari a 1,05.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ALTO | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5-8 | Molto indicato | 6-10 | Molto indicato | 5-7 | Molto indicato | 5-8 |
| Rettifica | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7001090100005 | 5 lt | 1 | **58,13** |
| CH7001090100030 | 30 lt | 1 | **331,50** |
| CH7001090100200 | 200 lt | 1 | **2.223,63** |
| CH7001090101000 | 1000 lt | 1 | **10.865,00** |

## LUB ONE PLUS Lubrorefrigerante

### Caratteristiche

LUB ONE PLUS è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 30-45 Fh; con fattore di correzione refrattometrica pari a 1,05.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ALTO | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5-8 | Molto indicato | 6-10 | Molto indicato | 5-7 | Molto indicato | 5-8 |
| Rettifica | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7011090100005 | 5 lt | 1 | **59,88** |
| CH7011090100030 | 30 lt | 1 | **336,63** |
| CH7011090100200 | 200 lt | 1 | **2.237,50** |
| CH7011090101000 | 1000 lt | 1 | **10.930,00** |

## LUB TWO Lubrorefrigerante

### Caratteristiche

LUB TWO è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto opalescente; da utilizzare solo con acque con durezza compresa tra 15-35 Fh; con fattore di correzione refrattometrica pari a 1,15.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ASSENTE | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % |
|---|---|---|---|---|
| Tornitura | Molto indicato | 4 | Molto indicato | 4 |
| Rettifica | Indicato | 2,5 | Indicato | 2,5 |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7002090100005 | 5 lt | 1 | **61,75** |
| CH7002090100030 | 30 lt | 1 | **344,25** |
| CH7002090100200 | 200 lt | 1 | **2.302,50** |
| CH7002090101000 | 1000 lt | 1 | **11.107,50** |

## LUB TWO PLUS Lubrorefrigerante

### Caratteristiche

LUB TWO PLUS è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto opalescente; da utilizzare solo con acque con durezza compresa tra 35-50 Fh; con fattore di correzione refrattometrica pari a 1,15.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ASSENTE | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % |
|---|---|---|---|---|
| Tornitura | Molto indicato | 4 | Molto indicato | 4 |
| Rettifica | Indicato | 2,5 | Indicato | 2,5 |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7022090100005 | 5 lt | 1 | **58,50** |
| CH7022090100030 | 30 lt | 1 | **329,00** |
| CH7022090100200 | 200 lt | 1 | **2.177,50** |
| CH7022090101000 | 1000 lt | 1 | **10.802,50** |

## LUB THREE Lubrorefrigerante

### Caratteristiche

LUB THREE è un fluido refrigerante solubile esente da dietanolammina, a media riciclabilità, dall'aspetto opalescente; da utilizzare solo con acque con durezza compresa tra 15-35 Fh; con fattore di correzione refrattometrica pari a 2,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| BASSO | ASSENTE | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Poco indicato | 4-5 | Molto indicato | 4-5 | Poco indicato | 6-8 | Indicato | 5-6 | Indicato | 5-6 |
| Rettifica | - | - | Indicato | 2,5 | Indicato | 2,5 | Indicato | 2,5 | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7003090100005 | 5 lt | 1 | **47,38** |
| CH7003090100030 | 30 lt | 1 | **265,25** |
| CH7003090100200 | 200 lt | 1 | **1.734,00** |
| CH7003090101000 | 1000 lt | 1 | **8.502,50** |

## LUB FOUR Lubrorefrigerante

### Caratteristiche

LUB FOUR è un fluido refrigerante solubile esente da dietanolammina, a bassa riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 10-20 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | BASSO | ASSENTE |

### Applicazioni e % di utilizzo

| Lavorazione | Cuproleghe | % |
|---|---|---|
| Tornitura | Molto indicato | 2-3 |
| Rettifica | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7004090100005 | 5 lt | 1 | **46,63** |
| CH7004090100030 | 30 lt | 1 | **260,00** |
| CH7004090100200 | 200 lt | 1 | **1.739,00** |
| CH7004090101000 | 1000 lt | 1 | **8.525,00** |

## LUB FIVE Lubrorefrigerante

### Caratteristiche

LUB FIVE è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 20-30 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ALTO | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | **5-8** | Molto indicato | **5-8** | Molto indicato | **5-8** | Molto indicato | **5-8** |
| Rettifica | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7005090100005 | 5 lt | 1 | **62,13** |
| CH7005090100030 | 30 lt | 1 | **349,50** |
| CH7005090100200 | 200 lt | 1 | **2.307,50** |
| CH7005090101000 | 1000 lt | 1 | **11.232,50** |

## LUB SIX Lubrorefrigerante

### Caratteristiche

LUB SIX è un fluido refrigerante solubile esente da dietanolammina, a media riciclabilità, dall'aspetto trasparente; da utilizzare solo con acque con durezza inferiore a 15 Fh; con fattore di correzione refrattometrica pari a 2,5.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ASSENTE | ASSENTE | ASSENTE |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % |
|---|---|---|---|---|
| Tornitura | - | **-** | - | **-** |
| Rettifica | Molto indicato | **1,5-2** | Molto indicato | **1,5-2** |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7006090100005 | 5 lt | 1 | **46,00** |
| CH7006090100030 | 30 lt | 1 | **265,25** |
| CH7006090100200 | 200 lt | 1 | **1.734,00** |
| CH7006090101000 | 1000 lt | 1 | **8.437,50** |

## LUB SEVEN Lubrorefrigerante

### Caratteristiche

LUB SEVEN è un fluido refrigerante solubile esente da dietanolammina, ad alta riciclabilità, dall'aspetto semi-trasparente; da utilizzare solo con acque con durezza compresa tra 20-35 Fh; con fattore di correzione refrattometrica pari a 1,5.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| BASSO | ASSENTE | BASSO |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % |
|---|---|---|---|---|
| Tornitura | Molto indicato | **3** | Indicato | **3,5** |
| Rettifica | **Indicato** | **2** | Molto indicato | **2** |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7007090100005 | 5 lt | 1 | **53,38** |
| CH7007090100030 | 30 lt | 1 | **307,25** |
| CH7007090100200 | 200 lt | 1 | **2.020,00** |
| CH7007090101000 | 1000 lt | 1 | **9.942,50** |

## LUB TOP 1 Lubrorefrigerante

### Caratteristiche

LUB TOP 1 è un fluido refrigerante solubile esente da boro e da battericidi donatori di formaldeide, ad alta riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 15-30 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ALTO | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5-8 | Molto indicato | 6-10 | Molto indicato | 5-7 | Molto indicato | 5-8 |
| Rettifica | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7111090100005 | 5 lt | 1 | **60,25** |
| CH7111090100030 | 30 lt | 1 | **353,75** |
| CH7111090100200 | 200 lt | 1 | **2.327,50** |
| CH7111090101000 | 1000 lt | 1 | **11.485,00** |

## LUB TOP 2 Lubrorefrigerante

### Caratteristiche

LUB TOP 2 è un fluido refrigerante solubile esente da boro e da battericidi donatori di formaldeide, ad alta riciclabilità, dall'aspetto traslucido; da utilizzare solo con acque con durezza compresa tra 15-35 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | ASSENTE | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % |
|---|---|---|---|---|
| Tornitura | Molto indicato | **4** | Molto indicato | **4** |
| Rettifica | Indicato | **2,5** | Indicato | **2,5** |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7222090100005 | 5 lt | 1 | **61,75** |
| CH7222090100030 | 30 lt | 1 | **357,50** |
| CH7222090100200 | 200 lt | 1 | **2.345,00** |
| CH7222090101000 | 1000 lt | 1 | **11.425,00** |

## LUB TOP 3 Lubrorefrigerante

### Caratteristiche

LUB TOP 3 è un fluido refrigerante solubile esente da boro e da battericidi donatori di formaldeide, a media riciclabilità, dall'aspetto semitrasparente; da utilizzare solo con acque con durezza compresa tra 15-35 Fh; con fattore di correzione refrattometrica pari a 2,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| BASSO | ASSENTE | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Poco indicato | 4-5 | Molto indicato | 4-5 | Poco indicato | 6-8 | Indicato | 5-6 | Indicato | 5-6 |
| Rettifica<br>*Grinding* | -<br>- | - | Indicato<br>*Recommended* | 2,5 | Indicato<br>*Recommended* | 2,5 | Indicato<br>*Recommended* | 2,5 | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7333090100005 | 5 lt | 1 | **47,25** |
| CH7333090100030 | 30 lt | 1 | **275,00** |
| CH7333090100200 | 200 lt | 1 | **1.805,00** |
| CH7333090101000 | 1000 lt | 1 | **8.872,50** |

## LUB TEN Lubrorefrigerante

### Caratteristiche

LUB TEN è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso verde con profumo alla mandorla; da utilizzare solo con acque con durezza compresa tra 10-35 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | MEDIO | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % | All Mg Cu | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Indicato | 5-8 | Molto indicato | 5-8 | Indicato | 5-10 | Molto indicato | 5-8 | Molto indicato | 5-8 | Indicato | 5-8 |
| Rettifica | - | - | - | - | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8010090100005 | 5 lt | 1 | **56,63** |
| CH8010090100030 | 30 lt | 1 | **323,13** |
| CH8010090100200 | 200 lt | 1 | **2.147,50** |
| CH8010090101000 | 1000 lt | 1 | **10.527,50** |

## LUB TWENTY Lubrorefrigerante

### Caratteristiche

LUB TWENTY è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso bianco; da utilizzare solo con acque con durezza compresa tra 10-35 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO | MEDIO | MEDIO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % | All Mg Cu | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Indicato | 5-8 | Molto indicato | 5-8 | Indicato | 5-10 | Molto indicato | 5-8 | Molto indicato | 5-8 | Indicato | 5-8 |
| Rettifica | - | - | - | - | - | - | - | - | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8020090100005 | 5 lt | 1 | **55,13** |
| CH8020090100030 | 30 lt | 1 | **321,13** |
| CH8020090100200 | 200 lt | 1 | **2.070,75** |
| CH8020090101000 | 1000 lt | 1 | **10.252,50** |

## LUB THIRTY Lubrorefrigerante

### Caratteristiche

LUB THIRTY è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso verde, al profumo di mandorla; da utilizzare solo con acque con durezza compresa tra 10-30 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| MEDIO | ALTO | BASSO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Indicato | 5-8 | Molto indicato | 5-8 | Molto indicato | 6-12 | Molto indicato | 6-10 | Molto indicato | 6-12 |
| Rettifica | - | - | - | - | Poco indicato | 5 | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8030090100005 | 5 lt | 1 | **63,75** |
| CH8030090100030 | 30 lt | 1 | **367,25** |
| CH8030090100200 | 200 lt | 1 | **2.445,00** |
| CH8030090101000 | 1000 lt | 1 | **11.990,00** |

## LUB FORTY Lubrorefrigerante

### Caratteristiche

LUB FORTY è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso bianco; da utilizzare solo con acque con durezza compresa tra 10-30 Fh; con fattore di correzione refrattometrica pari a 1,0.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| MEDIO | ALTO | BASSO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Indicato | 5-8 | Molto indicato | 5-8 | Molto indicato | 6-12 | Molto indicato | 6-10 | Molto indicato | 6-12 |
| Rettifica | - | - | - | - | Poco indicato | 5 | - | - | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8040090100005 | 5 lt | 1 | **64,25** |
| CH8040090100030 | 30 lt | 1 | **357,00** |
| CH8040090100200 | 200 lt | 1 | **2.380,00** |
| CH8040090101000 | 1000 lt | 1 | **11.802,50** |

## LUB FIFTY Lubrorefrigerante

### Caratteristiche

LUB FIFTY è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso verde, al profumo di mandorla; da utilizzare solo con acque con durezza compresa tra 10-35 Fh; con fattore di correzione refrattometrica pari a 1,05.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| MEDIO | ASSENTE | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % | All Mg Cu | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5-8 | Indicato | 5-8 | Poco indicato | 7-10 | Indicato | 5-8 | Molto indicato | 6-10 | Indicato | 6-10 |
| Rettifica | - | - | Indicato | 3-5 | Indicato | 3-5 | - | - | Indicato | 3-5 | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8050090100005 | 5 lt | 1 | **53,93** |
| CH8050090100030 | 30 lt | 1 | **326,50** |
| CH8050090100200 | 200 lt | 1 | **2.127,50** |
| CH8050090101000 | 1000 lt | 1 | **10.572,50** |

## LUB SIXTY Lubrorefrigerante

### Caratteristiche

LUB SIXTY è un fluido refrigerante solubile esente da boro e biocidi, ad alta riciclabilità, dall'aspetto lattiginoso; da utilizzare solo con acque con durezza compresa tra 10-35 Fh; con fattore di correzione refrattometrica pari a 1,05.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| MEDIO | ASSENTE | ALTO |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % | All Mg Cu | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5-8 | Indicato | 5-8 | Poco indicato | 7-10 | Indicato | 5-8 | Molto indicato | 6-10 | Indicato | 6-10 |
| Rettifica | - | - | Indicato | 3-5 | Indicato | 3-5 | - | - | Indicato | 3-5 | - | - |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8060090100005 | 5 lt | 1 | **54,63** |
| CH8060090100030 | 30 lt | 1 | **322,88** |
| CH8060090100200 | 200 lt | 1 | **2.137,50** |
| CH8060090101000 | 1000 lt | 1 | **10.380,00** |

## LUB VEGA Lubrorefrigerante

### Caratteristiche

LUB VEGA è un fluido refrigerante solubile con basi vegetali rinnovabili, ad alta riciclabilità, dall'aspetto semi-trasparente; da utilizzare solo con acque con durezza compresa tra 15-40 Fh; con fattore di correzione refrattometrica pari a 1,5.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO (>30%) | ASSENTE | ASSENTE |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5 | Molto indicato | 5 | Molto indicato | 6 | Molto indicato | 5 | Molto indicato | 6 |
| Rettifica | - | - | Indicato | 2,5 | Molto indicato | 4 | Molto indicato | 2,5 | Molto indicato | 3 |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7777090100001 | 1 lt | 1 | **14,50** |
| CH7777090100005 | 5 lt | 1 | **62,50** |
| CH7777090100030 | 30 lt | 1 | **349,50** |
| CH7777090100200 | 200 lt | 1 | **2.357,50** |
| CH7777090101000 | 1000 lt | 1 | **11.485,00** |

## LUB TOP V Lubrorefrigerante

### Caratteristiche

LUB TOP V è un fluido refrigerante solubile con basi vegetali rinnovabili, ad alta riciclabilità, esente da boro e da battericidi donatori di formaldeide, dall'aspetto traslucido; da utilizzare solo con acque con durezza compresa tra 15-40 Fh; con fattore di correzione refrattometrica pari a 1,6.

| Contenuto Olio Minerale | Contenuto Additivi Ep | Contenuto Additivi Untuosanti |
|---|---|---|
| ALTO (>30%) | ASSENTE | ASSENTE |

### Applicazioni e % di utilizzo

| Lavorazione | Ghisa | % | Acciaio | % | Acciaio Inox | % | Acciaio Pb | % | All Si | % |
|---|---|---|---|---|---|---|---|---|---|---|
| Tornitura | Molto indicato | 5 | Molto indicato | 5 | Molto indicato | 6 | Molto indicato | 5 | Molto indicato | 6 |
| Rettifica | - | - | Indicato | 2,5 | Molto indicato | 4 | Molto indicato | 2,5 | Molto indicato | 3 |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7444090100005 | 5 lt | 1 | **64,75** |
| CH7444090100030 | 30 lt | 1 | **380,00** |
| CH7444090100200 | 200 lt | 1 | **2.470,00** |
| CH7444090101000 | 1000 lt | 1 | **12.055,00** |

## LUB MINIMAL Lubrorefrigerante

### Caratteristiche

LUB MINIMAL è un fluido refrigerante a base di risorse rinnovabili stabilizzate, ad alto potere lubrificante ed elevata biodegradabilità. Da utilizzare puro, LUB MINIMAL è adatto solo per macchine predisposte per la lubrificazione minimale.

### Applicazioni

| Lavorazione | Ghisa | Acciaio Pb | Acciaio Legato | Acciaio Inox | Titanio |
|---|---|---|---|---|---|
| Taglio | Molto indicato | Molto indicato | Molto indicato | Molto indicato | Molto indicato |

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8070090100005 | 5 lt | 1 | **66,88** |
| CH8070090100030 | 30 lt | 1 | **336,63** |



## LUB ADD Additivo ricondizionante universale




### Caratteristiche

LUB ADD aumenta la durata dei fluidi di lavorazione, riducendo sensibilmente la produzione di esausto. Riconferisce alle emulsioni le proprietà lubrorefrigeranti, svolgendo un effetto sinergico con la maggior parte degli oli emulsionabili in commercio.

**Applicazioni:** LUB ADD viene impiegato per l'additivazione di lubrorefrigeranti a cui vengono a mancare, a causa della lunga vita d'esercizio, le necessarie proprietà co-emulsionanti, detergenti, disperdenti e sanitizzanti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7506100100010 | 10 kg | 1 | **113,00** |

## LUB DET Detergente per vasche di macchine utensili




### Caratteristiche

LUB DET è stato formulato per favorire le operazioni di lavaggio e sanitizzazione delle vasche e dei circuiti delle macchine utensili, consentendo di ridurre al minimo il carico microbiologico residuo.

**Applicazioni:** LUB DET viene impiegato nelle vasche e nei circuiti delle macchine utensili, prima della sostituzione dei fluidi lubrorefrigeranti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7505100100030 | 30 kg | 1 | **218,00** |

## LUB KLEAN Alghicida, microbicida, fungicida




### Caratteristiche

LUB KLEAN è un formulato, solubile in acqua, specifico per decontaminare le emulsioni e le acque degradate, oltre che per prevenire il loro inquinamento da microflora batterica e muffe.

**Applicazioni:** LUB KLEAN viene impiegato principalmente per le operazioni di lavaggio e sanitizzazione, che consentono di ridurre al minimo il carico microbiologico residuo; tali operazioni possono essere eseguite senza interrompere il ciclo produttivo. LUB KLEAN può essere utilizzato anche per il trattamento nelle cabine di verniciatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7501100100005 | 5 kg | 1 | **181,88** |

## LUB NO-SCHIUMA Anti-schiuma siliconico




### Caratteristiche

LUB NO-SCHIUMA, per la sua particolare composizione, si disperde finemente nelle soluzioni acquose, interferendo nella formazione delle schiume. Il suo utilizzo non condiziona la stabilità chimico-fisica delle emulsioni e delle soluzioni alcaline. Le caratteristiche principali di LUB NO-SCHIUMA sono quelle di abbattere la schiuma nei lubrorefrigeranti e nelle soluzioni alcaline, e di formare un sottilissimo film antiadesivo e scivolante su qualunque tipo di superficie.

**Applicazioni:** LUB NO-SCHIUMA viene impiegato specificatamente nell'industria meccanica ed elettromeccanica per il trattamento delle emulsioni e delle soluzioni alcaline o come distaccante e scivolante.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7504100100005 | 5 kg | 1 | **107,88** |

## LUB PH Soluzione alcalinizzante per correzione pH




### Caratteristiche

LUB PH è un formulato specifico per aumentare il valore di alcalinità durante i trattamenti delle acque di processo e per correggere il valore del pH nelle emulsioni in esercizio.

**Applicazioni:** LUB PH viene impiegato specificatamente per il trattamento delle emulsioni in esercizio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7502100100010 | 10 kg | 1 | **62,25** |

## LUB PREP Preparatore acqua e inibitore di materiali non ferrosi




### Caratteristiche

LUB PREP è specifico per abbattere la durezza delle acque, neutralizzando l'effetto destabilizzante dei sali di calcio presenti nelle acque dure, oltre che per proteggere dalla macchiatura i metalli non ferrosi particolarmente reattivi (materiali zincati, ottone, ecc.).

**Applicazioni:** LUB PREP viene impiegato specificatamente per il trattamento dell'acqua e delle emulsioni in esercizio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7503100100005 | 5 kg | 1 | **103,00** |

## TAGLIO INOX Fluido da taglio per inox




### Caratteristiche

TAGLIO INOX è un fluido spray ad elevato potere refrigerante e lubrificante, particolarmente adatto per le operazioni di lavorazione, anche gravose, su acciaio inossidabile. È esente da cloro.

**Applicazioni:** TAGLIO INOX trova applicazione nelle operazioni di filettatura, foratura, maschiatura e fresatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7910110100000 | 400 ml | 1 | **11,92** |

## TAGLIO UNI Fluido da taglio universale




### Caratteristiche

TAGLIO UNI è un fluido spray ad elevato potere lubrorefrigerante, particolarmente adatto per le operazioni di filettatura e maschiatura. La selezione degli additivi ne permette l'impiego su tutti i metalli per operazioni normali e non particolarmente gravose. È esente da cloro.

**Applicazioni:** TAGLIO UNI trova applicazione nelle operazioni di filettatura, foratura, maschiatura e fresatura.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7900110100000 | 400 ml | 1 | **11,92** |

## TAGLIO TOP Fluido da taglio intero additivato EP




### Caratteristiche

TAGLIO TOP è un fluido da taglio integrale per operazioni manuali, quali filettatura, maschiatura e foratura su trapani a colonna. E' appositamente sviluppato per tutti i metalli ferrosi e non ferrosi ed è molto indicato per acciai temprati ed inox. TAGLIO TOP facilita lo svolgimento di operazioni gravose grazie al moderno pacchetto EP contenuto, garantisce un'elevata resa dei moderni utensili rivestiti, non presenta odori sgradevoli, è facilmente dosabile e pratico da utilizzare, è caratterizzato da un'elevata viscosità per un'ottimale aderenza dell'utensile al pezzo in lavorazione.

**Applicazioni:** TAGLIO TOP trova applicazione nelle operazioni di filettatura, maschiatura e foratura su trapani a colonna, oltre che in operazioni meccaniche gravose con asportazione di truciolo su metalli ferrosi e non, acciai temprati e inox.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7990110100500 | 500 ml | 1 | **23,52** |
| CH7990110105000 | 5 lt | 1 | **144,04** |

## TOOL VEGA Fluido da taglio intero fortemente additivato EP




### Caratteristiche

TOOL VEGA è un fluido da taglio integrale per operazioni manuali, quali filettatura, maschiatura, foratura. È appositamente sviluppato per tutti i metalli ferrosi e non ferrosi e consente di svolgere operazioni manuali mediamente gravose con un formulato a base completamente sintetica, privo di olio minerale e fortemente additivato EP. TOOL VEGA facilita lo svolgimento di operazioni gravose grazie al moderno pacchetto EP contenuto, non ostacola la rimozione del truciolo ed è più facile da rimuovere grazie alla bassa viscosità, assicura un'ottimale tenacia del film lubrificante grazie alla polarità delle molecole, garantisce un'elevata resa dei moderni utensili rivestiti, non presenta odori sgradevoli, è facilmente dosabile e pratico da utilizzare, è caratterizzato da un'elevata viscosità per un'ottimale aderenza dell'utensile al pezzo in lavorazione.

**Applicazioni:** TOOL VEGA è usato in filettatura, maschiatura e foratura su trapani a colonna e brocciatura. È anche indicato per altre operazioni meccaniche medio gravose con asportazione di truciolo su metalli ferrosi e non ferrosi e per acciai generici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7950110100500 | 500 ml | 1 | **29,08** |
| CH7950110105000 | 5 lt | 1 | **149,28** |

## TAGLIO PLUS Olio denso per maschiare




### Caratteristiche

TAGLIO PLUS è un olio denso da utilizzare per l'esecuzione di forature, filettature, maschiature in manuale. Appositamente sviluppato per tutti i metalli ferrosi, consente di svolgere operazioni manuali anche estremamente gravose nelle quali sia richiesto un film di lubrificazione ad elevata viscosità, fortemente tenace, privo di olio minerale e con forte additivazione E.P., sia sintetica che zolfo attiva. L'impiego di TAGLIO PLUS permette di ottenere i seguenti vantaggi: facilità nello svolgimento di operazioni anche estremamente gravose grazie all'efficace pacchetto E.P. contenuto; elevatissima viscosità (classificazione pasta) che rende il prodotto più facile da manipolare e da applicare sugli utensili in lavorazione, favorendo una permanenza di maggiore durata; assenza di odori sgradevoli; grande praticità d'utilizzo e facilità di dosaggio.

**Applicazioni:** TAGLIO PLUS trova applicazione nelle operazioni di filettatura e di maschiatura, anche di acciai tenaci. Adatto anche per altre operazioni meccaniche medio gravose, con asportazione di truciolo su metalli ferrosi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH7990110101001 | 1 kg | 1 | **47,28** |
| CH7990110101005 | 5 kg | 1 | **214,12** |

## IDROIL, olio idraulico



### Caratteristiche

IDROIL è un olio di alta qualità per comandi idraulici, ottenuto mediante la miscelazione di basi selette ed additivi chimici e caratterizzato da una notevole resistenza alla corrosione e all'ossidazione, oltre ad una pronta demulsività ed elevata riluttanza alla formazione di schiuma. IDROIL possiede un'ottima resistenza all'invecchiamento anche in presenza di alte temperature e mantiene per lungo tempo inalterate le sue caratteristiche. La sua forte proprietà antischiuma, unitamente alla capacità di separazione dall'umidità, rendono IDROIL ottimamente filtrabile con un conseguente regolare funzionamento dell'impianto idraulico.

**Applicazioni:** La sua moderna formulazione rende IDROIL assolutamente compatibile con i materiali usati per le guarnizioni delle installazioni idrauliche. Può essere impiegato anche in riduttori poco caricati, in testate e movimenti di macchine utensili, e anche in impianti di lubrificazione in bagno d'olio di compressori, variatori di velocità, cuscinetti piani ed a rotolamento di macchinari di vario tipo.

| Codice | Viscosità | Densità 15°C | Punto infiamm. V.A | Viscosità 40°C | Viscosità 100°C | Indice Viscosità | Punto scorrim. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100100225 | ISO VG 22 | 870 | 215°C | 22 | 5,3 | 110 | -30°C | 5 lt | 1 | **57,81** |
| GL0010100100321 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | -30°C | 1 lt | 1 | **14,40** |
| GL0010100100325 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | -30°C | 5 lt | 1 | **57,81** |
| GL0010100103225 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | -30°C | 25 lt | 1 | **242,70** |
| GL0010100103228 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | -30°C | 208 lt | 1 | **1.590,00** |
| GL0010100100461 | ISO VG 46 | 870 | 230°C | 46 | 6,8 | 105 | -30°C | 1 lt | 1 | **14,40** |
| GL0010100100465 | ISO VG 46 | 870 | 230°C | 46 | 6,8 | 105 | -30°C | 5 lt | 1 | **57,81** |
| GL0010100104625 | ISO VG 46 | 870 | 230°C | 46 | 6,8 | 105 | -30°C | 25 lt | 1 | **242,70** |
| GL0010100104628 | ISO VG 46 | 870 | 230°C | 46 | 6,8 | 105 | -30°C | 208 lt | 1 | **1.590,00** |
| GL0010100100681 | ISO VG 68 | 880 | 239°C | 68 | 8,6 | 103 | -30°C | 1 lt | 1 | **14,40** |
| GL0010100100685 | ISO VG 68 | 880 | 239°C | 68 | 8,6 | 103 | -30°C | 5 lt | 1 | **57,81** |
| GL0010100106825 | ISO VG 68 | 880 | 239°C | 68 | 8,6 | 103 | -30°C | 25 lt | 1 | **242,70** |
| GL0010100106828 | ISO VG 68 | 880 | 239°C | 68 | 8,6 | 103 | -30°C | 208 lt | 1 | **1.590,00** |
| GL0010100101001 | ISO VG 100 | 880 | 239°C | 100 | 11,4 | 101 | -30°C | 1 lt | 1 | **14,40** |
| GL0010100101005 | ISO VG 100 | 880 | 239°C | 100 | 11,4 | 101 | -30°C | 5 lt | 1 | **57,81** |
| GL0010100110025 | ISO VG 100 | 880 | 239°C | 100 | 11,4 | 101 | -30°C | 25 lt | 1 | **242,70** |
| GL0010100110028 | ISO VG 100 | 880 | 239°C | 100 | 11,4 | 101 | -30°C | 208 lt | 1 | **1.590,00** |
| GL0010100150028 | ISO VG 150 | 880 | 239°C | 150 | 11,4 | 101 | -30°C | 208 lt | 1 | **1.590,00** |
| GL0010100032018 | ISO VG 320 | 880 | 239°C | 320 | 11,4 | 101 | -30°C | 185 lt | 1 | **1.416,00** |

## IDROIL PLUS, olio idraulico ad alta viscosità




### Caratteristiche

IDROIL PLUS è un olio per comandi idraulici di qualità superiore, ottenuto mediante la miscelazione di basi selette altamente raffinate ed additivi chimici che garantiscono spiccate caratteristiche di resistenza all'ossidazione, prevenzione antiruggine, proprietà antiusura e antischiuma. Una speciale additivazione conferisce a quest'olio un indice di viscosità altissimo, rendendolo di tipo "multigrado" e ottenendo una variazione di viscosità minima al variare della temperatura.

**Applicazioni:** IDROIL PLUS è indispensabile nelle applicazioni sottoposte ad escursioni termiche elevate, quali macchine da cantiere e movimento terra, macchine agricole forestali, in alta montagna, ecc. IDROIL PLUS è utilizzabile in sostituzione dei normali oli idraulici, eliminando i problemi che possono essere generati dall'uso esasperato dei macchinari. In alcuni casi, è possibile utilizzare IDROIL PLUS per eliminare diverse viscosità di olio idraulico, ovviando a possibili errori di riempimento; si ottiene così un'ideale partenza a freddo, usando un olio di viscosità minore, il cui comportamento a caldo equivale però a quello di un olio di viscosità nettamente superiore.

| Codice | Viscosità | Densità 15°C | Punto infiamm. V.A | Viscosità 40°C | Viscosità 100°C | Indice Viscosità | Punto scorrim. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100110221 | ISO VG 22 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 1 lt | 1 | **15,21** |
| GL0010100110225 | ISO VG 22 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 5 lt | 1 | **61,80** |
| GL0010100112225 | ISO VG 22 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 25 lt | 1 | **262,80** |
| GL0010100112228 | ISO VG 22 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 208 lt | 1 | **1.842,00** |
| GL0010100110461 | ISO VG 46 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 1 lt | 1 | **15,21** |
| GL0010100110465 | ISO VG 46 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 5 lt | 1 | **61,80** |
| GL0010100114625 | ISO VG 46 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 25 lt | 1 | **262,80** |
| GL0010100114628 | ISO VG 46 | 870 | 230°C | 46 | 9,2 | 185 | -39°C | 208 lt | 1 | **1.842,00** |
| GL0010100110681 | ISO VG 68 | 880 | 225°C | 68 | 11,8 | 160 | -36°C | 1 lt | 1 | **15,21** |
| GL0010100110685 | ISO VG 68 | 880 | 225°C | 68 | 11,8 | 160 | -36°C | 5 lt | 1 | **61,80** |
| GL0010100116825 | ISO VG 68 | 880 | 225°C | 68 | 11,8 | 160 | -36°C | 25 lt | 1 | **262,80** |
| GL0010100116828 | ISO VG 68 | 880 | 225°C | 68 | 11,8 | 160 | -36°C | 208 lt | 1 | **1.842,00** |

## EP OIL, olio E.P. per ingranaggi industriali



### Caratteristiche

EP OIL è un olio costituito da basi di qualità superiore ed additivi, per la lubrificazione di riduttori ad ingranaggi fortemente caricati. Quest'olio contiene una serie di additivi selezionati con proprietà E.P., contro la corrosione, l'ossidazione e la separazione dell'acqua e dell'aria. La sua additivazione, a base di zolfo, garantisce un'elevata resistenza ai carichi esasperati di tutti gli ingranaggi industriali. L'eccezionale potere antischiuma e la sua ottima demulsività assicurano un'eccellente lubrificazione anche in ambienti dove la contaminazione da acqua è possibile.

**Applicazioni:** EP OIL è ideale per la lubrificazione di ingranaggi fortemente caricati o funzionanti a temperature elevate, quali: laminatoi, forni e mulini per cementifici, macchinari di cave, miniere, cantiere. Le diverse viscosità disponibili sono in grado di soddisfare tutte le esigenze dei costruttori, a seconda del tipo di ingranaggio e dei carichi che deve sopportare; generalmente, le viscosità più alte sono indicate per forti carichi e velocità limitate, le viscosità inferiori per alte velocità e carichi limitati.

| Codice | Viscosità | Densità 15°C | Punto infiamm. V.A | Viscosità 40°C | Viscosità 100°C | Indice Viscosità | Punto scorrim. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100121005 | ISO VG 100 | 900 | 150°C | 250 | 15,3 | 100 | -20°C | 5 lt | 1 | **64,80** |
| GL0010100121501 | ISO VG 150 | 900 | 150°C | 240 | 15,3 | 100 | -20°C | 1 lt | 1 | **15,81** |
| GL0010100121505 | ISO VG 150 | 900 | 150°C | 240 | 15,3 | 100 | -20°C | 5 lt | 1 | **64,80** |
| GL0010100121525 | ISO VG 150 | 900 | 150°C | 240 | 15,3 | 100 | -20°C | 25 lt | 1 | **277,95** |
| GL0010100121528 | ISO VG 150 | 900 | 150°C | 240 | 15,3 | 100 | -20°C | 208 lt | 1 | **1.966,50** |
| GL0010100122201 | ISO VG 220 | 900 | 220°C | 240 | 19,6 | 98 | -18°C | 1 lt | 1 | **15,81** |
| GL0010100122205 | ISO VG 220 | 900 | 220°C | 240 | 19,6 | 98 | -18°C | 5 lt | 1 | **64,80** |
| GL0010100122225 | ISO VG 220 | 900 | 220°C | 240 | 19,6 | 98 | -18°C | 25 lt | 1 | **277,95** |
| GL0010100122228 | ISO VG 220 | 900 | 220°C | 240 | 19,6 | 98 | -18°C | 208 lt | 1 | **1.966,50** |
| GL0010100123201 | ISO VG 320 | 900 | 320°C | 250 | 24,9 | 98 | -15°C | 1 lt | 1 | **15,81** |
| GL0010100123205 | ISO VG 320 | 900 | 320°C | 250 | 24,9 | 98 | -15°C | 5 lt | 1 | **64,80** |
| GL0010100123225 | ISO VG 320 | 900 | 320°C | 250 | 24,9 | 98 | -15°C | 25 lt | 1 | **277,95** |
| GL0010100123218 | ISO VG 320 | 900 | 320°C | 250 | 24,9 | 98 | -15°C | 185 lt | 1 | **1.749,21** |
| GL0010100123228 | ISO VG 320 | 900 | 320°C | 250 | 24,9 | 98 | -15°C | 208 lt | 1 | **1.966,50** |

## GEAR OIL, olio sintetico per riduttori




### Caratteristiche

GEAR OIL è un olio sintetico avanzato per ingranaggi fortemente caricati. E' formulato per assicurare eccellente stabilità ossidativa e termica, aumentare la durata del lubrificante e resistere alla formazione di dannosi prodotti di ossidazione ad elevate temperature operative. GEAR OIL assicura una eccellente capacità a supportare i carichi garantendo una lunga vita ai componenti anche in condizioni di carichi impulsivi.

**Applicazioni:** GEAR OIL è raccomandato per sistemi di riduzione a vite senza fine operanti in condizioni operative gravose, quali carico elevato, temperature molto basse o elevate e variazioni molto ampie delle stesse. Particolarmente indicato nei sistemi dove la manutenzione è poco frequente o i sistemi sono inaccessibili. Idoneo per la lubrificazione di cuscinetti ed altri componenti con sistemi di lubrificazione a circolazione e sbattimento. GEAR OIL non è adatto alla lubrificazione di componenti fabbricati in alluminio o sue leghe.

| Codice | Viscosità | Densità 15°C | Punto infiamm. V.A | Viscosità 40°C | Viscosità 100°C | Indice viscosità | Punto scorrim. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100302220 | ISO VG 220 | 1074 | 298°C | 222 | 34,4 | 203 | -39°C | 20 lt | 1 | **483,90** |
| GL0010100303220 | ISO VG 320 | 1069 | 286°C | 321 | 52,7 | 230 | -39°C | 20 lt | 1 | **483,90** |

## SLIDE OIL, olio per guide




### Caratteristiche

SLIDE OIL è un olio specificamente formulato per la lubrificazione delle guide di scorrimento delle macchine utensili. SLIDE OIL lubrifica perfettamente gli accoppiamenti guidaslitta delle macchine utensili impedendo il fenomeno di impuntamento denominato “stick-slip” che avviene alle basse velocità di traslazione quando, non potendosi formare un velo idrodinamico d’olio fra le superfici, si ha un contatto di metallo con metallo.

**Applicazioni:** SLIDE OIL possiede forti proprietà antiusura, antischiuma ed antiossidanti che, unite all’alto indice di viscosità, lo rendono adatto all’impiego anche come fluido idraulico, nelle gradazioni più fluide, sulle macchine utensili dove il circuito di lubrificazione delle guide non è separato da quello dei comandi idraulici. È idoneo per la lubrificazione di guide orizzontali (viscosità 68 – 100) e verticali (viscosità 220), resiste alla formazione di morchie e depositi.

| Codice | Viscosità | Densità 15°C | Punto infiamm. V.A | Viscosità 40°C | Viscosità 100°C | Indice Viscosità | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| GL0010100130321 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | 1 lt | 1 | **15,21** |
| GL0010100130325 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | 5 lt | 1 | **61,80** |
| GL0010100133225 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | 25 lt | 1 | **222,60** |
| GL0010100133228 | ISO VG 32 | 870 | 215°C | 32 | 5,3 | 110 | 208 lt | 1 | **1.674,00** |
| GL0010100130681 | ISO VG 68 | 870 | 239°C | 68 | 8,6 | 103 | 1 lt | 1 | **15,21** |
| GL0010100130685 | ISO VG 68 | 870 | 239°C | 68 | 8,6 | 103 | 5 lt | 1 | **61,80** |
| GL0010100136825 | ISO VG 68 | 870 | 239°C | 68 | 8,6 | 103 | 25 lt | 1 | **222,60** |
| GL0010100136828 | ISO VG 68 | 870 | 239°C | 68 | 8,6 | 103 | 208 lt | 1 | **1.674,00** |
| GL0010100132201 | ISO VG 220 | 890 | 250°C | 220 | 19,2 | 98 | 1 lt | 1 | **15,21** |
| GL0010100132205 | ISO VG 220 | 890 | 250°C | 220 | 19,2 | 98 | 5 lt | 1 | **61,80** |
| GL0010100132225 | ISO VG 220 | 890 | 250°C | 220 | 19,2 | 98 | 25 lt | 1 | **222,60** |
| GL0010100132228 | ISO VG 220 | 890 | 250°C | 220 | 19,2 | 98 | 208 lt | 1 | **1.674,00** |

## CHAIN OIL, olio antigoccia per catene




### Caratteristiche

CHAIN OIL è un olio minerale particolarmente filante per catene di motoseghe. Ottenuto con basi altamente raffinate ed additivate, CHAIN OIL è caratterizzato da un'elevatissima adesività, spiccata proprietà antigoccia e assenza totale di depositi in ogni condizione. Un buon indice di viscosità, ottimo congelamento e totale assenza di sedimenti consentono la massima linearità di resa, anche in presenza di escursioni termiche o lungo inutilizzo.

**Applicazioni:** CHAIN OIL è raccomandato per la lubrificazione e la protezione da ruggine e corrosione di catene di motoseghe. Può essere utilizzato in ogni condizione ed a qualsiasi temperatura di esercizio.

| Codice | Colore ASTM | Densità 15°C | Viscosità 40°C | Punto fiamma COC | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|
| GL0010100150101 | 2,5 | 880 | 100 | 232°C | 1 lt | 1 | **10,38** |
| GL0010100150105 | 2,5 | 880 | 100 | 232°C | 5 lt | 1 | **37,80** |

## CHAIN ECO OIL, olio ecologico per catene




### Caratteristiche

CHAIN ECO OIL è un olio per catene formulato con componenti naturali selezionati ed additivi specifici che conferiscono eccellente adesione alla catena (filantezza), lubricità, proprietà antiusura e protezione dalla corrosione. CHAIN ECO OIL è biodegradabile, ben tollerato in caso di dispersione sul terreno e sicuro per l'operatore (biodegradabile all'80% min. secondo CEC-L33T82). È esente da olio minerale.

**Applicazioni:** CHAIN ECO OIL è dotato di un particolare additivo miglioratore di viscosità che lo rende idoneo all'impiego professionale nelle condizioni più severe di esercizio e per tempi prolungati.

| Codice | Densità 15°C | Punto infiamm. | Viscosità 40°C | Indice viscosità | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|
| GL0010100160101 | 920 | 250°C | 50/55 | 180 | 1 lt | 1 | **9,15** |
| GL0010100160105 | 920 | 250°C | 50/55 | 180 | 5 lt | 1 | **33,75** |

## VAP OIL, olio per sistemi di lubrificazione centralizzata



### Caratteristiche

VAP OIL è un olio minerale ottenuto con basi paraffiniche selezionate mediante particolari processi di raffinazione al solvente, caratterizzato da un'ottima resistenza all'ossidazione e da eccellente stabilità chimica.

**Applicazioni:** VAP OIL è stato appositamente studiato per sistemi di lubrificazione centralizzata. È un fluido indicato per la lubrificazione a nebbia d'olio. Possiede inoltre un basso punto di scorrimento, ottima demulsività e resistenza all'idrolisi.

| Codice | Viscosità | Densità 15°C | Punto infiamm. | Viscosità 40°C | Indice viscosità | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| GL0010100140151 | ISO VG 15 | 870 | 180°C | 15 | 98 | 1 lt | 1 | **14,40** |
| GL0010100140155 | ISO VG 15 | 870 | 180°C | 15 | 98 | 5 lt | 1 | **57,81** |
| GL0010100141525 | ISO VG 15 | 870 | 180°C | 15 | 98 | 25 lt | 1 | **242,70** |

## CHUCK OIL, olio per mandrini ad alta velocità



### Caratteristiche

CHUCK OIL è un olio speciale a bassa viscosità formulato con basi minerali raffinate al solvente e additivi senza zinco, per garantire eccellenti prestazioni nei mandrini ad alta velocità delle macchine utensili. Formulato con collaudati additivi antiruggine ed inibitori di ossidazione che assicurano elevata resistenza all'ossidazione favorita dal calore, dalla presenza d'aria, dall'acqua e dai metalli catalitici, come il rame, ed aiuta a prolungare la vita dell'olio riducendo i costi di manutenzione. Gli speciali additivi garantiscono un'efficace prestazione antiusura senza interferire con i metalli bianchi dei cuscinetti ed aumentano l'affidabilità della macchina. Inoltre, il pacchetto di additivi contenuto in CHUCK OIL aumenta le naturali proprietà protettive dell'olio contro la corrosione ed aiuta a prolungare la vita dei cuscinetti. I componenti a bassa viscosità di questi oli consentono un funzionamento scorrevole degli elementi ad alta velocità della macchina e minimizzano l'apporto di calore.

**Applicazioni:** CHUCK OIL è adatto ad un'ampia gamma di sistemi di lubrificazione macchine che includono cuscinetti ad elementi piani e a rotolamento. Le versioni a bassa viscosità (gradi ISO 2.5 e 10) sono particolarmente idonei per la lubrificazione di mandrini ad alta velocità di macchine utensili.

| Codice | Viscosità | Densità 15°C | Punto infiamm. COC | Viscosità 40°C | Viscosità 100°C | Punto scorrimento | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| GL0010100340025 | ISO VG 10 | 881 | 150°C | 10 | 2,3 | -30°C | 25 lt | 1 | **387,00** |
| GL0010100340060 | ISO VG 10 | 881 | 150°C | 10 | 2,3 | -30°C | 60 lt | 1 | **900,00** |
| GL0010100340208 | ISO VG 10 | 881 | 150°C | 10 | 2,3 | -30°C | 208 lt | 1 | **2.865,00** |

## DIA OIL PLUS, olio per impianti diatermici



### Caratteristiche

DIA OIL PLUS è un olio minerale ottenuto da basi paraffiniche selezionate mediante particolari processi di raffinazione al solvente, caratterizzato da un'ottima resistenza all'ossidazione e da eccellente stabilità chimica appositamente studiato come fluido diatermico. Risulta specificamente indicato per l'impiego, come termovettore, in impianti di trasmissione indiretta del calore. Per effetto delle sue caratteristiche DIA OIL PLUS è in grado di essere utilizzato, compatibilmente con i criteri di progettazione delle caldaie, fino a temperature di esercizio di 315 °C.
Onde assicurare la massima durata delle cariche di esercizio è indispensabile che la velocità di circolazione del fluido sia tale da contenere a 340 °C massimo la temperatura del velo d'olio a contatto con gli elementi riscaldanti (temperatura massima ammissibile a parete). In impianti con vaso d'espansione non pressurizzato con azoto, ma nel quale l'olio viene a contatto con l'aria, la temperatura dell'olio nel vaso va tenuta la più bassa possibile, per evitare fenomeni di ossidazione che incrementano all'aumentare della temperatura, mediamente 55 °C e comunque non oltre 65 °C. La durata di una carica di DIA OIL PLUS dipende dalla funzionalità dell'impianto e da come viene condotto. Se questi due elementi sono ottimali la durata in servizio risulterà di molti anni.

**Applicazioni:** per una maggiore durata in esercizio sono necessari alcuni accorgimenti come indicato di seguito. Il flusso di calore dovrebbe essere mantenuto al minimo per ridurre la temperatura del film. La massima temperatura del film tollerata da DIA OIL PLUS è 340°C. Il riscaldatore dovrebbe essere dotato di materiale refrattario per evitare il contatto diretto tra fiamma e tubi, prevenendo l'eccessiva temperatura del film d'olio e riducendo il surriscaldamento locale del fluido in caso di fermata accidentale della pompa. Si consiglia di prevedere, per impianti utilizzati su processi intermittenti, un tubo di by pass dell'utilizzatore per evitare il più possibile arresti della pompa. Dopo la fermata del riscaldatore si consiglia, se la temperatura dell'olio è superiore a 280°C, di mantenere in funzione la pompa per almeno mezz'ora. E' necessario che sia presente nell'impianto un vaso di espansione per consentire il cambiamento di volume del fluido durante le fasi di riscaldamento/raffreddamento.
Il volume dell'olio minerale a 300°C è circa il 20% superiore a quello corrispondente a temperatura ambiente. Il vaso deve avere delle dimensioni tali da contenere il totale incremento di volume alla massima temperatura prevista, deve essere posizionato nel punto più elevato del circuito e collegato al sistema a monte della pompa principale.Tale collegamento sarà effettuato mediante un tubo di piccolo diametro, non coibentato, in modo che la temperatura dell'olio a contatto con l'aria sia la più bassa possibile, ciò per ridurre al minimo l'ossidazione di tale porzione di fluido. Il circuito principale deve essere fornito di punti di spillamento per consentire l'eliminazione di vapore acqueo ed aria durante la fase di avviamento; questa dovrà avvenire riscaldando lentamente il fluido (50 °C all'ora). Tutto l'impianto deve essere dotato di controlli che impediscano un surriscaldamento locale dell'olio conseguente a ridotta velocità e/o eccessivo scambio termico.

| Codice | Colore ASTM | Densità 15°C | Punto scorrim. | Punto infiamm. V.A | Punto infiamm. V.C | Viscosità 40°C | Viscosità 100°C | Indice visc. | Aspetto | Coeff. dilat. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100300025 | 0,5 | 870 | -9°C | 218°C | 202°C | 30 | 5,2 | 110 | Limpido | 0,00068 | 25 lt | 1 | **227,70** |
| GL0010100300021 | 0,5 | 870 | -9°C | 218°C | 202°C | 30 | 5,2 | 110 | Limpido | 0,00068 | 210 lt | 1 | **1.689,90** |

## COMP OIL, olio detergente per compressori d'aria




### Caratteristiche

COMP OIL è un olio detergente di alta qualità per compressori d'aria, formulato per assicurare una affidabile lubrificazione e protezione dei compressori rotativi a palette e a vite, che operano fino a 15 bar. Contiene un collaudato pacchetto antiusura per prolungare la vita di componenti critici, quali cuscinetti ed ingranaggi. L'olio è formulato per assicurare un rapido rilascio d'aria senza eccessiva schiuma e per garantire operatività senza problemi anche in condizioni cicliche; consente inoltre la separazione dell'emulsione acqua/olio dal flusso d'aria nel separatore olio/aria e nelle unità di essiccazione.

**Applicazioni:** COMP OIL è formulato per resistere alla formazione di depositi carboniosi nelle cave delle palette di compressori rotativi e nei componenti rotativi di compressori a vite; mantiene un'eccellente pulizia delle superfici metalliche interne, in modo particolare nei separatori olio/aria e sistemi a coalescenza. Un preciso intervallo di manutenzione d'olio dipenderà dalla qualità dell'aria in aspirazione, dalla severità del ciclo operativo e dalle condizioni ambientali.

| Codice | Viscosità | Densità 15°C | Punto infiamm. COC | Viscosità 40°C | Punto scorrim. | Ceneri solf. | Stabilità ossid. | Sep. acqua 54°C | FZG test stadio fallito | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100304601 | ISO VG 46 | 875 | 230°C | 46 | -33°C | 0,43 | 0,45 | 40 | 11 | 1 lt | 1 | **18,45** |
| GL0010100304605 | ISO VG 46 | 875 | 230°C | 46 | -33°C | 0,43 | 0,45 | 40 | 11 | 5 lt | 1 | **78,00** |
| GL0010100304625 | ISO VG 46 | 875 | 230°C | 46 | -33°C | 0,43 | 0,45 | 40 | 11 | 25 lt | 1 | **353,40** |

## AIR TOP OIL, olio sintetico per compressori d'aria alternativi




### Caratteristiche

AIR TOP OIL è un olio per compressori d'aria, a base di fluidi sintetici a base estere e un particolare pacchetto additivi di elevate prestazioni. E' formulato per assicurare una lubrificazione della più alta qualità possibile per compressori alternativi ad alta pressione operanti con temperature di scarico aria superiori a 220°C ad elevate pressioni. AIR TOP OIL è formulato per assicurare una lubrificazione sicura, affidabile ed efficace per intervalli di manutenzione estesi dove lubrificanti a base minerale sono insufficienti. Con una tendenza estremamente bassa alla formazione di depositi, questo olio assicura elevate prestazioni continuative del compressore su lunghi periodi e riduce i costi di manutenzione e di fermata. AIR TOP OIL può estendere il normale periodo di manutenzione valvole tipicamente da 1000 ore operative utilizzando oli minerali convenzionali, da 2000 a 4000 ore in dipendenza delle condizioni operative.

**Applicazioni:** AIR TOP OIL è idoneo per tutti i compressori d'aria alternativi industriali, in particolare quelli operanti sotto severe condizioni di temperature scarico aria superiori a 220°C con pressioni elevate continuative.

| Codice | Viscosità | Densità 15°C | Punto infiamm. COC | Viscosità 40°C | Viscosità 100°C | Punto scorrim. | Ceneri solf. % | Sep. acqua 82°C (min) | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100311000 | ISO VG 100 | 988 | 260°C | 100 | 10,2 | -39°C | <0,02 | 25 | 20 lt | 1 | **725,10** |

## MULTIFUEL MOTOR OIL, olio motore sintetico ad alte prestazioni, 5W/30




### Caratteristiche

MULTIFUEL MOTOR OIL è un lubrificante sintetico Low SAPS di ultima generazione, dalle massime prestazioni, sviluppato per soddisfare le necessità dei motori benzina e diesel dotati di catalizzatori o filtro antiparticolato, garantendone la massima durata in tutte le condizioni di utilizzo. La nuova tecnologia Low SAPS, a basso contenuto di ceneri solfatate, zolfo e fosforo, assicura eccezionale protezione di catalizzatori e filtri antiparticolato della nuova generazione di motori benzina e diesel di autovetture e furgoni, evitandone l'intasamento e garantendone l'efficienza a lungo termine nella riduzione delle emissioni nocive allo scarico. Assicura prolungati intervalli di cambio olio, con massime prestazioni del motore, proteggendo dalla formazione di depositi e morchie e resistendo all'ossidazione ed alla degradazione alle alte temperature. Presenta eccellente fluidità a freddo; all'avviamento circola velocemente nel motore, proteggendolo efficacemente dall'usura e dalla corrosione. Consente risparmi di carburante, minimizza la rumorosità e rende la guida più fluida. MULTIFUEL MOTOR OIL supera i principali requisiti sulle prestazioni dell'industria motoristica internazionale, in particolare per i nuovi motori con catalizzatori o filtri antiparticolato.

**Applicazioni:** MULTIFUEL MOTOR OIL è ideale per motori di autovetture e furgoni dotati di catalizzatori, filtri del particolato diesel ed altri sistemi di post-trattamento dei gas di scarico; motori benzina, GPL e diesel, turbocompressi ed aspirati, di autovetture e furgoni. MULTIFUEL MOTOR OIL soddisfa le specifiche: API SM / SL / CF - ACEA C3- A3 /B4, VW 504.00/507.00, BMW LongLife- 04, DaimlerChrysler 229.51

| Codice | Densità 15°C | Indice viscosità | Viscosità 40°C | Viscosità 100°C | Viscosità 30°C | Punto scorrim. | Punto infiamm. COC | Ceneri solfatate | TBN | HTHS viscosità | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100180001 | 0,853 | 159 | 74 | 12,2 | <6600 | -45°C | 253°C | 0,6 | 5,2 | 3,6 | 1 lt | 1 | **21,30** |
| GL0010100180005 | 0,853 | 159 | 74 | 12,2 | <6600 | -45°C | 253°C | 0,6 | 5,2 | 3,6 | 5 lt | 1 | **91,95** |
| GL0010100180025 | 0,853 | 159 | 74 | 12,2 | <6600 | -45°C | 253°C | 0,6 | 5,2 | 3,6 | 25 lt | 1 | **423,60** |

## HEAVY DUTY DIESEL OIL, olio motore minerale per motori Diesel sovralimentati, 15W/40



### Caratteristiche

HEAVY DUTY DIESEL OIL è un olio classificato SHPDO (Super High Performance Diesel Oil) per motori diesel sovralimentati impiegati per servizi gravosi. L'elevata qualità delle basi e la forte percentuale di additivazione adottata consentono di prolungare notevolmente il periodo di esercizio. I principali costruttori approvano per questo lubrificante il raddoppio dell'intervallo di cambio nei motori per autocarri sia aspirati che sovralimentati (long drain). HEAVY DUTY DIESEL OIL è impiegabile in tutte le stagioni; essendo un olio di tipo multigrado, permette facili avviamenti a freddo d'inverno ed efficace lubrificazione anche alle alte temperature estive. Questo lubrificante assolve quindi tutte le esigenze dei motori diesel in ogni condizione climatica. Le sue proprietà detergenti e disperdenti sono in grado di mantenere in sospensione le particelle carboniose che si formano con il funzionamento del motore, evitando pericolosi depositi nel carter. L'alto T.B.N. consente di neutralizzare i prodotti acidi derivanti dalla combustione dello zolfo presente nel gasolio, assicurando la massima protezione del motore contro la corrosione. La speciale formulazione di HEAVY DUTY DIESEL OIL consente di prevenire il fenomeno di "bore polishing" (lucidatura a specchio dei pistoni) conferendo una maggiore durata del motore.

**Applicazioni:** HEAVY DUTY DIESEL OIL è specificatamente concepito per motori sovralimentati dove, per l'altissima temperatura esistente vicino alla turbina, l'olio è sottoposto a condizioni termiche esasperate. HEAVY DUTY DIESEL OIL assolve il livello delle specifiche ACEA E7-04, E5-02, API CI-4, CH-4, CG-4, CF-4, CF, Allison C-4, CAT ECF-1a, Cummins CES 20076, CES 20077, CES ,20078, Mack EO-M Plus, MAN M3275, MB 228.3, MTU Type 2, Renault RLD-2, Volvo VDS-3, JASO DH-1.

| Codice | Densità 15°C | Viscosità 40°C | Viscosità 100°C | Indice viscosità | Punto scorrim. | Punto infiam. V.A | Ceneri solf. % peso ASTM D874 | TBN | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100190001 | 890 | 108,4 | 14,5 | 136 | -30°C | 220°C | 1,45 | 10,5°C | 1 lt | 1 | **15,39** |
| GL0010100190005 | 890 | 108,4 | 14,5 | 136 | -30°C | 220°C | 1,45 | 10,5°C | 5 lt | 1 | **62,85** |
| GL0010100190025 | 890 | 108,4 | 14,5 | 136 | -30°C | 220°C | 1,45 | 10,5°C | 25 lt | 1 | **267,90** |

## LIGHT TR OIL, olio motore multigrado semisintetico, 10W/40



### Caratteristiche

LIGHT TR OIL è un olio multigrado ad alte prestazioni di tipo semisintetico, formulato con additivi da sintesi di nuovissima concezione che, rispetto agli oli minerali tradizionali, offre prestazioni superiori in termini di stabilità termica, caratteristiche viscosimetriche e fluidità alle basse temperature. LIGTH TR OIL garantisce inoltre il massimo livello di protezione contro l'usura, l'ossidazione e la formazione di morchie e depositi.

**Applicazioni:** LIGHT TR OIL è ideale per motori a benzina funzionanti sia con benzina verde che super, GPL e diesel, aspirati e turbocompressi, anche su autovetture funzionanti con marmitta catalitica. LIGHT TR OIL soddisfa ampiamente le specifiche dei maggiori costruttori di automobili, furgoni e veicoli commerciali leggeri ed è impiegabile in tutti i casi dove viene richiesto un lubrificante a livello API SH/CF, CCMC G5/PD2 ACEA A3-98, B3-98 VW505.00/505.00.

| Codice | Densità 15°C | Viscosità 40°C | Viscosità 100°C | Indice viscosità | Punto scorrimento | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| GL0010100170401 | 870 | 98 | 16 | 160 | -33°C | 1 lt | 1 | **14,40** |
| GL0010100170405 | 870 | 98 | 16 | 160 | -33°C | 5 lt | 1 | **57,81** |
| GL0010100174025 | 870 | 98 | 16 | 160 | -33°C | 25 lt | 1 | **252,75** |

## MIX OIL, olio miscela totalmente sintetico per motori a due tempi




### Caratteristiche

MIX OIL è un olio miscela totalmente sintetico per motori a 2 tempi. È adatto per essere utilizzato nelle condizioni di esercizio più severe. MIX OIL assicura ottime prestazioni con perfetta miscibilità in tutti i motori, anche con miscelatore separato. Infatti, anche in presenza di benzina verde, il prodotto ha una perfetta miscibilità garantendo un'ideale lubrificazione di tutto il motore ed eliminando anche fumosità allo scarico. MIX OIL protegge contro l'usura, contro l'incollamento delle fasce, evita la formazione di lacche, ed è dotato di eccellenti proprietà anti grippanti, che consentono un allungamento della vita di tutti gli organi del motore.

**Applicazioni:** Si consiglia l'utilizzo di MIX OIL alla percentuale del 2%; per impieghi molto gravosi o dove il costruttore richieda concentrazioni più elevate, si consiglia comunque di seguire le raccomandazioni di quest'ultimo. MIX OIL soddisfa le specifiche JASO FC, API TC, ISO – L – EGD.

| Codice | Densità 15°C | Viscosità 40°C | Viscosità 100°C | Punto infiam. | TBN | Ceneri solfatate | Punto scorrim. | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100310001 | 870 | 55 | 9 | 102°C | 2 mg | 0,1 | <-40°C | 100 ml | 1 | **4,74** |

## PUMP OIL, olio per pompe a vuoto rotative



### Caratteristiche

PUMP OIL è un olio formulato con oli minerali altamente raffinati che garantiscono elevate prestaioni. PUMP OIL assicura un'eccellente resistenza al degrado olio. Questo garantisce che l'olio assicurerà una lunga durata in servizio, oltre ad una ridotta tendenza alla formazione di morchie e di depositi. Inoltre, favorisce un'efficace protezione delle superfici metalliche interne da corrosione ed usura.

**Applicazioni:** PUMP OIL è indicato per l'impiego in pompe a vuoto rotative e a palette. Può essere utilizzato per garantire depressioni elevate; è raccomandato per la maggioranza di pompe a vuoto rotative in applicazioni industriali.

| Codice | Viscosità | Densità 15°C | Viscosità 40°C | Viscosità 100°C | Punto scorrim. | Punto infiamm. COC | Ceneri solfatate % | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100290105 | ISO 3448 100 | 882 | 108 | 11,8 | -9°C | 265°C | <0,01 | 5 lt | 1 | **85,95** |
| GL0010100291025 | ISO 3448 100 | 882 | 108 | 11,8 | -9°C | 265°C | <0,01 | 25 lt | 1 | **383,43** |

## STOP FREEZE, liquido concentrato antigelo



### Caratteristiche

STOP FREEZE è un liquido sintetico anticongelante a base di glicole monoetilenico che si distingue per l'assenza nel suo pacchetto inibitore di ammine nitriti e fosfati. Le caratteristiche protettive di STOP FREEZE si esplicano verso tutti i metalli che costituiscono le varie parti del circuito di raffreddamento, in modo particolare verso l'alluminio. La presenza di STOP FREEZE provoca un innalzamento del punto di ebollizione del fluido refrigerante e, quindi, il suo impiego riduce i rischi di ebollizione anche dopo difficili salite a pieno carico. Inoltre, possiede ottime caratteristiche antischiuma che garantiscono un funzionamento regolare, senza pericoli di surriscaldamento del motore e di cavitazione della pompa dell'acqua.

**Applicazioni:** STOP FREEZE è impiegabile con ottimi risultati nei circuiti di riscaldamento delle abitazioni civili, con funzioni anticorrosive ed anticongelanti. La sua colorazione blu consente l'individuazione di eventuali perdite. Risponde ai requisiti dei principali costruttori di autoveicoli; è miscibile in acqua in tutte le proporzioni a seconda della temperatura di protezione richiesta. STOP FREEZE supera le richieste delle seguenti norme nazionali o internazionali: ASTM D 3306 - S.A.E. J 814, ASTM D 4340 - S.A.E. J 1034, CUNA NC 956 - 16, B.S. 6580, FVV Heft R 443 (D), JIS K 2234 (j), UNE 26361-88 (E), Afnor R 15/601 (F), KSM 2142 (K), EMPA (CH), NATO S 759, E/L 1415c (MIL Italy). STOP FREEZE soddisfa le seguenti richieste dei costruttori: FIAT 9.55523/41, Porsche/VW/Audi/ Seat/Skoda TL 774 C, Mercedes DBL 7700, MAN 324, GM US 6277 M, Volvo (Reg. N° 260), Ford WSS-M97B44-C, Chrysler MS 9176, BMW N 600 69.0, GM US 6277 M, , Ford ESD M 97 B49-A, Opel GM QL 130100.

| Codice | Densità 15°C | Nitriti, ammine, fosfati | Punto di eboll. | Punto di eboll. °C | Riserva alcalina | PH 50% vol. acqua distill. | Test corros. metalli | Solub. in acqua (50/50 20°C) | Resist. acque dure | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100330001 | 1130 | Assenti | 170/min | 180/min | <13 | 9,0 - 10,0 | <5 | Completa | Limpido | 1 kg | 1 | **9,15** |
| GL0010100330005 | 1130 | Assenti | 170/min | 180/min | <13 | 9,0 - 10,0 | <5 | Completa | Limpido | 5 kg | 1 | **34,65** |
| GL0010100330030 | 1130 | Assenti | 170/min | 180/min | <13 | 9,0 - 10,0 | <5 | Completa | Limpido | 30 kg | 1 | **181,50** |

## WHITE OIL, olio bianco di vaselina



### Caratteristiche

WHITE OIL è un olio bianco medicinale a base minerale, proveniente da materie prime selezionate ed altamente raffinate, sottoposte a specifici trattamenti per impartire loro i gradi di purezza richiesti. Il prodotto è assolutamente incolore, inodore, insapore. Per l'elevato grado di purezza raggiunto, soddisfa i requisiti di idoneità delle più severe norme farmacologiche internazionali, in particolare risponde alle norme della Farmacopea Ufficiale Italiana IX edizione. Dal punto di vista alimentare soddisfa i seguenti paragrafi della più recente edizione della FDA (USA): - FDA 21 CFR 172.878 (for use in food); FDA 21 CFR 178.3570 (with incidental food contact ); FDA 21 CFR 178.3620 (component of non food articles intended for use in contact with food).

**Applicazioni:** WHITE OIL è ideale per impieghi ove siano previsti oli rispondenti alle norme di purezza sopra indicate, come: cosmetica (creme, pomate, rossetti, ombretti, brillantina ecc.), farmaceutica (creme, unguenti ed altre specialità), enologia (umettamento ed impregnazione dei tappi di sughero), alimentare (oliatura di riso, caffè, frutta secca ecc.), industria della gomma (oli di processo, plastificante), industria della plastica (oli di processo, plastificante).

| Codice | Colore SAYBOLT | Odore | Sapore | Massa volumica 15°C | Viscosità 40°C | Sostanze carbonizz. | Idrocarburi policiclici aromatici | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100320001 | 30 | Assente | Assente | 859 Kg/mc | 47 | Passa | Passa | 1 lt | 1 | **15,60** |
| GL0010100320005 | 30 | Assente | Assente | 859 Kg/mc | 47 | Passa | Passa | 5 lt | 1 | **65,85** |
| GL0010100320025 | 30 | Assente | Assente | 859 Kg/mc | 47 | Passa | Passa | 25 lt | 1 | **303,00** |

## COPPER GREASE, grasso al rame




### Caratteristiche

COPPER GREASE è un grasso composto da particelle ultrafini di rame lamellare e speciali inibitori di corrosione. L'appropriata scelta dei componenti consente di esaltare al massimo l'azione sinergica, ottenendo così un prodotto molto versatile e dotato di eccezionali caratteristiche antigrippanti, anticorrosive, antiruggine, antiadesive, lubrificanti, nelle più svariate condizioni d'impiego ed in un ampio intervallo di temperature (da -30°C a 1100°C).

**Applicazioni:** L'elevata resistenza alle altissime temperature, la spiccata inerzia chimica anche in presenza di atmosfere corrosive (acide, basiche, saline, ecc.), l'ottima adesività e la costante plasmabilità consentono l'applicazione di COPPER GREASE nei più svariati settori, su una vasta gamma di componenti, quali: perni di collettori scarico motori, giunti ad espansione e a flangia, protettivi per contatti elettrici, viti, dadi e cerniere di coperchi per ispezione caldaie, perni, viti, bulloni e dadi di catenarie per forni, valvole di iniezione testate motori diesel, raccordi filettati in genere, viti e prigionieri di laminatoio. COPPER GREASE può essere impiegato anche in tutti i casi dove il calore o l'ambiente altamente corrosivo possono creare bloccaggi irreversibili: questo grasso, infatti, consente di prevenire tali inconvenienti, facilitando notevolmente gli interventi di manutenzione, con il conseguente contenimento dei costi di esercizio.

| Codice | Consistenza NGLI | Aspetto | Penetraz. lav. 60 doppi colpi | Punto goccia ASTM D 566 | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|
| GL0010100280209 | 2 | Massa pseudoplastica, colore ramato | 265-295 mm/10 | >160°C | 0,9 kg | 1 | **38,79** |
| GL0010100280204 | 2 | Massa pseudoplastica, colore ramato | 265-295 mm/10 | >160°C | 4,5 kg | 1 | **180,63** |
| GL0010100282023 | 2 | Massa pseudoplastica, colore ramato | 265-295 mm/10 | >160°C | 23 kg | 1 | **879,90** |

## LITH GREASE, grasso al litio



### Caratteristiche

LITH GREASE è un grasso formulato con oli di base seletti ed addensati a base di sapone di litio di tipo multifunzionale, per autotrazione ed industria. Contiene speciali additivi per resistere alle basse temperature ed alle sollecitazioni di tipo meccanico, anche intense e prolungate nel tempo. LITH GREASE possiede inoltre una notevole resistenza all'ossidazione, al dilavamento ed alla corrosione.

**Applicazioni:** Grazie alle sue caratteristiche, LITH GREASE è adatto a svariati impieghi: per autoveicoli, macchine movimento terra, macchine agricole, attrezzature industriali, dove non siano richiesti grassi con caratteristiche particolari. Le temperature d'impiego variano da –30°C a 130°C.

| Codice | Consistenza NGLI | Punto goccia | Olio base | Penetrazione ASTM (DMM) | Tipo di sapone | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| GL0010100200209 | 2 | 180°C | Minerale | 280 | Litio | 0,9 kg | 1 | **17,61** |
| GL0010100200204 | 2 | 180°C | Minerale | 280 | Litio | 4,5 kg | 1 | **73,89** |
| GL0010100202023 | 2 | 180°C | Minerale | 280 | Litio | 23 kg | 1 | **323,13** |

## LITH EP GREASE, grasso al litio E.P.



### Caratteristiche

LITH EP GREASE è un grasso di qualità superiore, dall'aspetto pomatoso / semifilante, di colore chiaro. Additivato E.P. (Estreme Pressioni), questo grasso è dotato di eccellente stabilità meccanica, ottima resistenza all'ossidazione, all'invecchiamento ed all'azione dilavante dell'acqua, è utilizzabile in un ampio intervallo di esercizio (da -20°C a +120°C ).

**Applicazioni:** Date le peculiari proprietà, LITH EP GREASE sostituisce singolarmente ogni tipo di grasso (al calcio, al sodio, all'alluminio, a base mista) e può essere utilizzato nelle più svariate applicazioni: lubrificazione di cuscinetti piani o a rotolamento, di macchinario industriale, edile, stradale ed in genere quando si verificano contemporaneamente condizioni di funzionamento caratterizzate da velocità elevate, alte temperature (fino a 120°C) e/o presenza d'acqua.

| Codice | Consist. NLGI | Punto gocc. | Aspetto | Corros. su rame | Prova 3 sfere RIV (5h a 600 g/m) perdita consist. | Emcor test | Penetraz. ASTM (DMM) | Wheel Bearing Test ASTM D 1263 perdita peso lubrif. | Tipo sapone | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100212004 | 00 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 4,5 kg | 1 | **68,46** |
| GL0010100212002 | 00 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 200 kg | 1 | **2.333,10** |
| GL0010100212000 | 0 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 23 kg | 1 | **306,66** |
| GL0010100211023 | 1 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 23 kg | 1 | **306,66** |
| GL0010100210209 | 2 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 0,9 kg | 1 | **16,35** |
| GL0010100210204 | 2 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 4,5 kg | 1 | **68,46** |
| GL0010100212023 | 2 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 23 kg | 1 | **306,66** |
| GL0010100212020 | 2 | 185°C | Pomatoso | Negativa | <10% | Superato | 265/295 | 2,5 gr - buona | Litio | 200 kg | 1 | **2.559,00** |

## COMPLEX LITH GREASE, grasso al litio complesso



### Caratteristiche

COMPLEX LITH GREASE è un grasso al litio di nuova generazione a base di saponi di litio complessi, con ottime proprietà antiruggine e molto resistente alle alte temperature, al dilavamento dell'acqua, all'azione di taglio meccanica. COMPLEX LITH GREASE risulta idoneo per tutte le applicazioni che richiedono un grasso con ottimo potere lubrificante, in condizioni di alti carichi (ad esempio cuscinetti mozzi, ruote di veicoli pesanti operanti in gravose condizioni di esercizio). Nella gradazione NLGI 2, grazie alla sua eccellente pompabilità, può essere facilmente applicato mediante impianti di lubrificazione centralizzata a linea doppia.

**Applicazioni:** COMPLEX LITH GREASE è particolarmente indicato per la lubrificazione di cuscinetti volventi operanti su macchine di colata (rulli, cesoie, torrette gira siviere), laminatoi a caldo (vie a rulli, gabbie di laminazione, ASPI), piani di raffreddamento e forni di riscaldo di industrie siderurgiche. È inoltre adatto alla lubrificazione di macchine dell'industria ceramica, del cemento, del vetro e della carta.

| Codice | Costist. NLGI | Aspetto | Penetraz. lavor. 60 doppi colpi ASTM D217 | Punto goccia ASTM D 566 | Viscosità olio base 40°C ASTM D 455 | Emcor test | Water Wash out perdita peso | Limite termico impiego | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100260209 | 2 | Pomatoso, colore ambrato | 270-290 mm/10 | >240°C | ISO VG 320 | 0 | <3% | Da -15°C a +160°C | 0,9 kg | 1 | **27,57** |
| GL0010100260204 | 2 | Pomatoso, colore ambrato | 270-290 mm/10 | >240°C | ISO VG 320 | 0 | <3% | Da -15°C a +160°C | 4,5 kg | 1 | **124,53** |
| GL0010100262023 | 2 | Pomatoso, colore ambrato | 270-290 mm/10 | >240°C | ISO VG 320 | 0 | <3% | Da -15°C a +160°C | 23 kg | 1 | **593,28** |

## BIMOL GREASE, grasso al bisolfuro di molibdeno



### Caratteristiche

BIMOL GREASE è un grasso multifunzionale, a base di saponi di litio additivati con bisolfuro di molibdeno, particolarmente adatto per la lubrificazione di organi sottoposti a gravose condizioni di servizio. BIMOL GREASE è prodotto utilizzando oli base al solvente severamente raffinati (PCA inferiori al 3%). Le peculiarità di questo grasso sono: ottima protezione antiusura, mantenimento del potere lubrificante, elevata stabilità nel tempo delle proprietà lubrificanti, efficace resistenza all'azione dilavante dell'acqua, ampio intervallo delle temperature di esercizio, notevole stabilità meccanica ed ottimo potere lubrificante, elevata resistenza ai carichi elevati e alle vibrazioni.

**Applicazioni:** Per l'alta qualità e per l'eccellente comportamento in esercizio, BIMOL GREASE è consigliato per la lubrificazione di snodi, ralle di appoggio, giunti, cuscinetti e cingoli.

| Codice | Consist. NLGI | Tipo addensante | Aspetto | Colore | Penetrazione lavorata | Punto goccia | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| GL0010100220209 | 2 | Litio | Pomatoso | Nero | 265/295 | 180°C | 0,9 kg | 1 | **20,34** |
| GL0010100220204 | 2 | Litio | Pomatoso | Nero | 265/295 | 180°C | 4,5 kg | 1 | **88,35** |
| GL0010100222023 | 2 | Litio | Pomatoso | Nero | 265/295 | 180°C | 23 kg | 1 | **408,36** |

## HT GREASE, grasso per alte temperature



### Caratteristiche

HT GREASE è un grasso di alta qualità, ad elevato indice di viscosità, specifico per alte temperature, ideale per i cuscinetti piani e a rotolamento operanti ad elevate temperature; in particolare per quelli operanti con elevati carichi e a basse velocità. HT GREASE ha un'ottima stabilità meccanica; mantiene le sue eccellenti proprietà sebbene sottoposto ad alte temperature e sollecitazioni meccaniche che tendono a liquefarlo. Questo grasso possiede notevoli capacità antiossidanti e bassa volatilità; l'aggiunta di specifici additivi antiossidanti operanti ad alta temperatura accresce le sue capacità di resistere all'ossidazione e di durare di più in servizio. HT GREASE ha una bassissima tendenza a liquefarsi. Per la presenza di uno specifico ispessente, è in grado di lubrificare per lungo tempo senza essere soggetto, come i grassi al litio, a fenomeni di liquefazione.

**Applicazioni:** HT GREASE può essere impiegato a temperature tra -10°C e +180°C con punte sino a 200°C; è possibile impiegarlo a temperature anche più elevate, ma la vita utile può venire ridotta significativamente. L'uso di materie prime selezionate di nuova tecnologia, consente prestazioni di alto livello per lungo tempo; ma la vita e la durata in servizio di HT GREASE dipendono, oltre che dai carichi, dalle temperature e dalla velocità di impiego, anche dalla presenza di sporco, umidità o getti d'aria che possono ridurne significativamente la durata.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| GL0010100240009 | 0,9 kg | 1 | **26,85** |
| GL0010100240004 | 4,5 kg | 1 | **120,93** |
| GL0010100240023 | 23 kg | 1 | **574,77** |

## SILICONE GREASE, grasso speciale al silicone




### Caratteristiche

SILICONE GREASE è un grasso speciale al silicone (del tipo dimetilpolisilossani) per alte e basse temperature (-30°C ÷ +200°C). Oltre all'ottima idrorepellenza e all'ottima resistenza all'ossidazione, SILICONE GREASE possiede un'eccellente adesività: queste caratteristiche consentono di ottenere la formazione di un film lubrificante più duraturo e resistente all'azione dilavante dell'acqua.

**Applicazioni:** SILICONE GREASE è ideale come scivolante in accoppiamenti non eccessivamente caricati ed in particolare quando siano impiegati elementi in plastica e gomma. Trova ottimo impiego nelle industrie alimentari per la sua innocuità. Inoltre, per le sue caratteristiche particolari, può essere impiegato come isolante con rigidità elettrica pari a 12 kV/mm. Se ne sconsiglia l'uso per la lubrificazione di cuscinetti volventi.

| Codice | Gradaz. | Aspetto | Fluido base | Viscosità olio base 25°C | Temperatura di impiego | Comport. dell'acqua | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|
| GL0010100320309 | 3 | Pasta colore bianco ghiaccio | Olio di silicone puro | 350 cst | -30°C ÷ +200°C | Eccellente | 0,9 kg | 1 | **43,80** |

## MID-SINT GREASE, grasso semisintetico




### Caratteristiche

MID-SINT GREASE è un grasso filante, dall'aspetto liscio, brillante, eccezionalmente adesivo. Grazie all'impiego di particolari materie prime di natura sintetica, è stato possibile conferire al prodotto un altissimo grado di idrorepellenza; inoltre, la sua eccezionale adesività evita l'asportazione meccanica degli organi lubrificati, anche quando operano con abbondante presenza d'acqua. Le qualità sopra indicate consentono di risolvere molti problemi, soprattutto quando non è gradito l'impiego di prodotti contenenti grafite e bisolfuro di molibdeno.

**Applicazioni:** Le applicazioni più diffuse di MID-SINT GREASE sono la lubrificazione di scivoli, perni, snodi, funi di macchinari impiegati nell'industria estrattiva e, comunque, tutti gli impieghi dove ci sia una notevole presenza d'acqua. MID-SINT GREASE è ideale per la lubrificazione dei martelli demolitori idraulici di grandi dimensioni, viene impiegato anche sui giunti tripoidali ed omocinetici degli autoveicoli, nonché in tutte le situazioni in cui sia necessario l'uso di un grasso estremamente adesivo e tenace.

| Codice | Consist. NLGI | Aspetto | Penetraz. lav. 60 doppi colpi ASTM D 217 | Punto goccia ASTM D 566 | Tempo esercizio | Prova macch. 3 sfere RIV (5h a 600 g/m) perdita consist. | Corros. rame | Wheel Bearing Test ASTM D 1263 perdita peso | Resist. dilava. ASTM D 1264 perdita peso | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL0010100270209 | 2 | Filante adesivo, colore blu | 265-295 mm/10 | >180°C | -15°C +150°C | <10% | Neg. | Max 3 gr | Inferiore a 1 gr | 0,9 kg | 1 | **25,05** |
| GL0010100270204 | 2 | Filante adesivo, colore blu | 265-295 mm/10 | >180°C | -15°C +150°C | <10% | Neg. | Max 3 gr | Inferiore a 1 gr | 4,5 kg | 1 | **111,87** |
| GL0010100272023 | 2 | Filante adesivo, colore blu | 265-295 mm/10 | >180°C | -15°C +150°C | <10% | Neg. | Max 3 gr | Inferiore a 1 gr | 23 kg | 1 | **528,54** |

## PURE GREASE, grasso alimentare



### Caratteristiche

PURE GREASE è un grasso lubrificante all'alluminio complesso, ideale per il settore alimentare, resistente alle alte e basse temperature ed all'azione dilavante dell'acqua, con eccellenti proprietà E.P. (Estreme Pressioni), antiruggine e antiusura. È caratterizzato da una buona pompabilità e da un'elevata stabilità nei sistemi di lubrificazione centralizzata. PURE GREASE è composto da oli sintetici a livello UDSA H 1 e da altri componenti che soddisfano i requisiti richiesti dalle più severe specifiche emanate da organismi internazionali quali F.D.A., F.U. Essendo fabbricato con materie prime sicuramente innocue, quando viene accidentalmente a contatto con gli alimenti non provoca alcun inquinamento nocivo.

**Applicazioni:** PURE GREASE, nella gradazione NLGI 2, può essere utilizzato per la lubrificazione di differenti organi e cuscinetti, non molto carichi ma esposti anche ad alte e basse temperature.

| Codice | Gradaz. NLGI | Aspetto | Penetraz. lavorata 60 doppi colpi ASTM D 217 | Punto goccia | Viscosità olio base | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| GL0010100250209 | 2 | Massa pseudoplastica, colore bianco | 265-295 mm/10 | >250°C | ISO VG 100 | 0,9 kg | 1 | **40,59** |
| GL0010100250204 | 2 | Massa pseudoplastica, colore bianco | 265-295 mm/10 | >250°C | ISO VG 100 | 4,5 kg | 1 | **189,66** |
| GL0010100252023 | 2 | Massa pseudoplastica, colore bianco | 265-295 mm/10 | >250°C | ISO VG 100 | 23 kg | 1 | **926,13** |

## VASELINE, grasso di vaselina



### Caratteristiche

VASELINE è un petrolato farmaceutico di colore bianco/ neve, di particolare morbidezza, rispondente alle norme FDA (U.S.A.) ed alle altre più importanti Farmacopee nazionali vigenti nei paesi della Comunità Europea. Tra queste figurano in particolare le ultime edizioni della Farmacopea Ufficiale italiana (FUI IX Ed.) e quella della Germania federale (DAB 10). Le peculiarità di questo grasso sono: colore bianco/neve, tipo a fibra lunga, alta stabilità del colore, consistenza pomatosa accoppiata a bassi valori del punto di fusione, inodore, insapore, chimicamente e biologicamente inerte.

**Applicazioni:** VASELINE è ottenuto da materie prime attentamente selezionate; grazie ad una particolare metodologia di raffinazione è indicato, per le sue doti di morbidezza, ad un'ampia gamma di applicazioni in numerosi settori: cosmetico (creme, pomate rossetti, ombretti, ecc.), farmaceutico (principalmente come eccipiente per la produzione di creme unguenti ed altre specialità), enologia (umettamento ed impregnazione dei trucioli di sughero), industria della carta, della gomma, delle materie plastiche.

| Codice | Aspetto | Penetraz. 25°C | Viscosità 100°C | Punto fusione | Assorbenza U.V. 260/420 nm | Formato | | € / cad. |
|---|---|---|---|---|---|---|---|---|
| GL0010100230230 | Bianco / neve | 165-190 | 7-9 | 58-66°C | Risponde | 230 gr | 1 | **7,56** |
| GL0010100230009 | Bianco / neve | 165-190 | 7-9 | 58-66°C | Risponde | 900 gr | 1 | **13,83** |
| GL0010100230004 | Bianco / neve | 165-190 | 7-9 | 58-66°C | Risponde | 4,5 kg | 1 | **55,80** |
| GL0010100230023 | Bianco / neve | 165-190 | 7-9 | 58-66°C | Risponde | 23 kg | 1 | **241,92** |

## SIL-NEU Silicone neutro antimuffa



### Caratteristiche

SIL-NEU è un sigillante siliconico neutro puro, con caratteristiche di elevata elasticità, adesione e resistenza alle alte e basse temperature. Adatto per vetro, ceramica, superfici metalliche, materie plastiche (escluso PE, PP, PTFE), policarbonato, piastrelle e materiali edili; resiste agli UV; non provoca corrosione, non è verniciabile. Temperatura lavorabilità: da 5 a 40°C. Tempo di lavorabilità: 25 minuti (23°C 50% U.R.). Disponibile nei colori: trasparente e bianco.

**Applicazioni:** SIL-NEU trova applicazione nelle operazioni di sigillatura e incollaggio di superfici vetrate, ceramica, alluminio e metalli in genere, grondaie, superfici verniciate, policarbonato, PVC, legno. Si consiglia di effettuare prove di adesione su materiali particolari.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH6650120400310 | Trasparente | 310 ml | 1 | **8,60** |
| CH665012040310B | Bianco | 310 ml | 1 | **9,60** |
| CH665012040310N | Nero | 310 ml | 1 | **9,60** |

## SIL-NEU EDIL Silicone neutro per edilizia e lattoneria



### Caratteristiche

SIL-NEU EDIL è un sigillante professionale siliconico monocomponente, a reticolazione neutra e basso modulo, con ottima adesione, lunga stabilità al magazzinaggio e eccellente lavorabilità, ideale per impiego nel settore edilizio e nella lattoneria. Presenta le seguenti caratteristiche: ottima lavorabilità per l'impiego professionale, facile estrusione a basse (+5°C) e ad alte temperature (+40°C), elastico a basse (-40°C) e ad alte temperature (+150°C), adesione senza primer sulla maggior parte dei substrati, non è corrosivo nei confronti dei metalli, è applicabile su substrati alcalini come calcestruzzo, malta e fibrocemento, ha un'eccellente resistenza agli agenti atmosferici, quasi esente da odore, ritardante di muffa.

**Applicazioni:** SIL-NEU EDIL trova applicazione nelle operazioni di sigillatura di giunti di connessione e di espansione nel settore edile; sigillature perimetrali; sigillature di giunti tra gli elementi di lattoneria e le strutture di supporto (cornici, traversi, montanti). Il tempo necessario per la reticolazione può allungarsi a bassa temperatura, scarsa umidità o in caso di scarso ricambio di aria. Può scolorirsi a contatto con alcuni elastomeri organici, quali EPDM, APTK e neoprene. SIL-NEU EDIL presenta ottima adesione senza primer sulla maggior parte dei materiali utilizzati per applicazioni sanitarie, quali vetro, piastrelle, ceramica, smalto, piastrelle smaltate e clinker; metalli quali alluminio, acciaio, zinco, rame; legno impregnato, smaltato o verniciato e molte plastiche. A causa della grande varietà di superfici esistenti, si consiglia di effettuare prove di adesione su materiali particolari.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH665012050031G | Grigio | 310 ml | 1 | **9,56** |
| CH665012050031M | Marrone testa di moro | 310 ml | 1 | **9,56** |

## SIL-UNI Silicone acetico multiuso universale




### Caratteristiche

SIL-UNI è un sigillante siliconico acetico puro, ad elevata purezza, per sigillature durevoli, con caratteristiche di elasticità, adesione e resistenza alle alte e basse temperature. Adatto per materiali non porosi quali vetro, ceramica, alluminio, materie plastiche (escluso PE, PP, PTFE); non è verniciabile. Temperatura lavorabilità: da 0 a 40°C. Tempo di lavorabilità: 12 minuti (20°C 90% U.R.). Disponibile nei colori: trasparente e nero.

**Applicazioni:** SIL-UNI è multiuso, trova applicazione nelle operazioni di sigillatura e incollaggio di superfici vetrate, ceramica, piastrelle, alluminio, bagni, cucine. Non è adatto per specchi, materiali fibrosi e porosi.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH6650120400280 | Trasparente | 280 ml | 1 | **5,52** |
| CH665012040208B | Bianco | 280 ml | 1 | **6,36** |
| CH665012040280N | Nero | 280 ml | 1 | **6,36** |

## SIG-ACRY Sigillante acrilico




### Caratteristiche

SIG-ACRY è un sigillante acrilico puro, di prima qualità, ad elevato contenuto di resine. Possiede caratteristiche di elevata elasticità e lavorabilità, adesione e resistenza agli sbalzi di temperatura e agli agenti atmosferici. Adatto per materiali edili, cemento, cartongesso, ceramica, per fughe o crepe dove vi siano piccoli movimenti. Una volta asciutto è pitturabile e verniciabile. Applicabile anche su superfici leggermente umide, non unge e si lava con acqua finché è fresco. Resiste agli UV ed è indicato per usi interni. Temperatura lavorabilità: da 5 a 50°C. Tempo di lavorabilità: 5 minuti (20°C 90% U.R.).

**Applicazioni:** SIG-ACRY è adatto per la sigillatura di materiali edili, cartongesso, giunti di dilatazione, sigillatura di fughe d'angolo su pavimenti, terrazzi e posizioni soggette a movimenti, tra serramenti o cassonetti e muratura.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH6660120400310 | Bianco | 310 ml | 1 | **4,90** |

## CHEM-FIX Ancorante chimico bicomponente




### Caratteristiche

CHEM-FIX è un ancorante chimico bicomponente ad iniezione, a base di resina poliestere senza stirene, ad altissima resistenza. Formulazione con doppia certificazione CE Opzione 7 per l'utilizzo su supporti in calcestruzzo, murature piene e semipiene. Dotato di cartuccia riutilizzabile semplicemente sostituendo il beccuccio miscelatore ed elevata tixotropia: la resina non cola su pareti verticali. Il tassello chimico è inoltre ideale per avere la massima tenuta di ancoraggi su muratura forata, con l'impiego di un apposito tassello a rete. Temperatura di utilizzo e stoccaggio della cartuccia compresa tra +5 e +25°C.

**Applicazioni:** CHEM-FIX è idoneo per l'utilizzo con barre filettate su calcestruzzo, mattone pieno e forato. Ideale per utilizzi in edilizia, impiantistica, carpenteria e costruzioni in genere; per ancoraggio di strutture metalliche e lignee, serramenti, tende da sole, antenne, condizionatori, piastre di fissaggio, inferriate, cardini, impianti e ovunque sia necessario ottenere un fissaggio stabile e versatile. Su mattoni forati utilizzare l'apposito tassello a rete. CHEM-FIX è fornito con un beccuccio miscelatore.

| Codice | Utilizzo | Formato | | € / cad. |
|---|---|---|---|---|
| CH6680120400280 | con pistola silicone | 300 ml | 1 | **17,92** |
| CH6680120400380 | con pistola professionale | 400 ml | 1 | **19,60** |

## POLI-FIX Sigillante adesivo a base polimero




### Caratteristiche

POLI-FIX è un adesivo-sigillante monocomponente di elevata qualità a base di polimero ibrido con terminazione silanica che indurisce per reazione con l'umidità dell'aria. È inodore, neutro e privo di isocianati. Dopo l'applicazione, a contatto con l'umidità dell'aria, il prodotto polimerizza realizzando una saldatura elastica di lunga durata. Le principali caratteristiche di POLI-FIX: monocomponente, pronto all'uso, indurisce anche immerso in acqua, esente da isocianati e solventi, elasticità permanente, notevole durezza superficiale, inodore, grande stabilità cromatica, proprietà adesive inalterate nel tempo, sovraverniciabilità, adesione senza primer, ottima estrusione, ottima resistenza UV.

**Applicazioni:** POLI-FIX è ideale per l'incollatura di pannelli, zoccoli di legno, davanzali, soglie, specchi e materiali isolanti. Garantisce la massima tenuta della sigillatura nel montaggio dei vetri, connessione di giunzioni negli edifici, sigillature in cucine e bagni. Può essere utilizzato in carrozzeria e per giunzioni di connessione metalliche (cianfrinatura), per lavori di incollatura e chiusura a tenuta nei cantieri navali e come riempitivo universale per fenditure e superfici irregolari. In generale, POLI-FIX può essere usato per assemblare ermeticamente pezzi di vetro, superfici lucide, metallo rivestito di porcellana, pannelli di resina epossidica e di poliestere, di polistirolo, di acciaio inossidabile, alluminio anodizzato e legno verniciato. Temperatura di applicazione: +5°C ÷ +50°C; temperatura di esercizio: -40°C ÷ +100°C.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH6680120500290 | Cristallino | 290 ml | 1 | **17,20** |

## BOND-PLUS Adesivo monocomponente a base polimero




### Caratteristiche

BOND-PLUS, a base di nuovi polimeri MS di alta qualità, è un adesivo monocomponente forte con elevatissimo potere di adesione ad effetto ventosa. Ecco perché il sostegno degli oggetti fissati generalmente non è necessario. Il prodotto è inodore, neutro e privo di silicone e isocianati. Dopo l'applicazione BOND-PLUS polimerizza a contatto con l'umidità atmosferica per formare una guarnizione in gomma resistente.

**Applicazioni:** BOND-PLUS è utilizzabile per l'incollaggio di pannelli, battiscopa, davanzali, strisce, soglie, specchi e materiali isolanti. Trova applicazione in carrozzeria, per giunti di parti in metallo e per operazioni di incollaggio nel settore della costruzione navale. A causa della consistenza di BOND-PLUS si consiglia di utilizzare una pistola a mano con trasmissione rinforzata. In generale BOND-PLUS può essere utilizzato, anche senza primer, per sigillare assemblaggi di vetro, superfici smaltate, porcellana, metallo rivestito, pannelli epossidici e in poliestere, polistirene, PVC, policarbonato, poliuretano, acciaio inossidabile, alluminio anodizzato, rame, zinco, piombo e pannelli in legno finito e in HPL. Per le superfici porose come il calcestruzzo e gesso si consiglia di utilizzare un primer. BOND-PLUS non è raccomandato per applicazioni su PE, PP, Teflon e superfici bituminose, applicazioni subacquee e per giunti di dilatazione. Non verniciabile con vernice in resina alchidica. Al buio può verificarsi ingiallimento. BOND-PLUS non può essere applicato attraverso un beccuccio con un foro piccolo.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH668012050290B | Bianco | 290 ml | 1 | **20,60** |

## POLY-FOAM Schiuma poliuretanica




### Caratteristiche

POLY-FOAM è una schiuma poliuretanica sia manuale che per pistola, idonea per riempimento, sigillatura e fissaggio di intercapedini e fessure su supporti di ogni genere, dai materiali edili, al legno e al metallo. Si espande e indurisce rapidamente formando una barriera al rumore e all'acqua grazie all'elevata presenza di celle chiuse (>90%); è permeabile al vapore e favorisce la normale traspirazione dei materiali. Ha un'eccellente stabilità dimensionale, un'elevata resa in volume e un ottimo isolamento. Permette il risparmio di tempo grazie al rapido indurimento: può essere tagliata già dopo 45 minuti. Grazie alla moderna formulazione chimica non cola su superfici verticali, resiste alla temperatura da -60°C a +100°C, all'invecchiamento e all'acqua. Utilizzare la bombola ad una temperatura compresa tra +5 e +35°C.

**Applicazioni:** POLY-FOAM è idonea per la sigillatura di cassonetti di avvolgibili, per l'installazione di serramenti, tegole e coppi, per la sigillatura di attraversamenti di tubi in termoidraulica e condizionamento, per la chiusura e la sigillatura di giunti tra elementi prefabbricati in edilizia, cavità e intercapedini, per la sigillatura di anelli e coperchi di tombini in cemento. Ha un'eccellente adesione su mattoni, cemento, gesso, legno, vetro, metallo, polistirene, PVC. Costruzione di isolamenti su tetti, posa di elementi in legno e pannelli isolanti.

| Codice | Utilizzo | Formato | | € / cad. |
|---|---|---|---|---|
| CH667012040750P | con pistola | 750 ml | 1 | **13,20** |
| CH667012040750M | manuale | 750 ml | 1 | **12,40** |

## POLY-CLEAN Pulitore per schiuma poliuretanica




### Caratteristiche

POLY-CLEAN è uno spray di nuova formulazione per la rimozione della schiuma poliuretanica. Il prodotto ha effetto su residui di schiuma non ancora induriti. È ideale sia per la pulizia dell'attrezzatura utilizzata che per la rimozione di schiuma poliuretanica da indumenti e da altri materiali.

**Applicazioni:** POLY-CLEAN trova applicazione in ferramenta, edilizia e nell'industria in generale. È particolarmente adatto per gli impianti di aria condizionata.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH6670120500400 | 500 ml | 1 | **10,00** |

## Pistola sigillante a stelo



### Caratteristiche

Pistola sigillante a stelo leggera, con asta di spinta esagonale da 8 mm. Piattello bullonato, sistema di spinta ad alta resistenza e sistema "antigoccia". Applicazioni: per uso professionale, indicata per lattonieri, idraulici, serramentisti, utensilerie, negozi di ferramenta, ecc. Per cartucce da 300/310 ml.

| Codice | | € / cad. |
|---|---|---|
| SP00100701000PS | 1 | **12,22** |

## Pistola sigillante professionale



### Caratteristiche

Pistola sigillante a stelo, professionale. Specifica per tutti i tipi di sigillanti in cartuccia e ancoranti chimici; con stelo da 8 mm., sistema di spinta S.T.D., fondello rinforzato in acciaio e sistema "antigoccia". Leggera, di facile utilizzo, sicura e performante. Applicazioni: per uso professionale, in molteplici campi. Utilizzabile con cartucce da 300/400/600 ml.

| Codice | | € / cad. |
|---|---|---|
| SP00100701000PP | 1 | **31,46** |

## Pistola sigillante a tubo manuale







### Caratteristiche

Pistola sigillante a tubo, manuale. Con sistema di spinta S.T.D., dotata di porta ugelli e 5 ugelli tecnici, con sistema “antigoccia”. Leggera e di facile utilizzo. Applicazioni: per uso professionale, in molteplici campi. Utilizzabile con cartucce da 300/400 ml.

| Codice | | € / cad. |
|---|---|---|
| SP0010070100PM4 | 1 | **76,02** |

## Pistola sigillante coaxiale manuale



### Caratteristiche

Pistola sigillante manuale per prodotti ad alta viscosità e ancoranti chimici in cartucce coaxiali. Con sistema di spinta ad alta resistenza, fine corsa regolabile e sistema “antigoccia”. Applicazioni: per uso professionale, utilizzabile con cartucce bi-componenti coaxiali da 380/410 ml. Rapporto di miscelazione 10:1.

| Codice | | € / cad. |
|---|---|---|
| SP0010070100PMC | 1 | **45,50** |

## Pistola per schiuma poliuretanica



### Caratteristiche

Pistola professionale per l’applicazione di schiuma poliuretanica, per montaggi, riempimenti e applicazioni in genere. L’estrusione viene controllata da un regolatore di flusso che consente un riempimento adeguato dei giunti, oltre a rendere il montaggio dei serramenti veloce, semplice, preciso e sicuro. Applicazioni: per uso professionale, in vari settori quali edilizia, idraulici, condizionamento, installazione di serramenti, isolamento di tetti, posa di elementi in legno e pannelli isolanti, ecc.

| Codice | | € / cad. |
|---|---|---|
| SP00100701000PU | 1 | **31,20** |

## Soffiatore





### Caratteristiche

Pompetta soffiatrice d'aria, per pulizia fori da 280 mm.

| Codice | | € / cad. |
|---|---|---|
| SP0010070100000S | 1 | **27,51** |

## Serrafiletti 1143 a media resistenza, frena e sigilla




### Caratteristiche

SERRAFILETTI 1143 è un adesivo e sigillante anaerobico, per metalli di media resistenza, specifico per bloccare e sigillare in modo permanente giunti filettati che richiedono uno smontaggio standard con normali utensili manuali. Può essere utilizzato su metalli attivi (rame, ottone, ecc.) e su metalli passivi (acciaio inox e superfici cromate). Ha un'alta resistenza a calore, corrosione, vibrazioni, acqua, gas, oli, idrocarburi, ecc.

**Applicazioni:** SERRAFILETTI 1143 è ideale per bloccare e frenare viti, dadi e bulloni, facilitando l'avvitamento delle parti filettate. Viene impiegato anche per sigillare raccordi idraulici e pneumatici fino a ¾".

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH1143130400050 | 50 ml | 1 | **20,72** |
| CH1143130400250 | 250 ml | 1 | **94,10** |

## Serrafiletti 1170 ad alta resistenza, blocca viti e bulloni




### Caratteristiche

SERRAFILETTI 1170 è un adesivo e sigillante anaerobico, specifico per bloccare e sigillare in modo permanente i giunti filettati in genere. In assenza di aria e a contatto con il metallo, il prodotto polimerizza, prevenendo l'allentamento dovuto ad urti, vibrazioni e sbalzi di temperatura. Può essere utilizzato su metalli attivi (rame, ottone, ecc.) e su metalli passivi (acciaio inox e superfici cromate). Ha una notevole resistenza alle alte temperature ed una buona oleo-tolleranza: sopporta contaminazioni da oli lubrificanti, fluidi protettivi, oli da taglio, ecc.

**Applicazioni:** SERRAFILETTI 1170 è ideale per bloccare e frenare viti, dadi e bulloni, facilitando l'avvitamento delle parti filettate. Viene impiegato principalmente dove le sollecitazioni meccaniche sono rilevanti (per esempio, negli alloggiamenti motore) e, più in generale, nei casi in cui sia richiesta un'elevata resistenza meccanica.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH1170130400050 | 50 ml | 1 | **20,72** |
| CH1170130400250 | 250 ml | 1 | **94,10** |

## Serrafiletti 1171 ad alta resistenza, per prigionieri




### Caratteristiche

SERRAFILETTI 1171 è un adesivo e sigillante anaerobico, specifico per bloccare e sigillare in modo permanente i giunti filettati in genere. Particolarmente indicato per substrati inattivi e dove è richiesta un'elevata resistenza alle alte temperature.

**Applicazioni:** SERRAFILETTI 1171 è consigliato principalmente per sigillare in modo permanente perni di bloccaggio su blocchi motore.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH1171130400050 | 50 ml | 1 | **20,72** |
| CH1171130400250 | 250 ml | 1 | **94,10** |

## Serrafiletti 1190 penetrante, capillare




### Caratteristiche

SERRAFILETTI 1190 è un adesivo e sigillante anaerobico specifico per metalli ad alta resistenza e rapido indurimento, per bloccare e sigillare giunti filettati. Molto resistente a calore, corrosione, vibrazioni, acqua, gas, oli, ecc. Grazie alla sua alta viscosità, consente il riempimento di tolleranze notevoli.

**Applicazioni:** SERRAFILETTI 1190 viene impiegato per bloccare e frenare viti, dadi, bulloni e parti filettate in genere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH1190130400050 | 50 ml | 1 | **20,72** |
| CH1190130400250 | 250 ml | 1 | **94,10** |

## Sigillante 2205 a media resistenza, flessibile, per parti rigide




### Caratteristiche

SIGILLANTE 2205 è un adesivo e sigillante anaerobico specifico per metalli a media resistenza meccanica e per la sigillatura di gas, acqua, GPL, idrocarburi, oli, ecc. Ha un'alta resistenza alla temperatura, alla corrosione, agli urti e alle vibrazioni.

**Applicazioni:** SIGILLANTE 2205 viene impiegato principalmente per sigillare raccordi idraulici e pneumatici fino a 3", oltre che per sigillare recipienti contenenti gas, gas liquefatti e liquidi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH2205130400050 | 50 ml | 1 | **22,12** |
| CH2205130400250 | 250 ml | 1 | **100,90** |

## Sigillante 2210 per alte temperature




### Caratteristiche

SIGILLANTE 2210 è una guarnizione anaerobica per metalli di consistenza pastosa, utile per formare guarnizioni fra superfici flangiate rigide con elevata tolleranza di accoppiamento. Ha un'elevata resistenza al calore, resiste a vibrazioni, sbalzi termici, aria compressa, acqua, gas, GPL, oli, carburanti e diversi agenti chimici.

**Applicazioni:** SIGILLANTE 2210 viene impiegato principalmente per la sigillatura di scato+le di ingranaggi, cambi, differenziali, flange di pompe e di motori. Gli accoppiamenti sigillati possono poi essere smontati con normali utensili manuali.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH2210130400050 | 50 ml | 1 | **22,12** |
| CH2210130400250 | 250 ml | 1 | **100,90** |

## Sigillante 2242 per filetti precisi fino a 3/8"




### Caratteristiche

SIGILLANTE 2242 è un adesivo e sigillante anaerobico specifico per sigillare giunzioni metalliche filettate. Il basso coefficiente di attrito assicura un agevole montaggio, l'effetto tixotropico impedisce la colatura del sigillante durante l'indurimento. Può sostituire nastri di P.T.F.E. e canapa. Il prodotto indurito forma un film tenace a media resistenza di smontaggio.

**Applicazioni:** SIGILLANTE 2242 viene impiegato principalmente per sigillare gas, GPL, aria compressa, olio e carburanti, fluidi industriali, CFC, acqua potabile e diverse sostanze chimiche. Resiste agli urti, alle vibrazioni e agli sbalzi termici. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C con punte, per breve durata, fino a 230°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH2242130400050 | 50 ml | 1 | **22,87** |
| CH2242130400250 | 250 ml | 1 | **100,90** |

## Sigillante 2272 per filetti poco precisi, lento



### Caratteristiche

SIGILLANTE 2272 è un adesivo sigillante anaerobico a media resistenza meccanica; garantisce una perfetta tenuta stagna, aumenta la solidità strutturale del giunto ed impedisce eventuali allentamenti provocati dalle vibrazioni. Protegge le filettature dalla corrosione e resiste ai fluidi idraulici ed ai gas. Forma un film elastico che garantisce una perfetta tenuta verso gas, aria compressa, acqua, idrocarburi, GPL, oli e molti prodotti chimici, compresi gas refrigeranti; consente nel tempo un facile smontaggio.

**Applicazioni:** SIGILLANTE 2272 viene impiegato principalmente per giunzioni metalliche filettate, in sostituzione di canapa, nastro di P.T.F.E. e guarnizioni. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH2272130400050 | 50 ml | 1 | **22,12** |
| CH2272130400250 | 250 ml | 1 | **104,44** |

## Sigillante 2277 per filetti poco precisi, rapido



### Caratteristiche

SIGILLANTE 2277 è un adesivo anaerobico per sigillare giunzioni metalliche filettate. Il prodotto indurito forma un film elastico sulle superfici trattate. Il basso coefficiente di attrito assicura un agevole montaggio, l'effetto tixotropico impedisce la colatura del sigillante durante l'indurimento. Garantisce, anche dopo anni, la facilità di smontaggio.

**Applicazioni:** SIGILLANTE 2277 è particolarmente indicato per sigillare gas, GPL, aria compressa, olio e carburanti, fluidi industriali, CFC, acqua potabile e diverse sostanze chimiche. Può essere utilizzato in sostituzione a nastri di P.T.F.E. e canapa; resiste agli urti e alle vibrazioni, agli sbalzi termici; mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH2277130400050 | 50 ml | 1 | **22,12** |
| CH2277130400250 | 250 ml | 1 | **104,44** |

## Bloccante fissatore 3303 ad alta resistenza




### Caratteristiche

BLOCCANTE 3303 è un adesivo anaerobico per metalli ad alta resistenza meccanica con elevata tolleranza alla presenza di olio sulle superfici. Utile per fissare, in maniera definitiva, accoppiamenti cilindrici sia nei montaggi a scorrimento libero che sotto pressa. Elimina la tensione all'interno del giunto, proteggendolo da eventuale corrosione di contatto. Possiede un'elevata resistenza alla temperatura, agli sbalzi termici, alle vibrazioni, agli oli e carburanti, ai fluidi frigoriferi ed a diversi agenti chimici.

**Applicazione:** BLOCCANTE 3303 viene impiegato principalmente per il bloccaggio di parti cilindriche non soggette a smontaggio, quali: cuscinetti, pulegge, ingranaggi, spine, chiavette, perni, boccole. Garantisce un bloccaggio permanente e consente di ottenere un carico perfettamente distribuito su tutta la superficie impegnata. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH3303130400050 | 50 ml | 1 | **20,72** |
| CH3303130400250 | 250 ml | 1 | **94,10** |

## Bloccante fissatore 3338 ad alta resistenza, rapido




### Caratteristiche

BLOCCANTE 3338 è un adesivo anaerobico per metalli ad elevata resistenza meccanica, indicato per fissare in maniera definitiva accoppiamenti cilindrici sia nei montaggi a scorrimento libero che sotto pressa. E' un prodotto a media viscosità, con elevata resistenza agli sbalzi termici, alle vibrazioni, ad acqua, oli, carburanti, fluidi idraulici, gas e vapori. Elimina la tensione all'interno del giunto, proteggendolo da eventuale corrosione di contatto.

**Applicazioni:** BLOCCANTE 3338 viene impiegato principalmente per il bloccaggio permanente di parti cilindriche non soggette a smontaggio, quali: cuscinetti, pulegge, ingranaggi, spine, chiavette, perni, boccole; particolarmente adatto per leghe metalliche non ferrose. Consente di ottenere un carico perfettamente distribuito su tutta la superficie impegnata. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH3338130400050 | 50 ml | 1 | **20,72** |
| CH3338130400250 | 250 ml | 1 | **94,10** |

## Bloccante fissatore 3341 a media resistenza, per cuscinetti




### Caratteristiche

BLOCCANTE 3341 è un adesivo anaerobico per metalli a media resistenza meccanica, per il fissaggio di cuscinetti, boccole e accoppiamenti cilindrici che prevedono un eventuale smontaggio con normali utensili. L'effetto tixotropico impedisce la colatura del sigillante durante l'indurimento; previene la corrosione di contatto e migliora l'affidabilità di montaggi a scorrimento o ad interferenza. Possiede un'elevata resistenza alla temperatura, agli sbalzi termici, alle vibrazioni, agli oli e carburanti, ai fluidi frigoriferi ed a diversi agenti chimici.

**Applicazioni:** BLOCCANTE 3341 è particolarmente indicato per il fissaggio di cuscinetti, boccole, chiavette, paraolio, bronzine ed altre parti cilindriche soggette ad eventuale smontaggio. Può essere impiegato sia in accoppiamenti liberi che forzati. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +150°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH3341130400050 | 50 ml | 1 | **20,72** |
| CH3341130400250 | 250 ml | 1 | **94,10** |

## Bloccante fissatore 3348 rapido, per alte temperature




### Caratteristiche

BLOCCANTE 3348 è un adesivo anaerobico per metalli a rapida polimerizzazione ed elevata resistenza meccanica, per sigillare e bloccare giunzioni filettate ed accoppiamenti cilindrici. Dotato di alta resistenza al calore, agli sbalzi termici, alle vibrazioni, agli agenti chimici ed all'invecchiamento. Prodotto a media viscosità che permette di bloccare parti a libero scorrimento, in alternativa a quello ad interferenza; nel montaggio ad interferenza, aumenta di circa 4 volte la resistenza del giunto. Elimina la tensione all'interno del giunto, proteggendolo da eventuale corrosione di contatto.

**Applicazioni:** BLOCCANTE 3348 è indicato principalmente per il bloccaggio e la sigillatura, ad altissima resistenza meccanica, di parti cilindriche coassiali sottoposte ad alte temperature. Consente di ottenere un carico perfettamente distribuito su tutta la superficie impegnata. Mantiene le proprietà sigillanti nel campo di temperatura da -55 a +200°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH3348130400050 | 50 ml | 1 | **20,72** |
| CH3348130400250 | 250 ml | 1 | **94,10** |

## Adesivo 8800 cianoacrilato universale




### Caratteristiche

ADESIVO 8800 è un adesivo cianoacrilato intensivo monocomponente con una velocità di polimerizzazione estremamente rapida; caratterizzato da un'elevata capacità di flusso e buona penetrazione. Multiuso, a media viscosità. È formulato specificatamente per l'incollaggio di superfici difficili con un'elevata forza industriale.

**Applicazioni:** ADESIVO 8800 trova applicazione nell'incollaggio di molteplici materiali, quali acciaio, acciaio inox, gomma, pelle, policarbonato, vetro, poliammide, metalli placcati, plastica, alluminio, zinco dicromato, ABS, PVC, carta, legno, polisolfone, rame.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8800130400020 | 20 gr | 1 | **10,05** |

## Adesivo 8801 istantaneo, universale per tutti i tipi di materiale




### Caratteristiche

ADESIVO 8801 è un adesivo cianoacrilato per il fissaggio istantaneo e strutturale di gomma, metalli, ceramica, cuoio, legno, materie plastiche, ecc. Adesivo a media viscosità, incolore, di grande resa. Incolla in pochi secondi, formando una giunzione invisibile; incolla materiali dello stesso tipo o combinazioni di diversi materiali. Indurisce a temperatura ambiente per effetto dell'umidità dell'aria.

**Applicazioni:** ADESIVO 8801 è indicato per incollare tutti i tipi di materiali, quali: metalli, gomma, materie plastiche, ceramica, porcellana, vetro, cuoio, con superfici di contatto precise. Trova applicazione in svariati settori: meccanica, elettronica, ottica, orologeria, bigiotteria, macchine per ufficio, ecc. Mantiene le proprietà sigillanti nel campo di temperatura compreso tra -50 e +80°C.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8801130400020 | 20 gr | 1 | **9,39** |
| CH8801130400500 | 500 gr | 1 | **136,45** |

## Adesivo 8860 cianoacrilato, inodore, a bassa viscosità




### Caratteristiche

ADESIVO 8860 è un adesivo monocomponente, cianoacrilato, a bassa viscosità, incolore, di grande resa. Istantaneo, incolla in pochi secondi formando una giunzione invisibile; indurisce a temperatura ambiente per effetto dell'umidità dell'aria.

**Applicazioni:** ADESIVO 8860 è particolarmente indicato per l'incollaggio di gomma e plastica di vario tipo con superifici precise; incolla caucciù, gomma nitrilica, etilene propilene e, in generale, tutti i tipi di gomma naturale e sintetica.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8860130400020 | 20 gr | 1 | **27,36** |
| CH8860130400500 | 500 gr | 1 | **404,75** |

## Adesivo 8806 istantaneo, specifico per gomma e plastica




### Caratteristiche

ADESIVO 8806 è un adesivo istantaneo a base metile-cianoacrilato ad alta resistenza e viscosità per l'assemblaggio di materiali rigidi, gomma-metallo, metallo-plastica. Incolla rapidamente formando una giunzione invisibile, resistente alle vibrazioni. A causa dell'alta viscosità, non penetra attraverso le porosità consentendo un incollaggio tenace. Copre tolleranze relativamente larghe tra superfici. Indurisce a temperatura ambiente per effetto dell'umidità dell'aria.

**Applicazioni:** ADESIVO 8806 è particolarmente indicato per l'incollaggio di materiali assorbenti con superfici di contatto non precise, quali: cuoio, sughero, legno dolce, gomma porosa, ceramica, porcellana, materie plastiche espanse, ecc. Utilizzato anche per superfici verticali e superfici con tolleranze fino a 0,25 mm.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8806130400020 | 20 gr | 1 | **9,39** |
| CH8806130400050 | 500 gr | 1 | **17,67** |

## Adesivo 8854 istantaneo universale, in gel trasparente



### Caratteristiche

ADESIVO 8854 è un adesivo istantaneo in gel trasparente, a base metile-cianoacrilato ad alta resistenza ed elevata viscosità. Indicato per incollare metalli, materiali rigidi, ceramica, materie plastiche su un supporto metallico. La viscosità elevata consente di colmare giochi ampi. Incolla rapidamente, formando una giunzione invisibile, resistente alle vibrazioni; indurisce a temperatura ambiente per effetto dell'umidità dell'aria.

**Applicazioni:** ADESIVO 8854 non cola, è quindi particolarmente indicato per incollare rapidamente superfici verticali e materiali porosi, quali: ceramica, metalli, pietre dure, gomma, legno, plastica (ad eccezione di polietilene, polipropilene, PTFE), tessuti e cartone.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH8854130400020 | 20 gr | 1 | **12,61** |

## Primer 5577




### Caratteristiche

PRIMER 5577 è un primer (promotore di adesione) a base solvente, formulato specificatamente per facilitare l'incollaggio di plastiche difficili con adesivi cianoacrilati.

**Applicazioni:** PRIMER 5577 è ideale per facilitare l'incollaggio di polipropilene, polietilene e termoplastici poliolefini tra di loro o con altri materiali. Aumenta inoltre l'adesione di poliolefini pieni, gomma e molte altre materie plastiche a bassa energia di superficie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH5577104000050 | 50 ml | 1 | **35,72** |

## Attivatore 5555




### Caratteristiche

ATTIVATORE 5555 è un attivatore per adesivi cianoacrilati, monocomponente a base solvente, acceleratore di superficie. La sua funzione è quella di accelerare la polimerizzazione di tutte le tipologie di adesivi cianoacrilati. L'adesivo polimerizza completamente in pochi millesimi di secondo (dopo di che, eventuali ritocchi non sono più possibili).

**Applicazioni:** ATTIVATORE 5555 è ideale per favorire l'incollaggio in ambienti difficili (umidità, aria secca, per es.), per applicazioni di uno spesso strato su materiali porosi o assorbenti, per applicazioni su materiali passivi (alluminio, acciaio inox, oro, argento, metalli galvanizzati, stagno). Raccomandato per l'utilizzo in combinazione con adesivi cianoacrilati ad alta viscosità. Tipici esempi di applicazione sono la messa in sicurezza di cavi e bobine su circuiti stampati, prove di tempra su componenti regolabili, installazione di pannelli di controllo e di lame guida.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH5555104000200 | 200 ml | 1 | **19,28** |

## Filler 5598 (riempitivo)




### Caratteristiche

RIEMPITIVO 5598 è un adesivo riempitivo silicato, a base di micro perle, utilizzato per l'incollaggio unitamente ad adesivi cianoacrilati. Dopo la polimerizzazione, l'adesivo può essere lavorato meccanicamente (operazioni di foratura, taglio, sabbiatura, ecc.) e verniciato.

**Applicazioni:** RIEMPITIVO 5598 è adatto per il rafforzamento di punti stretti su supporti o chiusure ed è ideale per riempire buchi e per colmare crepe (i rilievi posso essere appianati).

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH5598104000080 | 80 gr | 1 | **18,46** |

## Solvente 5512




### Caratteristiche

SOLVENTE 5512 è un solvente studiato appositamente per la rimozione di adesivi cianoacrilati freschi o polimerizzati da superfici resistenti; raccomandato per la pulizia di apparecchi di dosaggio e utensili.

**Applicazioni:** SOLVENTE 5512 è ideale per la rimozione di adesivi cianoacrilati e altri adesivi; può essere utilizzato anche per la rimozione di smalti, resine e grassi. Per l'utilizzo su plastica o su superfici rivestite è consigliabile testare la compatibilità del prodotto prima dell'uso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH5512104000050 | 50 ml | 1 | **25,38** |

## Adesivo metacrilato 606B




### Caratteristiche

ADESIVO METACRILATO 606B è un adesivo strutturale rinforzato bicomponente per l'incollaggio di diverse tipologie di metalli, termoplastici, legno, pietra, ecc. Ideale per l'incollaggio di tutti i tipi di PVC, policarbonato, acrilici, fibre di vetro, poliuretano, ceramica, poliestere, acciaio inox, metalli zincati. Non adatto ai materiali porosi. Ha un'elevata resistenza alle alte temperature, alle vibrazioni, al taglio, all'acqua, vetro, oli, idrocarburi e chimici. Ideale per incollaggi duraturi e per riparazioni ed incollaggi che necessitano di ulteriori lavorazioni. Disponibile nei colori bianco-crema e nero.

**Applicazioni:** ADESIVO METACRILATO 606B trova applicazione nei settori automotive, attrezzature sportive, veicoli commerciali, settore elettrico, manutenzione macchinari ed attrezzature, arredamento. Viene impiegato per la riparazione di fibre di vetro, specchi retrovisori esterni, paraurti, griglie anteriori, lampade, cofani, ecc. nel settore automotive, la riparazione di contenitori e cabine, ripristino di fori e crepe, incollaggio di contenitori in acciaio e acciaio inox.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH606010400025B | Bianco | 25 ml | 1 | **24,43** |

## Adesivo metacrilato 6695 per alte temperature




### Caratteristiche

ADESIVO METACRILATO 6695 è un adesivo strutturale bicomponente, resistente al calore, per l'incollaggio di diverse tipologie di metalli, materiali compositi, acrilici, ecc.. Ha un'elevata resistenza alle alte temperature, alle vibrazioni, all'acqua, vetro, oli, idrocarburi e chimici. Ideale per incollaggi duraturi e per riparazioni ed incollaggi che necessitano di ulteriori lavorazioni.

**Applicazioni:** ADESIVO METACRILATO 6695 trova applicazione principalmente nel settore automotive, industria metallurgica e progettazione stampi, manutenzione macchine, arredamento e settore elettrico. Viene impiegato per la lavorazione di stampi di plastica, l'incollaggio di fogli di metallo; la riparazione di componenti in plastica dura come maniglie, cerniere, specchi, lampade, moduli per tetti; la riparazione contenitori di metallo o di plastica di macchinari agricoli o forestali e l'incollaggio di lastre di vetro su acciaio inox.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH6695104000025 | 25 ml | 1 | **28,92** |

## Adesivo 4480 per acciaio inox




### Caratteristiche

ADESIVO 4480 è un innovativo sigillante per l'incollaggio di tubi e raccordi in acciaio inox tra loro o in combinazione con altri materiali; studiato specificatamente per l'utilizzo su materiali passivi: acciaio inox, alluminio, nickel, oro, metalli cromati. Il prodotto polimerizza in assenza di aria, a contatto con superfici metalliche; ha un tempo di lavorazione breve, non necessita quindi l'applicazione di un attivatore. ADESIVO 4480 possiede un'elevata resistenza al calore, alle vibrazioni, all'acqua, gas, oli, idrocarburi e chimici. Protegge i metalli dall'ossidazione e dalla corrosione; garantisce un eccellente effetto lubrificante.

**Applicazioni:** ADESIVO 4480 viene utilizzato per la sigillatura di raccordi ad innesto e tubi in acciaio inox; sigillatura di tubi e raccordi filettati negli impianti di riscaldamento, acqua e gas; sigillatura addizionale di condutture filettate in marina; sigillatura generica di filetti in acciaio inox o altri metalli esposti ad alta tensione, quali dadi, prigionieri, viti, tubi o filettature di ingranaggi. Trova applicazione nell'industria in generale, industria alimentare, settore ferroviario, artigianato, marina, realizzazione di opere idriche e fognarie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH4480104000050 | 50 ml | 1 | **30,41** |

## PERFECT GRIP incrementatore di aderenza






### Caratteristiche

PERFECT GRIP è una sospensione in fase acquosa di micro diamanti industriali e di polveri di carburo che agevola l'adesione tra le viti (con testa a croce, brugola e torx) e gli utensili consentendone lo smontaggio; permette inoltre di evitare che le punte di foratura e gli utensili in genere girino nei mandrini di serraggio. Evita lo spanamento del pezzo da svitare, non è nocivo per gli utilizzatori e per l'ambiente in quanto privo di solventi, non danneggia il materiale su cui viene applicato.

**Applicazioni:** PERFECT GRIP è raccomandato in tutti i comparti della meccanica ed in tutti i reparti di manutenzione leggera e pesante, nei seguenti settori: autotrazione, movimento terra, trasporti, carrozzerie, cantieristica edile e navale, acciaierie, ferriere, pressofusione, stampaggio metalli a caldo, cartiere, cementifici, laterizi e piastrelle, alimentare ed agricolo, estrattivo e raffinazione, ecc. Particolarmente indicato per i costruttori di stampi e di serramenti in alluminio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH4000130400060 | 60 gr | 1 | **70,28** |

## Guarnizione liqudia anaerobica 4473/74



### Caratteristiche

GUARNIZIONE 4473/74 è una guarnizione sigillante anaerobica che sviluppa una media resistenza in tempi brevi. Il composto polimerizza in assenza di aria a contatto con superfici metalliche. Ttake 4473/74 è una guarnizione sigillante semirigida; incolla giunti con flange e superfici in metallo duro. Garantisce buona resistenza alla bassa pressione immediatamente dopo l'assemblaggio delle flange. La natura tissotropica di Ttake 4473/74 riduce la dispersione del prodotto liquido dopo l'applicazione. Disponibile nei colori verde e arancione.

**Applicazioni:** GUARNIZIONE 4473/74 viene utilizzata generalmente per collegamenti rigidi flangiati, quali ad esempio: tubi di trasmissione e motori, alloggiamenti differenziale ed asse.

| Codice | Colore | Formato | | € / cad. |
|---|---|---|---|---|
| CH4473104000050 | Verde | 50 ml | 1 | **23,53** |
| CH4474104000050 | Arancione | 50 ml | 1 | **23,53** |

## Guarnizione siliconica 4400 per alte temperature



### Caratteristiche

GUARNIZIONE 4400 è un sigillante monocomponente di alta qualità, elastico, a base di silicone. Particolarmente indicato per la sigillatura di raccordi che potrebbero essere sottoposti a temperature estremamente alte (fino a 260°C) o basse. Reagisce in presenza di umidità e vulcanizza in un sigillante elastico permanente. Non ci sono pericoli di corrosione. Privo di solventi, basso ritiro, bassa volatilità, buona aderenza a vetro, ceramica smaltata, cemento, pietra, roccia, zinco, alluminio, acciaio, metalli non ferrosi, legno, plastica, pvc, ecc. Sostituisce qualasiasi guarnizione tagliata, resiste alle rotture e al ritiro; può essere applicato anche su forme pretagliate di sughero. Colore nero.

**Applicazioni:** GUARNIZIONE 4400 è indicata per la creazione di guarnizioni su scatole del cambio, gambe di assi, coperchi ingranaggi, motori, pompe ad acqua e termostati, coperchi di bilancieri e valvole, coppe olio, ecc.. Sigillatura di fanali e alloggiamenti lampade, sigillatura di forni industriali, tubi riscaldamento e aria, sigillature generiche su impianti di riscaldamento.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH4400104000200 | 200 ml | 1 | **39,18** |

## Nastro autoagglomerante



### Caratteristiche

Nastro autoagglomerante flessibile ed elastico, ideale per la riparazione di tubi flessibili, per la giunzione di cavi elettrici (anche nel caso di pompe ad immersione), per l'unione di piante in fase di innesto.

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| CH8901101000025 | 25mmx3mt | nero | 18 | 1 | **9,00** |

## Nastro siliconico autoagglomerante



### Caratteristiche

Nastro siliconico autoagglomerante per la riparazione istantanea di perdite su tubi flessibili e rigidi; garantisce una tenuta ermetica immediata e assicura un isolamento fino a 1000V. Resiste a oli, acidi, solventi, nitrato di potassio, raggi UV e alte temperature (fino a 260°C).

| Codice | Misura | Colore | | € / cad. |
|---|---|---|---|---|
| CH890110100025S | 25mmx3mt | trasparente | 1 | **20,10** |

## STRONG REPAIR nastro riparatore in fibra di vetro



### Caratteristiche

Nastro riparatore in fibra di vetro, resistente alle alte temperature fino a 450°C. STRONG REPAIR è una maglia in fibra di vetro di alta qualità con una resina speciale che, attivandosi con l'acqua, consente la riparazione definitiva e duratura di qualsiasi materiale (legno, plastica, metallo, pvc, ecc.). Resistente all'acqua, all'alta pressione e alla temperatura (da +450°C a -45°C), STRONG REPAIR indurisce rapidamente come il ferro, garantendo delle riparazioni estremamente forti. Il suo utilizzo è molto semplice: dopo avere preventivamente pulito le superfici da trattare, immergere il nastro nell'acqua e avvolgere immediatamente con fermezza le parti.

| Codice | Misura | Colore | | € / cad. |
|---|---|---|---|---|
| CH8901101000520 | 5x200cm | nero | 1 | **35,70** |

## MISCELATORE volumetrico per fluidi lubrorefrigeranti



### Caratteristiche

Il MISCELATORE è uno strumento indispensabile per la preparazione ottimale delle emulsioni lubrorefrigeranti. Viene installato sulla rete idrica e utilizza la pressione dell'acqua come unica forza motrice. Quando azionato, aspira il prodotto concentrato, lo dosa secondo la percentuale desiderata ed, infine, lo mescola con l'acqua motrice. Viene fornito completo di supporto murale e tubo di aspirazione. Portata d'acqua di funzionamento 10 l / h – 3 m3 / h Pressione acqua di funzionamento 0,5 – 6 bar Valore di dosaggio 1 – 10%.

**Applicazioni:** il MISCELATORE viene impiegato in tutti i settori dove si renda necessaria una precisa miscelazione di oli emulsionabili, refrigeranti, distaccanti, detergenti.

| Codice | | € / cad. |
|---|---|---|
| CH5110140700001 | 1 | **2.280,00** |

## RIFRATTOMETRO per il controllo delle emulsioni lubrorefrigeranti



### Caratteristiche

Il RIFRATTOMETRO è uno strumento ottico preciso e di facile utilizzo, che consente il controllo della concentrazione delle emulsioni lubrorefrigeranti. E' sufficiente applicare una goccia di emulsione sull'apposito specchietto e leggere la concentrazione attraverso l'oculare. Viene fornito in custodia antiurto e astuccio in similpelle. Scala di misura 0-32% Brix Precisione ±0,2% Dimensioni 30x40x160 mm.

**Applicazioni:** il RIFRATTOMETRO viene impiegato principalmente nelle industrie e, più specificatamente, nelle officine meccaniche per tenere controllata la concentrazione dei fluidi lubrorefrigeranti impiegati. La corretta percentuale dell'emulsione acqua/ olio consente una maggiore durata degli utensili utilizzati, l'eliminazione della ruggine sulla macchina utensile e sui pezzi, ed un risparmio sul consumo di olio.

| Codice | | € / cad. |
|---|---|---|
| CH5000140600001 | 1 | **238,00** |

# 12 ASSORBENTI INDUSTRIALI



Assorbenti solo olio  1074-1078

Assorbenti universali colore grigio  1079-1082

Assorbenti universali colore giallo  1082-1084

Assorbenti granulari  1084-1087

Kit di emergenza antisversamento  1088-1090

Copritombini e dighe sbarramento  1091-1092

## Fogli assorbenti SOLO OLIO



### Caratteristiche

I fogli, grazie ad una superficie calandrata, si impregnano rapidamente del liquido, favorendo un assorbimento istantaneo e la ritenzione dello stesso. Sono resistenti allo strappo e perdono poche fibre. Il formato dei singoli fogli è di 50 x 40 cm, e ogni confezione permette di assorbire fino a 145 litri.

| Codice | Dimensioni | Capacità assorb. | Spessore | | € / cad. |
|---|---|---|---|---|---|
| ASF10001015040S | 50 x 40 cm | 145 lt/conf. | Singolo | 200 | **194,46** |
| ASF10001015040D | 50 x 40 cm | 145 lt/conf. | Doppio | 100 | **194,46** |

## Rotoli assorbenti SOLO OLIO



### Caratteristiche

Adatti per l'assorbimento di idrocarburi, alcol e solventi in zone estese, questi rotoli sono ideali per l'attività a lato di macchinari con perdite di oli emulsionati, superfici esterne, bacini e corsi d'acqua. Lo spessore singolo è utile per sversamenti di piccola e media entità, quello doppio garantisce la massima assorbenza.

| Codice | Dimensioni | Capacità assorb. | Spessore | | € / cad. |
|---|---|---|---|---|---|
| ASR10001014040D | 40 cm x 40 mt | 116 lt/conf. | Doppio | 1 | **155,25** |
| ASR10001014080S | 40 cm x 80 mt | 116 lt/conf. | Singolo | 1 | **155,25** |
| ASR10001015040D | 50 cm x 40 mt | 145 lt/conf. | Doppio | 1 | **194,46** |
| ASR10001015080S | 50 cm x 80 mt | 145 lt/conf. | Singolo | 1 | **194,46** |
| ASR10001018040D | 80 cm x 40 mt | 232 lt/conf. | Doppio | 1 | **310,50** |
| ASR10001018080S | 80 cm x 80 mt | 232 lt/conf. | Singolo | 1 | **310,50** |
| ASR10001011040D | 100 cm x 40 mt | 290 lt/conf. | Doppio | 1 | **387,66** |
| ASR10001011080S | 100 cm x 80 mt | 290 lt/conf. | Singolo | 1 | **387,66** |

## Fogli assorbenti SOLO OLIO Fine Fiber



### Caratteristiche

Fogli con saldatura ad ultrasuoni, composti da due strati esterni di polipropilene (fine fiber) ed uno interno di tessuto assorbente (melt blown). La speciale composizione impedisce la perdita di fibre conferendo resistenza all'abrasione, allo strappo e alla pressione anche a completo assorbimento. Sono pre-tagliati per minimizzare gli sprechi.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASF10001015040F | 50 x 40 cm | 121 lt/conf. | 100 | **202,29** |
| ASF10001011080F | 100 x 80 cm | 242 lt/conf. | 50 | **426,57** |

## Rotoli assorbenti SOLO OLIO Fine Fiber, rinforzati e pre-tagliati



### Caratteristiche

Rotoli pre-tagliati con punti leganti termici, costituiti da due strati esterni di propilene (fine fiber) e uno spesso strato interno (350 gr/mq) di tessuto assorbente (melt blown). Gli strati multipli saldati ad ultrasuoni impediscono la perdita di fibre e conferiscono resistenza all'abrasione, i punti leganti termici garantiscono maggiore compattezza una volta raggiunta la saturazione del foglio. Perforati longitudinalmente e trasversalmente. Grammatura 350.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASR10001015040F | 50 cm x 40 mt | 121 lt/conf. | 1 | **202,29** |
| ASR10001010040F | 100 cm x 40 mt | 242 lt/conf. | 1 | **426,57** |

## Fogli assorbenti SOLO OLIO antistatici



### Caratteristiche

Adatti per assorbire sostanze infiammabili, questi fogli dissipano l'energia statica per ridurre la formazione di scintille. Sono costituiti da uno spesso strato (380 gr/mq) di soffice tessuto assorbente (melt blown) trattato con una specifica soluzione che permette di disperdere la carica statica accumulata. Adatti durante il rifornimento del carburante e in tutti i luoghi chiusi o aperti dove siano presenti vapori infiammabili, il loro utilizzo è possibile anche su corsi d'acqua perchè sono idrofobi.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASF100010105040 | 50 x 40 cm | 144 lt/conf. | 100 | **217,68** |
| ASF100010110080 | 100 x 80 cm | 288 lt/conf. | 50 | **434,73** |

## Manicotti assorbenti SOLO OLIO



### Caratteristiche

Costituiti da soffice melt blown, i manicotti contengono e arginano perdite di sostanze inquinanti, evitando contaminazioni all'ambiente circostante lo sversamento e agevolando l'asportazione del prodotto. Vengono posizionati sul perimetro immediatamente esterno alla zona interessata dalla perdita, si possono usare all'aperto e in tutte quelle situazioni in cui è indispensabile trattenere gli oli ma non l'acqua. Possono essere strizzati e riutilizzati se fosse necessario recuperare oli da reimmettere nel ciclo produttivo.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASM100010107860 | Ø 8 x 60 cm | 112 lt/conf. | 32 | **158,40** |
| ASM100010107812 | Ø 8 x 120 cm | 168 lt/conf. | 24 | **230,52** |
| ASM100010107824 | Ø 8 x 240 cm | 168 lt/conf. | 12 | **230,52** |

## Barriere assorbenti SOLO OLIO



### Caratteristiche

Questo prodotto è indispensabile in caso di sversamenti di oli in superfici e corsi d'acqua. Le barriere hanno anelli e moschettoni in acciaio alle estremità per poterle ancorare o collegare facilmente in modo da arginare, contenere e assorbire il materiale. Sono inaffondabili anche quando completamente sature e l'involucro in rete resiste ai raggi ultravioletti.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASB100010101330 | Ø 13 x 300 cm | 210 lt/conf. | 5 | **422,16** |
| ASB100010113500 | Ø 13 x 500 cm | 210 lt/conf. | 3 | **414,03** |
| ASB100010102030 | Ø 20 x 300 cm | 395 lt/conf. | 4 | **531,63** |

## Cuscini assorbenti SOLO OLIO



### Caratteristiche

Prodotto adatto per assorbire perdite e stillicidi da condutture e macchinari, composto da un involucro in polipropilene contenente materiale assorbente. Per ripetute applicazioni, resistente agli strappi, assorbe grandi quantità di liquidi provenienti da rubinetti, macchinari e tubature con estrema semplicità. Adatto all'incenerimento con basso contenuto di ceneri.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASC100010102020 | 20 x 20 cm | 79 lt/conf. | 24 | **221,43** |
| ASC100010104020 | 40 x 20 cm | 98 lt/conf. | 16 | **219,57** |
| ASC100010104040 | 40 x 40 cm | 104 lt/conf. | 10 | **196,35** |

## Fibra oleoassorbente SOLO OLIO



### Caratteristiche

Assorbe oli in luoghi di difficile accesso quali fessure e angoli. Utilizzabile per velocizzare l'asportazione di liquidi già arginati con barriere.

| Codice | Peso | Capacità assorbimento | Volume per confezione | | € / cad. |
|---|---|---|---|---|---|
| ASO100010100008 | 8 Kg | 196 lt/conf. | 290 lt | 1 | **321,48** |
| ASO100010100025 | 25 Kg | 612 lt/conf. | 900 lt | 1 | **966,03** |

## Boe assorbenti SOLO OLIO



### Caratteristiche

Le boe rimuovono in maniera facile e rapida idrocarburi e derivati dell'acqua all'interno di pozzetti, serbatoi o fosse. Sono inaffondabili anche quando completamente sature, dotate di una corda per tutta la lunghezza che ne aumenta la robustezza.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASB100010101350 | Ø 13 x 50 cm | 105 lt/conf. | 15 | **247,77** |
| ASB100010102050 | Ø 20 x 50 cm | 155 lt/conf. | 10 | **252,48** |

## Fogli assorbenti universali colore GRIGIO



### Caratteristiche

I fogli, grazie ad una superficie calandrata, si impregnano rapidamente del liquido, favorendo un assorbimento istantaneo e la ritenzione dello stesso. Sono resistenti allo strappo e perdono poche fibre. Offrono una risposta rapida, economica ed efficace agli operatori del settore industriale rispetto al mantenimento e alla pulizia delle aree d'impiego. Adatti per una pulizia generale o gocciolamenti sui banchi di lavoro.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASF200020105040 | 50 x 40 cm | 105 lt/conf. | 100 | **202,29** |
| ASF200020110080 | 100 x 80 cm | 210 lt/conf. | 50 | **403,05** |

## Rotoli assorbenti universali colore GRIGIO



### Caratteristiche

Adatti per superfici estese o catene di montaggio, i rotoli offrono una risposta rapida per contenere sversamenti di liquidi. Assorbono e trattengono il liquido; la loro superficie calandrata si impregna rapidamente e conferisce resistenza allo strappo e poca perdita di fibre.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASR200020104040 | 40 cm x 40 mt | 84 lt/conf. | 1 | **161,52** |
| ASR200020105040 | 50 cm x 40 mt | 105 lt/conf. | 1 | **202,29** |
| ASR200020108040 | 80 cm x 40 mt | 168 lt/conf. | 1 | **323,07** |
| ASR200020110040 | 100 cm x 40 mt | 210 lt/conf. | 1 | **403,35** |

## Fogli assorbenti universali colore GRIGIO Fine Fiber, rinforzati e pre-tagliati



### Caratteristiche

Fogli con saldatura ad ultrasuoni, composti da due strati esterni di polipropilene (fine fiber) ed uno interno di spesso tessuto assorbente (melt blown). L'innovativa tecnologia di soffiaggio a caldo permette la fusione e la filatura del polipropilene, e questa speciale composizione impedisce la perdita di fibre conferendo resistenza allo strappo e alla pressione anche a completo assorbimento. I fogli pre-tagliati minimizzano gli sprechi e sono ideali per il trattamento rapido di perdite da macchinari.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASF20002015040F | 50 x 40 cm | 121 lt/conf. | 100 | **210,15** |
| ASF20002010080F | 100 x 80 cm | 242 lt/conf. | 50 | **473,61** |

## Rotoli assorbenti universali colore GRIGIO Fine Fiber



### Caratteristiche

Composti da fogli con saldatura ad ultrasuoni, che unisce due strati esterni di polipropilene (fine fiber) ed uno interno di spesso tessuto assorbente (melt blown). L'innovativa tecnologia di soffiaggio a caldo permette la fusione e la filatura del polipropilene, e questa speciale composizione impedisce la perdita di fibre conferendo resistenza allo strappo e alla pressione anche a completo assorbimento. Questi rotoli sono adatti ad un trattamento rapido su superfici estese.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASR20002015040F | 50 cm x 40 mt | 121 lt/conf. | 1 | **211,71** |
| ASR20002010040F | 100 cm x 40 mt | 242 lt/conf. | 1 | **473,61** |

## Manicotti assorbenti universali colore GRIGIO



### Caratteristiche

Adatti per situazioni di emergenza in cui si rendesse necessario il contenimento, l'arginamento e l'assorbimento di liquidi potenzialmente inquinanti, i manicotti, costituiti in melt blown, limitano la diffusione alle zone circostanti di oli e inquinanti, rendendo più rapida l'asportazione del prodotto.

**MODALITÀ D'USO:** per un utilizzo ottimale in caso di grossi sversamenti, si consiglia di collocare gli sbarramenti in serie di due o tre a seconda della quantità di liquido da contenere, ad una distanza di 10/15 cm l'uno dall'altro per creare una "camera di calma" dove l'olio si possa soffermare ed essere assorbito eventualmente da altri prodotti in granuli o fogli assorbenti.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASM200020100860 | Ø 8 x 60 cm | 96 lt/conf. | 32 | **158,40** |
| ASM200020100812 | Ø 8 x 120 cm | 144 lt/conf. | 24 | **230,52** |
| ASM200020100824 | Ø 8 x 240 cm | 144 lt/conf. | 12 | **230,52** |

## Barriere assorbenti universali colore GRIGIO



### Caratteristiche

Adatte per situazioni di emergenza in cui si rendesse necessario il contenimento, l'arginamento e l'assorbimento di liquidi potenzialmente inquinanti. Le barriere, riempite da miscela granulare altamente assorbente che le rende pesanti, non si spostano con la forza del flusso dell'inquinante, costituendo vere e proprie dighe.

**MODALITÀ D'USO:** per un utilizzo ottimale in caso di grossi sversamenti, si consiglia di collocare gli sbarramenti in serie di due o tre a seconda della quantità di liquido da contenere, ad una distanza di 10/15 cm l'uno dall'altro per creare una "camera di calma" dove l'olio si possa soffermare ed essere assorbito eventualmente da altri prodotti in granuli o fogli assorbenti.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASB200020100860 | Ø 8 x 60 cm | 40 lt/conf. | 24 | **186,93** |
| ASB200020100812 | Ø 8 x 120 cm | 40 lt/conf. | 12 | **208,59** |
| ASB200020100824 | Ø 8 x 240 cm | 40 lt/conf. | 6 | **208,59** |

## Cuscini assorbenti universali colore GRIGIO



### Caratteristiche

Il materiale assorbente confezionato in cuscini, rende questo prodotto ideale per assorbire grandi quantità di liquidi con semplicità. L'involucro di polipropilene conferisce robustezza e resistenza agli strappi, permettendo ripetute applicazioni in sicurezza. I cuscini sono disponibili in varie dimensioni per essere posizionati in spazi angusti per arginare perdite da tubature e macchinari. Sono adatti all'incenerimento con basso contenuto di ceneri.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASC200020102020 | 20 x 20 cm | 74 lt/conf. | 24 | **225,84** |
| ASC200020104020 | 40 x 20 cm | 92 lt/conf. | 16 | **224,58** |
| ASC200020104040 | 40 x 40 cm | 98 lt/conf. | 10 | **200,73** |

## Fogli assorbenti universali colore GIALLO



### Caratteristiche

Permettono di assorbire con praticità sostanze acide e alcaline, eseguire pulizie di emergenza su banchi di lavoro o contenere stillicidi e gocciolamenti.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASF300030105040 | 50 x 40 cm | 103 lt/conf. | 100 | **221,13** |

## Rotoli assorbenti universali colore GIALLO



### Caratteristiche

Adatti per assorbire rapidamente grosse quantità di inquinanti su vaste superfici soggette a sversamenti e spruzzi.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASR300030104040 | 40 cm x 40 mt | 83 lt/conf. | 1 | **186,63** |
| ASR300030105040 | 50 cm x 40 mt | 103 lt/conf. | 1 | **233,67** |
| ASR300030108040 | 80 cm x 40 mt | 166 lt/conf. | 1 | **340,32** |
| ASR300030110040 | 100 cm x 40 mt | 206 lt/conf. | 1 | **466,50** |

## Manicotti assorbenti universali colore GIALLO



### Caratteristiche

I manicotti sono vere e proprie barriere in grado di assorbire grandi quantità di liquidi e circoscrivere gli sversamenti. È possibile ancorarli tra loro per poter arginare superfici molto estese, il loro utilizzo è adatto lungo banchi di laboratorio e attorno a contenitori di acidi.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASM300030100860 | Ø 8 x 60 cm | 77 lt/conf. | 32 | **313,65** |
| ASM300030100812 | Ø 8 x 120 cm | 116 lt/conf. | 24 | **451,65** |
| ASM300030100824 | Ø 8 x 240 cm | 116 lt/conf. | 12 | **451,65** |
| ASM300030100830 | Ø 8 x 300 cm | 120 lt/conf. | 10 | **470,49** |
| ASM300030108600 | Ø 8 x 600 cm | 120 lt/conf. | 5 | **470,49** |

## Cuscini assorbenti universali colore GIALLO



### Caratteristiche

Consentono l'assorbimento di elevate quantità di sostanze chimiche in modo veloce e semplice. Contengono stillicidi su piani d'appoggio per travasi e miscelazioni e, grazie all'involucro in polipropilene, resistono a strappi e uso intenso.

| Codice | Dimensioni | Capacità assorbimento | | € / cad. |
|---|---|---|---|---|
| ASC300030102020 | 20 x 20 cm | 67 lt/conf. | 24 | **230,85** |
| ASC300030104020 | 40 x 20 cm | 84 lt/conf. | 16 | **228,96** |
| ASC300030104040 | 40 x 40 cm | 89 lt/conf. | 10 | **205,44** |

## ASS-OIL assorbente antisdrucciolo, sepiolite




### Caratteristiche

Prodotto non polveroso appositamente formulato per assorbire ed adsorbire rapidamente, e con la massima sicurezza per gli operatori, sostanze chimiche allo stato liquido (oli, derivati petroliferi, inchiostri), umidità e odori sgradevoli. Non è espolosivo né comburente, ed è insolubile. ASS-OIL non richiede precauzioni per l'utilizzo, la manipolazione e lo stoccaggio.

**Applicazioni:** ASS-OIL è indispensabile nelle aree di lavoro in cui fuoriuscite di liquidi possono provocare incidenti, fermentazioni, pericoli e odori sgradevoli. Trova impiego come assorbente industriale e agente anti-umido nei magazzini. È consigliabile in tutti quei settori in cui non deve essere presente polvere, nelle cucine e nelle aree di ristorazione.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9620070100020 | 20 Kg | 1 | **33,33** |

## IPERASS-OIL Assorbente in polvere ad alta efficienza, per oli



### Caratteristiche

IPERASS-OIL è una miscela inorganica e inerte di minerali silicei in grado di assorbire ogni tipo di liquido (animale, vegetale, minerale, chimico e petrolifero) e semi-liquido. Ha una capacità di assorbimento superiore di 15-20 volte quella dei prodotti a base di argilla.
IPERASS-OIL non è tossico, non è infiammabile, non è dannoso per l'ambiente e per gli essere umani. Non contiene sostanze chimiche reattive ed è ecologicamente sicuro perchè inerte.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9600070100012 | 12 kg | 1 | **137,10** |

## ASS-UNI assorbente granulare universale



### Caratteristiche

Prodotto ideale per l'assorbimento di oli, grassi, idrocarburi e prodotti chimici presenti sul suolo degli ambienti di lavoro e sulle pavimentazioni stradali. ASS-UNI è ecologico, a base di componenti naturali, privo di sostanze tossiche e non infiammabile. Possiede una struttura multicellulare a celle aperte che conferisce un enorme potere assorbente tramite un'azione capillare e una rapida messa in sicurezza della pavimentazione contaminata, che viene resa pulita e asciutta. ASS-UNI è antisdrucciolo e al passaggio degli automezzi si frantuma in micro particelle senza creare l'"effetto ghiaia" tipico di altri prodotti assorbenti in granuli. Non rilascia nel tempo la sostanza assorbita, non lascia residui unti o scivolosi sul pavimento e il suo utilizzo in modo ripetuto elimina anche vecchi aloni e tracce di unto. La colorazione bianco latte permette un'immediata individuazione del prodotto al momento dell'impiego. Dopo l'uso acquisisce un colore più scuro che si confonde con l'ambiente circostante. È confezionato in pratici e maneggevoli sacchi poco ingombranti con manico, adatti per essere spostati senza sforzo. ASS-UNI è disponibile in due diverse granulometrie (0,80 – 2,00 mm ; 2,00 – 4,80 mm), a seconda del luogo di impiego e dei tempi di intervento.

**Applicazioni:** Prodotto ideale per sversamenti di piccola e media rilevanza, permette di continuare le attività svolte senza interrompere il ciclo produttivo. Grazie alla sua ininfiammabilità ASS-UNI può essere usato come mezzo di spegnimento per gli incendi. Il suo utilizzo è adatto anche in condizioni di pioggia o giornate molto umide, poiché non si altera a contatto con l'acqua. Per un utilizzo corretto, cospargere la superficie da trattare con ASS-UNI e spazzolare con scope o pale il prodotto una volta impregnato del liquido. Seguire con una successiva applicazione in caso di sversamenti più grandi. Non è scivoloso quindi può essere anche calpestato. ASS-UNI è indispensabile per la pulizia di manti stradali, parcheggi, piazzali, aree di servizio e per il trattamento rapido in raffinerie, industrie, aeroporti e offcine.

| Codice | Formato | Dimensioni granuli | | € / cad. |
|---|---|---|---|---|
| CH9600070900045 | 4,5 kg | 2,00 - 4,80 mm | 1 | **14,22** |
| CH9600070900007 | 7 kg | 0,80 - 2,00 mm | 1 | **21,42** |

## ASS-ACID PLUS Neutralizzatore ed assorbente per acido solforico




### Caratteristiche

ASS-ACID PLUS permette il rapido e completo assorbimento e la neutralizzazione di sostanze acide. Le prestazioni di assorbimento e neutralizzazione dell'acido solforico sono rigorosamente certificate da un ente autorizzato, in ottemperanza al D.M. n°20/2011 del Ministero dell'Ambiente che stabilisce in modo preciso la tipologia e la quantità di materiale assorbente e neutralizzante da stoccare in tutti i locali in cui si impiegano batterie di accumulatori al piombo.

La miscela dei componenti di ASS-ACID PLUS è stata appositamente creata per risolvere e contenere rapidamente ed in modo sicuro gli sversamenti accidentali di sostanze acide, evitando al contempo la formazione di rifiuti speciali pericolosi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH960007020010P | 10 kg | 1 | **50,46** |

## RECYCLE UNIT riciclatore di assorbente universale




### Caratteristiche

RECYCLE UNIT è un riciclatore di assorbente mobile in polietilene ad alta densità (PEHD), utilizzabile in caso di problemi di sversamento, dotato di setaccio, pala, scopa e contenitore per la raccolta dell'assorbente riutilizzabile (non impregnato). RECYCLE UNIT permette di separare l'assorbente sporco dall'assorbente riutilizzabile. Funziona unicamente con le ricariche di assorbente COTTON POWDER, permettendo un assorbimento istantaneo. Ha una capacità di 50 lt. max (2 ricariche). L'assorbente universale COTTON POWDER è naturale, a base di fibre di cotone. Assorbe 8 volte di più rispetto agli assorbenti tradizionali, non lascia alcun residuo di grasso, garantisce un assorbimento istantaneo ed è riutilizzabile fino a completa saturazione; quando satura, la polvere forma dei grumi. COTTON POWDER non rilascia il prodotto assorbito, non è abrasivo, non contiene silice ed è biodegradabile.

**Applicazioni:** RECYCLE UNIT trova impiego in molteplici campi: automotive, manutenzione industriale, officine meccaniche, lavori pubblici, lavorazione metalli, stazioni di servizio, trasporti, ecc. COTTON POWDER è infatti efficace su qualsiasi tipo di superficie: cemento, resina, asfalto, vernice, smalto, ecc. In caso di sversamento, spargere la polvere assorbente sulla zona interessata ed attendere il completo assorbimento. Raccogliere poi il prodotto con la pala e versarlo nel setaccio, scuotendolo; l'assorbente saturo rimarrà nel setaccio, mentre il prodotto non impregnato ricadrà in fondo al bidone e potrà essere riutilizzato.











| Codice | Formato | | € / cad. |
|---|---|---|---|
| IM0000300200050* | L 570 x l 689 x H 1090 mm | 1 | **1032,00** |
| IM0000300200025S<br>Cotton Powder | 25 lt | 1 | **117,45** |

* assorbente non incluso

## Kit di emergenza antisversamento SOLO OLIO



### Caratteristiche

Kit di emergenza antisversamento SOLO OLIO; assortimenti diversi.

| Codice | Dimensioni | Capacità assorb. | Confezione | Contenuto | | € / cad. |
|---|---|---|---|---|---|---|
| ASK400040100001 | 32 x 42 x 10 cm | 15 lt | Contenitore in plastica per piccoli sversamenti | 3 fogli in fibra 100x80cm pre-tagliati, 1 sacco per scarti, 1 paio guanti | 1 | **40,14** |
| ASK400040100002 | 50 x 20 x 18 cm | 15 lt | Contenitore in plastica compatto economico per assorbimento e pulizia | 6 fogli in fibra 50x40cm, oleoassorbente granuli 2,5kg,1 paletta e scopino, 1 sacco per scarti, 1 paio guanti, 1 mascherina | 1 | **51,45** |
| ASK400040100003 | 50 x 60 x 10 cm | 30 lt | Contenitore in plastica con chiusura ad occhielli per essere appeso | 15 fogli standard 50x40cm, 3 manicotti Ø8x120cm, 1 sacco per scarti, 1 paio guanti | 1 | **74,64** |
| ASK400040100004 | 60 x 40 x 32 cm | 75 lt | Contenitore sovrapponibile in polietilene, ruote a richiesta | 30 fogli standard 50x40cm, 6 manicotti Ø8x120cm, 6 manicotti Ø8x60cm, 3 sacchi per scarti, 1 paio guanti, 1 mascherina | 1 | **296,40** |
| ASK400040100005 | 55 x 48 x 95 cm | 110 lt | Contenitore su ruote per medi sversamenti | 25 fogli standard 50x40cm, 3 cuscini 40x40cm, 3 cuscini 20x20cm, 3 manicotti Ø8x120cm, 3 manicotti Ø8x240cm, 6 sacchi per scarti, 2 paia guanti, 2 mascherine | 1 | **434,40** |
| ASK400040100006 | 75 x 58 x 106 cm | 220 lt | Contenitore su ruote per medio-grandi sversamenti | 50 fogli standard 50x40cm, 6 cuscini 40x40cm, 6 cuscini 20x20cm, 6 manicotti Ø8x120cm, 6 manicotti Ø8x240cm, 6 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **729,00** |
| ASK400040100007 | 100 x 70 x 80 cm | 380 lt | Contenitore "grancassa" con ruote per sversamenti molto estesi | 100 fogli standard 50x40cm, 1 rotolo standard 50cm x 80mt, 1 sacco oleoassorbente in fibra, 4 cuscini 40x40cm, 6 cuscini 40x20cm, 6 manicotti Ø8x120cm, 5 manicotti Ø8x240cm, 8 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **1596,48** |

## Kit di emergenza antisversamento UNIVERSALI



### Caratteristiche

Kit di emergenza antisversamento UNIVERSALI; assortimenti diversi.

| Codice | Dimensioni | Capacità assorb. | Confezione | Contenuto | | € / cad. |
|---|---|---|---|---|---|---|
| ASK410040100001 | 32 x 42 x 10 cm | 15 lt | Contenitore in plastica compatto per piccoli sversamenti | 3 fogli grigi in fibra 100x80cm pre-tagliati, 1 sacco per scarti, 1 paio guanti | 1 | **51,45** |
| ASK410040100002 | 50 x 60 x 10 cm | 33 lt | Contenitore in plastica con chiusura ad occhielli per essere appeso | 15 fogli grigi 50x40cm, 3 manicotti Ø8x120cm, 1 sacco per scarti, 1 paio guanti | 1 | **89,70** |
| ASK410040100003 | 60 x 40 x 32 cm | 65 lt | Contenitore sovrapponibile in polietilene, ruote a richiesta | 30 fogli grigi 50x40cm, 3 manicotti Ø8x120cm, 3 manicotti Ø8x60cm, 1 sacco oleoassorbente in granuli, 3 sacchi per scarti, 1 paio guanti, 1 mascherina | 1 | **293,25** |
| ASK410040100004 | 55 x 48 x 95 cm | 110 lt | Contenitore su ruote per medi sversamenti | 25 fogli grigi 50x40cm, 1 sacco oleoassorbente in granuli, 2 cuscini 40x40cm, 2 cuscini 20x20cm, 3 manicotti Ø8x120cm, 3 manicotti Ø8x240cm, 6 sacchi per scarti, 2 paia guanti, 2 mascherine | 1 | **462,96** |
| ASK410040100005 | 75 x 58 x 106 cm | 220 lt | Contenitore su ruote per medio-grandi sversamenti | 50 fogli grigi 50x40cm, 2 sacchi oleoassorbente in granuli, 4 cuscini 40x40cm, 4 cuscini 20x20cm, 5 manicotti Ø8x120cm, 5 manicotti Ø8x240cm, 6 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **771,57** |
| ASK410040100006 | 100 x 70 x 80 cm | 390 lt | Contenitore “grancassa” con ruote per sversamenti molto estesi | 100 fogli grigi 50x40cm, 1 rotolo 50cm x 40mt, 3 sacchi oleoassorbente in granuli, 3 cuscini 40x40cm, 5 cuscini 40x20cm, 6 manicotti Ø8x120cm, 5 manicotti Ø8x240cm, 8 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **1762,71** |

## Kit di emergenza antisversamento per prodotti CHIMICI



### Caratteristiche

Kit di emergenza antisversamento per prodotti CHIMICI; assortimenti diversi.

| Codice | Dimensioni | Capacità assorb. | Confezione | Contenuto | | € / cad. |
|---|---|---|---|---|---|---|
| ASK420040100001 | 32 x 42 x 10 cm | 15 lt | Contenitore in plastica compatto per piccoli sversamenti | 12 fogli gialli 50x40cm, 1 sacco per scarti, 1 paio guanti | 1 | **49,56** |
| ASK420040100002 | 50 x 60 x 10 cm | 33 lt | Contenitore in plastica con chiusura ad occhielli per essere appeso | 15 fogli gialli 50x40cm, 3 manicotti Ø8x120cm, 1 sacco per scarti, 1 paio guanti | 1 | **127,02** |
| ASK420040100003 | 60 x 40 x 32 cm | 75 lt | Contenitore sovrapponibile in polietilene, ruote a richiesta | 25 fogli gialli 50x40cm, 6 manicotti Ø8x120cm, 6 manicotti Ø8x60cm, 3 sacchi per scarti, 1 paio guanti, 1 mascherina | 1 | **419,67** |
| ASK420040100004 | 55 x 48 x 95 cm | 108 lt | Contenitore su ruote per medi sversamenti | 25 fogli gialli 50x40cm, 3 cuscini 40x40cm, 3 cuscini 20x20cm, 3 manicotti Ø8x120cm, 3 manicotti Ø8x240cm, 6 sacchi per scarti, 2 paia guanti, 2 mascherine | 1 | **584,97** |
| ASK420040100005 | 75 x 58 x 106 cm | 216 lt | Contenitore su ruote per medio-grandi sversamenti | 50 fogli gialli 50x40cm, 6 cuscini 40x40cm, 6 cuscini 20x20cm, 6 manicotti Ø8x120cm, 6 manicotti Ø8x240cm, 6 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **1050,09** |
| ASK420040100006 | 100 x 70 x 80 cm | 390 lt | Contenitore "grancassa" con ruote per sversamenti molto estesi | 100 fogli gialli 50x40cm, 1 rotolo 50cm x 40mt, 4 cuscini 40x40cm, 6 cuscini 40x20cm, 6 manicotti Ø8x120cm, 6 manicotti Ø8x240cm, 8 sacchi per scarti, 3 paia guanti, 3 mascherine | 1 | **2035,59** |

## Copritombino protettivo in poliuretano



### Caratteristiche

I copritombino protettivi sono adatti sia per tombini che per grate adiacenti a canali di scolo o reti idriche, la specifica composizione resistente ne permette l'adesione anche a pavimentazioni rugose e imperfette. Disponibili in 6 misure a seconda delle dimensioni dei tombini e delle grate da proteggere, per risultati ottimali è necessario scegliere un prodotto di circa 15 cm maggiore dello scarico. Colori disponibili: nero e giallo.

**MODALITÀ D'USO:** Prima fase: - Ripulire l'area interessata da rami, pietre ed eventuali ingombri. - Posizionare il tappeto copritombino sopra la grata o lo scarico che è necessario sigillare. - Per assicurare una chiusura rapida del tombino, se questo non è ancora stato raggiunto dal liquido, è possibile camminarci sopra. Seconda fase: - Lavare il tappeto con acqua tiepida e detergenti non abrasivi, oppure prodotti a base solvente.- Asciugare con un panno. - Arrotolare il tappeto e riporlo in un tubo contenitore, tenendolo riparato dalla luce diretta del sole.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| AST500050100050 | 50 x 50 cm | 1 | **209,52** |
| AST500050100060 | 60 x 60 cm | 1 | **227,40** |
| AST500050100080 | 80 x 80 cm | 1 | **447,27** |
| AST500050100090 | 90 x 90 cm | 1 | **523,80** |
| AST500050100100 | 100 x 100 cm | 1 | **630,45** |
| AST500050100120 | 120 x 120 cm | 1 | **837,45** |

## Diga di sbarramento in poliuretano



### Caratteristiche

Diga in poliuretano flessibile resistente ad acqua, olio e molti agenti chimici; grazie alla sua composizione e flessibilità aderisce a qualunque pavimentazione. Argina gli sversamenti e devia i liquidi impedendone l'immissione negli scarichi; le maniglie di cui è dotata permettono di movimentarla in modo pratico e il profilo ad incastro consente di chiudere perfettamente a cerchio la diga, oppure di collegarne più tra di loro per coprire la superficie interessata.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| ASD500050100300 | 8 x 10 x 300 cm | 1 | **762,18** |

## Tappo troncoconico in poliuretano



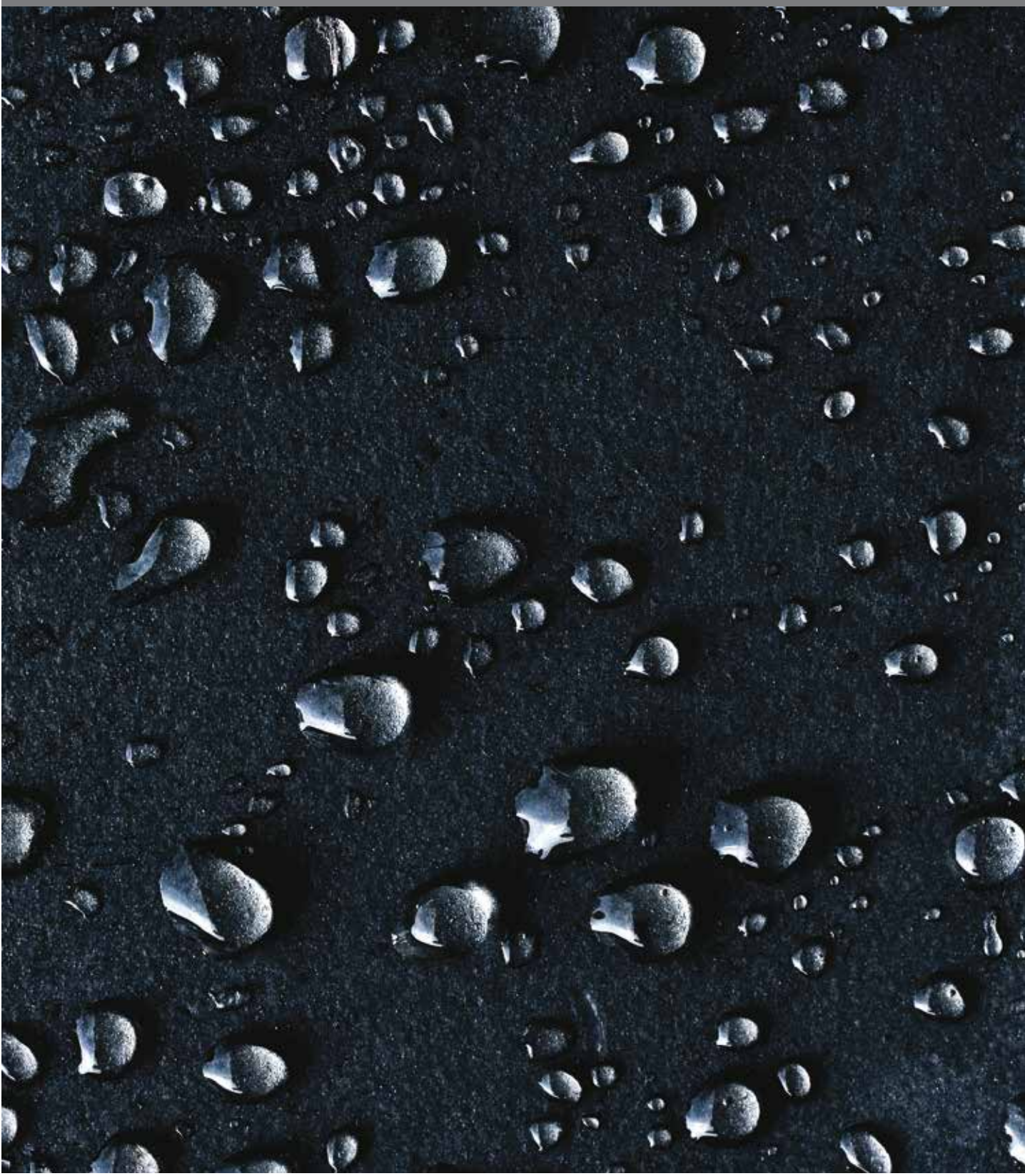
### Caratteristiche

Tappo troncoconico in poliuretano per otturazione falle; colore giallo.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| AST500060135070 | Ø 3,50 x 7 cm | 1 | **141,84** |
| AST500060160092 | Ø 6 x 9,20 cm | 1 | **174,12** |
| AST500060185012 | Ø 8, 50 x 12 cm | 1 | **180,54** |
| AST500060112018 | Ø 12 x 18 cm | 1 | **385,56** |
| AST500060170023 | Ø 17 x 23 cm | 1 | **451,65** |



# 13 CLEANING



| | | |
|---|---|---|
| Macchine per pulizia ed accessori |     | 1096-1115 |
| Detergenza mani |    | 1116-1118 |
| Protezione mani |    | 1119-1122 |
| Detergenza acquosa |    | 1123-1127 |
| Varie |    | 1128-1130 |

## Aspiratore DUSTY 150



### Caratteristiche

Aspirapolvere a sviluppo verticale, silenzioso e maneggevole, dalle ottime prestazioni. Dimensioni ridotte, ma grande capacità (sacchetto carta da 12 l). Ideale per pulizie in aree di piccole e medie dimensioni come hotel, uffici, negozi e ambienti domestici. Ottimo raffreddamento. Dotato di tubo flessibile con pratico innesto a baionetta, impugnatura ergonomica e prolunga rigida in metallo cromato, facilmente riponibile grazie all'aggancio posteriore. Carrello in plastica pratico e leggero, facilmente manovrabile grazie alle 4 ruote pivottanti. Per le superfici in legno (parquet) o per i laminati è consigliato l'accessorio optional kit bocchetta combi (pattino + feltro).
**Accessori in dotazione Ø 32:** tubo flessibile completo 2 m, bocchetta pavimenti polvere D.320, lancia piatta, prolunga rigida chrome (2x0,5m), filtro tela, sacchetto carta, confezione da 5 pz. sacchetti carta aggiuntivi.

| | |
|---|---|
| **Potenza massima** | 1000 W |
| **Potenza nominale** | 800 W |
| **N. motori** | 1 |
| **Capacità serbatoio** | 14 l |
| **Capacità utile** | 12 l |
| **Superficie filtrante** | 0,15 m² |
| **Despressione** | 210 mbar |
| **Portata aria** | 45 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 62 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200D150 | 320x320x520 mm | 6 kg | 1 | **340,00** |

## Aspiratore WETTY 221



### Caratteristiche

Aspiratore solidi-liquidi, a un motore, robusto ed efficiente, dotato di sistema di filtrazione professionale, design curato, sostegni per accessori e cavi.
**Accessori in dotazione Ø 36:** tubo flessibile completo 2,5 m, tubo rigido 0,5 m (2x), bocchetta pavimenti polvere D320, bocchetta liquidi D300, lancia piatta, pennello, bocchetta divani, filtro tela, sacchetto carta. Filtro a cartuccia HEPA opzionale, sacchetto carta opzionale.

| | |
|---|---|
| **Potenza massima** | 1150 W |
| **Potenza nominale** | 1000 W |
| **N. motori** | 1 |
| **Capacità serbatoio** | 22 l |
| **Capacità utile** | 6 l |
| **Superficie filtrante** | 0,19 m² |
| **Despressione** | 190 mbar |
| **Portata aria** | 53 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 62 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200W221 | 410x410x560 mm | 8,8 kg | 1 | **516,00** |

## Aspiratore WETTY 351



### Caratteristiche

Aspiratore solidi-liquidi di medie dimensioni con robusto serbatoio in acciaio inox, dotato di kit antistatico; modello a un motore; sistema di filtrazione professionale, design curato.

**Accessori in dotazione Ø 40:** tubo flessibile completo 2,5 m, tubo rigido a "S", bocchetta pavimenti polvere, bocchetta pavimenti liquidi, pennello, lancia piatta, filtro tela. Filtro a cartuccia HEPA opzionale.

| | |
|---|---|
| **Potenza massima** | 1150 W |
| **Potenza nominale** | 1000 W |
| **N. motori** | 1 |
| **Capacità serbatoio** | 36 l |
| **Capacità utile** | 25 l |
| **Superficie filtrante** | 0,25 m² |
| **Despressione** | 190 mbar |
| **Portata aria** | 53 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 62 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200W351 | 410x410x760 mm | 10,4 kg | 1 | **628,00** |

## Aspiratore WETTY 501



### Caratteristiche

Aspiratore solidi-liquidi carrellato, di buona capienza e grande potenza; dotato di robusto serbatoio in acciaio inox e kit antistatico; modello a un motore; sistema di filtrazione professionale, design curato, sostegni per accessori e cavi.

**Accessori in dotazione Ø 40:** tubo flessibile completo 2,5 m, tubo rigido a "S", bocchetta pavimenti polvere, bocchetta pavimenti liquidi, pennello, lancia piatta, filtro tela.

| | |
|---|---|
| **Potenza massima** | 1350 W |
| **Potenza nominale** | 1200 W |
| **N. motori** | 1 |
| **Capacità serbatoio** | 50 l |
| **Capacità utile** | 35 l |
| **Superficie filtrante** | 0,35 m² |
| **Despressione** | 210 mbar |
| **Portata aria** | 58 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 63 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200W501 | 500x500x840 mm | 14 kg | 1 | **740,00** |

## Aspiratore WETTY 802



### Caratteristiche

Aspiratore polvere-liquidi carrellato, di grande capacità; dotato di robusto serbatoio in acciaio inox; modello a due motori comandabili separatamente; sistema di filtrazione professionale, design curato.

**Accessori in dotazione Ø 40:** tubo flessibile completo 2,5 m, tubo rigido a "S", bocchetta pavimenti polvere, bocchetta pavimenti liquidi, pennello, lancia piatta, filtro tela.

| | |
|---|---|
| **Potenza massima** | 2300 W |
| **Potenza nominale** | 1900 W |
| **N. motori** | 2 |
| **Capacità serbatoio** | 80 l |
| **Capacità utile** | 56 l |
| **Superficie filtrante** | 0,40 m² |
| **Despressione** | 190 mbar |
| **Portata aria** | 100 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 65 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200W802 | 610x520x920 mm | 21,3 kg | 1 | **1.044,00** |

## Aspiratore WETTY 803 B



### Caratteristiche

Aspiratore solidi-liquidi carrellato, di grandi prestazioni; dotato di robusto serbatoio in acciaio inox e kit antistatico; possibilità di usare un singolo motore, due o tre contemporaneamente; involucro con capacità di basculamento e con gancio di bloccaggio; sistema di filtrazione professionale, design curato, sostegni per accessori e cavi.

**Accessori in dotazione Ø 40:** tubo flessibile completo 2,5 m, tubo rigido a "S", bocchetta pavimenti polvere, bocchetta pavimenti liquidi, pennello, lancia piatta, filtro tela.

| | |
|---|---|
| **Potenza massima** | 3450 W |
| **Potenza nominale** | 2900 W |
| **N. motori** | 3 |
| **Capacità serbatoio** | 80 l |
| **Capacità utile** | 56 l |
| **Superficie filtrante** | 0,40 m² |
| **Despressione** | 205 mbar |
| **Portata aria** | 150 l/s |
| **Lunghezza cavo** | 10 m |
| **Livello sonoro** | 66,5 dbA |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010200W803 | 610x520x920 mm | 26 kg | 1 | **1.324,00** |

## Idropulitrice NETTUNO 130/160



### Caratteristiche

Idropulitrice ad acqua fredda, struttura verticale pratica ed ergonomica, costruita interamente in metallo. Dotata di dispositivi "easy-start" e "total-stop"; protezione termica del motore, maniglia supplementare per il sollevamento, avvolgitubo posteriore e pratici alloggiamenti per gli accessori. Per uso domestico.

**Accessori in dotazione standard:** pistola con protezione, lancia senza testina ugello, testina ugello regolabile, lancia schiumogena, kit tubo gomma mandata, testina ugello rotante (solo per NETTUNO160) e idrospazzola fissa (solo per NETTUNO160).

| | Nettuno 130 | Nettuno 160 |
|---|---|---|
| **Tensione** | 230 V | 230 V |
| **Pressione massima** | 130 / 13 bar/Mpa | 130 / 13 bar/Mpa |
| **Giri motore** | 2800 | 2800 |
| **Portata massima** | 360 l/h | 360 l/h |
| **Potenza assorbita** | 1,7 kW | 1,7 kW |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010300130N | 820x328x310 mm | 12 kg | 1 | **616,00** |
| IM000010300160N | 820x328x310 mm | 13 kg | 1 | **740,00** |

## Idropulitrice GIOVE 320



### Caratteristiche

Idropulitrice ad acqua fredda, struttura verticale pratica ed ergonomica ad ingombro ridotto. Dotata di dispositivi "easy-start" e "total-stop"; protezione termica del motore, manometro pressione, dispositivo di aspirazione detergente da tanica esterna regolabile con filtro, serbatoio detergente facilmente removibile, pompa a 3 pistoni assiali e testata in ottone. Monofase. Per uso semiprofessionale gravoso.

**Accessori in dotazione standard:** pistola con protezione, lancia angolata con testina detergente senza ugello, ugello con getto a lama 15° attacco ¼", kit tubo gomma mandata da 8 mt.

| | |
|---|---|
| **Tensione** | 230 V |
| **Pressione massima** | 150 / 15 bar/Mpa |
| **Giri motore** | 2800 |
| **Portata massima** | 600 l/h |
| **Potenza assorbita** | 2,9 kW |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010300320G | 440x420x940 mm | 36 kg | 1 | **1.652,00** |

## Idropulitrice NEREO 165



### Caratteristiche

Idropulitrice ad acqua fredda, struttura verticale pratica ed ergonomica. Dotata di dispositivi «easy start» e «total stop», protezione termica del motore, attacco rapido aspirazione acqua. Elettropompa a tre pistoni assiali, disposta in verticale con pompa in basso e costruzione interamente in metallo, senza materiale plastico. Testata pompa in ottone.

**Accessori in dotazione standard:** pistola con protezione, lancia con ugello regolabile, lancia con ugello rotante, lancia schiumogena, avvolgitubo, kit tubo gomma mandata da 8 mt. e idrospazzola fissa.

| | |
|---|---|
| **Tensione** | 230 V |
| **Pressione massima** | 150 / 15 bar/Mpa |
| **Portata massima** | 480 l/h |
| **Potenza assorbita** | 2,3 kW |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010300150N | 860x280x320mm | 13Kg | 1 | **852,00** |

## Idropulitrice OCEANO 150



### Caratteristiche

Idropulitrice ad acqua calda, con elettropompa a 3 pistoni assiali disposta in orizzontale con pompa in basso, costruita interamente in metallo e testata in ottone. Dotata di dispositivi “easy-start” e “totalstop”; protezione amperometrica del motore, serbatoio gasolio e detergente integrati, manometro pressione, aspirazione acqua diretta con detergente in bassa pressione, termostato per regolazione temperatura, partenza ritardata del bruciatore. Per uso semiprofessionale.

**Accessori in dotazione standard:** pistola con protezione, lancia angolata con testina detergente senza ugello, ugello con getto a lama 15° attacco ¼”, kit tubo gomma mandata da 8 mt.

| | |
|---|---|
| **Tensione** | 230 V |
| **Pressione massima** | 150 / 15 bar/Mpa |
| **Giri motore** | 2800 |
| **Portata massima** | 540 l/h |
| **Potenza assorbita** | 2,7 kW |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM0000103001500 | 890x500x820 mm | 85 kg | 1 | **3.100,00** |

## Idropulitrice PLUVIO 120/200



### Caratteristiche

Idropulitrice ad acqua calda, con motore a 4 poli (1400 giri/min), capacità serbatoio gasolio 18 lt, con galleggiante di livello e filtro di riempimento; aspirazione acqua diretta con filtro aspirazione a cartuccia ispezionabile; aspirazione detergente in bassa pressione (solo modello PLUVIO 120), aspirazione in alta pressione (solo modello PLUVIO 200) con regolazione della quantità da serbatoio interno, possibilità di aspirazione da tanica esterna; vaschetta acqua con dispositivo e serbatoio anticalcare (solo modello PLUVIO 200). Dotata di dispositivi "total-stop" temporizzato e "easy-start" (solo modello PLUVIO 120). Partenza ritardata del bruciatore; valvola di sicurezza professionale; protezione termica della caldaia; termostato di regolazione temperatura; interruttore rotativo per accensione; teleruttore e protezione del motore con controllo amperometrico; Per uso professionale.

**Accessori in dotazione standard:** pistola con protezione, lancia angolata con testina detergente senza ugello, ugello con getto a lama 25° attacco 1/4", kit tubo gomma mandata da 10 mt.

| | Pluvio 120 | Pluvio 200 |
|---|---|---|
| **Tensione** | 230 V | 230 V |
| **Pressione massima** | 120 / 12 bar/Mpa | 120 / 12 bar/Mpa |
| **Giri motore** | 1400 | 1400 |
| **Portata massima** | 660 l/h | 660 l/h |
| **Potenza assorbita** | 3,0 kW | 3,0 kW |
| **HP** | 3,0 | 3,0 |

| Codice | Dimensioni | Peso | | € / cad. |
|---|---|---|---|---|
| IM000010300120P | 95x62x85 mm | 120 kg | 1 | **5.564,00** |
| IM000010300200P | 95x62x85 mm | 125 kg | 1 | **6.712,00** |

## Nebulizzatore con serbatoio carrellato



### Caratteristiche

Nebulizzatore con serbatoio carrellato da 24 lt. Dotato di valvola di massima tarata a 8 bar, per garantire un'assoluta sicurezza; tubo di erogazione a spirale con rubinetto di sicurezza. Lancia terminale in acciaio inox dotata di filtro, ugello a ventaglio 110° e protezione ugello. Disponibile con serbatoio in ferro verniciato o in acciaio inox.

| Codice | Serbatoio | Ricambio | | € / cad. |
|---|---|---|---|---|
| IM0000200100241 | acciaio inox | -- | 1 | **880,00** |
| IM0000200100024 | ferro verniciato | -- | 1 | **384,00** |
| IM00002001024LR | -- | lancia terminale inox 600mm | 1 | **174,00** |
| IM00002001024UR | -- | ugello a ventaglio 110° | 1 | **39,60** |

## Bocchetta liquidi in nylon



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM0000010200W001 | 400 mm | WETTY 351/501/802/803 | 1 | **63,64** |

## Bocchetta pavimenti liquidi



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM0000010200W003 | Ø 36 mm | WETTY 221 | 1 | **48,20** |

## Bocchetta pavimenti polvere



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM0000010200W005 | Ø 36 mm | WETTY 221 | 1 | **40,48** |

## Bocchetta pavimenti polvere



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM0000010200W004 | Ø 32 mm | DUSTY 150 | 1 | **40,48** |

## Bocchetta poltrone



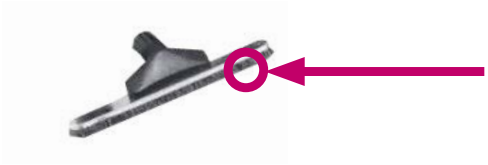
| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM0000010200W006 | Ø 36 mm | WETTY 221 | 1 | **7,12** |

## Spazzola setole polvere



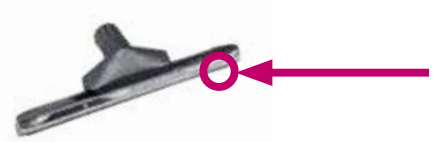
| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W007 | WETTY 351/501/802/803 | 1 | **48,16** |

## Refil setole sagomato



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W008 | WETTY 351/501/802/803 | 1 | **17,40** |

## Listello gomma per bocchetta liquidi



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W002 | WETTY 351/501/802/803 | 1 | **10,60** |

## Lancia piatta



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W009 | Ø 36 mm | WETTY 221 | 1 | **6,56** |

## Lancia piatta



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W010 | Ø 40 mm | WETTY 351/501/802/803 | 1 | **11,44** |

## Pennello



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W011 | Ø 36 mm | WETTY 221 | 1 | **11,64** |

## Pennello



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W012 | Ø 40 mm | WETTY 351/501/802/803 | 1 | **19,96** |

## Impugnatura curva



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W020 | Ø 32 mm | WETTY 150 | 1 | **15,48** |

## Impugnatura curva



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W021 | Ø 36 mm | WETTY 221 | 1 | **19,52** |

## Manicotto a piramide in ABS



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W022 | Ø 40 mm | WETTY 351/501/802 | 1 | **8,92** |

## Manicotto in PVC



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W023 | Ø 40 mm | WETTY 351/501/802/803 | 1 | **10,84** |

## Manicotto innesto



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W024 | DUSTY 150 | 1 | **18,88** |

## Manicotto riduttore



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W025 | Ø 36 mm | WETTY 221 | 1 | **18,88** |

## Filtro in tela completo



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W013 | WETTY 351 | 1 | **40,72** |

## Filtro in tela completo



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W014 | WETTY 221 | 1 | **39,24** |

## Filtro in tela completo



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W015 | WETTY 501 | 1 | **55,80** |

## Filtro in tela completo



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W016 | WETTY 802/803 | 1 | **64,08** |

## Filtro in tela completo



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W017 | DUSTY 150 | 1 | **39,88** |

## Anello filtro con gabbia



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W018 | DUSTY 150 | 1 | **12,96** |

## Ricambio filtro tela



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W019 | DUSTY 150 | 1 | **19,96** |

## Tubo flessibile al metro



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W026 | Ø 33 mm | WETTY 221 | 1 | **39,88** |

## Tubo flessibile al metro



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W027 | Ø 38 mm | WETTY 351/501/802/803 | 1 | **15,92** |

## Tubo flessibile completo



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W028 | Ø 32 mm - 2,5 mt | DUSTY 150 | 1 | **59,40** |

## Tubo flessibile completo



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W029 | Ø 33 mm - 2,5 mt | WETTY 221 | 1 | **79,72** |

## Tubo flessibile completo



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W030 | Ø 40 mm - 2,5 mt | WETTY 351/501/802/803 | 1 | **67,04** |

## Prolunga ad "S"



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W031 | Ø 40 mm | WETTY 351/501/802/803 | 1 | **56,84** |

## Prolunga rigida cromata



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W032 | Ø 31,75 mm - 0,5 mt | DUSTY 150 | 1 | **21,64** |

## Prolunga rigida cromata



| Codice | Dimensioni | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010200W033 | Ø 36 mm - 0,5 mt | WETTY 221 | 1 | **16,12** |

## Interruttore bipolare



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W034 | DUSTY 150 / WETTY 221/351/501 | 1 | **11,24** |

## Interruttore bipolare con protezione



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W036 | WETTY 802 | 1 | **11,24** |

## Interruttore bipolare



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010200W035 | WETTY 803 | 1 | **12,32** |

## Idrospazzola fissa



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300900N | NETTUNO 160 | 1 | **31,40** |

## Idrospazzola rotante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300900G | GIOVE 320 | 1 | **197,40** |

## Idrospazzola rotante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103009000 | OCEANO 150 | 1 | **66,20** |

## Kit tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013P1 | 10 mt | PLUVIO 120 | 1 | **237,28** |

## Kit tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013P2 | 10 mt | PLUVIO 200 | 1 | **364,84** |

## Kit tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013O8 | 8 mt | OCEANO 150 | 1 | **161,16** |

## Kit tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013G8 | 8 mt | GIOVE 320 | 1 | **180,40** |

## Kit tubo mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013N6 | 6 mt | NETTUNO 130 | 1 | **80,96** |

## Kit tubo mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030013N8 | 8 mt | NETTUNO 160 | 1 | **94,32** |

## Kit tubo lancia con ugello rotante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103004000G | GIOVE 320 | 1 | **169,80** |

## Kit tubo lancia con ugello rotante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103004000O | OCEANO 150 | 1 | **196,88** |

## Kit tubo lancia getto regolabile con ugello



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103003000G | GIOVE 320 | 1 | **64,16** |

## Lancia angolata con testina detergente, senza ugello



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103002000G | GIOVE 320 | 1 | **57,68** |

## Lancia angolata con testina detergente, senza ugello



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103002000O | OCEANO 150 / PLUVIO 120/200 | 1 | **79,24** |

## Lancia senza testina ugello



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300200N | NETTUNO 130/160 | 1 | **56,56** |

## Lancia sabbiante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300500G | GIOVE 320 | 1 | **487,36** |

## Lancia sabbiante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300500N | NETTUNO 160 | 1 | **126,88** |

## Lancia sabbiante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300500O | OCEANO 150 | 1 | **249,08** |

## Lancia schiumogena



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300120N | NETTUNO 130/160 | 1 | **31,76** |

## Pistola con protezione



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300100G | GIOVE 320 | 1 | **32,80** |

## Pistola con protezione



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300100N | NETTUNO 130/160 | 1 | **71,12** |

## Pistola con protezione



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300100O | OCEANO 150 | 1 | **87,48** |

## Pistola con protezione



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300100P | PLUVIO 120/200 | 1 | **121,36** |

## Prolunga tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030014G8 | 8 mt | GIOVE 320 | 1 | **197,40** |

## Prolunga tubo gomma mandata



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM00001030014N8 | 8 mt | NETTUNO 130/160 | 1 | **130,92** |

## Sonda spurgatubi



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010300600G | 25 mt | GIOVE 320 | 1 | **407,40** |

## Sonda spurgatubi



| Codice | Lunghezza | Modello | | € / cad. |
|---|---|---|---|---|
| IM000010300600N | 8 mt | NETTUNO 130/160 | 1 | **228,28** |

## Testina ugello regolabile



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM00001030080N3 | NETTUNO 130 | 1 | **22,52** |

## Testina ugello regolabile



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM00001030080N6 | NETTUNO 160 | 1 | **22,52** |

## Testina ugello rotante



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM0000103008N60 | NETTUNO 160 | 1 | **54,64** |

## Tubo lancia lavapavimenti



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300700G | GIOVE 320 | 1 | **444,80** |

## Tubo lancia lavapavimenti



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300700N | NETTUNO 130/160 | 1 | **144,60** |

## Ugello con getto a lama 15° attacco 1/4”



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300110G | OCEANO 150 / GIOVE 320 | 1 | **26,92** |

## Ugello con getto a lama 25° attacco 1/4”



| Codice | Modello | | € / cad. |
|---|---|---|---|
| IM000010300210P | PLUVIO 120/200 | 1 | **26,92** |

## IPER MANI




### Caratteristiche

IPER MANI è stato formulato per l'impiego specifico negli ambienti di lavoro in cui il tipo di sporco, depositato sull'epidermide durante le lavorazioni, risulta particolarmente tenace. IPER MANI è dermocompatibile e risponde alle normative sui prodotti cosmetici.

**Applicazioni:** IPER MANI trova applicazione principalmente nelle officine meccaniche, nelle officine di riparazione auto e nell'industria in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9020020100005 | 5 kg | 1 | **49,48** |
| CH9020020100030 | 30 kg | 1 | **248,48** |

## MANI BAR




### Caratteristiche

MANI BAR protegge le mani, con un guanto invisibile, dal contatto con tutte le sostanze che possono provocare irritazioni, allergie o dermatiti. Può essere anche utilizzata preventivamente, prima di indossare guanti da lavoro, al fine di neutralizzare gli inconvenienti causati dalla sudorazione. MANI BAR resiste a numerosi lavaggi e risponde alle normative sui prodotti cosmetici.

**Applicazioni:** MANI BAR trova applicazione nelle industrie, nelle officine e nei locali pubblici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020100000 | 400 ml | 1 | **10,84** |

## MANI CREAM




### Caratteristiche

MANI CREAM è ideale per detergere le mani da sporco, grasso ed unto, resistenti ai comuni lavamani. Rimuove lo sporco più tenace, lasciando le mani morbide.

**Applicazioni:** MANI CREAM viene utilizzato principalmente nelle officine meccaniche e metalmeccaniche, nelle carpenterie, nel settore agricolo, nel settore dell'autoriparazione e dell'edilizia. L'erogazione tramite dispenser riduce gli sprechi di prodotto e ne garantisce l'igiene, preservando le qualità originarie del prodotto stesso.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9040020100000 | 5 kg | 1 | **46,48** |

## MANI GEL




### Caratteristiche

MANI GEL è una sospensione detergente ad elevata stabilità, con un particolare abrasivo, completamente solubile in acqua e, quindi, asportabile in modo completo dalla pelle. È realizzato con un'opportuna miscela di tensioattivi dermocompatibili. MANI GEL è da considerarsi "non irritante" (disponibile test di irritazione cutanea primaria).

**Applicazioni:** MANI GEL trova specifico impiego nelle officine meccaniche, per operatori che eseguono lavori a contatto con sporchi molto tenaci, quali unti di macchinari e grassi.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9050020100005 | 5 kg | 1 | **65,44** |

## MANI OFFICE




### Caratteristiche

MANI OFFICE è un sapone liquido a pH neutro con tensioattivi dolci emollienti che svolgono un'azione delicata e detergente, lasciando le mani morbide, protette e gradevolmente profumate, rispettando il naturale equilibrio della pelle.

**Applicazioni:** MANI OFFICE trova impiego principalmente in uffici, alberghi e ristoranti, scuole, mense, bar, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9030020100001 | 1 lt | 1 | **6,12** |
| CH9030020100005 | 5 kg | 1 | **27,20** |

## MANI SAN




### Caratteristiche

MANI SAN è un gel formulato specificatamente per rimuovere e tenere lontani germi e batteri presenti sulle mani. Può essere utilizzato frequentemente perché non danneggia il film lipidico delle mani, ma ne protegge l'igiene e funge da barriera. MANI SAN non lascia le mani appiccicose; è idoneo anche per la rimozione di odori sgradevoli dalle mani.

**Applicazioni:** MANI SAN viene utilizzato senza acqua, in ogni situazione in cui ci sia la necessità di igienizzare e pulire le mani. In particolare, MANI SAN trova applicazione in tutti i luoghi di lavoro ed in ambienti di contatto con persone e cose (uffici, mezzi pubblici, magazzini, ristoranti, ecc.) ed in tutti i settori alimentari.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9000020100000 | 200 ml | 1 | **10,08** |
| CH9000020100500 | 500 ml | 1 | **15,00** |

## SCRAT




### Caratteristiche

SCRAT è un detergente in pasta ai gusci di nocciola adatto a tutti i tipi di sporco, particolarmente indicato per rimuovere dalle mani residui di grasso, vernice e macchie di ogni genere. L'effetto abrasivo del prodotto deriva da gusci di nocciola finemente triturati, non contiene silice né solventi, agisce in profondità anche nei punti più difficili.

**Applicazioni:** SCRAT è consigliato in tutti gli ambienti industriali e per uso domestico.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020700001 | 1000 ml | 1 | **4,88** |
| CH9060020700004 | 4000 ml | 1 | **16,56** |

## VULCANO




### Caratteristiche

VULCANO è un detergente in pasta a base di roccia lavica, ad alto potere pulente. Agisce in profondità, proteggendo le pelli delicate ed evitando screpolature. Particolarmente indicato per rimuovere dalle mani lo sporco più tenace (olio, grasso, vernice, ecc.). Non ottura i lavandini perché si scioglie a contatto con l'acqua; non contiene solventi, né silice.

**Applicazioni:** VULCANO è consigliato in tutti gli ambienti industriali.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9060020700010 | 1000 ml | 1 | **6,48** |
| CH9060020700040 | 4000 ml | 1 | **19,23** |

## TNT UMI




### Caratteristiche

TNT UMI sono salviette in TNT (tessuto non tessuto) con un lato abrasivo, impregnate di una soluzione detergente molto efficace che elimina dalle mani e dalle superfici anche lo sporco più difficile.

**Applicazioni:** TNT UMI senz'acqua, rapidamente e senza dover ricorrere a sostanze abrasive, rimuove dalle mani e dalle superfici numerosi tipi di contaminanti quali: olio, grasso, catrame, colle, vernici fresche, inchiostri, tracce d'erba e di resina, residui carboniosi, nerofumo, nicotina, tracce di benzina e di gasolio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9010020100000 | 140 strappi | 1 | **36,40** |

## BIOSAFE PLUS Guanti monouso in lattice



CE 0465

### Caratteristiche

Guanti monouso in lattice bianco, con polvere lubrificante, spessore ottimale e superficie liscia. Massima elasticità e comfort. Settori di utlizzo: ospedaliero, chimico farmaceutico, cleaning. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 1 |
| **Materiale** | lattice |
| **Con polvere** | sì |
| **Lunghezza manichetta** | 240 mm |
| **Colore** | bianco |
| **Superficie** | liscia |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | non sterile |
| **Peso** | 5,0 gr |
| **DPI** | IIIa Cat. - DM Classe I |

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000010GM | bianco | 100 | **9,40** |

## BIOSAFE HIGH RISK Guanti monouso in lattice



CE 0465

### Caratteristiche

Guanti monouso in lattice blu scuro, ad elevato spessore, senza polvere lubrificante. Massima protezione e resistenza in situazioni ad alto rischio. Settore di utilizzo: alimentare, chimico farmaceutico, cleaning. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 0,65 |
| **Materiale** | lattice |
| **Con polvere** | 0 |
| **Lunghezza manichetta** | 300 mm |
| **Colore** | blu scuro |
| **Superficie** | testurizzata |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | polimeri sintetici |
| **Peso** | 17,9 gr |
| **DPI** | IIIa Cat. - DM Classe I |

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000020GM | blu scuro | 50 | **24,80** |

## BIOSOFT PLUS Guanti monouso sintetici in nitrile



### Caratteristiche

Guanti monouso sintetici in nitrile azzurro o nero, senza polvere lubrificante, con dita testurizzate. Elevata protezione, presa sicura e massimo comfort. Settori di utilizzo: alimentare, chimico farmaceutico, cleaning, industria metalmeccanica, automotive. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 1 |
| **Materiale** | nitrile |
| **Con polvere** | 0 |
| **Lunghezza manichetta** | 240 mm |
| **Colore** | azzurro |
| **Superficie** | dita testurizzate |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | clorinatura interna |
| **Peso** | 3,8 gr |
| **DPI** | IIIa Cat. - DM Classe I |

CE 0465

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000030GM | azzurro | 100 | **11,80** |
| AN00101000040GM | nero | 100 | **13,60** |

## NITRIL ONE Guanti monouso sintetici in nitrile



### Caratteristiche

Guanti monouso sintetici in nitrile azzurro, senza polvere lubrificante, con dita testurizzate. Massima protezione grazie ad un elevato spessore. Settori di utilizzo: alimentare, chimico farmaceutico, cleaning. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 1 |
| **Materiale** | nitrile |
| **Con polvere** | 0 |
| **Lunghezza manichetta** | 240 mm |
| **Colore** | azzurro |
| **Superficie** | dita testurizzate |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | clorinatura interna |
| **Peso** | 7 gr |
| **DPI** | IIIa Cat. - DM Classe I |

CE 0465

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000050GM | azzurro | 100 | **20,20** |

## SOFTPRENE ULTRA GRIP Guanti monouso in gomma sintetica



### Caratteristiche

Guanti monouso in gomma sintetica blu, senza polvere lubrificante, rivestimento interno in polimeri sintetici, con dita testurizzate. Privo di acceleranti e vulcanizzanti per ridurre il rischio di sensibilizzazione ed allergie. Ottimo grip. Settori di utilizzo: ospedaliero, chimico farmaceutico, industria, cleaning. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 1 |
| **Materiale** | gomma sintetica |
| **Con polvere** | 0 |
| **Lunghezza manichetta** | 240 mm |
| **Colore** | blu porpora |
| **Superficie** | dita testurizzate |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | polimeri sintetici |
| **Peso** | 7,6 gr |
| **DPI** | IIIa Cat. - DM Classe I |

CE 0465

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000060GM | blu porpora | 100 | **12,40** |

## VINYL PLUS Guanti monouso in vinile



### Caratteristiche

Guanti monouso in vinile bianco trasparente, con polvere lubrificante, superficie liscia. Elevata resistenza, protezione e manegevolezza. Settori di utilizzo: ospedaliero, chimico farmaceutico, cleaning. Taglie disponibili: XS (5-5,5), S (6-6,5), M (7-7,5), L (8-8,5), XL (9-9,5).

| | |
|---|---|
| **AQL** | 1 |
| **Materiale** | vinile |
| **Con polvere** | sì |
| **Lunghezza manichetta** | 240 mm |
| **Colore** | bianco trasparente |
| **Superficie** | liscia |
| **Forma** | ambidestro |
| **Polsino** | salvastrappo |
| **Rivestimento** | non sterile |
| **Peso** | 4,6 gr |
| **DPI** | IIIa Cat. - DM Classe I |

CE 0465

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000070GM | bianco trasparente | 100 | **7,40** |

## GPU 1201 WW Guanti sintetici spalmati poliuretano



CE 3131

### Caratteristiche

Guanti sintetici spalmati poliuretano (PU), a filo continuo 100% poliammide. Settori di utilizzo: edilizia, industria metalmeccanica, automotive, trasporti. Taglie disponibili: 6, 7, 8, 9, 10.

| | |
|---|---|
| **Materiale** | 100% poliammide filo continuo |
| **Supporto** | filo continuo senza cuciture |
| **Rivestimento** | palmo ricoperto in poliuretano |
| **Colore** | bianco |
| **Polsino** | elasticizzato |
| **Dorso** | areato |
| **DPI** | IIIa Cat. |

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN00101000010GP | bianco | 120 | **1,44** |

## GNG 1300 Guanti tecnici spalmati nitrile



CE 3131

### Caratteristiche

Guanti tecnici spalmati nitrile, a filo continuo 100% poliammide. Settori di utilizzo: edilizia, industria metalmeccanica, automotive, trasporti. Taglie disponibili: 6, 7, 8, 9, 10.

| | |
|---|---|
| **Materiale** | 100% poliammide filo continuo |
| **Supporto** | filo continuo senza cuciture |
| **Rivestimento** | palmo ricoperto in nitrile |
| **Colore** | bianco |
| **Polsino** | elasticizzato |
| **Dorso** | areato |
| **DPI** | IIa Cat. |

| Codice | Colore | | € / cad. |
|---|---|---|---|
| AN001010000100G | bianco | 120 | **1,36** |

## ALU DET




### Caratteristiche

ALU DET è una schiuma detergente per grassi animali e vegetali e per tutte le superfici. La schiuma attiva di ALU DET emulsiona i grassi e ne consente la successiva dispersione tramite un normale risciacquo. Specificatamente formulato per penetrare, rimuovere e dissolvere grassi animali, vegetali, sporchi proteici e untuosità da pavimenti, superfici verticali, automezzi e tende da esterno.

**Applicazioni:** ALU DET è ideale per la pulizia di controsoffittature sporche di nicotina. Non intacca vernici e metalli. ALU DET trova impiego principalmente per la pulizia di veicoli industriali, serramenti, teloni, pavimenti e superfici verticali, celle frigorifere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9360030100005 | 5 kg | 1 | **44,44** |
| CH9360030100030 | 30 kg | 1 | **247,92** |

## BLU DET




### Caratteristiche

BLU DET è un formulato super concentrato con spiccate caratteristiche detergenti, specifico per il lavaggio di indumenti da lavoro. Consente di ottenere ottimi risultati anche a basse temperature, senza prelavaggio e con qualsiasi tipo di acqua. Dopo il lavaggio la biancheria risulta pulita, non infeltrita, morbida e profumata.

**Applicazioni:** BLU DET può essere impiegato in impianti grandi o piccoli, e può essere dosato manualmente o con dosatori elettronici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9370030100005 | 5 kg | 1 | **65,64** |

## IDRO DET




### Caratteristiche

IDRO DET è appositamente indicato per pulire e brillantare tutte le parti verniciate (carrozzerie, mezzi di trasporto ecc.), per rimuovere sporchi pesanti da particolari meccanici e da macchinari, per sgrassare le superfici metalliche prima della verniciatura.

**Applicazioni:** IDRO DET è raccomandato per l'utilizzo con macchine idropulitrici ad acqua calda e trova impiego principalmente per la pulizia di carrozzerie di autoveicoli, cabine di autocarri, autocisterne, furgoni, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9480030100005 | 5 kg | 1 | **51,12** |
| CH9480030100030 | 30 kg | 1 | **199,76** |

## IGIENI DET




### Caratteristiche

IGIENI DET è un detergente, diluibile in acqua, appositamente formulato per igienizzare e deodorare tutte le superfici lavabili; disponibile nella gradevole profumazione di pino.

**Applicazioni**: IGIENI DET può essere utilizzato su qualsiasi superficie lavabile.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9430030100005 | 5 kg | 1 | **34,96** |

## INDU PAV




### Caratteristiche

INDU PAV è un detergente concentrato, diluibile in acqua, appositamente formulato per sgrassare meccanicamente e manualmente pavimenti sporchi di unto, olio e grasso, senza risciacquo.

**Applicazioni:** INDU PAV trova applicazione in ogni settore industriale dove sia necessaria un'energica azione pulente.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9440030100001 | 1 kg | 1 | **9,80** |
| CH9440030100005 | 5 kg | 1 | **47,08** |
| CH9440030100030 | 30 kg | 1 | **195,52** |
| CH9440030100220 | 220 kg | 1 | **1.397,84** |

## MAK DET




### Caratteristiche

MAK DET è costituito da un'accurata miscela, in ambiente acquoso, di alcali tamponati, agenti bagnanti e detergenti specifici, nonché solventi idrocompatibili che sviluppano un'intensa azione sinergica, assicurando una perfetta e rapida azione detergente su superfici naturali e sintetiche. La bassissima schiuma permette, inoltre, di evitare l'azione di risciacquo. MAK DET esercita anche una leggera azione antiruggine sulle superfici metalliche sgrassate; è diluibile in acqua, non è corrosivo e non emana odori sgradevoli.

**Applicazioni:** MAK DET viene impiegato principalmente per la pulizia di macchine utensili, macchine da stampa, superfici plastiche, macchine tessili, presse di stampaggio.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9410030100005 | 5 kg | 1 | **44,04** |
| CH9410030100030 | 30 kg | 1 | **206,24** |
| CH9410030100220 | 220 kg | 1 | **1.444,32** |

## MOTO DET




### Caratteristiche

MOTO DET è un prodotto a pH neutro, diluibile in acqua, costituito da una miscela di alcali tamponati, estratti di origine naturale ed alcoli. Non è corrosivo, non intacca i metalli e la quasi totalità delle vernici e delle materie plastiche usate in campo automobilistico.

**Applicazioni:** MOTO DET viene impiegato principalmente nel settore automotive per il lavaggio dei motori, dei vani motore, oltre che nella manutenzione industriale per sgrassare particolari meccanici montati e smontati dove l'impiego di solventi aromatici o detergenti alcalini risulta essere controindicato.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9400030100030 | 30 kg | 1 | **273,80** |

## NEUTRO DET




### Caratteristiche

NEUTRO DET è un detergente liquido a pH neutro, utilizzabile sia diluito che puro. Anche utilizzato puro, non genera schiuma, limitando l'azione di risciacquo. NEUTRO DET è indicato anche per la rimozione di oli interi ed emulsionabili.

**Applicazioni:** NEUTRO DET viene impiegato principalmente per la pulizia di superfici plastiche e verniciate, superfici sintetiche, macchine tessili, macchine utensili, porcellana, marmo, alluminio, linoleum, pavimentazioni industriali.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9380030100001 | 1 kg | 1 | **9,40** |
| CH9380030100005 | 5 kg | 1 | **44,92** |
| CH9380030100030 | 30 kg | 1 | **188,80** |

## NO-RUGGINE




### Caratteristiche

NO-RUGGINE è stato appositamente formulato per additivare i bagni detergenti alcalini a freddo e a caldo, i bagni di risciacquo e le soluzioni di raffreddamento e per conferire un elevato potere antiossidante. NO-RUGGINE non contiene soda caustica e nitriti e non provoca schiuma.

**Applicazioni:** NO-RUGGINE trova impiego negli impianti di lavaggio dei metalli ferrosi e di particolari metallici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9420030100030 | 30 kg | 1 | **251,48** |

## SIKUR DET




### Caratteristiche

SIKUR DET è un prodotto, diluibile in acqua, costituito da una miscela in ambiente acquoso di alcali tamponati, estratti di origine naturale ed alcoli, formulato appositamente per pulire a fondo le superfici lavabili e i pavimenti da sporchi tenaci quali unto, fuliggine e macchie pesanti. La sua particolare formulazione, oltre a detergere, profuma l'ambiente con una gradevole fragranza di agrumi. SIKUR DET non richiede risciacquo, non è corrosivo e non intacca l'alluminio e la quasi totalità delle vernici industriali e delle materie plastiche.

**Applicazioni:** SIKUR DET trova applicazione in ogni settore industriale dove sia necessario operare con sicurezza e dove si0 un'energica azione pulente. Raccomandato per l'impiego sia manuale che con macchine lava-asciuga pavimenti, per la pulizia delle pavimentazioni di ogni genere nei reparti produttivi delle industrie.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9390030100005 | 5 kg | 1 | **47,08** |
| CH9390030100030 | 30 kg | 1 | **252,72** |

## SUPER DET




### Caratteristiche

SUPER DET è stato appositamente formulato per la rimozione dello sporco tenace e dello smog da tutte le superfici, esercitando la sua azione in modo rapido ed energico. Alle concentrazioni consigliate, non intacca i metalli ferrosi e la quasi totalità delle materie plastiche utilizzate in campo automobilistico.

**Applicazioni:** SUPER DET viene impiegato principalmente nella pulizia di veicoli industriali, macchine movimentazione a terra, pavimenti di officine, vani motore, teloni, ruote di autoveicoli.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9450030100005 | 5 kg | 1 | **62,44** |

## ULTRA DET




### Caratteristiche

ULTRA DET è un detergente universale, raccomandato per lavare qualsiasi tipo di metallo negli impianti ad ultrasuoni.

**Applicazioni:** ULTRA DET trova applicazione principalmente nell'industria meccanica e nei reparti di manutenzione per lo sgrassaggio di pezzi finiti e semilavorati, sporchi di grasso, unto e residui carboniosi. Specifico per il lavaggio delle celle in alluminio dei filtri elettrostatici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9460030100030 | 30 kg | 1 | **703,36** |
| CH9460030100200 | 200 kg | 1 | **5114,64** |
| CH9460030101000 | 1000 kg | 1 | **2.3044,16** |

## VETRI DET




### Caratteristiche

VETRI DET ha una formula che contiene tensioattivi facilmente e rapidamente biodegradabili che permettono una perfetta pulizia e brillantezza delle superfici, quali vetri e specchi, senza lasciare aloni.

**Applicazioni:** VETRI DET viene impiegato per la pulizia di vetri, specchi, finestre e superfici dure in generale.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9470030100001 con spruzzatore | 1 lt | 1 | **7,96** |
| CH9470030100001R | 1 lt | 1 | **6,68** |
| CH9470030100005 | 5 kg | 1 | **24,04** |
| CH9470030100030 | 30 kg | 1 | **108,28** |

## FULL DET




### Caratteristiche

FULL DET è uno sgrassatore detergente universale ad altissima concentrazione in grado di solubilizzare ed emulsionare ogni tipo di sporco, particolarmente adatto per la rimozione di sporchi di origine minerale: morchia, catrame, fluidi da taglio, lubrificanti. Formula concentrata a base di tensioattivi cationici. Per uso professionale. FULL DET si diluisce in acqua al 3-5%, per lavaggi di fondo aumentare la dose al 5-15%. In caso di sporchi particolarmente ostinati utilizzare il prodotto diluito al 50%; spruzzato puro sulle superfici funziona come solvente solubilizzante. Non contiene solventi e componenti nocivi per l'operatore.

**Applicazioni:** FULL DET viene impiegato principalmente per la pulizia e lo sgrassaggio di macchine utensili, macchine da stampa, superfici plastiche, macchine tessili, presse di stampaggio, pavimentazioni.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9410030100001 | 1lt | 1 | **10,60** |
| CH9410030110005 | 5 lt | 1 | **39,36** |
| CH9410030110025 | 25 lt | 1 | **189,28** |

## IGIENI CLIMA




### Caratteristiche

IGIENI CLIMA è uno spray al profumo di brezza marina che permette un efficace trattamento di pulizia e sanificazione, reso evidente anche dalla delicata profumazione che attesta l'avvenuto trattamento di rimozione della carica batterica. È formulato per limitare la contaminazione batterica che si annida nell'impianto di condizionamento, grazie ad un'azione igienizzante, detergente e deodorante.

**Applicazioni:** IGIENI CLIMA viene utilizzato per igienizzare e deodorare gli impianti di condizionamento di auto, uffici, ristoranti e dell'industria in genere.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9200010100000 | 400 ml | 1 | **14,56** |

## MULTI DET




### Caratteristiche

MULTI DET è formulato per asportare tutte le macchie solubili in acqua da tappeti, tappezzerie, tessuti e interni di automobili, lasciando un gradevole profumo di pulito. È la soluzione ideale per rimuovere segni e impronte digitali da pareti, ceramiche, superfici verniciate ed infissi. MULTI DET è adatto per la pulizia e la sanificazione di laminati e plastica. Impiegato anche nelle cucine per sgrassare fornelli, piastre di cottura, cappe e superfici in acciaio inossidabile.

**Applicazioni:** Per le sue molteplici funzioni, MULTI DET trova applicazione in tutti i settori industriali, con particolare riferimento al comparto automobilistico (per la pulizia degli interni dei veicoli), alle comunità, a bar e ristoranti.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9040010100000 | 400 ml | 1 | **9,08** |

## MULTI KLEAN




### Caratteristiche

MULTI KLEAN pulisce e lucida senza lasciare aloni, creando un velo protettivo invisibile sulle superfici trattate. Rimuove e previene l'accumulo di elettricità statica ed assicura una lunga protezione e riduzione della formazione di polvere.

**Applicazioni:** MULTI KLEAN può essere utilizzato su tutti i tipi di superfici, quali PVC, gomma, plastica, legno, acciaio, vetro e ceramica. Trova applicazione nell'industria in genere, nel settore automotive, negli uffici e nel settore dell'arredamento.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9250010100000 | 400 ml | 1 | **10,20** |

## MULTI SOLV




### Caratteristiche

MULTI SOLV è un formulato di origine naturale che deterge, sgrassa e deodora tutte le superfici metalliche, lasciando nell'ambiente un gradevole aroma agli agrumi.

**Applicazioni:** Grazie alle sue proprietà multifunzionali, MULTI SOLV trova diversi impieghi, ad esempio come detergente deodorante per officine, come sgrassante deodorante e dissolvente per pozzetti di scarico mense e come solvente per grassi e depositi bituminosi. Inoltre, MULTI SOLV è particolarmente indicato per la rimozione di lubrificanti, grassi, cere, inchiostri, colle ed adesivi e per la pulizia dei retini serigrafici.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9240010100000 | 400 ml | 1 | **11,96** |

## PULI ELEK




### Caratteristiche

PULI ELEK è il prodotto ideale per lo sgrassaggio rapido e senza residui di unto, sporco, polvere e umidità dalle apparecchiature elettriche ed elettroniche, non sotto tensione. PULI ELEK è esente da carbonio tetracloruro e da clorofluorocarburi.

**Applicazioni:** PULI ELEK trova applicazione nei reparti di manutenzione per la pulizia di condizionatori d'aria, interruttori, generatori, alternatori, trasformatori, spazzole, motori elettrici, collettori, ecc.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9050010100000 | 400 ml | 1 | **7,92** |

## VETRO

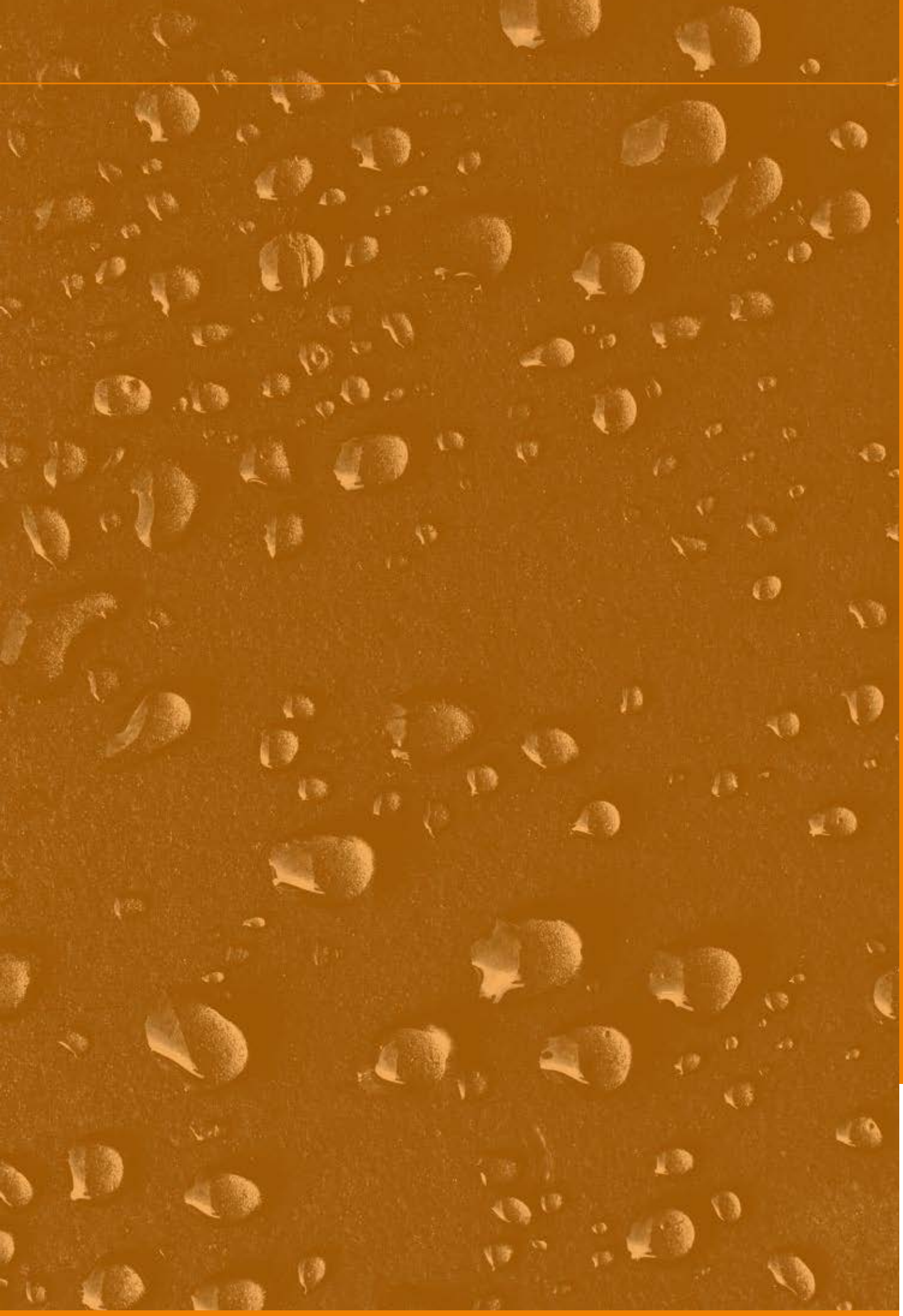



### Caratteristiche

VETRO è un formulato che, senza l'ausilio di prodotti abrasivi o caustici, consente di detergere perfettamente e senza aloni vetri, policarbonato e superfici speculari. Le ottime prestazioni del prodotto sono ottenute grazie all'inserimento nella formulazione di particolari agenti antistatici ed antipolvere che ostacolano attivamente il depositarsi dello sporco, garantendo alle superfici una protezione duratura nel tempo.

**Applicazioni:** VETRO è indicato per la pulizia di superfici in policarbonato, vetri e specchi, superfici cromate, acciaio inox, superfici smaltate, laminati plastici, cristalli di autoveicoli.

| Codice | Formato | | € / cad. |
|---|---|---|---|
| CH9160010100000 | 400 ml | 1 | **7,68** |



# 14 ANTINFORTUNISTICA



Calzature di sicurezza






1135-1144

Abbigliamento da lavoro






1145-1148

Occhiali di sicurezza






1148-1154

Guanti di protezione






1155-1161

# Legenda simboli

- puntale non metallico
- rispondente alla normativa europea SRC
- puntale e lamina in materiale composito
- EPA - Class 2
- soletta antiperforazione in composito o acciaio
- tomaia traspirante
- puntale in composito o acciaio
- suola resistente a olii e idrocarburi
- assorbimento di energia nel tallone
- calzatura antistatica
- suola anatomica
- agricoltura
- automotive
- chimico
- pulizia
- costruzione
- elettronica
- trasformazione e servizi alimentari
- vetro
- montaggio di metallo
- ingegneria
- laboratori
- farmaceutico

## Calzatura di sicurezza SPEED-UP



### Caratteristiche

- **Tipologia:** S1P SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** tessuto tridimensionale, traspirante e resistente. Puntalino in pelle bycast antiabrasione
- **Soletta:** Techsoft estraibile, traspirante, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito (200J)
- **Lamina:** composito Texon EnigmaZero HT2
- **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato

| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANSPE0010100038 | basso | 38 | 1 | **94,50** |
| ANSPE0010100039 | basso | 39 | 1 | **94,50** |
| ANSPE0010100040 | basso | 40 | 1 | **94,50** |
| ANSPE0010100041 | basso | 41 | 1 | **94,50** |
| ANSPE0010100042 | basso | 42 | 1 | **94,50** |
| ANSPE0010100043 | basso | 43 | 1 | **94,50** |
| ANSPE0010100044 | basso | 44 | 1 | **94,50** |
| ANSPE0010100045 | basso | 45 | 1 | **94,50** |
| ANSPE0010100046 | basso | 46 | 1 | **94,50** |
| ANSPE0010100047 | basso | 47 | 1 | **94,50** |

## Calzatura di sicurezza RIDE-ON



### Caratteristiche

- **Tipologia:** S3 SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** tessuto idrorepellente, traspirante e puntalino in pelle antiabrasione
- **Soletta:** Techsoft estraibile, traspirante, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito (200J)
- **Lamina:** composito Texon EnigmaZero HT2
- **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato




| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANRID0010100038 | basso | 38 | 1 | **99,28** |
| ANRID0010100039 | basso | 39 | 1 | **99,28** |
| ANRID0010100040 | basso | 40 | 1 | **99,28** |
| ANRID0010100041 | basso | 41 | 1 | **99,28** |
| ANRID0010100042 | basso | 42 | 1 | **99,28** |
| ANRID0010100043 | basso | 43 | 1 | **99,28** |
| ANRID0010100044 | basso | 44 | 1 | **99,28** |
| ANRID0010100045 | basso | 45 | 1 | **99,28** |
| ANRID0010100046 | basso | 46 | 1 | **99,28** |
| ANRID0010100047 | basso | 47 | 1 | **99,28** |

## Calzatura di sicurezza UNICA



### Caratteristiche

- **Tipologia:** S3 HRO SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle fiore traspirante idrorepellente
- **Fodera:** Tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano-gomma
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** meccanico; eccezionale resistenza ai trucioli

| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANUNI0010100038 | basso | 38 | 1 | **101,70** |
| ANUNI0010100039 | basso | 39 | 1 | **101,70** |
| ANUNI0010100040 | basso | 40 | 1 | **101,70** |
| ANUNI0010100041 | basso | 41 | 1 | **101,70** |
| ANUNI0010100042 | basso | 42 | 1 | **101,70** |
| ANUNI0010100043 | basso | 43 | 1 | **101,70** |
| ANUNI0010100044 | basso | 44 | 1 | **101,70** |
| ANUNI0010100045 | basso | 45 | 1 | **101,70** |
| ANUNI0010100046 | basso | 46 | 1 | **101,70** |
| ANUNI0010100047 | basso | 47 | 1 | **101,70** |
| ANUNI0010100048 | basso | 48 | 1 | **101,70** |
| ANUNIM010100038 | MID (alto) | 38 | 1 | **107,08** |
| ANUNIM010100039 | MID (alto) | 39 | 1 | **107,08** |
| ANUNIM010100040 | MID (alto) | 40 | 1 | **107,08** |
| ANUNIM010100041 | MID (alto) | 41 | 1 | **107,08** |
| ANUNIM010100042 | MID (alto) | 42 | 1 | **107,08** |
| ANUNIM010100043 | MID (alto) | 43 | 1 | **107,08** |
| ANUNIM010100044 | MID (alto) | 44 | 1 | **107,08** |
| ANUNIM010100045 | MID (alto) | 45 | 1 | **107,08** |
| ANUNIM010100046 | MID (alto) | 46 | 1 | **107,08** |
| ANUNIM010100047 | MID (alto) | 47 | 1 | **107,08** |
| ANUNIM010100048 | MID (alto) | 48 | 1 | **107,08** |

## Calzatura di sicurezza TOPAZIO



### Caratteristiche

- **Tipologia:** S3 SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle scamosciata traspirante e tessuto antistrappo idrorepellente
- **Fodera:** tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato

| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANTOP0010100036 | basso | 36 | 1 | **79,20** |
| ANTOP0010100037 | basso | 37 | 1 | **79,20** |
| ANTOP0010100038 | basso | 38 | 1 | **79,20** |
| ANTOP0010100039 | basso | 39 | 1 | **79,20** |
| ANTOP0010100040 | basso | 40 | 1 | **79,20** |
| ANTOP0010100041 | basso | 41 | 1 | **79,20** |
| ANTOP0010100042 | basso | 42 | 1 | **79,20** |
| ANTOP0010100043 | basso | 43 | 1 | **79,20** |
| ANTOP0010100044 | basso | 44 | 1 | **79,20** |
| ANTOP0010100045 | basso | 45 | 1 | **79,20** |
| ANTOP0010100046 | basso | 46 | 1 | **79,20** |
| ANTOP0010100047 | basso | 47 | 1 | **79,20** |
| ANTOP0010100048 | basso | 48 | 1 | **79,20** |
| ANTOPM010100039 | MID (alto) | 39 | 1 | **82,93** |
| ANTOPM010100040 | MID (alto) | 40 | 1 | **82,93** |
| ANTOPM010100041 | MID (alto) | 41 | 1 | **82,93** |
| ANTOPM010100042 | MID (alto) | 42 | 1 | **82,93** |
| ANTOPM010100043 | MID (alto) | 43 | 1 | **82,93** |
| ANTOPM010100044 | MID (alto) | 44 | 1 | **82,93** |
| ANTOPM010100045 | MID (alto) | 45 | 1 | **82,93** |
| ANTOPM010100046 | MID (alto) | 46 | 1 | **82,93** |
| ANTOPM010100047 | MID (alto) | 47 | 1 | **82,93** |
| ANTOPM010100048 | MID (alto) | 48 | 1 | **82,93** |

## Calzatura di sicurezza ARDESIA



### Caratteristiche

- **Tipologia:** S3 SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle traspirante idrorepellente
- **Fodera:** tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** elettrico, idraulico, meccanico, artigianato, edilizia




| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANARD0010100036 | basso | 36 | 1 | **77,05** |
| ANARD0010100037 | basso | 37 | 1 | **77,05** |
| ANARD0010100038 | basso | 38 | 1 | **77,05** |
| ANARD0010100039 | basso | 39 | 1 | **77,05** |
| ANARD0010100040 | basso | 40 | 1 | **77,05** |
| ANARD0010100041 | basso | 41 | 1 | **77,05** |
| ANARD0010100042 | basso | 42 | 1 | **77,05** |
| ANARD0010100043 | basso | 43 | 1 | **77,05** |
| ANARD0010100044 | basso | 44 | 1 | **77,05** |
| ANARD0010100045 | basso | 45 | 1 | **77,05** |
| ANARD0010100046 | basso | 46 | 1 | **77,05** |
| ANARD0010100047 | basso | 47 | 1 | **77,05** |
| ANARD0010100048 | basso | 48 | 1 | **77,05** |
| ANARDM010100039 | MID (alto) | 39 | 1 | **79,75** |
| ANARDM010100040 | MID (alto) | 40 | 1 | **79,75** |
| ANARDM010100041 | MID (alto) | 41 | 1 | **79,75** |
| ANARDM010100042 | MID (alto) | 42 | 1 | **79,75** |
| ANARDM010100043 | MID (alto) | 43 | 1 | **79,75** |
| ANARDM010100044 | MID (alto) | 44 | 1 | **79,75** |
| ANARDM010100045 | MID (alto) | 45 | 1 | **79,75** |
| ANARDM010100046 | MID (alto) | 46 | 1 | **79,75** |
| ANARDM010100047 | MID (alto) | 47 | 1 | **79,75** |
| ANARDM010100048 | MID (alto) | 48 | 1 | **79,75** |

## Calzatura di sicurezza TFLEX



### Caratteristiche

- **Tipologia:** S1P SRC (modello BASSO); S3 SRC (modello ALTO)
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle scamosciata e Cordura elasticizzato
- **Fodera:** tessuto tridimensionale PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano bidensità antistatico
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato; particolarmente adatta per lavori che richiedono la flessione del piede per lungo tempo




| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANFLEL010100038 | basso | 38 | 1 | **85,45** |
| ANFLEL010100039 | basso | 39 | 1 | **85,45** |
| ANFLEL010100040 | basso | 40 | 1 | **85,45** |
| ANFLEL010100041 | basso | 41 | 1 | **85,45** |
| ANFLEL010100042 | basso | 42 | 1 | **85,45** |
| ANFLEL010100043 | basso | 43 | 1 | **85,45** |
| ANFLEL010100044 | basso | 44 | 1 | **85,45** |
| ANFLEL010100045 | basso | 45 | 1 | **85,45** |
| ANFLEL010100046 | basso | 46 | 1 | **85,45** |
| ANFLEL010100047 | basso | 47 | 1 | **85,45** |
| ANFLEL010100048 | basso | 48 | 1 | **85,45** |
| ANFLE0101000038 | MID (alto) | 38 | 1 | **90,55** |
| ANFLE0101000039 | MID (alto) | 39 | 1 | **90,55** |
| ANFLE0101000040 | MID (alto) | 40 | 1 | **90,55** |
| ANFLE0101000041 | MID (alto) | 41 | 1 | **90,55** |
| ANFLE0101000042 | MID (alto) | 42 | 1 | **90,55** |
| ANFLE0101000043 | MID (alto) | 43 | 1 | **90,55** |
| ANFLE0101000044 | MID (alto) | 44 | 1 | **90,55** |
| ANFLE0101000045 | MID (alto) | 45 | 1 | **90,55** |
| ANFLE0101000046 | MID (alto) | 46 | 1 | **90,55** |
| ANFLE0101000047 | MID (alto) | 47 | 1 | **90,55** |
| ANFLE0101000048 | MID (alto) | 48 | 1 | **90,55** |

## Calzatura di sicurezza RUTILIO



### Caratteristiche

- **Tipologia:** S3 HRO
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle traspirante idrorepellente
- **Fodera:** tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano-gomma
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** metalmeccanico, industria pesante (acciaierie, saldatura, ecc.)




| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANRUT0010100038 | basso | 38 | 1 | **100,90** |
| ANRUT0010100039 | basso | 39 | 1 | **100,90** |
| ANRUT0010100040 | basso | 40 | 1 | **100,90** |
| ANRUT0010100041 | basso | 41 | 1 | **100,90** |
| ANRUT0010100042 | basso | 42 | 1 | **100,90** |
| ANRUT0010100043 | basso | 43 | 1 | **100,90** |
| ANRUT0010100044 | basso | 44 | 1 | **100,90** |
| ANRUT0010100045 | basso | 45 | 1 | **100,90** |
| ANRUT0010100046 | basso | 46 | 1 | **100,90** |
| ANRUT0010100047 | basso | 47 | 1 | **100,90** |
| ANRUT0010100048 | basso | 48 | 1 | **100,90** |

## Calzatura di sicurezza TITANIO



### Caratteristiche

- **Tipologia:** S1P SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle scamosciata traspirante con inserti in tessuto
- **Fodera:** tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato

| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANTIT0010100035 | basso | 35 | 1 | **68,18** |
| ANTIT0010100036 | basso | 36 | 1 | **68,18** |
| ANTIT0010100037 | basso | 37 | 1 | **68,18** |
| ANTIT0010100038 | basso | 38 | 1 | **68,18** |
| ANTIT0010100039 | basso | 39 | 1 | **68,18** |
| ANTIT0010100040 | basso | 40 | 1 | **68,18** |
| ANTIT0010100041 | basso | 41 | 1 | **68,18** |
| ANTIT0010100042 | basso | 42 | 1 | **68,18** |
| ANTIT0010100043 | basso | 43 | 1 | **68,18** |
| ANTIT0010100044 | basso | 44 | 1 | **68,18** |
| ANTIT0010100045 | basso | 45 | 1 | **68,18** |
| ANTIT0010100046 | basso | 46 | 1 | **68,18** |
| ANTIT0010100047 | basso | 47 | 1 | **68,18** |
| ANTIT0010100048 | basso | 48 | 1 | **68,18** |

## Calzatura di sicurezza QUARZO



### Caratteristiche

- **Tipologia:** S1P SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle scamosciata traspirante
- **Fodera:** tessuto PLASMAFEEL
- **Soletta:** termoformata Fusstatic estraibile, antibatterica ed assorbente
- **Suola:** poliuretano bidensità
- **Puntale:** composito multistrato (200J)
- **Lamina:** composito PERFORAZIONE ZERO
- **Settore di utilizzo:** elettrico, idraulico, meccanico, artigianato

| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANQUA0010100036 | basso | 36 | 1 | **70,85** |
| ANQUA0010100037 | basso | 37 | 1 | **70,85** |
| ANQUA0010100038 | basso | 38 | 1 | **70,85** |
| ANQUA0010100039 | basso | 39 | 1 | **70,85** |
| ANQUA0010100040 | basso | 40 | 1 | **70,85** |
| ANQUA0010100041 | basso | 41 | 1 | **70,85** |
| ANQUA0010100042 | basso | 42 | 1 | **70,85** |
| ANQUA0010100043 | basso | 43 | 1 | **70,85** |
| ANQUA0010100044 | basso | 44 | 1 | **70,85** |
| ANQUA0010100045 | basso | 45 | 1 | **70,85** |
| ANQUA0010100046 | basso | 46 | 1 | **70,85** |
| ANQUA0010100047 | basso | 47 | 1 | **70,85** |
| ANQUA0010100048 | basso | 48 | 1 | **70,85** |

## Calzatura di sicurezza TOPAZIO COOL



### Caratteristiche

- **Tipologia:** S1P SRC
- **Certificazione:** UNI EN ISO 20345:2012
- **Tomaia:** pelle scamosciata interamente sfoderata e traforata
- **Soletta:** AIR GEL termoformata, estraibile, antibatterica, antistatica ed assorbente
- **Suola:** poliuretano bidensità ULTRA LIGHT antistatico - **Puntale:** composito ultraleggero in fibra di vetro (200J) - **Settore di utilizzo:** elettrico, idraulico, meccanico e artigianato




| Codice | Modello | Misura | | € / cad. |
|---|---|---|---|---|
| ANTOC0101000036 | basso | 36 | 1 | **82,93** |
| ANTOC0101000037 | basso | 37 | 1 | **82,93** |
| ANTOC0101000038 | basso | 38 | 1 | **82,93** |
| ANTOC0101000039 | basso | 39 | 1 | **82,93** |
| ANTOC0101000040 | basso | 40 | 1 | **82,93** |
| ANTOC0101000041 | basso | 41 | 1 | **82,93** |
| ANTOC0101000042 | basso | 42 | 1 | **82,93** |
| ANTOC0101000043 | basso | 43 | 1 | **82,93** |
| ANTOC0101000044 | basso | 44 | 1 | **82,93** |
| ANTOC0101000045 | basso | 45 | 1 | **82,93** |
| ANTOC0101000046 | basso | 46 | 1 | **82,93** |
| ANTOC0101000047 | basso | 47 | 1 | **82,93** |
| ANTOC0101000048 | basso | 48 | 1 | **82,93** |

## Polo manica corta in piquet cotone 100%



### Caratteristiche

Polo a manica corta in piquet cotone 100%, 170 gr/mq, lavabile a 40°. Con spacchetti laterali, colore grigio, con profili arancioni su colletto e fondo manica. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100PC00S | S | 1 | **23,75** |
| AL00100100PC00M | M | 1 | **23,75** |
| AL00100100PC00L | L | 1 | **23,75** |
| AL00100100PC0XL | XL | 1 | **23,75** |
| AL00100100PCXXL | XXL | 1 | **23,75** |
| AL00100100PC3XL | 3XL | 1 | **23,75** |

## Polo manica lunga in piquet cotone 100%



### Caratteristiche

Polo a manica lunga in piquet cotone 100%, 170 gr/mq, lavabile a 40°. Con spacchetti laterali e polsini elasticizzati. Colore grigio, con profili arancioni su colletto e fondo polsini. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100PL00S | S | 1 | **28,75** |
| AL00100100PL00M | M | 1 | **28,75** |
| AL00100100PL00L | L | 1 | **28,75** |
| AL00100100PL0XL | XL | 1 | **28,75** |
| AL00100100PLXXL | XXL | 1 | **28,75** |
| AL00100100PL3XL | 3XL | 1 | **28,75** |

## Felpa in cotone 100%



### Caratteristiche

Felpa in cotone 100%, 270 gr/mq, lavabile a 30°, aperta con zip. Tasche laterali con apertura verticale, zip centrale pressofusa che termina con un salva barba. Vestibilità asciutta. Colore grigio, con profili arancioni su colletto, polsini, aperture tasche e fondo. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100F000S | S | 1 | **47,25** |
| AL00100100F000M | M | 1 | **47,25** |
| AL00100100F000L | L | 1 | **47,25** |
| AL00100100F00XL | XL | 1 | **47,25** |
| AL00100100F0XXL | XXL | 1 | **47,25** |
| AL00100100F03XL | 3XL | 1 | **47,25** |

## Giubbino Soft-Shell



### Caratteristiche

Giubbino Soft-Shell in poliestere 94%, spandex 6%, 310 gr/mq, lavabile a 30°. Due tasche laterali con apertura verticale, due tasche a filetto sul petto inserite e chiuse con pattina, due tasche verticali sul petto con chiusura a zip rovesciata. Porta badge a scomparsa inserito sulla tasca sinistra. Zip centrale pressofusa che termina con un salva barba. Fondo posteriore sagomato. Vestibilità a giubbottino. Colore grigio, con profili arancioni su colletto, contorno delle zip delle tasche sul petto, aperture tasche, polsini e fondo. Pattine e interno cinturino arancioni a contrasto. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100SS00S | S | 1 | **74,75** |
| AL00100100SS00M | M | 1 | **74,75** |
| AL00100100SS00L | L | 1 | **74,75** |
| AL00100100SS0XL | XL | 1 | **74,75** |
| AL00100100SSXXL | XXL | 1 | **74,75** |
| AL00100100SS3XL | 3XL | 1 | **74,75** |

## Gilet multitasche in tessuto canvas



### Caratteristiche

Gilet multitasche in tessuto canvas, poliestere 65%, cotone 35%, 260 gr/mq, lavabile a 60°. Due tasche laterali con apertura verticale, due tasche a filetto sul petto inserite e chiuse con pattina, due tasche verticali sul petto con chiusura a zip rovesciata. Porta badge a scomparsa inserito sulla tasca sinistra. Zip centrale pressofusa che termina con un salva barba. Fondo posteriore sagomato. Colore grigio, con profili arancioni su colletto, contorno delle zip delle tasche sul petto, aperture tasche e fondo. Pattine arancioni a contrasto. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100G000S | S | 1 | **62,25** |
| AL00100100G000M | M | 1 | **62,25** |
| AL00100100G000L | L | 1 | **62,25** |
| AL00100100G00XL | XL | 1 | **62,25** |
| AL00100100G0XXL | XXL | 1 | **62,25** |
| AL00100100G03XL | 3XL | 1 | **62,25** |

## Camice in tessuto canvas



### Caratteristiche

Camice in tessuto canvas, poliestere 65%, cotone 35%, 260 gr/mq, lavabile a 60°. Abbottonatura centrale coperta. Due tasche frontali, una tasca sul petto con pattina arancione a contrasto e porta badge a scomparsa. Chiusura fondo manica con bottoni a pressione regolabili. Linea moderna e funzionale, spacco posteriore con cucitura di rinforzo arancione a contrasto. Colore grigio, con profili arancioni su colletto e tasche frontali. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100C000S | S | 1 | **58,75** |
| AL00100100C000M | M | 1 | **58,75** |
| AL00100100C000L | L | 1 | **58,75** |
| AL00100100C00XL | XL | 1 | **58,75** |
| AL00100100C0XXL | XXL | 1 | **58,75** |
| AL00100100C03XL | 3XL | 1 | **58,75** |

## Pantaloni con tasche rinforzate porta ginocchiere



### Caratteristiche

Pantaloni con tasche rinforzate porta ginocchiere in tessuto canvas, poliestere 65%, cotone 35%, 260 gr/mq, lavabili a 60°. Tasche oblique con apertura a zip e bottone a chiodo, cinque passanti in vita di cui uno arancione a contrasto, elastico posteriore per maggiore confort. Tasca laterale con entrata superiore chiusa da pattina porta cellulare con soffietto e, a sinistra, scomparto porta documenti con chiusura a zip. Porta badge a scomparsa inserito sulla tasca, porta metro applicato sulla gamba destra. Due tasche posteriori con profili arancioni nei risvolti. Linea moderna e grintosa. Colore grigio. Taglie dalla S alla 3XL.

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AL00100100P000S | S | 1 | **67,50** |
| AL00100100P000M | M | 1 | **67,50** |
| AL00100100P000L | L | 1 | **67,50** |
| AL00100100P00XL | XL | 1 | **67,50** |
| AL00100100P0XXL | XXL | 1 | **67,50** |
| AL00100100P03XL | 3XL | 1 | **67,50** |

## Occhiali POLAR-TOP



### Caratteristiche

Filtro solare polarizzato PC UV400 grigio, lenti polarizzate per una migliore definizione dei contorni e dei colori senza riflessi; montatura confortevole, completamente avvolgente e resistente, astine e naselli in bicomponente; **Grado di protezione:** F, **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101EAPOLEY1 | PC-UV tested grigio | CE EN 166 - EN 172 | 1 | **46,25** |

## Occhiali SUN-PLUS



### Caratteristiche

Lenti antigraffio e antiappannanti, filtro solare industriale PC UV400, montatura confortevole, completamente avvolgente e resistente, astine in bicomponente; **grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101EPSUNEY1 | PC-UV tested | CE EN 166 - EN 172 | 1 | **9,75** |

## Occhiali WELD-PLUS



### Caratteristiche

Filtro per saldatura a gas PC DIN 5, montatura confortevole ed ergonomica, astine di colore verde scuro trasparenti per avere migliore luminosità in ambienti oscuri, e con piccole prese d'aria per permettere un piccolo ricambio di aria in condizioni di forti esposizioni a fonti di calore; **grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** industria generica e industria metallurgica, utilizzabili specificatamente durante lavori di saldatura a gas e tecniche affini.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101FLD5HW01 | PC-UV tested | CE EN 166 - EN 169 | 1 | **11,63** |

## Occhiali UV-TOP



### Caratteristiche

Lenti antigraffio e antiappannanti, filtro PC UV400 trasparente, montatura confortevole, completamente avvolgente e resistente, astine e naselli in bicomponente; **grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101EATREY01 | PC-UV tested trasparente | CE EN 166 - EN 170 | 1 | **19,20** |

## Occhiali UV-HD



### Caratteristiche

Lenti antigraffio e antiappannanti, filtro PC UV400 giallo ad alta visibilità, montatura confortevole, completamente avvolgente e resistente, astine in bicomponente; **grado di protezione**: F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica; utilizzabili in ambienti interni o esterni in caso di scarsa illuminazione, nebbia e neve.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101EPYEY001 | PC-UV tested giallo | CE EN 166 - EN 170 | 1 | **9,75** |

## Occhiali UV-PLUS



### Caratteristiche

Lenti antigraffio e antiappannanti, filtro PC UV400 trasparente, montatura confortevole, completamente avvolgente e resistente, astine in bicomponente; **grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101EPTREY02 | PC-UV tested trasparente | CE EN 166 - EN 170 | 1 | **9,75** |

## Occhiali UV-ECO



### Caratteristiche

Lenti antigraffio e antiappannanti, filtro PC UV400 trasparente, montatura confortevole, completamente avvolgente e resistente; **grado di protezione:** F; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN00101ECTRSG03 | PC-UV tested trasparente | CE EN 166 - EN 170 | 1 | **3,70** |

## Occhiali DOUBLE POLAR



### Caratteristiche

Lenti polarizzate, antigraffio e antiappannanti, PC, filtro UV400, colore grigio. Le lenti polarizzate eliminano i riflessi e definiscono colori e contorni. Montatura confortevole, ergonomica e resistente, con astine e fascia elastica intercambiabili. Dotato di FOAM interno per una maggiore aderenza al volto e prese d'aria per la ventilazione. **Grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica, sanità.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN001010INPOLAW | PC-UV tested grigio | CE EN 166 - EN 172 | 1 | **47,00** |

## Occhiali DOUBLE SUN



### Caratteristiche

Lenti antigraffio e antiappannanti, PC, filtro solare UV400, colore grigio, montatura confortevole, ergonomica e resistente, con astine e fascia elastica intercambiabili. Dotato di FOAM interno per una maggiore aderenza al volto e prese d'aria per la ventilazione. **Grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica, sanità.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN001010INSUNAW | PC-UV tested grigio | CE EN 166 - EN 172 | 1 | **20,30** |

## Occhiali DOUBLE LIGHT



### Caratteristiche

Lenti antigraffio e antiappannanti, PC, filtro UV400 trasparente ultravioletto, montatura confortevole, ergonomica e resistente, con astine e fascia elastica intercambiabili. Dotato di FOAM interno per una maggiore aderenza al volto e prese d'aria per la ventilazione. **Grado di protezione:** F; **T resistenza alla temperatura:** da -5°C a +55°C; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica, sanità.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN0010100INTRAW | PC-UV tested trasparente | CE EN 166 - EN 170 | 1 | **20,30** |

## Occhiali FOCUS




### Caratteristiche

Occhiale graduato monofocale indicato per soggetti con problemi di presbiopia. Lenti antigraffio, filtro UV in CR39 di classe ottica 1, montatura confortevole, completamente avvolgente e resistente, astine in bicomponente; **grado di protezione:** S. **Settori di utilizzo:** industria generica, industria metalmeccanica (molatura, tornitura, fresatura, lavorazione del legno), sanità, tempo libero.

| Codice | Gradazione | Normativa | | € / cad. |
|---|---|---|---|---|
| AN0010100REC001 | +1 | CE EN 166 | 1 | **34,88** |
| AN0010100REC015 | +1,5 | CE EN 166 | 1 | **34,88** |
| AN0010100REC002 | +2 | CE EN 166 | 1 | **34,88** |
| AN0010100REC025 | +2,5 | CE EN 166 | 1 | **34,88** |
| AN0010100REC003 | +3 | CE EN 166 | 1 | **34,88** |

## Occhiali OPTICAL



### Caratteristiche

Lenti antigraffio e antiappannanti in policarbonato, classe ottica 1 (utilizzo continuo). Montatura confortevole e protettiva, panoramica, con astice regolabili in lunghezza; nasello in gomma e supporto per lenti graduate. **Grado di protezione:** F; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica, sanità.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN0010100OTRXSG | PC-UV trasparente | CE EN 166 | 1 | **23,75** |

## Occhiali COVER-PLUS



### Caratteristiche

Lenti antigraffio e antiappannanti, PC, filtro UV controimpatto trasparente, montatura confortevole, ergonomica e resistente, completamente avvolgente. L'occhiale può essere indossato sopra qualunque occhiale da vista. Dotato di astine blu trasparente per attenuare il riflesso delle stanghette degli occhiali all'interno. **Grado di protezione:** F; **settori di utilizzo:** edilizia e costruzioni, industria generica, industria metalmeccanica, sanità.

| Codice | Filtro | Normativa | | € / cad. |
|---|---|---|---|---|
| AN0010100DOTRSG | PC-UV tested trasparente | CE EN 166 - EN 170 | 1 | **6,70** |

## Guanti in nitrile, colore blu



### Caratteristiche

Guanti in nitrile per la protezione contro rischi meccanici. Ideali per industria automobilistica, edilizia, manipolazione di barre in acciaio, lamiere e altri lavorati metallici; nettezza urbana e raccolta rifiuti. Ottima resistenza al grasso e all'olio; senza siliconi; maggiore robustezza e flessibilità rispetto al PVC; ottima resistenza meccanica; dorso traspirante; interamente rivestiti per una completa protezione in ambienti umidi.

- **Rivestimento:** nitrile interamente spalmato
- **Fodera:** cotone jersey
- **Finitura:** liscia
- **Polso:** manichetta di sicurezza
- **Lunghezza:** 250 mm ± 10
- **Colore:** blu scuro

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000NB09 | 9 | 12 | **7,50** |
| AN001002000NB10 | 10 | 12 | **7,50** |
| AN001002000NB11 | 11 | 12 | **7,50** |

## Guanti in nitrile, colore giallo



### Caratteristiche

Guanti in nitrile per la protezione contro rischi meccanici. Ideali per l'assemblaggio in ingegneria e per la manipolazione generale, per lavorazioni in legno e giardinaggio, industria navale e trasporti, manipolazione di materiali leggeri. Eccellente resistenza all'abrasione e agli oli; ottima alternativa alla pelle leggera e al PVC; fodera in cotone 100% per il massimo comfort; senza siliconi.

- **Rivestimento:** nitrile 3/4
- **Fodera:** cotone jersey
- **Finitura:** liscia
- **Polso:** lavorato a maglia
- **Lunghezza:** 250 mm ± 10
- **Colore:** giallo

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000NG07 | 7 | 12 | **3,63** |
| AN001002000NG08 | 8 | 12 | **3,63** |
| AN001002000NG09 | 9 | 12 | **3,63** |
| AN001002000NG10 | 10 | 12 | **3,63** |
| AN001002000NG11 | 11 | 12 | **3,63** |

## Guanti in nylon e poliuretano



### Caratteristiche

Guanti in nylon per la protezione contro rischi meccanici durante applicazioni di precisione. Ideali per operazioni leggere di assemblaggio, lavori di finitura, assemblaggio motori elettrici e cablaggi, confezionamento, applicazioni meccaniche ultra precise, operazioni su elettrodomestici e materiale elettrico. Design ergonomico e leggero; eccellente comfort e vestibilità; senza cuciture; senza silicone e DMF; per applicazioni in ambienti asciutti o leggermente oleosi.

- **Rivestimento:** palmo rivestito in poliuretano
- **Fodera:** calibro 13G nylon
- **Finitura:** liscia
- **Polso:** lavorato a maglia
- **Lunghezza:** 220 mm ± 10
- **Colore:** bianco

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000N06 | 6 | 12 | **2,75** |
| AN0010020000N07 | 7 | 12 | **2,75** |
| AN0010020000N08 | 8 | 12 | **2,75** |
| AN0010020000N09 | 9 | 12 | **2,75** |
| AN0010020000N10 | 10 | 12 | **2,75** |
| AN0010020000N11 | 11 | 12 | **2,75** |

## Guanti ultraleggeri in schiuma di nitrile



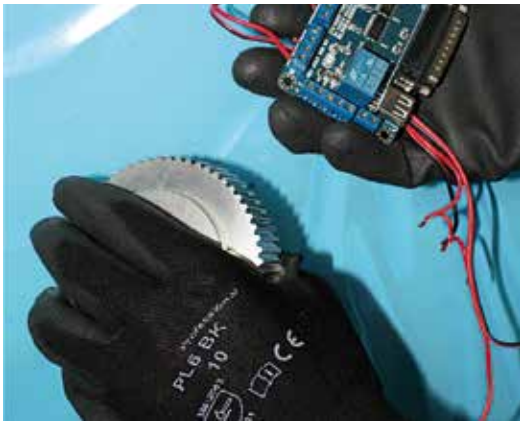
### Caratteristiche

Guanti ultraleggeri, 15 aghi in schiuma di nitrile, per la protezione contro rischi meccanici durante manipolazioni leggere. Ideali per operazioni di assemblaggio elettrodomestici, operazioni generali di manutenzione, industria metallurgica, edilizia, applicazioni di assemblaggio e finitura. Ottima protezione delle mani dalla penetrazione di oli; eccezionale flessibilità e sensibilità; livello 4 di resistenza all'abrasione secondo la norma EN 388; dorso traspirante per ridurre la sudorazione; ottimo livello di destrezza e sensibilità; senza cuciture; senza silicone e DMF.

- **Rivestimento:** schiuma di nitrile (doppio rivestimento)
- **Fodera:** calibro 15G nylon
- **Finitura:** leggermente increspata
- **Polso:** lavorato a maglia
- **Lunghezza:** 220-270 mm ± 10
- **Colore:** nero

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000NL07 | 7 | 12 | **6,20** |
| AN001002000NL08 | 8 | 12 | **6,20** |
| AN001002000NL09 | 9 | 12 | **6,20** |
| AN001002000NL10 | 10 | 12 | **6,20** |
| AN001002000NL11 | 11 | 12 | **6,20** |

## Guanti in poliestere








### Caratteristiche

Guanti in nylon per la protezione contro rischi meccanici durante manipolazioni leggere. Indicati per operazioni leggere di assemblaggio, assemblaggio finale, cablaggi, motori elettrici, lavori di finitura, confezionamento, applicazioni meccaniche ultra precise, operazioni di assemblaggio elettrodomestici e materiale elettrico. Senza cuciture; con rivestimento in poliuretano; design ergonomico e leggero; eccellente comfort e vestibilità; senza silicone; ideali per applicazioni in ambienti asciutti o leggermente oleosi.

- **Rivestimento:** palmo rivestito in poliuretano
- **Fodera:** calibro 13G nylon
- **Finitura:** liscia
- **Polso:** lavorato a maglia
- **Lunghezza:** 220 mm ± 10
- **Colore:** nero

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000P06 | 6 | 12 | **2,25** |
| AN0010020000P07 | 7 | 12 | **2,25** |
| AN0010020000P08 | 8 | 12 | **2,25** |
| AN0010020000P09 | 9 | 12 | **2,25** |
| AN0010020000P10 | 10 | 12 | **2,25** |
| AN0010020000P11 | 11 | 12 | **2,25** |

## Guanti antitaglio, classe 3








### Caratteristiche

Guanti per la protezione dal taglio, classe 3. Ideali per il montaggio di piccoli componenti e pezzi metallici, assemblaggio elettrodomestici, taglio di piccole parti asciutte o leggermente oleate, manutenzione, produzione vetro. Guanti a filo continuo senza cuciture; realizzati con fibre di polietilene ad alte prestazioni; dorso areato; presa sicura su oggetti asciutti o leggermente oleosi; comfort eccellente; polsino lungo per una maggiore protezione; eccellente resistenza al taglio e all'abrasione.

- **Rivestimento:** poliuretano
- **Fodera:** calibro 13G HPPE
- **Finitura:** palmo rivestito
- **Polso:** lavorato a maglia
- **Lunghezza:** 240-270 mm
- **Colore:** grigio

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000T306 | 6 | 12 | **12,00** |
| AN001002000T307 | 7 | 12 | **12,00** |
| AN001002000T308 | 8 | 12 | **12,00** |
| AN001002000T309 | 9 | 12 | **12,00** |
| AN001002000T310 | 10 | 12 | **12,00** |
| AN001002000T311 | 11 | 12 | **12,00** |

## Guanti antitaglio, classe 4






### Caratteristiche

Guanti per la protezione dal taglio, classe 4. Ideali per lavorazioni fini che richiedono tattilità e buona protezione dal taglio, manipolazione e assemblaggio di componenti di ridotte dimensioni e taglienti, industria automobilistica e produzione vetro. Guanti a filo continuo senza cuciture; realizzati con fibre di polietilene ad alte prestazioni; dorso areato; presa sicura su oggetti asciutti o leggermente oleosi; polsino lungo per una maggiore protezione.

- **Rivestimento:** poliuretano
- **Fodera:** calibro 13G HPPE
- **Finitura:** palmo rivestito
- **Polso:** lavorato a maglia
- **Lunghezza:** 255 mm ± 10
- **Colore:** grigio

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000T406 | 6 | 12 | **19,75** |
| AN001002000T407 | 7 | 12 | **19,75** |
| AN001002000T408 | 8 | 12 | **19,75** |
| AN001002000T409 | 9 | 12 | **19,75** |
| AN001002000T410 | 10 | 12 | **19,75** |
| AN001002000T411 | 11 | 12 | **19,75** |

## Guanti antitaglio, classe 5






### Caratteristiche

Guanti per la protezione dal taglio, classe 5. Ideali per la manipolazione di lastre di vetro e di oggetti dal bordo tagliente o affilato, operazioni di assemblaggio e taglio di parti asciutte o leggermente oleate, operazioni di manutenzione generale. Guanti a filo continuo senza cuciture; realizzati con fibre di polietilene ad alte prestazioni; dorso areato; maglia sottile ed elastica per un comfort eccellente; eccellente resistenza al taglio e all'abrasione; polsino lungo per una maggiore protezione.

- **Rivestimento:** poliuretano
- **Fodera:** calibro 13G HPPE
- **Finitura:** palmo rivestito
- **Polso:** lavorato a maglia
- **Lunghezza:** 240-270 mm
- **Colore:** grigio

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN001002000T506 | 6 | 12 | **14,75** |
| AN001002000T507 | 7 | 12 | **14,75** |
| AN001002000T508 | 8 | 12 | **14,75** |
| AN001002000T509 | 9 | 12 | **14,75** |
| AN001002000T510 | 10 | 12 | **14,75** |
| AN001002000T511 | 11 | 12 | **14,75** |

## Guanti antitaglio in nitrile, classe 3



### Caratteristiche

Guanti in nitrile per la protezione dal taglio, classe 3. Indicati per il montaggio di piccoli componenti e pezzi metallici, operazioni di assemblaggio di pezzi oliati leggeri, industria automobilistica, produzione vetro, operazioni di manutenzione generale. Rivestimento in nitrile per la protezione dal contatto con oli, idrocarburi e grassi; guanti morbidi e confortevoli; dorso areato; eccellente comfort e facilità di movimento; finitura rugosa sul palmo per garantire la manipolazione di componenti taglienti sia asciutti che oleosi.

- **Rivestimento:** nitrile
- **Fodera:** calibro 13G HPPE
- **Finitura:** palmo rivestito
- **Polso:** lavorato a maglia
- **Lunghezza:** 240-270 mm
- **Colore:** nero

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN00100200TN307 | 7 | 12 | **17,00** |
| AN00100200TN308 | 8 | 12 | **17,00** |
| AN00100200TN309 | 9 | 12 | **17,00** |
| AN00100200TN310 | 10 | 12 | **17,00** |
| AN00100200TN311 | 11 | 12 | **17,00** |

## Guanti antitaglio in nitrile, classe 5



### Caratteristiche

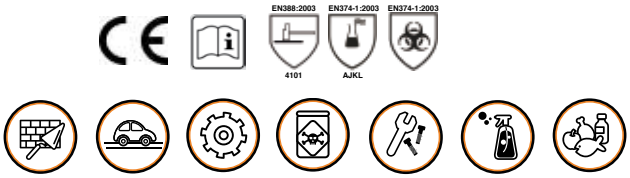
Guanti in nitrile per la protezione dal taglio, classe 5. Indicati per le manipolazioni di lamiere e assemblaggio di componenti affilati impregnati di olio o grasso, per lavori di manutenzione generale, industria automobilistica, industria del vetro, raccolta rifiuti. Guanti a filo continuo senza cuciture, 10 aghi; realizzati con fibra di polietilene ad alte prestazioni e composto speciale di nitrile per garantire contemporaneamente un'elevata resistenza alle sostanze chimiche e al taglio; finitura del palmo a rombi invertiti per una migliore presa; elevata resistenza a solventi e prodotti chimici a base di olio; eccellente resistenza all'abrasione e alla foratura, sena compromettere la destrezza.

- **Rivestimento:** nitrile
- **Fodera:** calibro 10G HPPE
- **Finitura:** a rombi
- **Polso:** lungo
- **Lunghezza:** 310 mm ± 10
- **Colore:** verde

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN00100200TN508 | 8 | 12 | **45,00** |
| AN00100200TN509 | 9 | 12 | **45,00** |
| AN00100200TN510 | 10 | 12 | **45,00** |

## Guanti chimici in nitrile






### Caratteristiche

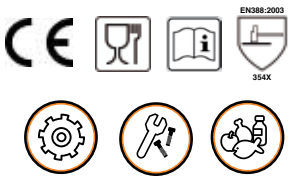
Guanti in nitrile per la protezione chimica. Ideali per la manipolazione di prodotti chimici per l'agricoltura, per la manutenzione e assemblaggio nell'industria automobilistica e la stampa, per le lavorazioni a contatto con alimenti, nell'industria metallurgica, per le operazioni di pulizia. Formula in nitrile per una maggiore resistenza a molti solventi e prodotti chimici a base olio; ottima presa grazie alla rifinitura diamantata; buona resistenza all'abrasione; senza silicone; conformi alle norme 21 CFR (USA) e a quelle europee relative al contatto con gli alimenti.

- **Rivestimento:** nitrile interamente rivestito
- **Fodera:** floccatura di cotone
- **Finitura:** diamantata
- **Polso:** lungo
- **Spessore:** 0,38 ± 0,05 mm
- **Lunghezza:** 330 mm ± 10
- **Colore:** verde

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000C07 | 7 | 12 | **4,80** |
| AN0010020000C08 | 8 | 12 | **4,80** |
| AN0010020000C09 | 9 | 12 | **4,80** |
| AN0010020000C10 | 10 | 12 | **4,80** |
| AN0010020000C11 | 11 | 12 | **4,80** |

## Guanti per il settore alimentare






### Caratteristiche

Guanti per la protezione nel settore alimentare. Indicati per taglio carne, disossatura, sfilettatura pesce, lavorazioni ortofrutticole. Realizzati in speciali filati tecnici con fibre HPPE per alti livelli di protezione dal taglio; lunga durata; presa e comfort eccellenti; lavabili ad alte temperature; ambidestri; conformi alle norme 21 CFR (USA) e a quelle europee relative al contatto con gli alimenti.

- **Rivestimento:** HPPE 13G
- **Finitura:** zigzag
- **Polso:** lavorato a maglia
- **Lunghezza:** 260 mm ± 10
- **Colore:** blu

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000A06 | 6 | 12 | **38,75** |
| AN0010020000A07 | 7 | 12 | **38,75** |
| AN0010020000A08 | 8 | 12 | **38,75** |
| AN0010020000A09 | 9 | 12 | **38,75** |
| AN0010020000A10 | 10 | 12 | **38,75** |
| AN0010020000A11 | 11 | 12 | **38,75** |

## Manicotti per il settore alimentare



### Caratteristiche

Manicotti per la protezione nel settore alimentare. Indicati per taglio carne, disossatura, sfilettatura pesce, lavorazioni ortofrutticole. Realizzati senza cuciture in speciali filati tecnici contenenti fibre HPPE; lunga durata; presa e comfort eccellenti; lavabili ad alte temperature; ambidestri; ottima resistenza all'abrasione; conformi alle norme 21 CFR (USA) e a quelle europee relative al contatto con gli alimenti.

- **Rivestimento:** HPPE 13G
- **Finitura:** zigzag
- **Polso:** lavorato a maglia
- **Lunghezza:** 400 mm ± 10
- **Colore:** blu

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000M10 | 10 | 12 | **82,50** |

## Guanti monouso



### Caratteristiche

Guanti monouso per operazioni leggere di assemblaggio pezzi oliati, servizi di pronto soccorso, attività presso laboratori di analisi, lavorazioni chimiche, colorifici. Senza lattice naturale; eccellenti proprietà chimiche e meccaniche; eccellente comfort e destrezza; estremità delle dita zigrinate per una migliore presa; senza polvere; idonei al contatto con sostanze alimentari grasse; conformi alle norme 21 CFR (USA) e a quelle europee relative al contatto con gli alimenti.

- **Rivestimento:** nitrile
- **Polso:** arrotolato
- **Spessore:** 0,06 mm
- **Lunghezza:** 240 mm ± 10
- **Colore:** blu violetto, blu

| Codice | Taglia | | € / cad. |
|---|---|---|---|
| AN0010020000M0S | S | 100 | **18,75** |
| AN0010020000M0M | M | 100 | **18,75** |
| AN0010020000M0L | L | 100 | **18,75** |
| AN0010020000MXL | XL | 100 | **18,75** |

# 15 NASTRIADESIVIIMBALLAGGIO



Nastri adesivi 1164-1173
Imballaggio 1173-1174







## Nastro mascheratura per uso professionale



### Caratteristiche

Nastro adesivo con supporto in carta crespata di colore avorio e massa adesiva solvente che fanno di questo prodotto il più adatto per lavori di ristrutturazione e verniciatura.

- **Tipo supporto:** carta semicrespata impregnata
- **Tipo adesivo:** gomma naturale
- **Spessore tot.:** 105my
- **Resistenza temp. max:** +/- 40°C

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100101019504 | 19mmx50mt | avorio | 96 | 1 | **1,63** |
| IMB100101025504 | 25mmx50mt | avorio | 72 | 1 | **2,09** |
| IMB100101030504 | 30mmx50mt | avorio | 60 | 1 | **2,74** |
| IMB100101038504 | 38mmx50mt | avorio | 48 | 1 | **3,26** |
| IMB100101050504 | 50mmx50mt | avorio | 36 | 1 | **4,24** |

## Nastro mascheratura per uso professionale TOP QUALITY



### Caratteristiche

Nastro adesivo per mascheratura ad uso professionale con supporto in carta crespata di colore giallo. Prodotto consigliato nei lavori edili interni e falegnamerie. Resiste fino a 60°C.

- **Tipo supporto:** carta semicrespata
- **Tipo adesivo:** gomma naturale
- **Spessore tot.:** 135my
- **Resistenza temp. max:** +/- 60°C

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100101019506 | 19mmx50mt | giallo | 96 | 1 | **1,97** |
| IMB100101025506 | 25mmx50mt | giallo | 72 | 1 | **2,12** |
| IMB100101030506 | 30mmx50mt | giallo | 60 | 1 | **2,55** |
| IMB100101038506 | 38mmx50mt | giallo | 48 | 1 | **3,17** |
| IMB100101050506 | 50mmx50mt | giallo | 36 | 1 | **4,12** |

## Nastro mascheratura per uso professionale TOP QUALITY 80



### Caratteristiche

Nastro adesivo per mascheratura ad uso professionale e carrozzeria con supporto in carta crespata di colore giallo. Adesivo solvente. Resiste alle alte temperature, fino a 80°C (100°C per 1/2 ora).

- **Tipo supporto:** carta semicrespata
- **Tipo adesivo:** gomma naturale
- **Spessore tot.:** 135my
- **Resistenza temp. max:** +/- 80°C

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100101019508 | 19mmx50mt | giallo | 96 | 1 | **2,24** |
| IMB100101025508 | 25mmx50mt | giallo | 72 | 1 | **2,89** |
| IMB100101030508 | 30mmx50mt | giallo | 60 | 1 | **3,47** |
| IMB100101038508 | 38mmx50mt | giallo | 48 | 1 | **4,37** |
| IMB100101050508 | 50mmx50mt | giallo | 36 | 1 | **5,64** |

## Nastro mascheratura per esterni



### Caratteristiche

Nastro adesivo specifico per uso esterno, su infissi e barche. La sua particolare composizione lo rende resistente a raggi U.V. per 7 giorni, a solventi ed acqua. Non lascia residui.

- **Tipo supporto:** carta semicrespata
- **Tipo adesivo:** gomma naturale
- **Spessore tot.:** 135my
- **Resistenza temp. max:** +/- 80°C

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10010102550E | 25mmx50mt | verde | 72 | 1 | **3,81** |
| IMB10010105050E | 50mmx50mt | verde | 60 | 1 | **4,21** |

## Nastro da imballo in PLP silenzioso



### Caratteristiche

Nastro adesivo in PLP per l'imballo con svolgimento silenzioso. Ottima resistenza alla temperatura.

- **Tipo supporto:** polipropilene
- **Tipo adesivo:** acrilico
- **Svolgimento:** silenzioso (trattamento corona)
- **Spessore tot.:** 47my
- **Carico di rottura:** 43 N/cm +/- 10%

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10010105066A | 50mmx66mt | avana | 36 | 1 | **2,06** |
| IMB10010105066B | 50mmx66mt | bianco | 36 | 1 | **2,06** |
| IMB10010105066T | 50mmx66mt | trasparente | 36 | 1 | **2,06** |

## Nastro rinforzato per imballo pesante



### Caratteristiche

Nastro adesivo trasparente con rinforzi in fibra di vetro "monodirezionale" o "tramato" (bidirezionale) con elevata resistenza alla trazione. Ideale per la chiusura di cartoni con contenuti molto pesanti.

| Codice | Misura | Tipo | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10010105050R | 50mmx50mt | monodirezionale | 18 | 1 | **9,26** |
| IMB10010105050T | 50mmx50mt | tramato | 50 | 1 | **12,31** |

## Nastro adesivo PLP



### Caratteristiche

Nastro adesivo trasparente in PLP; ideale per ufficio, casa, ecc.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100101001966 | 19mmx66mt | 96 | 1 | **0,74** |

## Dispenser per nastro adesivo PLP



### Caratteristiche

Dispenser da banco per nastro adesivo trasparente in PLP (66mt)

| Codice | Pz/Ct | | € / cad. |
|---|---|---|---|
| IMB10010100166D | | 1 | **12,82** |

## Nastro biadesivo in PLP



### Caratteristiche

Nastro biadesivo trasparente in PLP per uso professionale (applicazioni di targhe, placche segnaletiche, allestimenti fieristici, pannelli pubblicitari, ecc.)

- **Tipo supporto:** film in polietilene/tessuto sintetico
- **Tipo adesivo:** gomma sintetica
- **Liner:** carta siliconata su due lati
- **Spessore tot.:** 200my

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB10030105025B | 50mmx25mt | 18 | 1 | **5,28** |

## Nastro biadesivo strong



### Caratteristiche

Nastro biadesivo in PLP trasparente, tenuta extra forte, ad elevatissima adesività, per interni ed esterni, sostituisce viti e chiodi.

- **Tipo supporto:** film in polietilene
- **Tipo adesivo:** gomma sintetica

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100301015015 | 19mmx1,5mt | 24 | 1 | **6,78** |

## Nastro biadesivo in schiuma espansa



### Caratteristiche

Nastro biadesivo in polietilene espanso di elevato spessore, per uso professionale, per utilizzo interno; colore bianco.

- **Tipo supporto:** schiuma di polietilene a celle chiuse
- **Tipo adesivo:** acrilico
- **Liner:** carta siliconata bianca
- **Spessore tot.:** 800my

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB10030101905S | 19mmx5mt | 12 | 1 | **2,91** |
| IMB10030101925S | 19mmx10mt | 12 | 1 | **4,32** |

## Nastro americano telato multiuso



### Caratteristiche

Nastro americano altamente adesivo in tela politenata, per uso universale; impermeabile, particolarmente indicato per primi interventi su perdite d'acqua, riparazioni strappi su teli, ecc.

- **Tipo supporto:** PE tessuto sintetico
- **Tipo adesivo:** gomma sintetica/resina
- **Spessore tot.:** 165my

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10010105025N | 50mmx25mt | argento | 18 | 1 | **6,23** |
| IMB1001015025GR | 50mmx25mt | nero | 18 | 1 | **6,23** |

## Nastro isolante



### Caratteristiche

Nastro isolante ignifugo in PVC autoestinguente, ideale per le giunzioni di cavi elettrici e coprifili; per uso professionale. Resistente alla temperatura da -10°C a +105°C; disponibile in due diverse colorazioni.

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10040101925N | 19mmx25mt | nero | 50 | 1 | **1,98** |
| IMB10040101925R | 19mmx25mt | rosso | 50 | 1 | **1,98** |

## Nastro teflon




### Caratteristiche

Nastro adesivo in teflon per uso idraulico. Colore bianco.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100501011212 | 12mmx12mt | 200 | 1 | **0,63** |

## Nastro alluminio



### Caratteristiche

Nastro di alluminio adesivo in acrilico, di elevato spessore; impermeabile e resistente ai raggi UV; ideale per sigillare tubi di condizionamento, coppelle e lamiere. Trova largo impiego nell'industria frigorifera e di riscaldamento.

| Codice | Misura | Spessore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100501005050 | 50mmx50mt | 50my | 36 | 1 | **18,71** |

## Nastro autoagglomerante



### Caratteristiche

Nastro autoagglomerante flessibile ed elastico, ideale per la riparazione di tubi flessibili, per la giunzione di cavi elettrici (anche nel caso di pompe ad immersione), per l'unione di piante in fase di innesto.

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| CH8901101000025 | 25mmx3mt | nero | 18 | 1 | **9,00** |

## Nastro siliconico autoagglomerante



### Caratteristiche

Nastro siliconico autoagglomerante per la riparazione istantanea di perdite su tubi flessibili e rigidi; garantisce una tenuta ermetica immediata e assicura un isolamento fino a 1000V. Resiste a oli, acidi, solventi, nitrato di potassio, raggi UV e alte temperature (fino a 260°C).

| Codice | Misura | Colore | | € / cad. |
|---|---|---|---|---|
| CH890110100025S | 25mmx3mt | trasparente | 1 | **20,10** |

## STRONG REPAIR nastro riparatore in fibra di vetro



### Caratteristiche

Nastro riparatore in fibra di vetro, resistente alle alte temperature fino a 450°C. STRONG REPAIR è una maglia in fibra di vetro di alta qualità con una resina speciale che, attivandosi con l'acqua, consente la riparazione definitiva e duratura di qualsiasi materiale (legno, plastica, metallo, pvc, ecc.). Resistente all'acqua, all'alta pressione e alla temperatura (da +450°C a -45°C), STRONG REPAIR indurisce rapidamente come il ferro, garantendo delle riparazioni estremamente forti. Il suo utilizzo è molto semplice: dopo avere preventivamente pulito le superfici da trattare, immergere il nastro nell'acqua e avvolgere immediatamente con fermezza le parti.

| Codice | Misura | Colore | | € / cad. |
|---|---|---|---|---|
| CH8901101000520 | 5x200cm | nero | 1 | **35,70** |

## Guarnizione espansa adesiva



### Caratteristiche

Guarnizione espansa adesiva a cellule chiuse, impermeabile, imputrescibile, antigelo, anticondensa, a lunghissima durata. Ideale per sigillare tutti i tipi di serramenti. Colore nero.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100501015505 | 15mmx5mmx5mt | 40 | 1 | **6,50** |
| IMB100501015510 | 15mmx5mmx10mt | 40 | 1 | **6,50** |

## Nastro antiscivolo



### Caratteristiche

Nastro antiscivolo formato da un rivestimento uniforme di grana abrasiva depositata su uno strato polimero. Nastro di eccezionale qualità, resistente alle alte temperature.

- **Tipo supporto:** accoppiato di corindone
- **Tipo adesivo:** acrilico in solvente
- **Liner:** carta monopolitenata
- **Resistenza temp.:** -30°/+110°C
- **Durata nel tempo:** 5/7 anni in normali condizioni di usura

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10030102505N | 25mmx5mt | nero | 15 | 1 | **4,59** |

## Nastro adesivo fluorescente



### Caratteristiche

Nastro adesivo fluorescente e rifrangente, ad alta visibilità sia di giorno che di notte. Ideale per cantieri, ciclisti e motociclisti e per tutte le attività dove viene richiesta la massima visibilità. Fornito in box da due pezzi: bianco e rosso.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100501011925 | 19mmx2,5mt | 12 | 1 | **9,80** |

## Nastro segnaletico leggero



### Caratteristiche

Nastro segnaletico in polietilene, utilizzabile per la delimitazione di cantieri edili, lavori in corso e aree circoscritte. Colore bianco/rosso.

| Codice | Misura | Spessore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100301070200 | 70mmx220mt | 30my | 24 | 1 | **4,07** |

## Nastro segnaletico per lavori




### Caratteristiche

Nastro segnaletico per lavori da interro di tubi e cavi. In polietilene 40 my.

| Codice | Misura | Dicitura | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB1003011020CE | 10mmx200mt | Attenzione cavi elettrici | 20 | 1 | **8,88** |
| IMB1003011020TA | 10mmx200mt | Attenzione tubo acqua | 20 | 1 | **8,88** |
| IMB1003011020TG | 10mmx200mt | Attenzione tubo gas | 20 | 1 | **8,88** |

## Nastro segnaletico PVC



### Caratteristiche

Nastro segnaletico adesivo in PVC di alto spessore. Indispensabile nei magazzini e nel settore industriale in genere, dove occorre delimitare un'area di passaggio o di lavoro (nastro giallo/nero) oppure per segnalare zone pericolose, presenza di estintori ecc. (nastro bianco/rosso).

| Codice | Misura | Colore | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB10040105030G | 50mmx30mt | giallo/nero | 36 | 1 | **8,07** |
| IMB10040105030R | 50mmx30mt | bianco/rosso | 36 | 1 | **8,07** |

## Telo copritutto HDPE



### Caratteristiche

Telo copritutto multiuso in HDPE (polietilene 9my ad alta densità), in bobina; per uso professionale; protegge da vernice, pittura, acqua, polvere e umidità; resistente, riutilizzabile ed economico.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100201000425 | 4x25mt | 20 | 1 | **8,60** |

## Telo copritutto LDPE



### Caratteristiche

Telo copritutto multiuso in LDPE (polietilene a bassa densità). Protegge da vernice, pittura, acqua, polvere e umidità; resistente, riutilizzabile ed economico.

| Codice | Misura | Pz/Ct | | € / cad. |
|---|---|---|---|---|
| IMB100201000044 | 4x4mt | 90 | 1 | **1,56** |

## Film estensibile manuale



### Caratteristiche

Film estensibile trasparente, 23 my, in bobina, ad uso manuale. Per imballi industriali e generici.

| Codice | Misura | Ø interno | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100201005024 | 50cmx2,4kg | 50 mm | 6 | 1 | **17,85** |

## Film estensibile mini



### Caratteristiche

Bobine mini di film estensibile trasparente, multiuso. Per uso professionale e domestico.

| Codice | Misura | Ø interno | Pz/Ct | | € / cad. |
|---|---|---|---|---|---|
| IMB100201000100 | 10cm | 38mm | 60 | 1 | **a richiesta** |
| IMB100201000125 | 12,5cm | 38mm | 24 | 1 | **a richiesta** |







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Prezzi IVA esclusa

# 16 ARREDAMENTOINDUSTRIALECONTENITORI



Carrelli    1178-1180

Banchi da lavoro    1181-1182

Bauli e armadi    1183-1187

Contenitori portautensili     1187-1200

## Carrello a 3 ripiani



### Caratteristiche

Struttura in lamiera d'acciaio, con 3 piani di appoggio; 2 ruote fisse e 2 piroettanti (diametro 100mm); maniglia esterna in ferro.

- Colore: struttura grigia, ripiani arancioni.
- Dimensioni (mm): 820x435x790
- Dimensioni ripiani (mm): 435x820
- Peso (kg): 19,9
- Portata (kg): 210

| Codice | | € / cad. |
|---|---|---|
| SP000100500003P | 1 | **198,00** |

## Carrello a 3 ripiani LARGE



### Caratteristiche

Struttura in lamiera d'acciaio, con 3 piani di appoggio; 2 ruote fisse e 2 piroettanti (diametro 100mm); maniglia esterna in ferro.

- Colore: struttura grigia, ripiani arancioni.
- Dimensioni (mm): 1000x600x825
- Dimensioni ripiani (mm): 600x885
- Peso (kg): 28,2
- Portata (kg): 210

| Codice | | € / cad. |
|---|---|---|
| SP00010050003PL | 1 | **249,00** |

## Carrello portautensili a 5 cassetti, vuoto




### Caratteristiche

Struttura in lamiera d'acciaio, con 5 cassetti ad estrazione totale, con chiusura di sicurezza antiribaltamento, montati su guide telescopiche a sfera; piano di appoggio con tappetino millerighe antiscivolo; serratura di sicurezza centralizzata frontale; 4 ruote piroettanti di cui una con freno (diametro 100mm). Accessori opzionali: portaoggetti laterali ad aggancio rapido e porta rotolo con piano di appoggio ad aggancio rapido

- Dimensioni (mm): 680x500x915
- Dimensioni cassetti (mm): 1 cassetto 580x425x50 2 cassetti 580x425x93 2 cassetti 580x425x155
- Colore: struttura arancione, cassetti grigio
- Peso (kg): 60
- Portata statica (kg): 800
- Portata dinamica (kg): 210

| Codice | | € / cad. |
|---|---|---|
| SP000100500005V | 1 | **753,00** |

## Carrello portautensili a 7 cassetti, vuoto




### Caratteristiche

Struttura in lamiera d'acciaio, con 7 cassetti ad estrazione totale, con chiusura di sicurezza antiribaltamento, montati su guide telescopiche a sfera; piano di appoggio con tappetino millerighe antiscivolo; serratura di sicurezza centralizzata frontale; 4 ruote piroettanti di cui una con freno (diametro 100mm). Accessori opzionali: portaoggetti laterali ad aggancio rapido e portarotolo con piano di appoggio ad aggancio rapido

- Dimensioni (mm): 680x500x915
- Dimensioni cassetti (mm): 5 cassetti 580x425x50 1 cassetto 580x425x93 1 cassetto 580x425x155
- Colore: struttura arancione, cassetti grigio
- Peso (kg): 70
- Portata statica (kg): 800
- Portata dinamica (kg): 210

| Codice | | € / cad. |
|---|---|---|
| SP000100500007V | 1 | **789,00** |

## Portarotolo per carrello portautensili 5/7 cassetti



### Caratteristiche

Portarotolo laterale ad aggancio rapido per carrelli portautensili a 5 e 7 cassetti, in lamiera d'acciaio, completo di piano di appoggio.

| Codice | | € / cad. |
|---|---|---|
| SP0001005000071 | 1 | **48,00** |

## Vaschetta portaoggetti per carrello portautensili 5/7 cassetti



### Caratteristiche

Vaschetta portaoggetti laterale ad aggancio rapido per carrelli portautensili a 5 e 7 cassetti, in lamiera d'acciaio.

| Codice | | € / cad. |
|---|---|---|
| SP0001005000072 | 1 | **48,00** |

## Banco da lavoro BULL




### Caratteristiche

Piano in acciaio zincato, rinforzato con tre traverse longitudinali, resistente agli acidi ed alla corrosione. Bordi piegati antitaglio, scatolati e rinforzi con filettature premontate. Cassetti con guide a sfera ad estrazione totale, con serratura, impilabili. Coppia piedi in lamiera con 8 punti di saldatura e braccio di supporto piano superiore. Pannello portautensili in lamiera zincata, PERSONALIZZABILE Colonnine con vaschette porta minuteria estraibili. Carter laterali e posteriori per garantire una chiusura totale ed uno spazio ordinato. Lunghezza piano 1,5 mt o 2 mt.

| Codice | Lunghezza piano | Dimensioni | | € / cad. |
|---|---|---|---|---|
| AI0100200001500 | 1,5 mt | 1500x910x700 mm | 1 | **1.584,00** |
| AI0100200002000 | 2 mt | 2000x910x700 mm | 1 | **1.827,00** |

## Banco da lavoro COMPACT



### Caratteristiche

Banco da lavoro COMPACT, con piano superiore e ripiano inferiore in ferro zincato resistente agli acidi ed alla corrosione, rinforzato con due traverse a U sottostanti il ripiano inferiore, snello ma resistente. Lunghezza piano 1,5 / 1,9 mt. Fornito con 1 o 2 cassetti con guide telescopiche 35 mm, senza serratura. Colore: Blu, RAL5015.

| Codice | Descrizione | Lunghezza piano | | € / cad. |
|---|---|---|---|---|
| AI01002000015NS | COMPACT con 1 cassetto | 1,5 mt | 1 | **477,00** |
| AI01002000019NS | COMPACT con 2 cassetti | 1,9 mt | 1 | **687,00** |
| AI01002000000CS | Cassetto universale per COMPACT | - | 1 | **129,00** |

## DOUBLE TABLE - tavolo da lavoro e trabattello





### Caratteristiche

- Robustezza e stabilità.
- Gambe in alluminio rinforzato.
- Punti di rinforzo in acciaio e ABS.
- Piedini antiscivolo e agganci di sicurezza.
- Ampia superficie di lavoro in MDF.
- Altezza piano lavoro 800 mm.
- Piano di lavoro con buco per facilitare operazioni di foratura con il trapano.
- Angoli squadrati per agevolare l'inserimento di seghe circolari, morse, ecc.
- Goniometro tracciato sul piano di lavoro.
- Vaschetta portautensili laterale con supporto per tagli con sega.
- Portata trabattello fino a 240 Kg.
- Piano di appoggio trabattello in propilene.
- Altezza trabattello 550 mm.
- Semplice apertura e ripiegatura.
- Facilmente trasportabile, grazie alla robusta maniglia.
- Dimensioni: 140x62x13 cm.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SP00010050002DT | 1400x620x130 mm | 1 | **246,00** |

## Baule in acciaio zincato



### Caratteristiche

Spessore 1,5 mm, verniciato esteriormente a polveri epossidiche. Dotato di due ampie maniglie laterali, due chiusure di sicurezza predisposte per lucchetto e con cerniere autobloccanti a 90°. Disponibile in tre diverse dimensioni.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SP00200500080B2 | 80x30x35 cm | 1 | **204,00** |
| SP00200500120B2 | 120x40x45 cm | 1 | **345,00** |
| SP00200500140B2 | 140x50x50 cm | 1 | **387,00** |

## Baule in alluminio mandorlato



### Caratteristiche

Spessore 3 mm. Dotato di due ampie maniglie laterali, due chiusure di sicurezza predisposte per lucchetto e con cerniere autobloccanti a 90°. Disponibile in tre diverse dimensioni. Il baule di dimensioni più grandi viene fornito con un kit di inserti per avvitamento travi di sollevamento in dotazione.

| Codice | Dimensioni | | € / cad. |
|---|---|---|---|
| SP00200500082B1 | 82x33,50x30,50 cm | 1 | **330,00** |
| SP00200500122B1 | 122x43,50x40,50 cm | 1 | **525,00** |
| SP00200500142B1 | 142x53,50x50,50 cm | 1 | **765,00** |

## Contenitore multiuso TOP



### Caratteristiche

Contenitore multiuso TOP, realizzato in speciali plastiche anti-urto, con garanzia di 10 anni.

| Codice | Dimensioni | Capacità | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP002006001000T | 41,2x59,5x38,5 cm | 60 lt | nero/grigio | 1 | **44,10** |

## Contenitore multiuso per interni ed esterni



### Caratteristiche

Contenitore multiuso, utilizzabile sia in ambienti esterni che in ambienti interni; dotato di ruote, montaggio facile e rapido.

| Codice | Dimensioni | Capacità | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP002006001001E | 120x54x57 cm | 308 lt | grigio/nero | 1 | **98,25** |

## Armadietto ECO BOX BASIC



### Caratteristiche

Armadietto a due ante, per la raccolta differenziata dei rifiuti; utilizzabile sia in ambienti esterni che in ambienti interni. Montaggio facile e rapido.

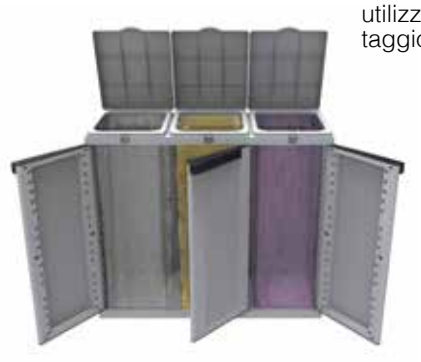
| Codice | Dimensioni | Capacità sacco | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060020002 | 68x39x88,7 cm | 110 lt | grigio | 1 | **129,90** |

## Armadietto ECO BOX PLUS

### Caratteristiche

Armadietto a tre ante, per la raccolta differenziata dei rifiuti; utilizzabile sia in ambienti esterni che in ambienti interni. Montaggio facile e rapido.





| Codice | Dimensioni | Capacità sacco | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060020003 | 102x39x88,7 cm | 110 lt | grigio | 1 | **144,15** |

## Armadio DOUBLE CAB

### Caratteristiche

Armadio a due ante, con quattro ripiani regolabili e due vaschette; utilizzabile sia in ambienti esterni che in ambienti interni, sistema modulare con montaggio lock-system, predisposizione per lucchetto (non incluso).





| Codice | Dimensioni | Capacità ripiano | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060030002 | 70x43,8x181,8 cm | 30 kg | grigio chiaro/grigio scuro | 1 | **283,50** |

## Armadio SINGLE CAB



### Caratteristiche

Armadio ad un'anta con quattro ripiani regolabili; utilizzabile sia in ambienti esterni che in ambienti interni, sistema modulare.

| Codice | Dimensioni | Capacità ripiano | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060030001 | 70x43,8x97,6 cm | 30 kg | grigio chiaro/grigio scuro | 1 | **178,50** |

## Armadio DOUBLE CAB LOW

### Caratteristiche

Armadio a due ante, con due ripiani regolabili e due vaschette; utilizzabile sia in ambienti esterni che in ambienti interni, sistema modulare, predisposizione per lucchetto (non incluso).



| Codice | Dimensioni | Capacità ripiano | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP002006003002L | 35x43,8x97,6 cm | 15 kg | grigio chiaro/grigio scuro | 1 | **162,00** |

## Armadio SINGLE CAB LOW



### Caratteristiche

Armadietto ad un'anta con due ripiani regolabili; utilizzabile sia in ambienti esterni che in ambienti interni, sistema modulare.

| Codice | Dimensioni | Capacità ripiano | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP002006003001L | 35x43,8x97,6 cm | 15 kg | grigio chiaro/grigio scuro | 1 | **110,70** |

## Cassetta portautensili BIG



### Caratteristiche

In polipropilene (PP); ampio vano inferiore portautensili, cestello interno adatto al trasporto di avvitatori a batteria, chiusure in metallo, lucchettabile, maniglia con impugnatura ergonomica antiscivolo, comode prese laterali per il trasporto in due persone.

| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000CG | 56x34x34 cm | 1 | **69,30** |

## Cassetta portautensili LONG



### Caratteristiche

In polipropilene (PP); ampio vano inferiore portautensili, cestello interno, chiusure in metallo, maniglia con impugnatura ergonomica antiscivolo, lucchettabile.

| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000CL | 66x29x27 cm | 1 | **58,20** |

## Cassetta portautensili SMALL



### Caratteristiche

In polipropilene (PP); ampio vano inferiore portautensili, cestello interno, chiusure in metallo, maniglia con impugnatura ergonomica antiscivolo, lucchettabile.

| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000CP | 51x29x28 cm | 1 | **40,80** |

## MULTI-BOX composto da 3 cassette (piccola, media, grande), con ruote



### Caratteristiche

MULTI-BOX è un sistema di cassette portautensili modulari in ABS antiurto, estremamente robuste, dal design innovativo, maneggevoli e facilmente trasportabili. Estremamente versatile, in grado di rispondere a qualsiasi esigenza ed utilizzabile in ogni settore: industria, artigianato, meccanica, utensileria, idraulica, ecc. Sistema di aggancio brevettato: appoggiando una cassetta sopra l'altra, con l'utilizzo di una sola mano, l'impilaggio avviene automaticamente, grazie ai ganci laterali provvisti di molle. L'interno è sigillato per garantire la totale protezione del contenuto da pioggia e umidità. La maniglia rientra a pressione nella sede del coperchio ed è scorrevole su binari consentendo quindi di distribuire il peso all'interno e mantenendo la cassetta in equilibrio. Il peso è supportato da 8 punti di giunzione presenti sul coperchio, questo rende MULTI-BOX in grado di sopportare carichi superiori rispetto alle cassette standard presenti sul mercato.

| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP00010050000MB | 464x335x716h mm | 1 | **291,00** |

## MULTI BOX cassetta piccola



| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000MB1 | 464x335x142h mm | 1 | **55,65** |

## MULTI BOX cassetta media



| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000MB2 | 464x335x212h mm | 1 | **68,70** |

## MULTI BOX cassetta grande



| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000MB3 | 464x335x362h mm | 1 | **82,20** |

## MULTI BOX cassetta grande completa di kit 2 pannelli sul fondo



| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP0001005000MB4 | 464x335x362h mm | 1 | **166,00** |

## Blister 5 divisioni per cassetta piccola MULTI BOX



| Codice | | € / cad. |
|---|---|---|
| SP0001005000BL5 | 1 | **10,20** |

## Blister 10 divisioni per cassetta piccola MULTI BOX



| Codice | | € / cad. |
|---|---|---|
| SP000100500BL10 | 1 | **10,20** |

## Blister 18 divisioni per cassetta piccola MULTI BOX



| Codice | | € / cad. |
|---|---|---|
| SP000100500BL18 | 1 | **10,20** |

## Blister 3-12 divisioni per cassetta piccola MULTI BOX



| Codice | | € / cad. |
|---|---|---|
| SP000100500BL31 | 1 | **14,70** |

## Spugna sagomata per coperchio cassetta MULTI BOX



| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP000100500MBS1 | 400x300x15h mm | 1 | **4,10** |

## Spugna sagomata per fondo cassetta MULTI BOX

| Codice | Dimensioni esterne | | € / cad. |
|---|---|---|---|
| SP000100500MBS2 | 400x300x15h mm | 1 | **2,87** |

## Pannello per coperchio cassetta MULTI BOX



| Codice | | € / cad. |
|---|---|---|
| SP000100500100P | 1 | **23,70** |

## Base in metallo MULTI BOX, con 4 ruote di cui 2 con freno



| Codice | | € / cad. |
|---|---|---|
| SP0001005000MBB | 1 | **75,90** |

## Cassetta MULTI STORE

### Caratteristiche

Cassetta organizer a scomparti con coperchio trasparente e maniglia.



| Codice | Dimensioni | Scomparti | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060040007 | 17,5x12,2x3 cm | 7 | nero | 1 | **5,10** |
| SP0020060040010 | 24,5x18x4 cm | 10 | nero | 1 | **7,35** |
| SP0020060040013 | 32,5x25x5 cm | 13 | nero | 1 | **14,25** |
| SP0020060040016 | 39,5x30,5x6 cm | 16 | nero | 1 | **21,75** |
| SP0020060040024 | 51x33x6 cm | 24 | nero | 1 | **33,90** |

## Cassetta BASIC STORE

### Caratteristiche

Cassetta organizer a scomparti con coperchio trasparente.



| Codice | Dimensioni | Scomparti | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060050016 | 24,3x18,6x3,8 cm | 16 | blu | 1 | **8,55** |
| SP0020060050010 | 24,3x18,6x3,8 cm | 10 | blu | 1 | **8,55** |
| SP0020060050012 | 34,5x25,2x5,5 cm | 12 | blu | 1 | **16,05** |

## Cassetta OUT BOX

### Caratteristiche

Cassetta organizer portaminuteria con coperchio trasparente e vaschette removibili.



| Codice | Dimensioni | Vaschette | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060060016 | 30x26x5,5 cm | 16 | nero/arancio | 1 | **21,75** |
| SP0020060060024 | 40x38x5,7 cm | 24 | nero/arancio | 1 | **33,90** |

## Cassettiera TOP CAB



### Caratteristiche

Cassettiera modulare trasportabile con maniglia ergonomica a scomparsa. Dotata di cassetti a scomparti con coperchio trasparente e chiusura brevettata, rimovibili e trasportabili separatamente.

| Codice | Dimensioni | Cassetti | Scomparti tot. | Colore | | € / cad. |
|---|---|---|---|---|---|---|
| SP0020060070048 | 39,1x19,7x33,4 cm | 4 | 32 | nero/giallo | 1 | **72,75** |
| SP0020060070049 | 39,1x29x33,4 cm | 4 | 36 | nero/giallo | 1 | **130,05** |

## Cassettiera BASIC CAB

### Caratteristiche

Cassettiera portaminuteria modulare, sovrapponibile ad incastro e trasportabile. Dotata di cassetti con divisiori mobili.





| Codice | Dimensioni | Cassetti | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060080016 | 27,9x15x19,5 cm | 16 | grigio sky/trasparente | 1 | **29,55** |
| SP0020060080025 | 40,5x15x24 cm | 25 | grigio sky/trasparente | 1 | **46,35** |
| SP0020060080042 | 40,5x15x32,5 cm | 42 | grigio sky/trasparente | 1 | **66,90** |

## Cassettiera LABEL CAB



### Caratteristiche

Cassettiera portaminuteria modulare, componibile ad incastro (sistema di assemblaggio verticale e orizzontale). Dotata di cassetti trasparenti con divisori e con portaetichetta frontale.

| Codice | Dimensioni | Cassetti | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060090012 | 20,8x13,2x20,8 cm | 16 | grigio scuro/trasparente | 1 | **44,25** |
| SP0020060090013 | 20,8x13,2x20,8 cm | 8 | grigio scuro/trasparente | 1 | **37,65** |
| SP0020060090014 | 20,8x13,2x20,8 cm | 4 | grigio scuro/trasparente | 1 | **32,55** |
| SP0020060090015 | 20,8x22,2x20,8 cm | 8 | grigio scuro/trasparente | 1 | **60,00** |
| SP0020060090016 | 20,8x22,2x20,8 cm | 4 | grigio scuro/trasparente | 1 | **60,00** |
| SP002006009016B | 20,8x22,2x20,8 cm | 4 | grigio scuro/trasparente | 1 | **71,25** |
| SP0020060090017 | 20,8x22,2x20,8 cm | 4 | grigio scuro/trasparente | 1 | **56,40** |
| SP0020060090018 | 20,8x22,2x20,8 cm | 2 | grigio scuro/trasparente | 1 | **48,60** |
| SP0020060090019 | 24,9x36,6x25 cm | 2 | grigio scuro/trasparente | 1 | **96,60** |
| SP002006009019B | 24,9x36,6x25 cm | 4 | grigio scuro/trasparente | 1 | **122,10** |
| SP0020060090021 | 24,9x31x37,5 cm | 8 | grigio scuro/trasparente | 1 | **125,10** |

## Cassettiera LABEL CAB GREEN



### Caratteristiche

Cassettiera portaminuteria modulare componibile ad incastro (sistema di assemblaggio verticale e orizzontale). Dotata di cassetti senza divisori, con portaetichetta frontale.

| Codice | Dimensioni | Cassetti | Colore | | € / cad. |
|---|---|---|---|---|---|
| SP0020060100004 | 36x32,5x20 cm | 4 | grigio scuro/verde | 1 | **113,85** |
| SP002006010004L | 48x32,5x20 cm | 4 | grigio scuro/verde | 1 | **125,85** |

## Vaschetta portaminuteria

### Caratteristiche

Vaschetta portaminuteria per conservare con ordine minuterie di tutti i tipi e per l'organizzazione di parti di ricambio, viti, bulloni, etc.



| Codice | Dimensioni | Colore | | € / cad. |
|---|---|---|---|---|
| SP0020060110002 | 5,1x9,2x7,9 cm | verde | 1 | **6,60** |
| SP0020060110004 | 9,2x10,7x7,9 cm | verde | 1 | **3,90** |
| SP0020060110006 | 10,7x13,8x7,9 cm | verde | 1 | **3,60** |
| SP0020060110007 | 10,5x27,9x7,9 cm | verde | 1 | **3,00** |

## Contenitore COMBO BOX

### Caratteristiche

Contenitore modulare multiuso, componibile ad incastro e sovrapponibile, con apertura a bocca di lupo, dotato di portaetichetta frontale.



| Codice | Dimensioni | Colore | | € / cad. |
|---|---|---|---|---|
| SP002006012000A | 10,4x16,5x7,6 cm | verde | 1 | **2,70** |
| SP002006012000B | 14,7x23,4x12,9 cm | verde | 1 | **6,60** |
| SP002006012000C | 21,8x23,4x12,9 cm | verde | 1 | **8,70** |
| SP002006012000D | 21x34,1x16,7 cm | verde | 1 | **12,30** |
| SP002006012000E | 30,7x50x19 cm | verde | 1 | **22,95** |
| SP002006012000F | 38,8x61x25 cm | verde | 1 | **48,00** |

## Contenitore COMBO BOX ECO



### Caratteristiche

Contenitore modulare multiuso, componibile ad incastro e sovrapponibile, con apertura a bocca di lupo, dotato di portaetichetta frontale. Realizzato con materiali 100% riciclati.

| Codice | Dimensioni | Colore | | € / cad. |
|---|---|---|---|---|
| SP0020060130110 | 10,9x10x5,3 cm | verde | 1 | **1,23** |
| SP0020060130111 | 11,1x16,8x7,6 cm | verde | 1 | **2,16** |
| SP0020060130112 | 16x25x12,9 cm | verde | 1 | **3,90** |
| SP002006013012B | 34,4x25x12,9 cm | verde | 1 | **8,40** |
| SP002006013012D* | 21x11 cm | verde | 1 | **2,16** |
| SP0020060130114 | 22x35,5x16,7 cm | verde | 1 | **8,70** |
| SP0020060130115 | 33,3x50,5x18,7 cm | verde | 1 | **20,10** |

* divisori

## Valigia in alluminio con bordi arrotondati



### Caratteristiche

Dotata di due pannelli portautensili con tasche, porta documenti, fondo termoformato con vaschetta portaminuteria.

| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500011 | 48x39x20 cm | 7200 gr | 1 | **606,00** |

## Valigia in alluminio per elettricista



### Caratteristiche

Bordi arrotondati, due pannelli portautensili con tasche, fondo termoformato con vaschetta portaminuteria.

| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500012 | 48x39x20 cm | 7200 gr | 1 | **237,00** |

## Valigia in ABS antiurto professionale




### Caratteristiche

Dotata di due pannelli portautensili con tasche, fondo con divisori removibili, ruote con cuscinetti a sfera, maniglia telescopica, serratura con combinazione a tra cifre.

| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500010 | 43,9x31,2x20 cm | 4000 gr | 1 | **447,00** |

## Borsa in tessuto tecnico con portaminuteria




### Caratteristiche

Alta resistenza, barra in metallo con impugnatura in spugna, cassetto con valigetta portaminuteria, tasche interne ed esterne, tappetino poggia ginocchio.

| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500013 | 42x24x26 cm | 2000 gr | 1 | **111,00** |

## Borsa portautensili in tessuto tecnico

### Caratteristiche

Alta resistenza, barra in metallo con impugnatura in spugna, tasche interne ed esterne, tappetino poggia ginocchio.




| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500014 | 42x26x30 cm | 2000 gr | 1 | **93,00** |

## Borsa portautensili per idraulico




### Caratteristiche

In cuoio, con supporti laterali antiurto.

| Codice | Dimensioni esterne | Peso | | € / cad. |
|---|---|---|---|---|
| SP000100500015 | 60x18x18 cm | 2100 gr | 1 | **258,00** |







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