

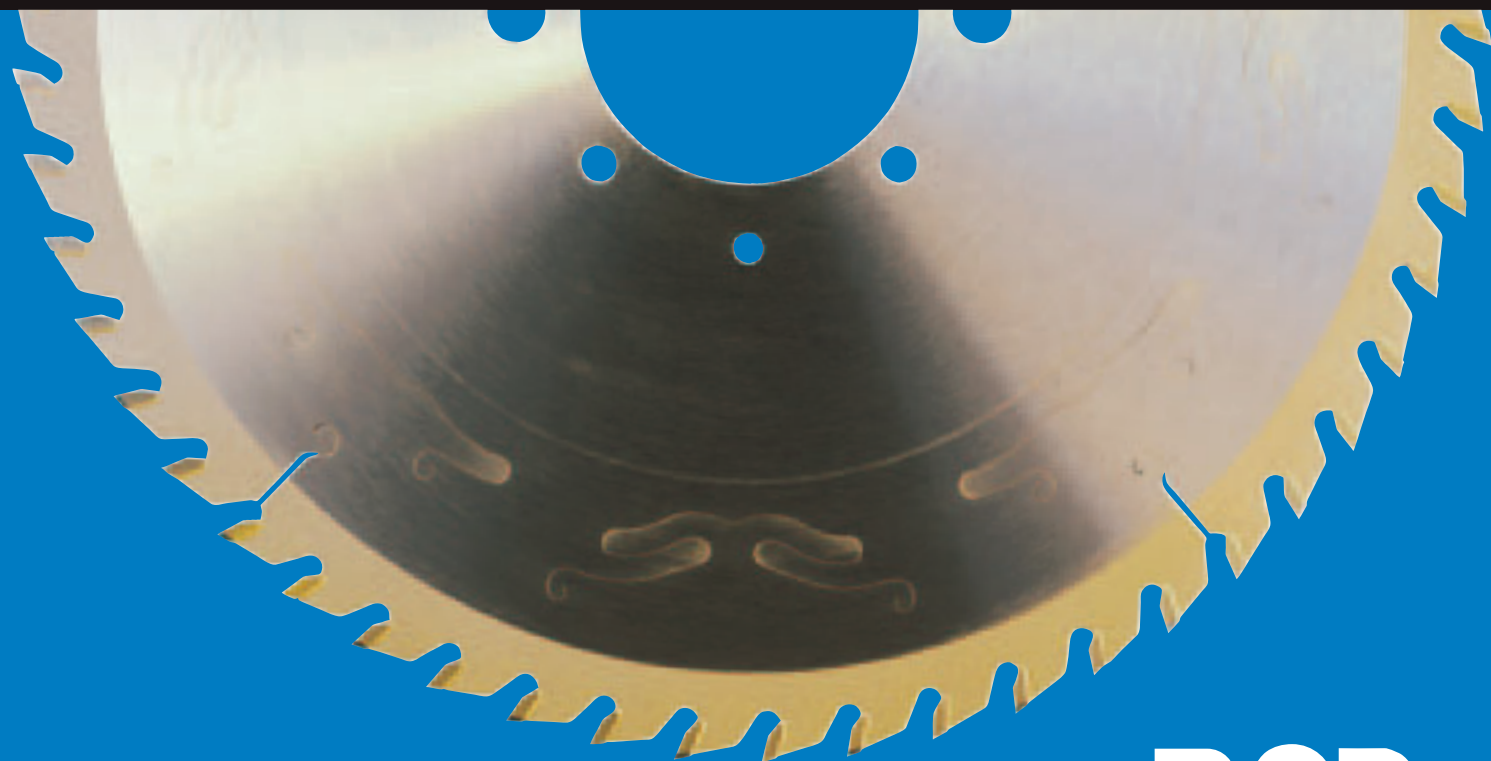


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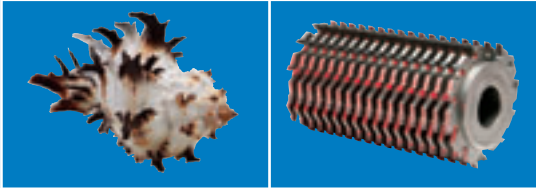
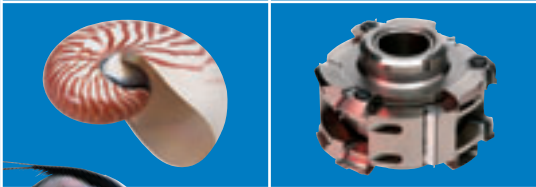
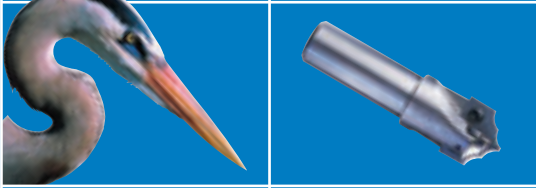
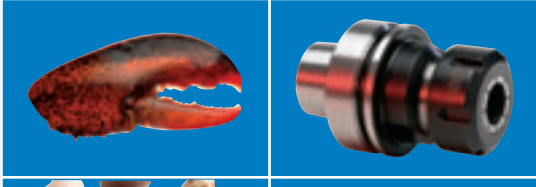
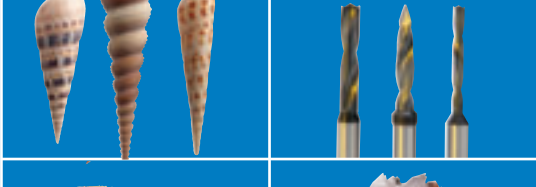

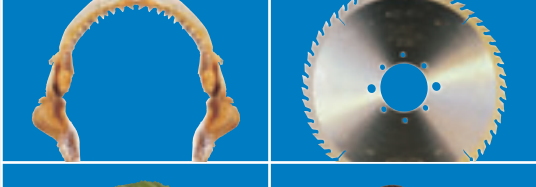
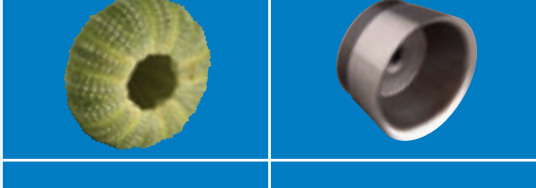



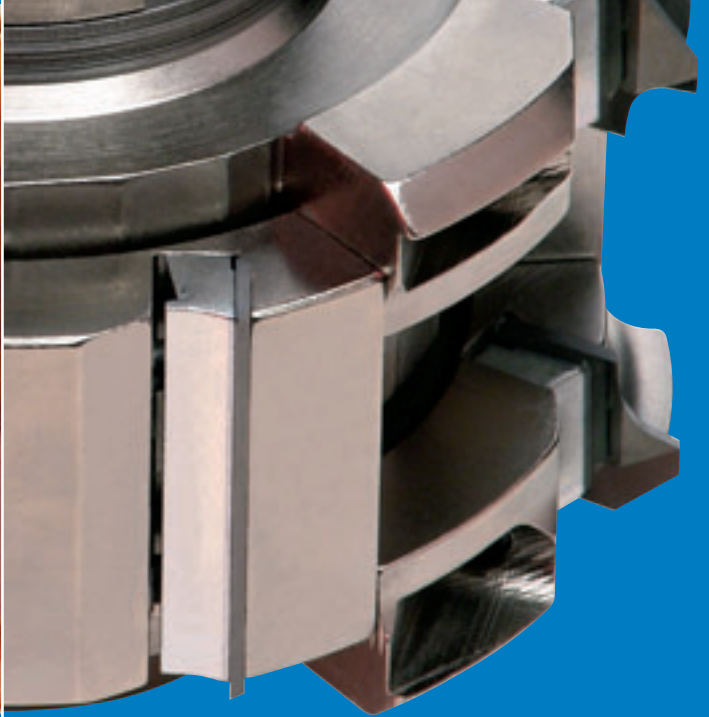
2013

Evolved **Experience**



BSP
GLI UTENSILI DEL LEGNO

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Introduzione

Introduction

Introduzione
Introduction



La storia della BSP inizia oltre 30 anni fa a Pesaro, nota in Italia per la diffusa fabbricazione di mobili. La tenace volontà di affermarsi spinge subito l'azienda a specializzare la sua produzione di utensili per il legno, migliorandone costantemente le caratteristiche innovative grazie ad un continuo investimento in macchine all'avanguardia nelle applicazioni tecnologiche.

Ciò concretizza un lusinghiero e crescente successo di mercato che si consolida nel 1996 in occasione del trasferimento della sede nel nuovo stabilimento, in cui vengono accentuati professionalità, organizzazione aziendale e perfezionamento produttivo. L'attenzione dei titolari si concentra nella selezione delle materie prime impiegate, nel controllo sistematico dei prodotti, nella qualità della gestione e del servizio: un impegno indispensabile per il presente ma rivolto soprattutto al futuro, per rendere la struttura flessibile ad anticipare le esigenze e a soddisfare le aspettative della clientela, nonché ad assicurare l'espansione del mercato.

BSP è tra le prime aziende italiane nell'applicazione del diamante cristallino su utensili per la lavorazione del legno. L'alta tecnologia, sia in fase progettuale sia in sede di produzione, garantisce strumenti ad alto rendimento, sempre rispondenti alle

esigenze d'uso.

La gamma di utensili in diamante rappresenta ora uno dei punti di forza dell'azienda che però non sottovaluta l'importanza delle lame circolari, offerte in una serie completa, affidabile, curata in ogni dettaglio. Il servizio di manutenzione e di affilatura è efficiente e tempestivo.

BSP, dopo aver fatto conoscere e apprezzare la sua produzione sul mercato italiano ed europeo, affronta i mercati internazionali forte della sua offerta competitiva, che coniuga in maniera ottimale qualità, prezzo e servizio.

Questo catalogo generale presenta l'intera gamma di prodotti BSP che testimoniano i brillanti risultati raggiunti dall'azienda grazie all'efficienza, alla precisione e all'esperienza ultra trentennale nel competitivo settore degli utensili per la lavorazione del legno.

Il servizio tecnico BSP è a disposizione della clientela per eventuali informazioni, a chiarimento e spiegazione su tutto ciò che riguarda gli utensili prodotti.

BSP ITALY
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MAX 6000
COD 6506004



Company profile

The history of BSP starts over 30 years ago in Pesaro, renown in Italy for its large furniture making industry. The tenacious will of the company to establish itself immediately urged it to specialise in the production of woodworking tools, constantly improving their innovative characteristics by means of continual investment in the most up to date machinery and technological applications.

This led to an envious and increasing market success which was consolidated in 1996 when the factory was moved to a new site where the accent was to be on professionalism, company organisation and perfection of the production process. The owners turned their attentions to careful selection of the raw materials used, to systematic product control, and to management and service quality: an indispensable commitment for the present but aimed above all at the future, to create a flexible structure capable of satisfying customer needs and expectations, as well as ensuring market expansion.

BSP was one of the first Italian companies to use crystalline diamonds in woodworking tools. High technology, in both the design and production stages guarantees high performance instruments which

fully satisfy all working needs. The range of diamond tools now represents one of the company's strengths although the importance of circular sawblades is never underestimated, with a full range of tools on offer which are reliable and accurate down to the last detail. The maintenance and sharpening service is fast and efficient.

Having made its production known on the Italian and European markets, BSP now sets about tackling the international markets backed up by the certainty of its competitiveness, combining optimum quality, price and service.

This general catalogue presents the complete range of BSP products which act as proof of the exceptional results achieved by the company based on efficiency, precision and over 30 years' experience in the competitive field of woodworking tool manufacture.

BSP technical assistance is available to customers for eventual information, clarification and explanation regarding all aspects of the tools produced.

Condizioni Generali di Vendita

General Sale Conditions

Prezzi: I prezzi si intendono per utensili di costruzione di serie. Eventuali modifiche, consensualmente concordate, dovranno risultare per iscritto.

Spedizione: La spedizione della merce si intende effettuata a rischio e pericolo del committente.
In caso di avarie, manomissioni durante il trasporto il destinatario dovrà rivolgersi esclusivamente ai vettori.
Eventuali reclami alla fornitura dovranno, sotto pena di decadenza, essere inoltrati entro 8 giorni dal ricevimento della merce.

Consegne: I termini di consegna concordati o riportati sulle conferme d'ordine sono indicativi e non sono impegnativi ma subordinati sempre alla fabbricazione. Essi non costituiscono diritto all'annullamento dell'ordine nel caso la consegna non potesse essere rispettata per cause non dipendenti dalla nostra volontà.

Pagamenti: Tutti i pagamenti devono essere effettuati direttamente alla sede. Non sono ammessi arrotondamenti o trattenute arbitrarie.

Garanzia: Tutti gli utensili sono garantiti sotto ogni aspetto, purché non presentino inconvenienti dovuti ad errato uso, evidente manomissione o impiegati in condizioni non consentite dal tipo di materiale usato per la loro fabbricazione.

Esempio di ordinazione: Per migliorare e velocizzare lo svolgimento degli ordini, Vi preghiamo di eseguire le ordinazioni usando il codice dell'articolo richiesto o, in caso di merce speciale, di fare sempre riferimento al codice dell'articolo più simile.

Prices: Prices shown are for standard production series tools. Any eventual modifications, previously agreed to, must be verified in writing.

Shipping: Goods are shipped at the customer's own risk and responsibility.
In the case of damage or tampering during transportation the consignee must direct all complaints to the forwarder.
Any eventual complaints regarding the goods supplied must be made strictly within 8 days of receipt of goods.

Delivery times: The delivery times agreed and shown on the order confirmation are approximate and not binding but subject to production schedules.
No right to cancel the order shall be granted in the case of these delivery times not being kept due to reasons beyond our control.

Payment: All payments must be made directly to head office. No rounding off of amounts or deductions are admissible.

Warranty: All tools are guaranteed in every aspect, as long as they do not show evidence of improper use, obvious misuse or have been used under conditions unsuitable for the type of material they were made from.

Ordering procedure: To speed up and make ordering more efficient, you are kindly requested to place orders using the correct code for the item required or, in the case of special purpose items, with reference to the code of the most similar article.

Determinazione dei Parametri di Lavoro

Determining Work Parameters

Grado di finitura della superficie lavorata e velocità di avanzamento

Il grado di finitura di una superficie lavorata a parità di condizioni di lavoro, dipende:

- dalla precisione dell'utensile (minime tolleranze fra i taglienti)
- dalla qualità della macchina

Oltre a questo per ottenere una superficie più o meno finita, si deve agire variando la velocità di avanzamento in funzione della velocità di rotazione, del numero di denti e del grado di finitura **FZ** richiesto.

Inoltre per ottenere un risultato ottimale della lavorazione è indispensabile una corretta scelta dei seguenti fattori:

- velocità periferica (o velocità di taglio)
- velocità di avanzamento
- numero dei taglienti

$$V_c = (D \times \pi \times n) : (1000 \times 60) \text{ [m/s]}$$

velocità periferica-(velocità di taglio)

$$F_z = V_f : (n \times Z) \times 1000 \text{ [mm]} \text{ avanzamento del dente}$$

$$t = F_z^2 : (4 \times D) \text{ [mm]} \text{ profondità del solco}$$

dove:

D = diametro dell'utensile

n = numero di giri

Z = numero dei taglienti

V_f = velocità di avanzamento

F_z = avanzamento per tagliente (vedi Fig.1)

V_c = velocità periferica (o velocità di taglio)

t = profondità del solco

In base ai parametri di lavorazione da adottare e con l'ausilio delle formule indicate e dei diagrammi (A - B) riportati nelle pagine seguenti, si può determinare con buona approssimazione teorica l'utensile più adatto.

Level of finish on the surface being processed and feed rate

The level of finish on a surface being processed under identical working conditions depends on:

- tool precision (minimum tolerances between teeth)
- machine quality

In addition, to obtain different levels of surface finish, the feed rate must be adjusted in relation to tool rpm, the number of teeth and the level of **FZ** finish required.

Furthermore, optimum results can only be obtained on the basis of a correct choice of the following factors:

- peripheral speed (or cutting speed)
- feed rate
- number of teeth

$$V_c = (D \times \pi \times n) : (1000 \times 60) \text{ [m/s]}$$

peripheral speed-(cutting speed)

$$F_z = V_f : (n \times Z) \times 1000 \text{ [mm]} \text{ tooth advance}$$

$$t = F_z^2 : (4 \times D) \text{ [mm]} \text{ channel depth}$$

where:

D = tool diameter

n = number of revolutions

Z = number of teeth

V_f = feed rate

F_z = tooth advance (see Fig.1)

V_c = peripheral speed (or cutting speed)

t = channel depth

On the basis of the machining parameters to be used and with the aid of the formulae and the diagrams shown (A - B) on the following pages, the most suitable tools can be determined to a good theoretical level.

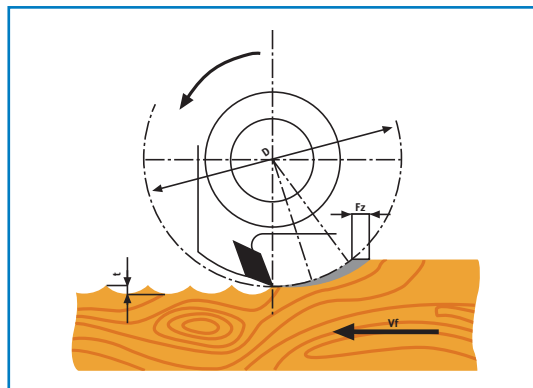


Fig.1

Determinazione dei Parametri di Lavoro

Determining Machining Parameters

Definizione della velocità di taglio in relazione al numero di giri “n” e al diametro “D”

Defining the cutting speed in relation to the number of revolutions “n” and the diameter “D”

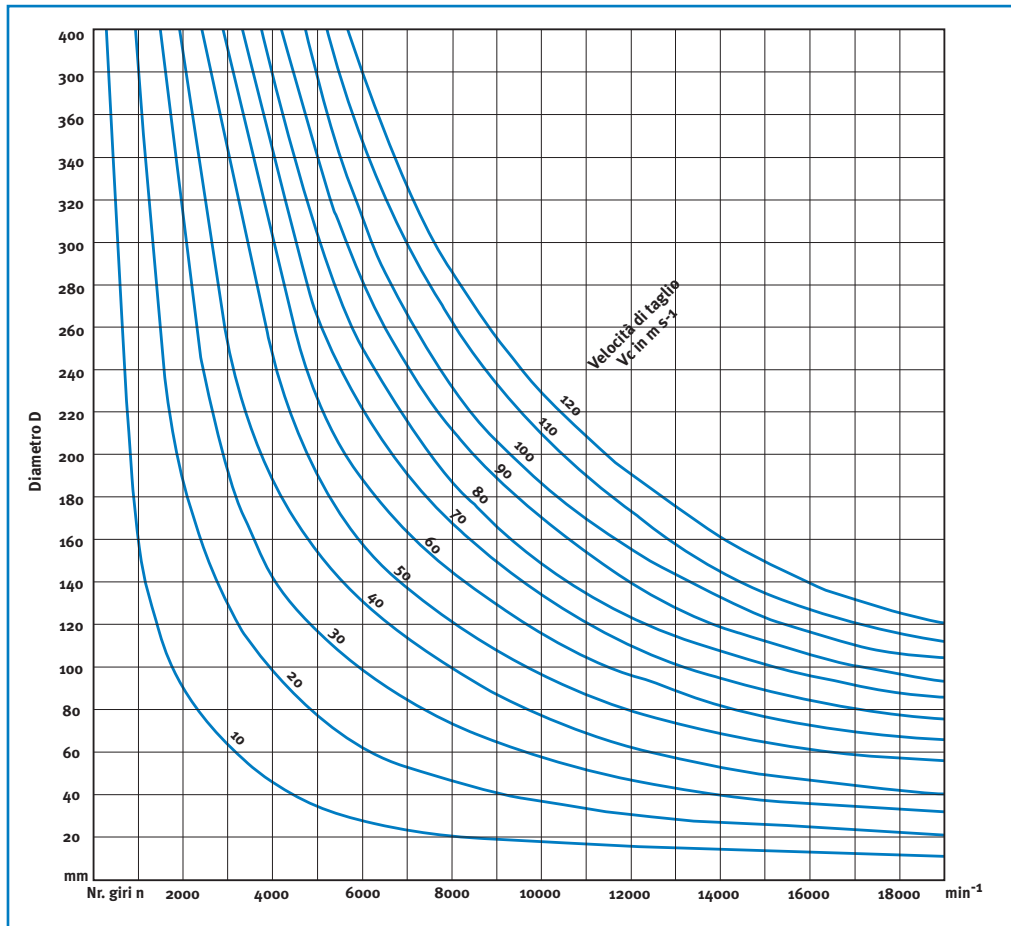


Diagramma A

Le linee curve rappresentano la velocità di taglio espressa in [m/s], ottenute dal numero di giri e dal diametro dell’utensile. Conoscendo questi due dati è possibile rilevare il numero di giri dell’utensile. Allo stesso modo si può rilevare il diametro più adatto conoscendo il numero di giri e la velocità di taglio.

The curved lines represent the cutting speed expressed in [m/s], obtained by the number of revolutions and the tool diameter. Given these two parameters it is possible to calculate the number of tool revolutions. In the same way the most suitable diameter can be obtained once the number of revolutions and the cutting speed are given.

Valori indicativi per le velocità di taglio

| | Frese | Frese | Lame |
|---|--------------|-------------|-------------|
| Materiale | HSS [m/s] | HM [m/s] | HW [m/s] |
| Legni teneri | 50ff80 | 60ff90 | 70ff100 |
| Legni duri | 40ff60 | 50ff80 | 70ff90 |
| Truciolari | - | 60ff80 | 60ff80 |
| Multistrati | - | 60ff80 | 60ff80 |
| Multistrati duri | - | 40ff60 | 60ff80 |
| Truciolari con rivestimento plastico | - | 40ff60 | 60ff120 |

Esempi:

1. Teste portacoltelli D = 140mm, n=10000giri/min ‘ Vc = 74m/s
2. Frese D = 120mm Vc = 80m/s ‘ n = 12500giri/min
3. Frese per pantografo n 18000giri/min Vc = 50m/s ‘ D = 58mm

Examples:

1. Cutterheads D = 140mm, n = 10000r.p.m. ‘ Vc = 74m/s
2. Cutters D = 120mm, Vc = 80m/s ‘ n = 12500r.p.m.
3. Routing disc cutters n = 18000r.p.m. Vc = 50m/s ‘ D = 58mm

Determinazione dei Parametri di Lavoro

Determining Machining Parameters

Definizione di: velocità di avanzamento, avanzamento per dente, numero di giri, numero dei taglienti

Defining: feed rate, tooth advance speed, number of revolutions, number of teeth

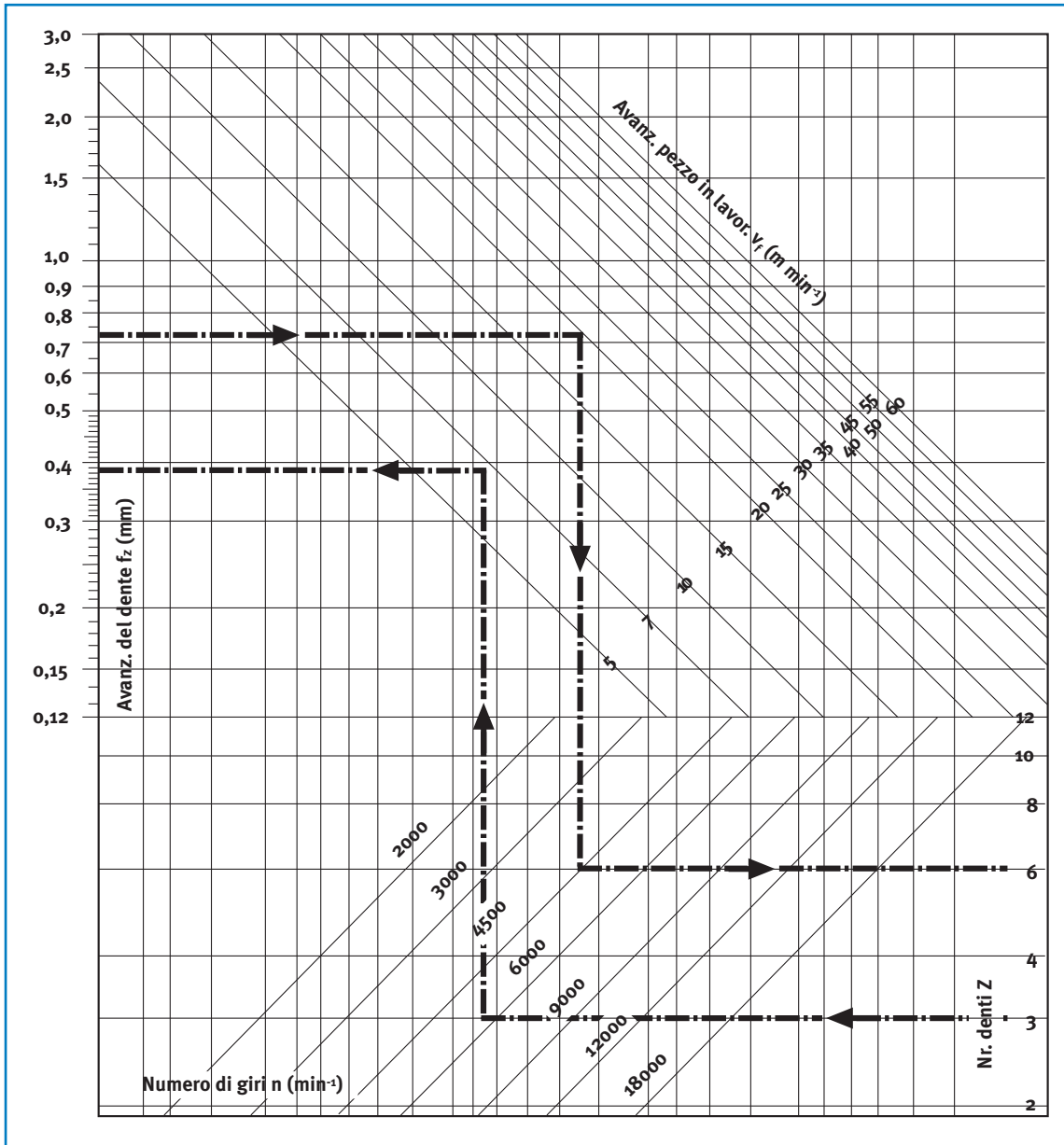


Diagramma B

Esempi:

1. Volendo ottenere una finitura di media qualità "Fz = 1", avendo un avanzamento del pezzo da lavorare Vf = 20m/s ed un numero di giri dell'utensile n = 6000 giri/min si determina che il numero di taglienti ideale per questo utensile è Z = 3.
2. Avendo una fresa Z = 6, volendo lavorare ad un numero di giri n = 4500 giri/min con un avanzamento Vf = 20m/s si determina che l'avanzamento per dente Fz = 0.73 quindi una finitura fine.

Examples:

1. Wishing to obtain an average quality finish "Fz = 1", with a feed rate of Vf = 20m/s and a tool rpm of n = 6000 rpm it can be seen that the ideal number of teeth for this tool is Z = 3.
2. With a Cutter of Z = 6, wishing to obtain a tool rpm of n = 4500 rpm with a feed of Vf = 20m/s it can be calculated that the tooth advance is Fz = 0.73 thereby giving a fine finish.

Direzione di Taglio nella Lavorazione del Legno

Cutting Direction in Woodworking

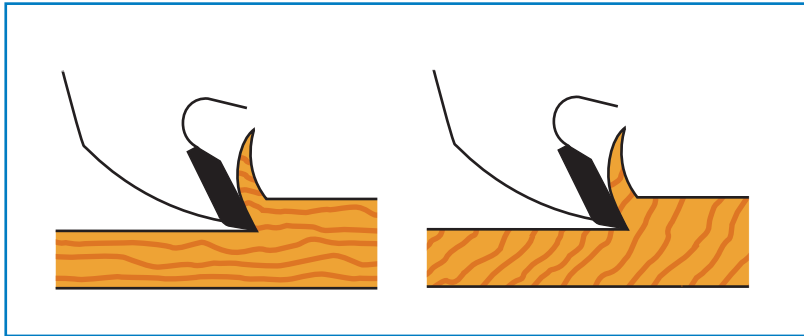


Fig. 2

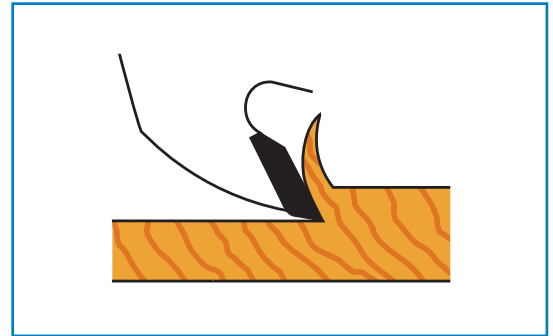


Fig. 3

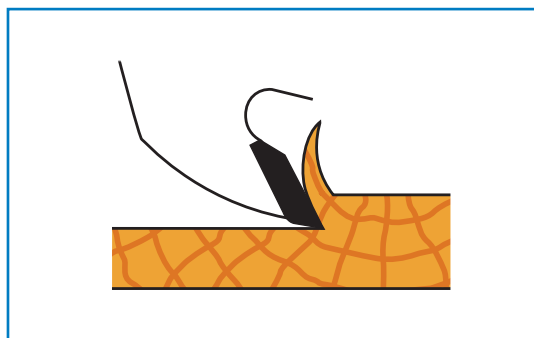


Fig. 4



Fig. 5

a) Taglio lungo vena – Fig. 2-3

1. A favore della venatura : lavorazione facile, con buona qualità della superficie lavorata. Possibile un avanzamento veloce.
2. Contro la venatura : lavorazione difficoltosa per causa delle scheggiature. Questo tipo di lavorazione andrebbe evitata, nel peggiore dei casi invertendo il senso di rotazione dell'utensile.

b) Taglio attraverso vena – Fig. 4

Lavorazione facile e leggera possibile un avanzamento veloce con qualità della superficie lavorata leggermente ruvida.

c) Taglio di testa – Fig. 5

Lavorazione difficile che richiede una elevata forza di taglio e di conseguenza un avanzamento lento, con qualità della superficie lavorata leggermente ruvida a causa della rottura delle fibre.

a) Cutting with the grain – Fig. 2-3

1. With the grain: easy conditions, with good quality of already machined surface. Fast feed is possible.
2. Against the grain : hard conditions due to chipped surface. This type of machining should be avoided, in the most extreme cases by inverting the direction of tool rotation.

b) Cutting across the grain – Fig. 4

Under easy and light conditions a fast feed rate is possible with a slightly rough quality of already machined surface.

c) Cutting across the head – Fig. 5

Difficult conditions which require considerable cutting force and consequently a slow feed, with a slightly rough already machined surface due to fibre breakdown.

Asportazione del Truciolo Removal of Shavings

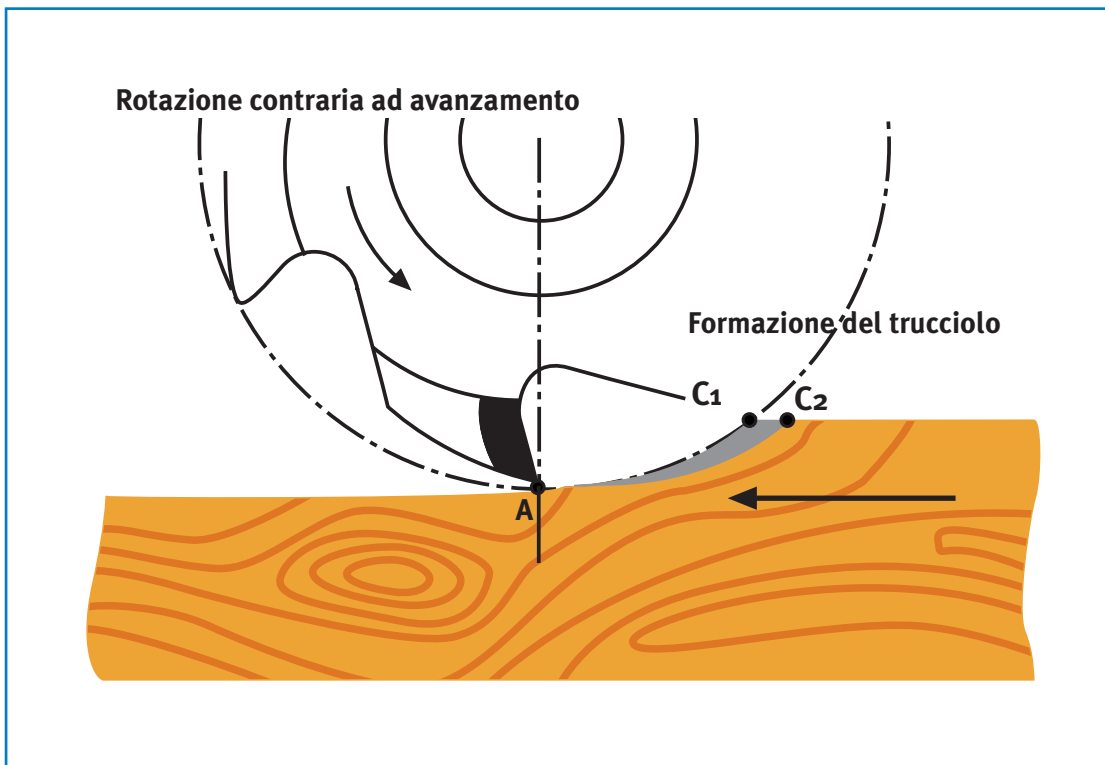


Fig. 6

1. ROTAZIONE CONTRO LA DIREZIONE DI AVANZAMENTO – Fig. 6

Per l'avanzamento manuale è ammessa soltanto la rotazione contraria.

Il movimento di taglio dell'utensile e l'avanzamento del materiale da lavorare sono opposti. Si inizi con spessore del truciolo uguale a o punto (A)

Il tagliente tocca prima il legno poi il truciolo diventa più stabile e più spesso (C1 - C2)

La formazione del truciolo avviene con un procedimento di rottura e scheggiatura del legno, il cosiddetto preclivaggio

Vantaggi

Con il preclivaggio si riduce la forza di taglio e la potenza ottenendo una maggior durata. E' necessario avere un minor assorbimento di potenza.

Svantaggi

Se la vena ed il senso della scheggiatura sono irregolari, si può avere una superficie ruvida e una rottura delle fibre.

Soprattutto nella lavorazione in centri a controllo CNC dove la direzione di avanzamento e quella delle fibre cambia continuamente, sono necessarie fresature speciali, per evitare angoli di taglio sconvenienti. Rompendo il truciolo davanti al tagliente si riduce il preclivaggio.

1. ROTATION AGAINST FEED DIRECTION – Fig.6

For manual feed, only rotation contrary to the workpiece is allowed.

The tool cutting direction and the feed of the material being machined are contrary to each other.

Start with a zero shaving thickness at point (A)

The tool first touches the wood, then the shavings become more stable and thicker (C1 - C2)

Shavings are formed by the wood breaking down and chipping, otherwise known as pre-cleavage.

Advantages

With pre-cleavage the cutting force and power are reduced to obtain longer duration.

A lower level of power absorption is necessary.

Disadvantages

If the grain and the direction of chipping are irregular, a rough surface and fibre breakdown can occur.

Especially in the case of CNC work centres where the feed direction and fibre are constantly changing, special cuts are necessary in order to avoid awkward cutting angles. Breaking down the shavings in front of the tool reduces pre-cleavage.

2. ROTATION WITH THE FEED DIRECTION – Fig. 7

Asportazione del Truciolo Removal of Shavings

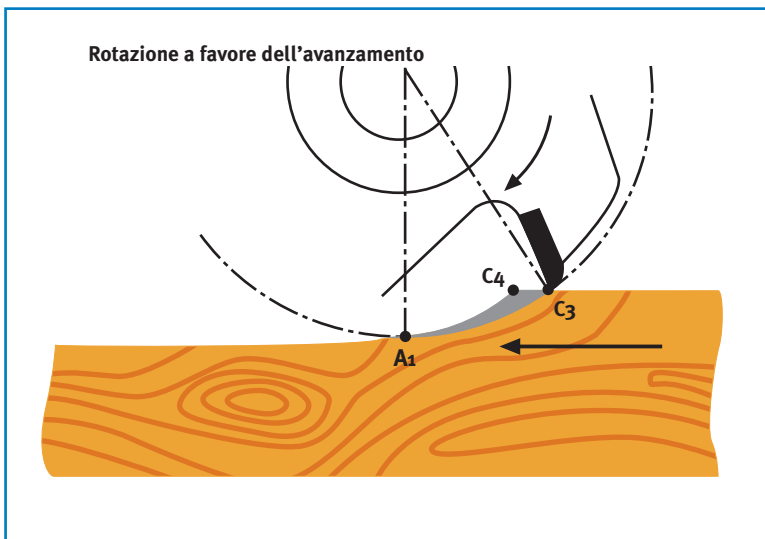


Fig. 7

2. ROTAZIONE A FAVORE DEL SENSO DI AVANZAMENTO – Fig. 7

Solo per avanzamento meccanico, il movimento di taglio dell'utensile ed il senso di avanzamento del materiale da lavorare hanno la stessa direzione. Il tagliente crea nella sua curva un truciolo spesso (C₃ - C₄) che a fine curva si assottiglia fino a o punto (A₁).

Il tagliente avanzando nel legno, crea un truciolo sempre più sottile e morbido, il pericolo di preclivaggio si riduce.

Vantaggi

Anche con venature irregolari si ottengono superfici di qualità

Svantaggi

A causa di un preclivaggio ridotto, il tagliente si consuma di più ed in fretta. In questi casi sono necessarie fresature speciali (Fig. 8), rompendo il truciolo davanti al tagliente si reduce il preclivaggio.

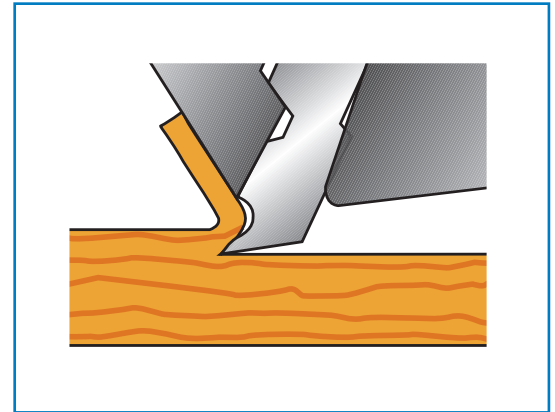


Fig. 8

Only for mechanical feeds, the tool cutting direction and the feed of the material being machined are the same.

The cutter creates a thick shaving along its curve (C₃ - C₄) which at the end of the curve thins out to zero point (A₁).

The cutter creates an increasingly thinner and softer shaving as it runs through the wood, the danger of pre-cleavage is lessened.

Advantages

Quality surfaces are obtained even with irregular grains.

Disadvantages

Because of less pre-cleavage, the cutter wears more and more quickly. In these cases special cuts are needed (Fig.8), to breakdown the shavings in front of the cutter to reduce pre-cleavage.

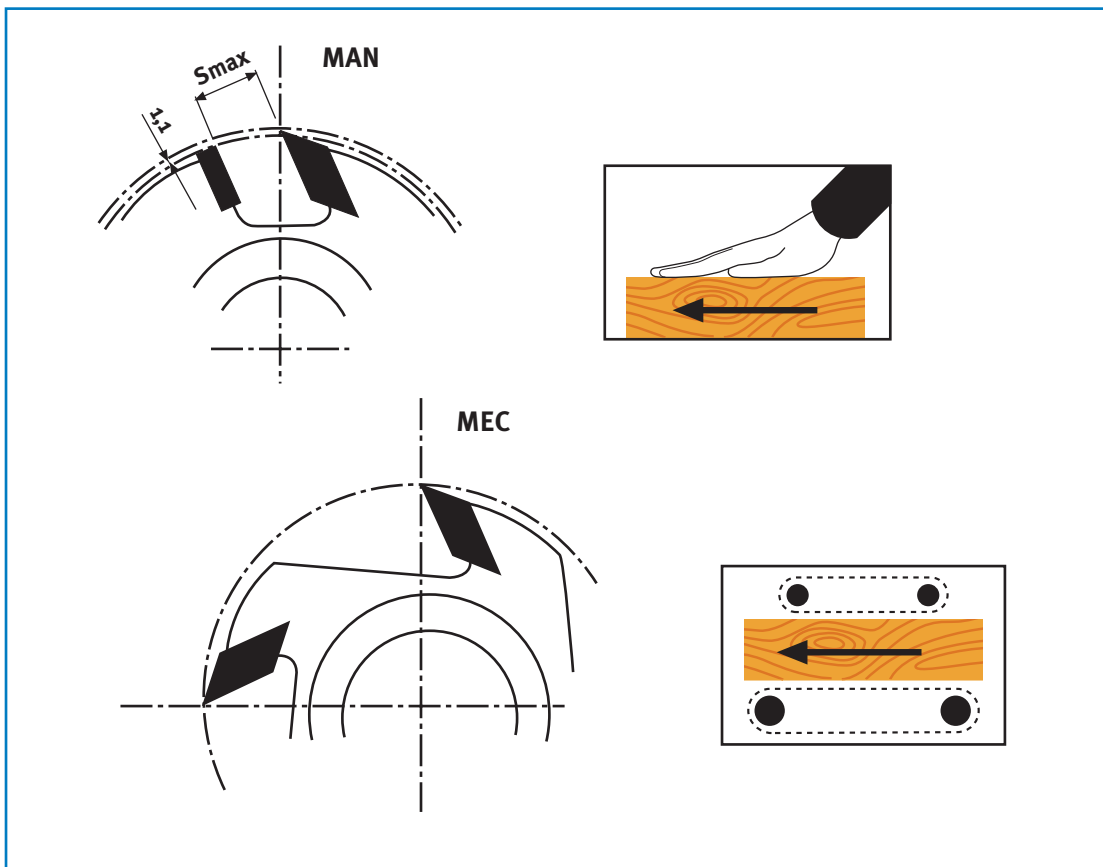


Fig. 9

Fig. 10

Gli utensili per la lavorazione del legno, se utilizzati in modo inopportuno è uno strumento pericoloso ed un rischio per l'operatore, tanto più se si pensa all'elevato numero di giri di esercizio e data la presenza di parti molto taglienti.

La BSP è molto attenta a queste problematiche ed è per questo che mette l'alta tecnologia della quale dispone al servizio della sicurezza, utilizzando materiali qualificati e sempre alla ricerca del meglio, progettando i propri utensili sempre in conformità alle norme antinfortunistiche europee.

In base all'utilizzo gli utensili sono classificati in due categorie :

- utensili per lavorazione con avanzamento manuale (Fig. 9)
- utensili per la lavorazione con avanzamento meccanico (Fig. 10)

Le norme antinfortunistiche prevedono degli accorgimenti per quanto riguarda la loro costruzione di utensili e avanzamento manuale;

- forma geometrica della fresa chiusa
- realizzazione del limitatore di truciolo
- vano di scarico limitato
- marcatura

Woodworking tools, if used improperly, can constitute a danger and risks to the operator, ever more so because of the high number of revolutions and given the presence of many sharp parts.

BSP is very aware of such problems and for this reason puts its high technology to the service of safety, using suitable materials and constantly striving for the best, always designing its tools to conform to European safety norms.

Tools are classified into two categories according to their use:

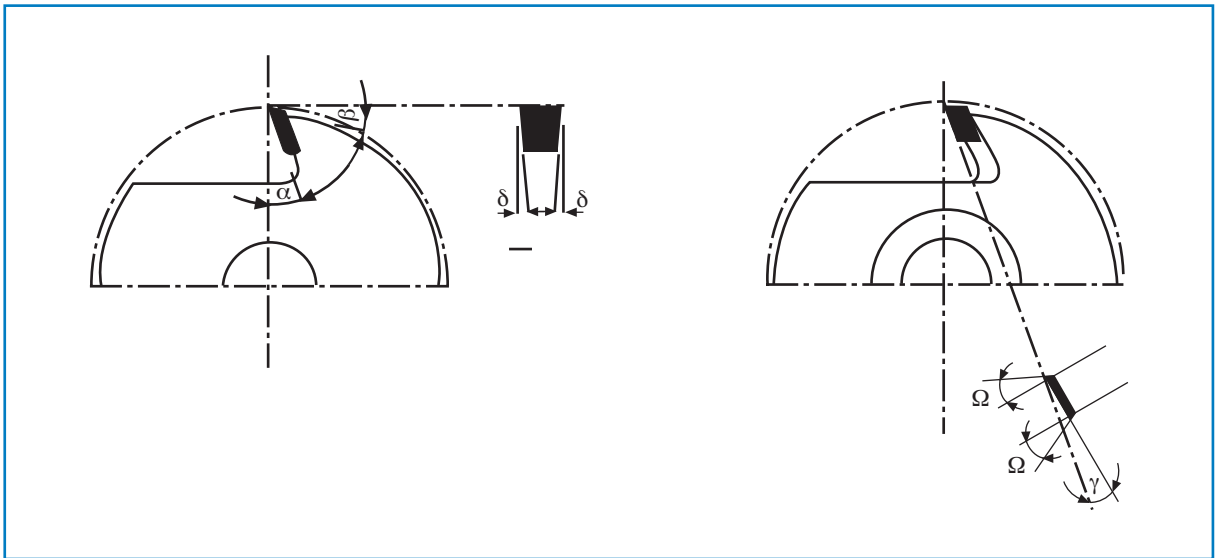
- tools to be used with manual feed systems (Fig. 9)
- tools to be used with mechanical feed systems (Fig. 10)

Safety standards set down certain specifications governing the manufacture of tools for manual feeds;

- the cutter must have a closed geometrical shape
- the presence of a shaving limiter
- limited discharge compartment
- tagging

Definizione degli Angoli di Taglio

Defining Cutting Angles



taglienti sono progettati in base al legno da lavorare e ai dati di riferimento per il loro impiego, ed è importante definirli accuratamente di volta in volta per ottenere ottimi risultati sia di qualità che di durata dell'utensile stesso.

- α = angolo di spoglia inferiore (o di taglio)
- β = angolo di spoglia superiore
- γ = angolo assiale
- δ = angolo di spoglia radiale (o laterale)
- Ω = angolo di spoglia tangenziale

The cutting angles and the material the cutting element is made of are designed according to the wood to be machined and the reference data for their use. It is important to define these accurately each time to obtain optimum results in terms of both quality and durability of the tool itself.

- α = lower rake (or cutting angle)
- β = upper rake
- γ = axial-rake
- δ = radial rake (or side angle)
- Ω = tangential radial rake

Indicazioni per l'Affilatura Sharpening Guide

Rasanti: Si affilano sui lati, devono sporgere di circa 0.2ffio.3mm dal tagliente. (Fig. 11)

Fresa per avanzamento manuale:

Si affilano in modo chela sporgenza originale dal tagliente al limitatore rimanga inalterata, senza ulteriori modifiche al vano di scarico se non quelle dovute ad una normale affilatura. (Fig. 12)

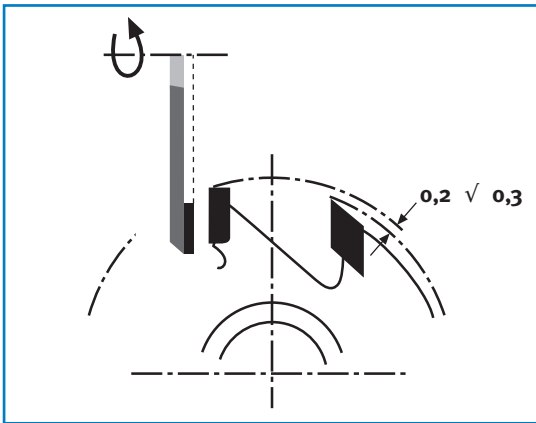


Fig. 11

Affilare l'utensile quando il filo del tagliente è usurato di circa 0.2mm, oppure quando l'assorbimento di potenza da parte della macchina aumenta o quando la qualità della lavorazione non è accettabile.

Frese sagomate: Se si vuole mantenere l'angolo di spoglia inferiore (o di taglio) invariato si verificherà una leggera differenza di sagoma rispetto alla precedente (fig. 13), altrimenti affilando parallelamente al petto del dente si otterrà un aumento dell'angolo di spoglia superiore (fig. 14).

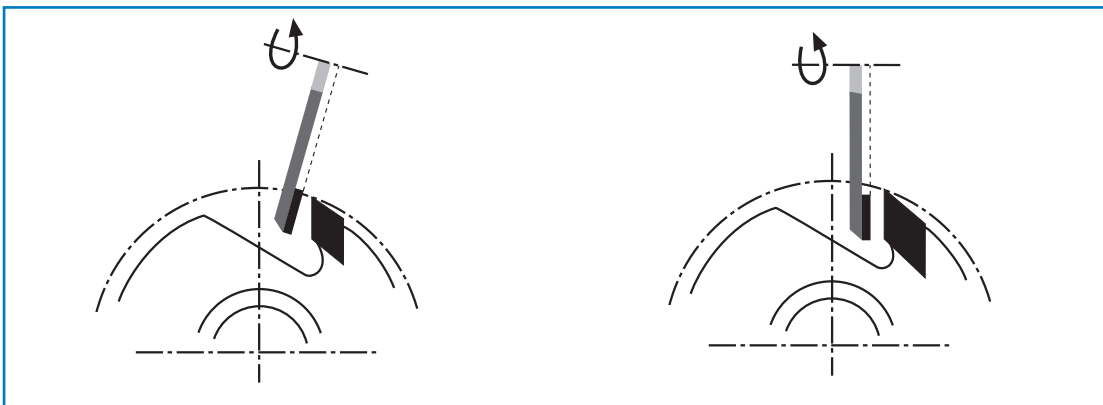


Fig. 13

Shaving: The sides of these get sharpened and must overhang by 0.2ffio.3mm from the tooth. (Fig. 11)

Cutters for manual feeds: These are sharpened in such a way that the original overhang from the cutter to the limiter remains unaltered, without any further modifications being made to the discharge compartment other than those due to normal sharpening. (Fig. 12)

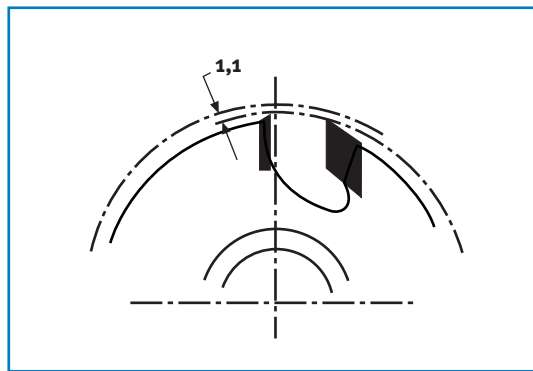


Fig. 12

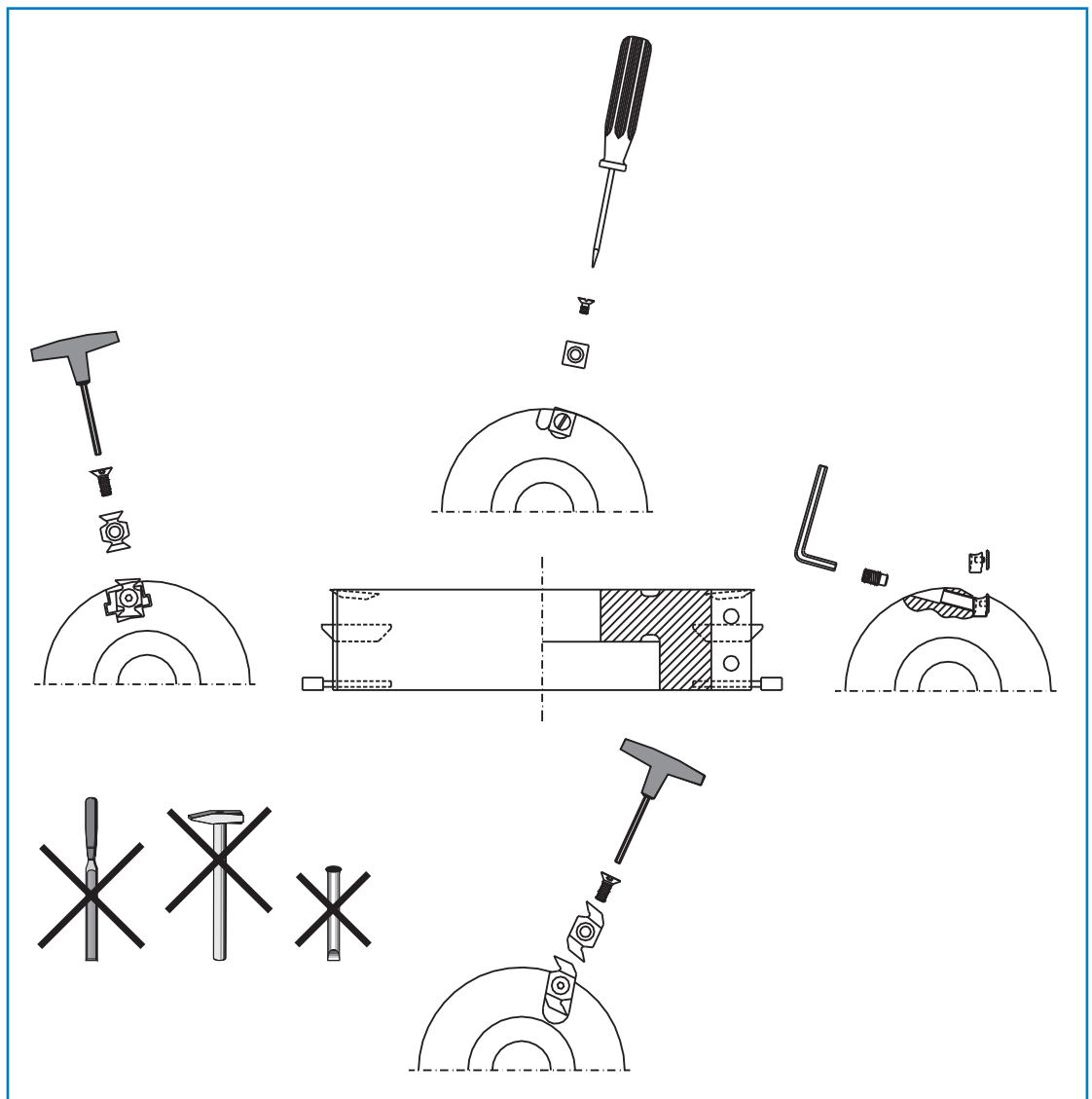
Sharpen the tool when the cutting edge is worn by approx. 0.2mm, when the machine begins to absorb more power or when the machining quality is unacceptable.

Shaped Cutters: If you wish to keep the lower rake angle (or cutting angle) the same the shape will differ slightly from the previous one (Fig. 13), otherwise sharpening parallel to the front of the tooth will increase the upper rake angle (Fig. 14).

Fig. 14

Manutenzione degli Utensili e Raccomandazioni

Tool Maintenance and Advice



- I taglienti sono soggetti al deposito di resine, colle, polvere che ne alterano durata e qualità. Per questo motivo devono essere mantenuti sempre puliti
- E' necessario mantenere pulito anche il corpo fresa per dare libero sfogo al truciolo.
- Assicurarsi che gli assi e i piani di attacco della macchina siano in tolleranza.
- Verificare sempre che il senso di rotazione macchina-utensile sia corretto.
- Non superare mai i limiti del numero di giri indicati sull'utensile.
- Verificare il bloccaggio di tutte le eventuali parti mobili dell'utensile.
- Utilizzare solo ricambi originali BSP.
- Non manomettere gli utensili per impieghi personali, o con oggetti contundenti.
- Teeth are subject to deposits of resin, glue and dust which affect their wear and quality. They must therefore be kept clean at all times.
- The body of the cutter must also be kept clean to allow shavings to detach properly.
- Make sure that the machine tables and axes are gauged correctly.
- Always make sure the machine-tool rotational direction is correct.
- Never exceed the rpm limit stamped on the tool.
- Make sure any moving parts of the tool are locked.
- Only use original BSP spare parts.
- Never tamper with the tools for personal use, or with blunt instruments.

Lame Circolari in Hardmetal

Circular Blades in Hardmetal

QUALITÀ' E DATI TECNICI

Le lame circolari BSP con taglienti riportati in HM sono indicate per tutti i tipi di legno, compensati, impiallacciati, truciolari, materie plastiche in genere, metalli ferrosi e non.

Per sfruttare al meglio questi utensili ed ottenere ottimi risultati attenersi alle seguenti norme :

- verificare l'accoppiamento albero-foro
- le lame devono essere montate su flange di diametro pari ad 1/3 di quello della lama, perfettamente rettificata con tolleranze centesimali sia sul foro che sul piano d'appoggio.
- La macchina deve essere priva di vibrazioni in fase di lavoro
- Adottare possibilmente un avanzamento automatico
- Pulire frequentemente la lama
- Quando lavora la lama deve oltrepassare il materiale da lavorare di almeno 10mm

QUALITY AND TECHNICAL DATA

BSP circular sawblades with HM teeth are suitable for all kinds of wood, plywood veneers, particleboard, general plastic materials, ferrous and non-ferrous metals.

To put these tools to best use and to obtain excellent results observe the following rules:

- check the shaft-bore tolerance
- blades must be fitted to flanges of a diameter which is 1/3 of the blade diameter, perfectly ground with centesimal tolerance on both the bore and the resting surface.
- The machine must present no vibrations during machining
- If possible use automatic feed
- Clean the sawblade frequently
- The sawblade must go at least 10mm beyond the material during machining

Determinazione della Velocità Periferica

Determining the Peripheral Speed

$$V_c = (D \times \pi \times n) : (1000 \times 60)[m/s]$$

Tabella A

| n.(g/min) | D(mm) | | | | | | | | | | | | | | |
|-----------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 80 | 100 | 125 | 150 | 180 | 200 | 225 | 250 | 280 | 300 | 350 | 400 | 450 | 500 | 550 |
| 1.000 | – | – | – | – | – | 10,5 | 12 | 13 | 14,5 | 15,5 | 18,5 | 21 | 23,5 | 26 | 29 |
| 1.500 | – | – | 10 | 12 | 14 | 15,5 | 17,5 | 19,5 | 22 | 23,5 | 27,5 | 31,5 | 35,5 | 39 | 43 |
| 2.000 | – | 10,5 | 13 | 15,5 | 19 | 21 | 23,5 | 26 | 29,5 | 31,5 | 36,5 | 42 | 47 | 52,5 | 57,5 |
| 2.500 | 10,5 | 13 | 16,5 | 19 | 23,5 | 26 | 29,5 | 32,5 | 36,5 | 39 | 46 | 52,5 | 59 | 65,5 | 72 |
| 3.000 | 12,5 | 15,5 | 19,5 | 23,5 | 28,5 | 31,5 | 35,5 | 39 | 44 | 47 | 55 | 63 | 70,5 | 78,5 | 86,5 |
| 3.500 | 14,5 | 18,5 | 23 | 27,5 | 33 | 36,5 | 41 | 46 | 51,5 | 55 | 64 | 73 | 82,5 | 91,5 | – |
| 4.000 | 16,5 | 21 | 26 | 31,5 | 37,5 | 42 | 47 | 52,5 | 58,5 | 63 | 73,5 | 83,5 | 94,5 | – | – |
| 4.500 | 19 | 23,5 | 29,5 | 35,5 | 42,5 | 47 | 53 | 59 | 66 | 70,5 | 82,5 | 94,5 | – | – | – |
| 5.000 | 21 | 26 | 32,5 | 39 | 47 | 52,5 | 59 | 65,5 | 73,5 | 78,5 | 91,5 | – | – | – | – |
| 5.500 | 23 | 29 | 36 | 43 | 52 | 57,5 | 65 | 72 | 80,5 | 86,5 | – | – | – | – | – |
| 6.000 | 25 | 31,5 | 39 | 47 | 56,5 | 63 | 70,5 | 78,5 | 88 | 94 | – | – | – | – | – |
| 6.500 | 27 | 34 | 42,5 | 51 | 61 | 68 | 76,5 | 85 | 95 | – | – | – | – | – | – |
| 7.000 | 29,5 | 36,5 | 46 | 55 | 66 | 73,5 | 82,5 | 91,5 | – | – | – | – | – | – | – |
| 7.500 | 31,5 | 39 | 49 | 59 | 70,5 | 78,5 | 83,5 | 94 | – | – | – | – | – | – | – |
| 8.000 | 33,5 | 42 | 52,5 | 63 | 75,5 | 83,5 | 94 | – | – | – | – | – | – | – | – |
| 8.500 | 35,5 | 44,5 | 55,5 | 66,5 | 80 | 89 | 100 | – | – | – | – | – | – | – | – |
| 9.000 | 37,5 | 47 | 59 | 70,5 | 85 | 94 | – | – | – | – | – | – | – | – | – |
| 9.500 | 40 | 49,5 | 62 | 74,5 | 89,5 | 99,5 | – | – | – | – | – | – | – | – | – |
| 10.000 | 42 | 52,5 | 65,5 | 78,5 | 94 | – | – | – | – | – | – | – | – | – | – |
| 12.000 | 50 | 63 | 78,5 | 94 | – | – | – | – | – | – | – | – | – | – | – |
| 14.000 | 58,5 | 73,5 | 91,5 | – | – | – | – | – | – | – | – | – | – | – | – |
| | Vc(m/sec) | | | | | | | | | | | | | | |

Tabella per la Determinazione del Numero di Giri Max di una Lama Table for Determining the Max. Number of Sawblade Revolutions

| VELOCITA' MAX. DI ROTAZIONE PER LAME CIRCOLARI | | | | | | | |
|--|-------|-------|------|---|--|-------|--|
| D | | n max | | D | | n max | |
| 80 | 16700 | 230 | 7000 | | | | |
| 85 | 15700 | 235 | 6900 | | | | |
| 90 | 14800 | 240 | 6700 | | | | |
| 100 | 13300 | 245 | 6600 | | | | |
| 105 | 13300 | 250 | 6500 | | | | |
| 110 | 13000 | 255 | 6300 | | | | |
| 115 | 12900 | 260 | 6200 | | | | |
| 120 | 12700 | 265 | 6100 | | | | |
| 125 | 12700 | 270 | 6000 | | | | |
| 130 | 12500 | 275 | 5900 | | | | |
| 135 | 12000 | 280 | 5800 | | | | |
| 140 | 11600 | 285 | 5700 | | | | |
| 145 | 11200 | 290 | 5600 | | | | |
| 150 | 10800 | 295 | 5500 | | | | |
| 155 | 10500 | 300 | 5400 | | | | |
| 160 | 10100 | 310 | 5200 | | | | |
| 165 | 9800 | 320 | 5000 | | | | |
| 170 | 9500 | 330 | 4900 | | | | |
| 175 | 9300 | 340 | 4700 | | | | |
| 180 | 9000 | 350 | 4600 | | | | |
| 185 | 8700 | 360 | 4500 | | | | |
| 190 | 8500 | 370 | 4300 | | | | |
| 195 | 8300 | 380 | 4200 | | | | |
| 200 | 8100 | 390 | 4100 | | | | |
| 205 | 7900 | 400 | 4000 | | | | |
| 210 | 7700 | 450 | 3600 | | | | |
| 215 | 7500 | 500 | 3200 | | | | |
| 220 | 7400 | 550 | 2900 | | | | |
| 225 | 7200 | 600 | 2700 | | | | |

Tabella B

Tabella per la Determinazione della Velocità di Avanzamento del Materiale Table for Determining the Feed Rate of the Material

| Z | | | | | | | | | | Cz (mm) | |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------------------------|-------------------------|
| | | | | | | | | | | 0,03÷ 0,06 FINITURA | 0,1÷ 0,2 SGRASSATURA |
| 6 | 12 | 24 | 36 | 48 | 60 | 72 | 80 | 96 | 120 | | |
| 3.000 | 1.500 | - | - | - | - | - | - | - | - | 0,5 ÷ 1,1 | 1,8 ÷ 3,6 |
| 4.000 | 2.000 | 1.000 | - | - | - | - | - | - | - | 0,7 ÷ 1,4 | 2,4 ÷ 4,8 |
| 5.000 | 2.500 | - | - | - | - | - | - | - | - | 0,9 ÷ 1,8 | 3 ÷ 6 |
| 6.000 | 3.000 | 1.500 | 1.000 | - | - | - | - | - | - | 1,1 ÷ 2,2 | 3,6 ÷ 7,2 |
| 7.000 | 3.500 | - | - | - | - | - | - | - | - | 1,3 ÷ 2,5 | 4,2 ÷ 8,4 |
| 8.000 | 4.000 | 2.000 | - | 1.000 | - | - | - | - | - | 1,4 ÷ 2,9 | 4,8 ÷ 9,6 |
| 9.000 | 4.500 | - | 1.500 | - | - | - | - | - | - | 1,6 ÷ 3,2 | 5,4 ÷ 10,8 |
| 10.000 | 5.000 | 2.500 | - | - | 1.000 | - | - | - | - | 1,8 ÷ 3,6 | 6 ÷ 12 |
| 12.000 | 6.000 | 3.000 | 2.000 | 1.500 | - | 1.000 | - | - | - | 2,2 ÷ 4,3 | 7,2 ÷ 14,4 |
| - | - | - | - | - | - | - | 1.000 | - | - | 2,4 ÷ 4,8 | 8 ÷ 16 |
| 14.000 | 7.000 | 3.500 | - | - | - | - | - | - | - | 2,5 ÷ 5 | 8,4 ÷ 16,8 |
| - | - | - | 2.500 | - | 1.500 | - | - | - | - | 2,7 ÷ 5,4 | 9 ÷ 18 |
| 16.000 | 8.000 | 4.000 | - | 2.000 | - | - | - | 1.000 | - | 2,9 ÷ 5,8 | 9,6 ÷ 19,2 |
| 18.000 | 9.000 | 4.500 | 3.000 | - | - | 1.500 | - | - | - | 3,2 ÷ 6,5 | 10,8 ÷ 21,6 |
| - | 10.000 | 5.000 | - | 2.500 | 2.000 | - | 1.500 | - | 1.000 | 3,6 ÷ 7,2 | 12 ÷ 24 |
| - | - | - | 3.500 | - | - | - | - | - | - | 3,8 ÷ 7,6 | 12,6 ÷ 25,2 |
| - | 12.000 | 6.000 | 4.000 | 3.000 | - | 2.000 | - | 1.500 | - | 4,3 ÷ 8,6 | 14,4 ÷ 28,8 |
| - | - | - | - | - | 2.500 | - | - | - | - | 4,5 ÷ 9 | 15 ÷ 30 |
| - | - | - | - | - | - | - | 2.000 | - | - | 4,8 ÷ 9,1 | 16 ÷ 32 |
| - | - | 4.500 | - | - | - | - | - | - | - | 4,9 ÷ 9,7 | 16,2 ÷ 32,4 |
| - | 14.000 | 7.000 | - | 3.500 | - | - | - | - | - | 5 ÷ 10,1 | 16,8 ÷ 33,6 |
| - | - | - | 5.000 | - | 3.000 | 2.500 | - | - | 1.500 | 5,4 ÷ 10,8 | 18 ÷ 36 |
| - | 16.000 | 8.000 | - | 4.000 | - | - | - | 2.000 | - | 5,8 ÷ 11,5 | 19,2 ÷ 38,4 |
| - | - | - | - | - | 3.500 | - | 2.500 | - | - | 6 ÷ 10 | 20 ÷ 40 |
| - | - | - | - | - | - | - | - | - | - | 6,3 ÷ 10,6 | 21 ÷ 42 |
| - | 18.000 | 9.000 | 6.000 | 4.500 | - | 3.000 | - | - | - | 6,5 ÷ 13 | 21,6 ÷ 43,2 |
| - | - | 10.000 | - | 5.000 | 4.000 | - | 3.000 | 2.500 | 2.000 | 7,2 ÷ 14,4 | 24 ÷ 48 |
| - | - | - | 7.000 | - | - | 3.500 | - | - | - | 7,6 ÷ 15,1 | 25,2 ÷ 50,4 |
| - | - | - | - | - | 4.500 | - | - | - | - | 8,1 ÷ 16,2 | 27 ÷ 54 |
| - | - | - | - | - | - | - | 3.500 | - | - | 8,4 ÷ | 16,828 ÷ 56 |
| - | - | 12.000 | 8.000 | 6.000 | - | 4.000 | - | 3.000 | - | 8,6 ÷ 17,3 | 28,8 ÷ 57,6 |
| - | - | - | - | - | 5.000 | - | - | - | 2.500 | 9 ÷ 18 | 30 ÷ 60 |
| - | - | - | - | - | - | - | 4.000 | - | - | 9,6 ÷ 19,2 | 32 ÷ 64 |
| - | - | - | 9.000 | - | - | 4.500 | - | - | - | 9,7 ÷ 19,4 | 32,4 ÷ 64,8 |
| - | - | 14.000 | - | 7.000 | - | - | - | 3.500 | - | 10,1 ÷ 20,2 | 33,6 ÷ 67,2 |
| - | - | - | 10.000 | - | 6.000 | 5.000 | 4.500 | - | 3.000 | 10,8 ÷ 21,6 | 36 ÷ 72 |
| | | | | | | | | | | vf (m/min) | |
| | | | | | | | | | | n (g/min) | |

Tabella C

Vf = (Z x n x Cz) : 1000



Determinazione dei parametri di lavoro per lame Circolari

Determining the Machining Parameters for Circular Sawblades

Definizione dei valori approssimativi di velocità di avanzamento, numeri di giri, numero di taglienti, avanzamento per dente.

Defining approximate feed rate values, number of revolutions, number of teeth, tooth advance.

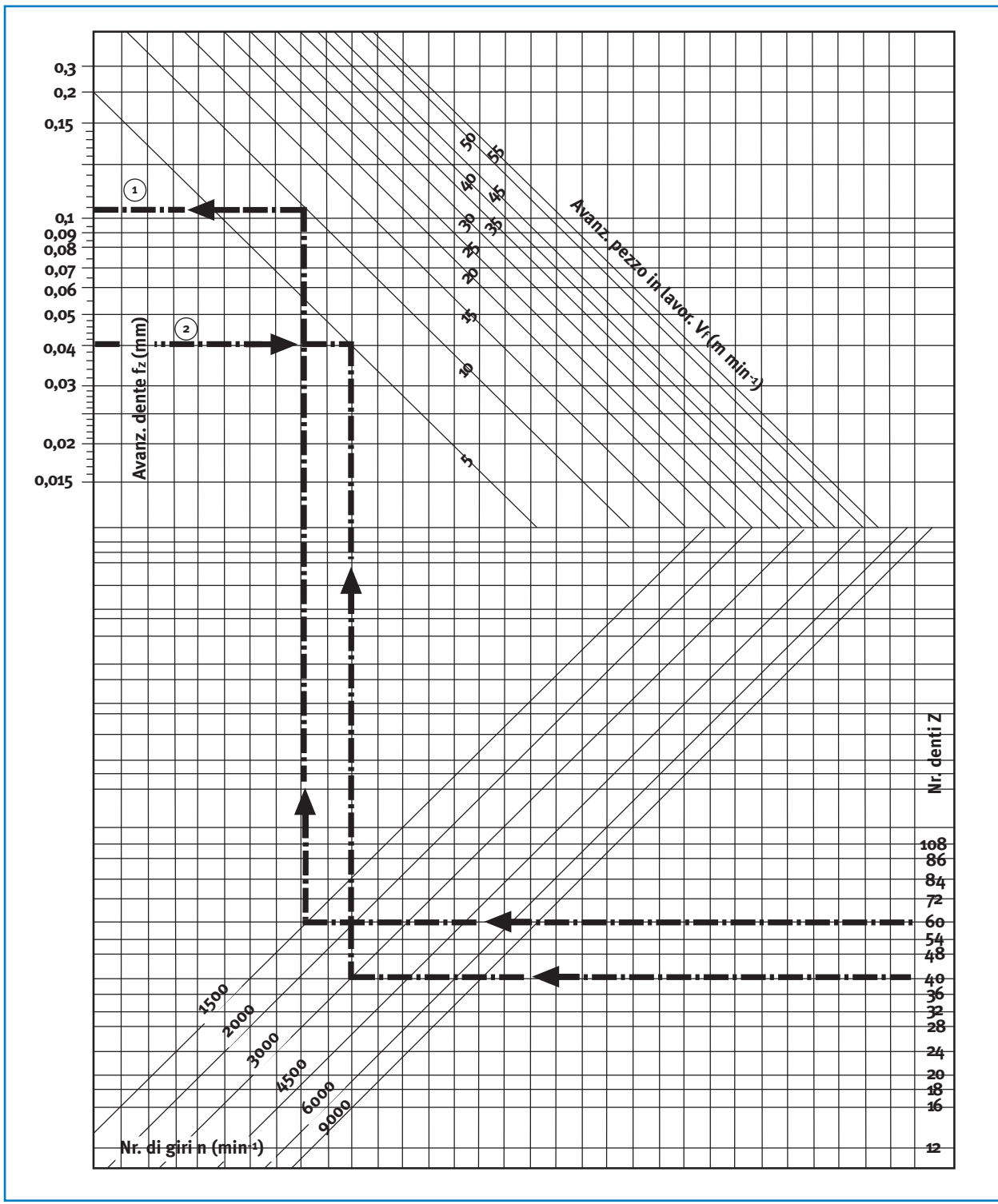
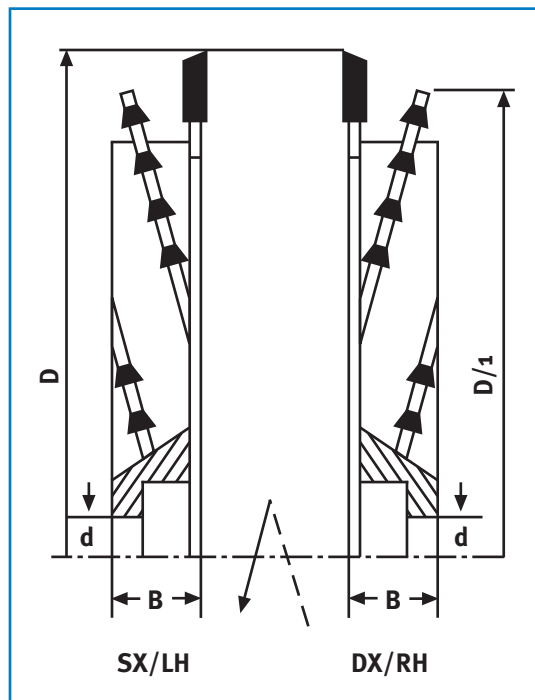


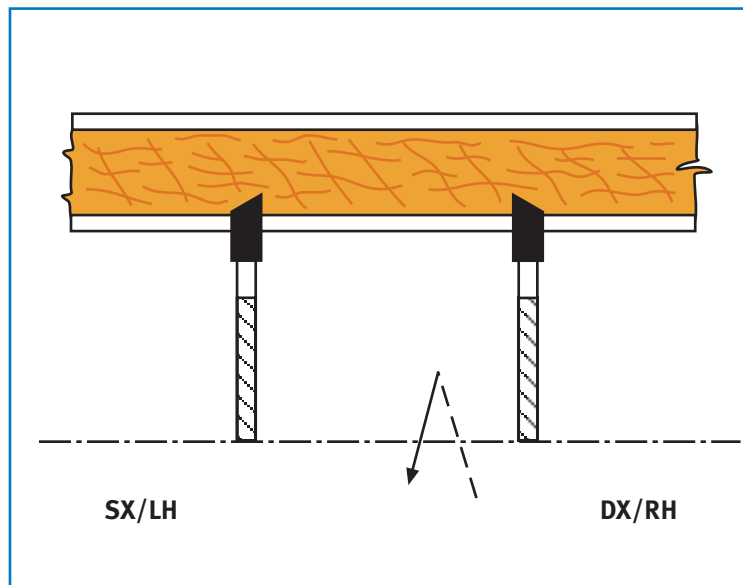
Diagramma C

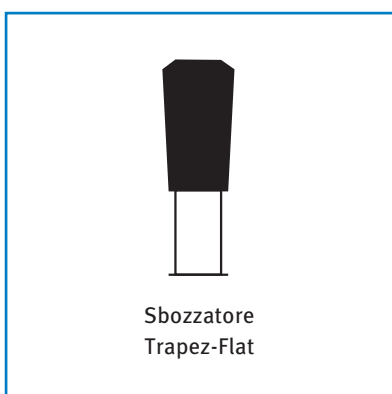
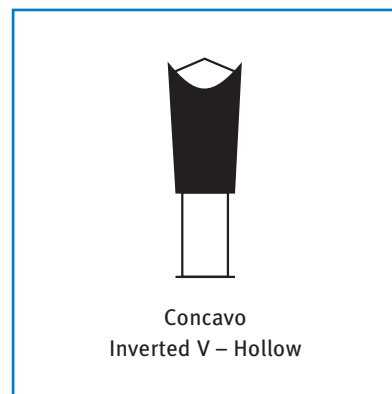
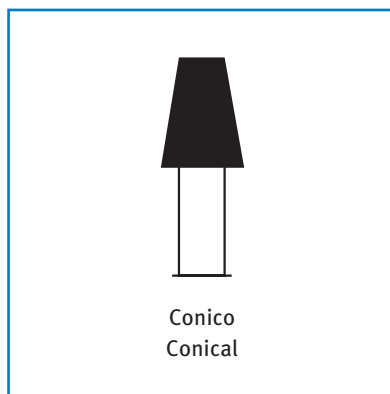
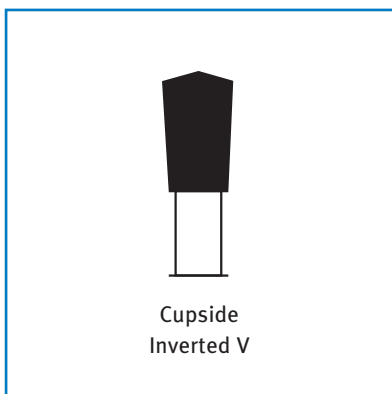
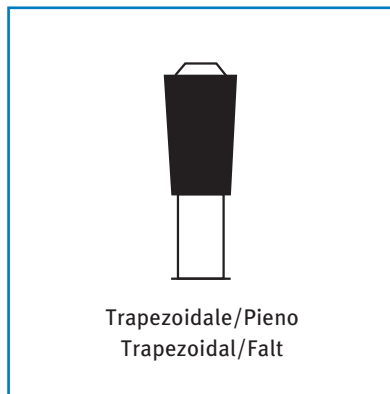
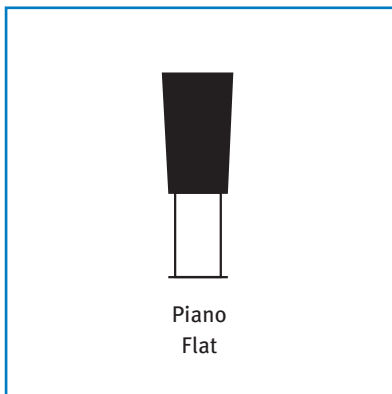
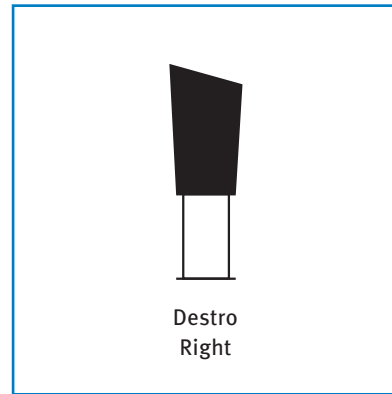
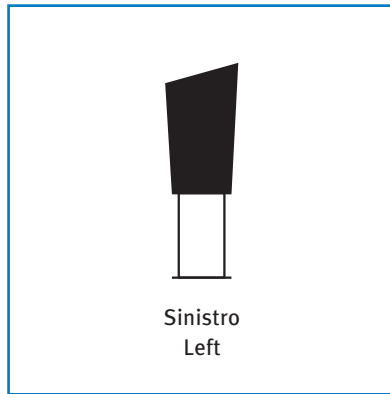
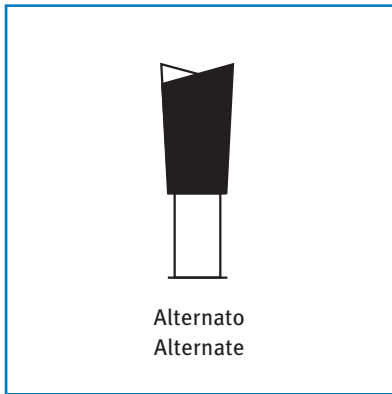
Come Determinare il Senso di Rotazione di una Lama

How to Determine the Rotational Direction of a Blade



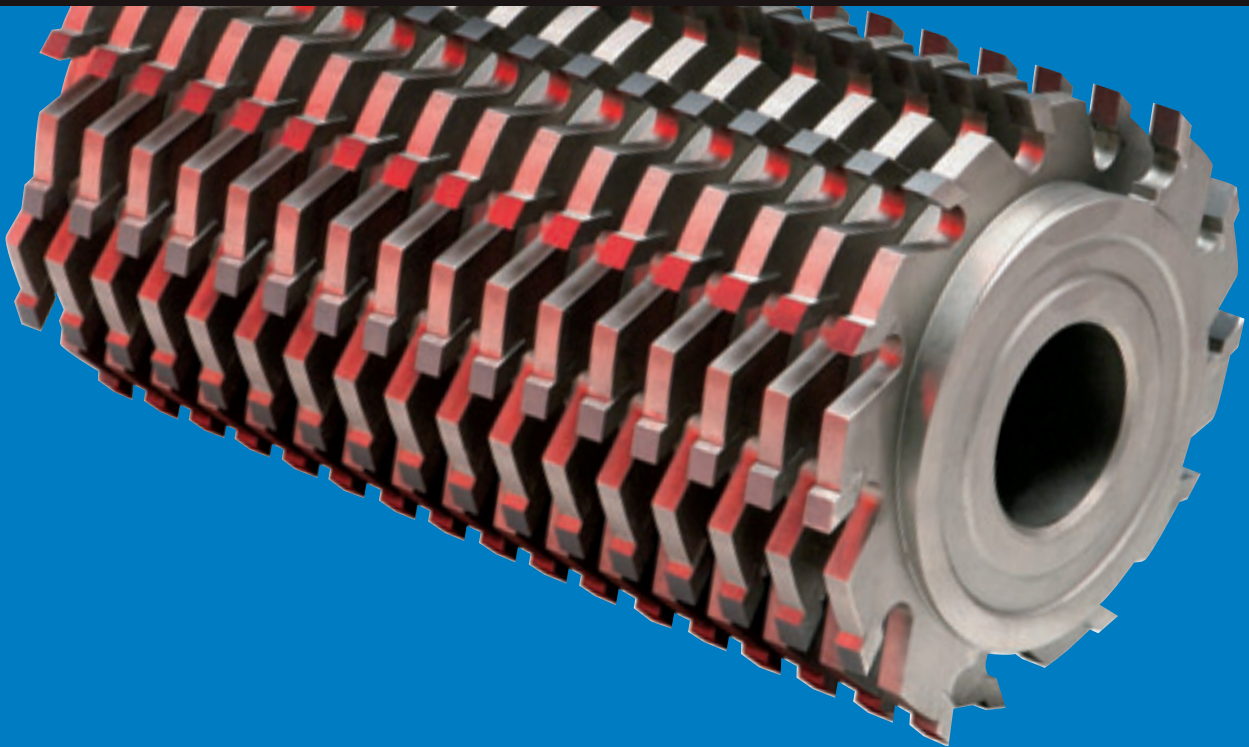
SX = SINISTRO DX = DESTRO
LH = LEFT RH = RIGHT







Evolved **Experience**



Frese Saldobrasate Braze Welded Cutters

Frese Saldobrasate Braze Welded Cutters



Frese sagomate a disegno
Cutters shaped from drawings

P 026



Frese a raggiare
Radius cutters

P 032



Frese multisagoma
Multiprofile cutters

P 036



Frese per giunzioni
Joint cutters

P 037



Frese per battute e canali
Rebating cutters for grooves

P 044



Frese multitaglienti
Multicuts cutters

P 047

1001



Frese sagomate per Profili Semplici.
Profile cutters for Simple Profiles.
Fraises profilées pour Contours Simples.
Profilfräser für Einfachem Profil.
Fresas molduradas para Perfiles Simples.

| D | B | Z | ID nr. |
|---|---|---|--------|
|---|---|---|--------|

Vedi tabella che segue

Le misure indicate in tabella sono solo indicative per la determinazione del prezzo.

According to the following scale, the dimensions suggested have to be considered indicative to calculate the price.



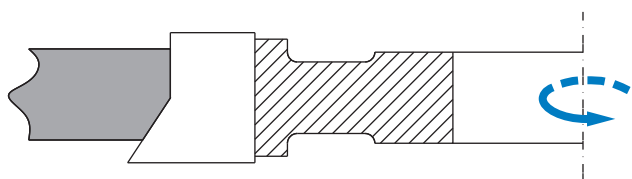
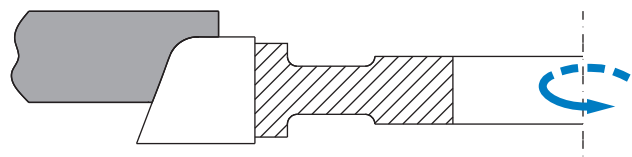
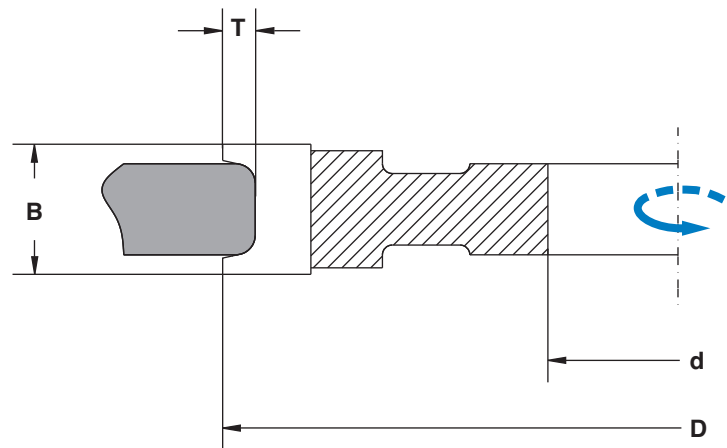
Caratteristiche

Frese sagomate con materiale di riporto HM o HSS a seconda delle essenze da lavorare:
HM per legni abrasivi, teneri, duri, incollati, MDF, multistrati e truciolari;
HSS per legni teneri e duri non incollati.
Esecuzione con taglienti diritti o assialmente inclinati a seconda del profilo da eseguire.

Characteristics

*Profiled cutter HM or HSS according to different working needs:
HM execution for abrasive, soft, hard, MDF, glued woods, plywood and chipboard;
HSS for soft and hard not-glued woods.
Straight or shear cutting angles according to profile.*

ESEMPI DI PROFILI SEMPLICI



Frese sagomate per Profili Semplici.
Profile cutters for Simple Profiles.
 Fraises profilées pour Contours Simples.
Profilfräser für Einfachem Profil.
 Fresas molduradas para Perfiles Simples.

1001

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 100 | 15 | 30 | 50 | 4 | 1001 001 |
| 100 | 20 | 30 | 50 | 4 | 1001 002 |
| 100 | 25 | 30 | 50 | 4 | 1001 003 |
| 100 | 30 | 30 | 50 | 4 | 1001 004 |
| 100 | 35 | 30 | 50 | 4 | 1001 005 |
| 100 | 40 | 30 | 50 | 4 | 1001 006 |
| 100 | 45 | 30 | 50 | 4 | 1001 007 |
| 100 | 50 | 30 | 50 | 4 | 1001 008 |
| 100 | 60 | 30 | 50 | 4 | 1001 009 |
| 100 | 70 | 30 | 50 | 4 | 1001 010 |
| 100 | 80 | 30 | 50 | 4 | 1001 011 |
| 100 | 90 | 30 | 50 | 4 | 1001 012 |
| 100 | 100 | 30 | 50 | 4 | 1001 013 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 140 | 15 | 30 | 50 | 4 | 1001 027 |
| 140 | 20 | 30 | 50 | 4 | 1001 028 |
| 140 | 25 | 30 | 50 | 4 | 1001 029 |
| 140 | 30 | 30 | 50 | 4 | 1001 030 |
| 140 | 35 | 30 | 50 | 4 | 1001 031 |
| 140 | 40 | 30 | 50 | 4 | 1001 032 |
| 140 | 45 | 30 | 50 | 4 | 1001 033 |
| 140 | 50 | 30 | 50 | 4 | 1001 034 |
| 140 | 60 | 30 | 50 | 4 | 1001 035 |
| 140 | 70 | 30 | 50 | 4 | 1001 036 |
| 140 | 80 | 30 | 50 | 4 | 1001 037 |
| 140 | 90 | 30 | 50 | 4 | 1001 038 |
| 140 | 100 | 30 | 50 | 4 | 1001 039 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 180 | 15 | 30 | 50 | 4 | 1001 053 |
| 180 | 20 | 30 | 50 | 4 | 1001 054 |
| 180 | 25 | 30 | 50 | 4 | 1001 055 |
| 180 | 30 | 30 | 50 | 4 | 1001 056 |
| 180 | 35 | 30 | 50 | 4 | 1001 057 |
| 180 | 40 | 30 | 50 | 4 | 1001 058 |
| 180 | 45 | 30 | 50 | 4 | 1001 059 |
| 180 | 50 | 30 | 50 | 4 | 1001 060 |
| 180 | 60 | 30 | 50 | 4 | 1001 061 |
| 180 | 70 | 30 | 50 | 4 | 1001 062 |
| 180 | 80 | 30 | 50 | 4 | 1001 063 |
| 180 | 90 | 30 | 50 | 4 | 1001 064 |
| 180 | 100 | 30 | 50 | 4 | 1001 065 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 250 | 15 | 30 | 50 | 4 | 1001 079 |
| 250 | 20 | 30 | 50 | 4 | 1001 080 |
| 250 | 25 | 30 | 50 | 4 | 1001 081 |
| 250 | 30 | 30 | 50 | 4 | 1001 082 |

Per frese Z3 sconto 10%
 Per frese Z6 aumento 20%
 Per profondità di sagoma "T"
 superiore a 10mm vedere ART. 1002

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 120 | 15 | 30 | 50 | 4 | 1001 014 |
| 120 | 20 | 30 | 50 | 4 | 1001 015 |
| 120 | 25 | 30 | 50 | 4 | 1001 016 |
| 120 | 30 | 30 | 50 | 4 | 1001 017 |
| 120 | 35 | 30 | 50 | 4 | 1001 018 |
| 120 | 40 | 30 | 50 | 4 | 1001 019 |
| 120 | 45 | 30 | 50 | 4 | 1001 020 |
| 120 | 50 | 30 | 50 | 4 | 1001 021 |
| 120 | 60 | 30 | 50 | 4 | 1001 022 |
| 120 | 70 | 30 | 50 | 4 | 1001 023 |
| 120 | 80 | 30 | 50 | 4 | 1001 024 |
| 120 | 90 | 30 | 50 | 4 | 1001 025 |
| 120 | 100 | 30 | 50 | 4 | 1001 026 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 160 | 15 | 30 | 50 | 4 | 1001 040 |
| 160 | 20 | 30 | 50 | 4 | 1001 041 |
| 160 | 25 | 30 | 50 | 4 | 1001 042 |
| 160 | 30 | 30 | 50 | 4 | 1001 043 |
| 160 | 35 | 30 | 50 | 4 | 1001 044 |
| 160 | 40 | 30 | 50 | 4 | 1001 045 |
| 160 | 45 | 30 | 50 | 4 | 1001 046 |
| 160 | 50 | 30 | 50 | 4 | 1001 047 |
| 160 | 60 | 30 | 50 | 4 | 1001 048 |
| 160 | 70 | 30 | 50 | 4 | 1001 049 |
| 160 | 80 | 30 | 50 | 4 | 1001 050 |
| 160 | 90 | 30 | 50 | 4 | 1001 051 |
| 160 | 100 | 30 | 50 | 4 | 1001 052 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 200 | 15 | 30 | 50 | 4 | 1001 066 |
| 200 | 20 | 30 | 50 | 4 | 1001 067 |
| 200 | 25 | 30 | 50 | 4 | 1001 068 |
| 200 | 30 | 30 | 50 | 4 | 1001 069 |
| 200 | 35 | 30 | 50 | 4 | 1001 070 |
| 200 | 40 | 30 | 50 | 4 | 1001 071 |
| 200 | 45 | 30 | 50 | 4 | 1001 072 |
| 200 | 50 | 30 | 50 | 4 | 1001 073 |
| 200 | 60 | 30 | 50 | 4 | 1001 074 |
| 200 | 70 | 30 | 50 | 4 | 1001 075 |
| 200 | 80 | 30 | 50 | 4 | 1001 076 |
| 200 | 90 | 30 | 50 | 4 | 1001 077 |
| 200 | 100 | 30 | 50 | 4 | 1001 078 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 300 | 15 | 30 | 50 | 4 | 1001 083 |
| 300 | 20 | 30 | 50 | 4 | 1001 084 |
| 300 | 25 | 30 | 50 | 4 | 1001 085 |
| 300 | 30 | 30 | 50 | 4 | 1001 086 |

For cutters Z3 discount 10%
 For cutters Z6 increase 20%
 For shape deep "T"
 bigger than 10mm see ART. 1002

1002



Frese sagomate per Profili Complessi.
Profile cutters for Complex Profiles.
Fraises profilées pour Contours Complexe.
Profilfräser für Komplizierten Profil.
Fresas molduradas para Perfiles Complejos.

D

B

Z

ID nr.

Vedi tabella che segue

Le misure indicate in tabella sono solo indicative per la determinazione del prezzo.

According to the following scale, the dimensions suggested have to be considered indicative to calculate the price.

MAN



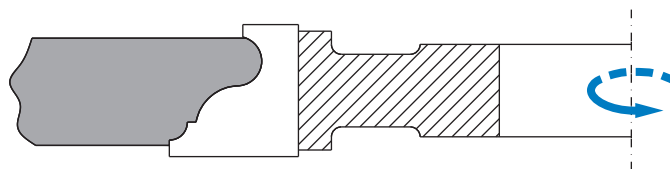
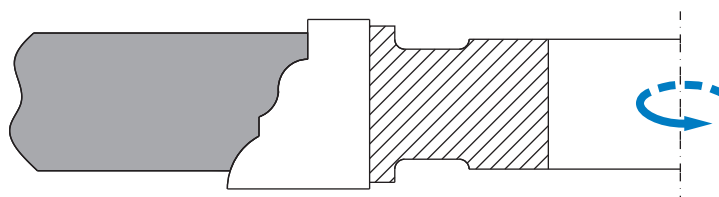
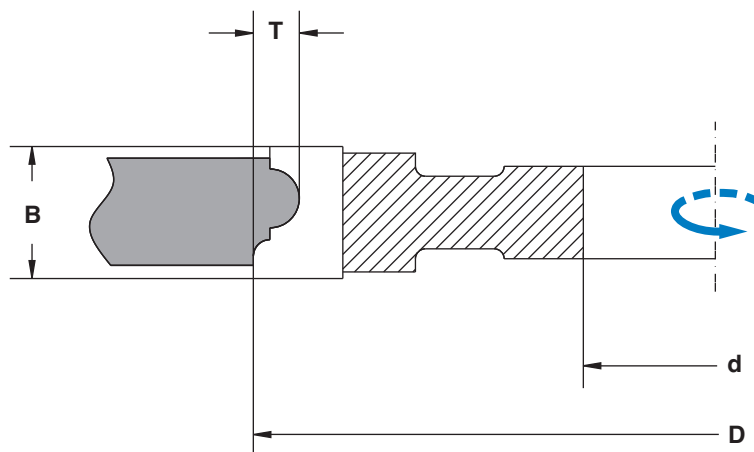
Caratteristiche

Frese sagomate con materiale di riporto HM o HSS a seconda delle essenze da lavorare:
HM per legni abrasivi, teneri, duri, incollati, MDF, multistrati e truciolari;
HSS per legni teneri e duri non incollati.
Esecuzione con taglienti diritti o assialmente inclinati a seconda del profilo da eseguire.

Characteristics

Profiled cutter HM or HSS according to different working needs:
HM execution for abrasive, soft, hard, MDF, glued woods, plywood and chipboard;
HSS for soft and hard not-glued woods.
Straight or shear cutting angles according to profile.

ESEMPI DI PROFILI COMPLESSI



Frese sagomate per Profili Complessi.
Profile cutters for Complex Profiles.
 Fraises profilées pour Contours Complexe.
Profilfräser für Komplizierten Profil.
 Fresas molduradas para Perfiles Complejos.

1002

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 100 | 15 | 30 | 50 | 4 | 1002 001 |
| 100 | 20 | 30 | 50 | 4 | 1002 002 |
| 100 | 25 | 30 | 50 | 4 | 1002 003 |
| 100 | 30 | 30 | 50 | 4 | 1002 004 |
| 100 | 35 | 30 | 50 | 4 | 1002 005 |
| 100 | 40 | 30 | 50 | 4 | 1002 006 |
| 100 | 45 | 30 | 50 | 4 | 1002 007 |
| 100 | 50 | 30 | 50 | 4 | 1002 008 |
| 100 | 60 | 30 | 50 | 4 | 1002 009 |
| 100 | 70 | 30 | 50 | 4 | 1002 010 |
| 100 | 80 | 30 | 50 | 4 | 1002 011 |
| 100 | 90 | 30 | 50 | 4 | 1002 012 |
| 100 | 100 | 30 | 50 | 4 | 1002 013 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 140 | 15 | 30 | 50 | 4 | 1002 027 |
| 140 | 20 | 30 | 50 | 4 | 1002 028 |
| 140 | 25 | 30 | 50 | 4 | 1002 029 |
| 140 | 30 | 30 | 50 | 4 | 1002 030 |
| 140 | 35 | 30 | 50 | 4 | 1002 031 |
| 140 | 40 | 30 | 50 | 4 | 1002 032 |
| 140 | 45 | 30 | 50 | 4 | 1002 033 |
| 140 | 50 | 30 | 50 | 4 | 1002 034 |
| 140 | 60 | 30 | 50 | 4 | 1002 035 |
| 140 | 70 | 30 | 50 | 4 | 1002 036 |
| 140 | 80 | 30 | 50 | 4 | 1002 037 |
| 140 | 90 | 30 | 50 | 4 | 1002 038 |
| 140 | 100 | 30 | 50 | 4 | 1002 039 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 180 | 15 | 30 | 50 | 4 | 1002 053 |
| 180 | 20 | 30 | 50 | 4 | 1002 054 |
| 180 | 25 | 30 | 50 | 4 | 1002 055 |
| 180 | 30 | 30 | 50 | 4 | 1002 056 |
| 180 | 35 | 30 | 50 | 4 | 1002 057 |
| 180 | 40 | 30 | 50 | 4 | 1002 058 |
| 180 | 45 | 30 | 50 | 4 | 1002 059 |
| 180 | 50 | 30 | 50 | 4 | 1002 060 |
| 180 | 60 | 30 | 50 | 4 | 1002 061 |
| 180 | 70 | 30 | 50 | 4 | 1002 062 |
| 180 | 80 | 30 | 50 | 4 | 1002 063 |
| 180 | 90 | 30 | 50 | 4 | 1002 064 |
| 180 | 100 | 30 | 50 | 4 | 1002 065 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 250 | 15 | 30 | 50 | 4 | 1002 079 |
| 250 | 20 | 30 | 50 | 4 | 1002 080 |
| 250 | 25 | 30 | 50 | 4 | 1002 081 |
| 250 | 30 | 30 | 50 | 4 | 1002 082 |

Per frese Z3 sconto 10%
 Per frese Z6 aumento 20%
 Per profondità di sagoma "T"
 superiore a 20 mm vedere ART. 1003

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 120 | 15 | 30 | 50 | 4 | 1002 014 |
| 120 | 20 | 30 | 50 | 4 | 1002 015 |
| 120 | 25 | 30 | 50 | 4 | 1002 016 |
| 120 | 30 | 30 | 50 | 4 | 1002 017 |
| 120 | 35 | 30 | 50 | 4 | 1002 018 |
| 120 | 40 | 30 | 50 | 4 | 1002 019 |
| 120 | 45 | 30 | 50 | 4 | 1002 020 |
| 120 | 50 | 30 | 50 | 4 | 1002 021 |
| 120 | 60 | 30 | 50 | 4 | 1002 022 |
| 120 | 70 | 30 | 50 | 4 | 1002 023 |
| 120 | 80 | 30 | 50 | 4 | 1002 024 |
| 120 | 90 | 30 | 50 | 4 | 1002 025 |
| 120 | 100 | 30 | 50 | 4 | 1002 026 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 160 | 15 | 30 | 50 | 4 | 1002 040 |
| 160 | 20 | 30 | 50 | 4 | 1002 041 |
| 160 | 25 | 30 | 50 | 4 | 1002 042 |
| 160 | 30 | 30 | 50 | 4 | 1002 043 |
| 160 | 35 | 30 | 50 | 4 | 1002 044 |
| 160 | 40 | 30 | 50 | 4 | 1002 045 |
| 160 | 45 | 30 | 50 | 4 | 1002 046 |
| 160 | 50 | 30 | 50 | 4 | 1002 047 |
| 160 | 60 | 30 | 50 | 4 | 1002 048 |
| 160 | 70 | 30 | 50 | 4 | 1002 049 |
| 160 | 80 | 30 | 50 | 4 | 1002 050 |
| 160 | 90 | 30 | 50 | 4 | 1002 051 |
| 160 | 100 | 30 | 50 | 4 | 1002 052 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 200 | 15 | 30 | 50 | 4 | 1002 066 |
| 200 | 20 | 30 | 50 | 4 | 1002 067 |
| 200 | 25 | 30 | 50 | 4 | 1002 068 |
| 200 | 30 | 30 | 50 | 4 | 1002 069 |
| 200 | 35 | 30 | 50 | 4 | 1002 070 |
| 200 | 40 | 30 | 50 | 4 | 1002 071 |
| 200 | 45 | 30 | 50 | 4 | 1002 072 |
| 200 | 50 | 30 | 50 | 4 | 1002 073 |
| 200 | 60 | 30 | 50 | 4 | 1002 074 |
| 200 | 70 | 30 | 50 | 4 | 1002 075 |
| 200 | 80 | 30 | 50 | 4 | 1002 076 |
| 200 | 90 | 30 | 50 | 4 | 1002 077 |
| 200 | 100 | 30 | 50 | 4 | 1002 078 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 300 | 15 | 30 | 50 | 4 | 1002 083 |
| 300 | 20 | 30 | 50 | 4 | 1002 084 |
| 300 | 25 | 30 | 50 | 4 | 1002 085 |
| 300 | 30 | 30 | 50 | 4 | 1002 086 |

For cutters Z3 discount 10%
 For cutters Z6 increase 20%
 For shape deep "T"
 bigger than 20 mm see ART. 1003

1003



Frese sagomate per Profili Speciali.
Profile cutters for Special Profiles.
Fraises profilées pour Contours Spéciaux.
Profilfräser für Spezial Profil.
Fresas molduradas para Perfiles Especiales.

| D | B | Z | ID nr. |
|------------------------|---|---|--------|
| Vedi tabella che segue | | | |

Le misure indicate in tabella sono solo indicative per la determinazione del prezzo.

According to the following scale, the dimensions suggested have to be considered indicative to calculate the price.



MAN

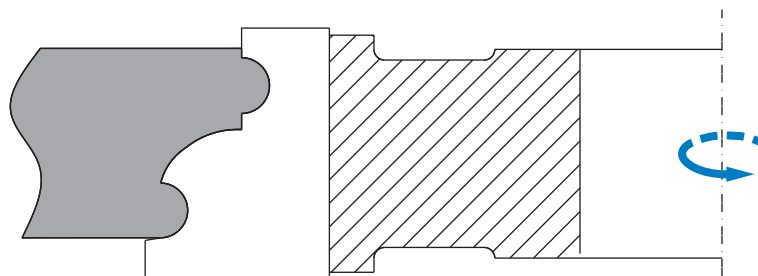
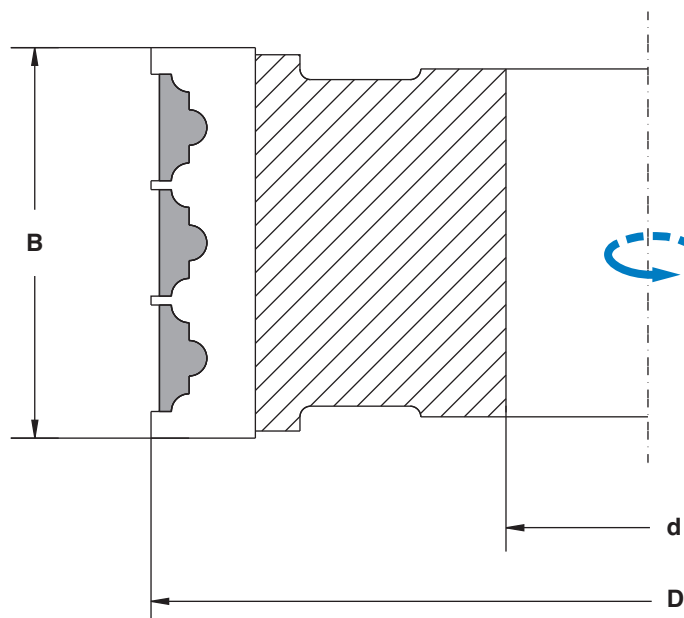
Caratteristiche

Frese sagomate con materiale di riporto HM o HSS a seconda delle essenze da lavorare:
HM per legni abrasivi, teneri, duri, incollati, MDF, multistrati e truciolari;
HSS per legni teneri e duri non incollati.
Esecuzione con taglienti diritti o assialmente inclinati a seconda del profilo da eseguire.

Characteristics

*Profiled cutter HM or HSS according to different working needs:
HM execution for abrasive, soft, hard, MDF, glued woods, plywood and chipboard;
HSS for soft and hard not-glued woods.
Straight or shear cutting angles according to profile.*

ESEMPI DI PROFILI SPECIALI



Frese sagomate per Profili Speciali.

Profile cutters for Special Profiles.

Fraises profilées pour Contours Spéciaux.

Profilfräser für Spezial Profil.

Fresas molduradas para Perfiles Especiales.

1003

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 100 | 15 | 30 | 50 | 4 | 1003 001 |
| 100 | 20 | 30 | 50 | 4 | 1003 002 |
| 100 | 25 | 30 | 50 | 4 | 1003 003 |
| 100 | 30 | 30 | 50 | 4 | 1003 004 |
| 100 | 35 | 30 | 50 | 4 | 1003 005 |
| 100 | 40 | 30 | 50 | 4 | 1003 006 |
| 100 | 45 | 30 | 50 | 4 | 1003 007 |
| 100 | 50 | 30 | 50 | 4 | 1003 008 |
| 100 | 60 | 30 | 50 | 4 | 1003 009 |
| 100 | 70 | 30 | 50 | 4 | 1003 010 |
| 100 | 80 | 30 | 50 | 4 | 1003 011 |
| 100 | 90 | 30 | 50 | 4 | 1003 012 |
| 100 | 100 | 30 | 50 | 4 | 1003 013 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 140 | 15 | 30 | 50 | 4 | 1003 027 |
| 140 | 20 | 30 | 50 | 4 | 1003 028 |
| 140 | 25 | 30 | 50 | 4 | 1003 029 |
| 140 | 30 | 30 | 50 | 4 | 1003 030 |
| 140 | 35 | 30 | 50 | 4 | 1003 031 |
| 140 | 40 | 30 | 50 | 4 | 1003 032 |
| 140 | 45 | 30 | 50 | 4 | 1003 033 |
| 140 | 50 | 30 | 50 | 4 | 1003 034 |
| 140 | 60 | 30 | 50 | 4 | 1003 035 |
| 140 | 70 | 30 | 50 | 4 | 1003 036 |
| 140 | 80 | 30 | 50 | 4 | 1003 037 |
| 140 | 90 | 30 | 50 | 4 | 1003 038 |
| 140 | 100 | 30 | 50 | 4 | 1003 039 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 180 | 15 | 30 | 50 | 4 | 1003 053 |
| 180 | 20 | 30 | 50 | 4 | 1003 054 |
| 180 | 25 | 30 | 50 | 4 | 1003 055 |
| 180 | 30 | 30 | 50 | 4 | 1003 056 |
| 180 | 35 | 30 | 50 | 4 | 1003 057 |
| 180 | 40 | 30 | 50 | 4 | 1003 058 |
| 180 | 45 | 30 | 50 | 4 | 1003 059 |
| 180 | 50 | 30 | 50 | 4 | 1003 060 |
| 180 | 60 | 30 | 50 | 4 | 1003 061 |
| 180 | 70 | 30 | 50 | 4 | 1003 062 |
| 180 | 80 | 30 | 50 | 4 | 1003 063 |
| 180 | 90 | 30 | 50 | 4 | 1003 064 |
| 180 | 100 | 30 | 50 | 4 | 1003 065 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 250 | 15 | 30 | 50 | 4 | 1003 079 |
| 250 | 20 | 30 | 50 | 4 | 1003 080 |
| 250 | 25 | 30 | 50 | 4 | 1003 081 |
| 250 | 30 | 30 | 50 | 4 | 1003 082 |

| D | B | d | d/max | Z | ID nr. |
|-----|-----|----|-------|---|-----------------|
| 120 | 15 | 30 | 50 | 4 | 1003 014 |
| 120 | 20 | 30 | 50 | 4 | 1003 015 |
| 120 | 25 | 30 | 50 | 4 | 1003 016 |
| 120 | 30 | 30 | 50 | 4 | 1003 017 |
| 120 | 35 | 30 | 50 | 4 | 1003 018 |
| 120 | 40 | 30 | 50 | 4 | 1003 019 |
| 120 | 45 | 30 | 50 | 4 | 1003 020 |
| 120 | 50 | 30 | 50 | 4 | 1003 021 |
| 120 | 60 | 30 | 50 | 4 | 1003 022 |
| 120 | 70 | 30 | 50 | 4 | 1003 023 |
| 120 | 80 | 30 | 50 | 4 | 1003 024 |
| 120 | 90 | 30 | 50 | 4 | 1003 025 |
| 120 | 100 | 30 | 50 | 4 | 1003 026 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 160 | 15 | 30 | 50 | 4 | 1003 040 |
| 160 | 20 | 30 | 50 | 4 | 1003 041 |
| 160 | 25 | 30 | 50 | 4 | 1003 042 |
| 160 | 30 | 30 | 50 | 4 | 1003 043 |
| 160 | 35 | 30 | 50 | 4 | 1003 044 |
| 160 | 40 | 30 | 50 | 4 | 1003 045 |
| 160 | 45 | 30 | 50 | 4 | 1003 046 |
| 160 | 50 | 30 | 50 | 4 | 1003 047 |
| 160 | 60 | 30 | 50 | 4 | 1003 048 |
| 160 | 70 | 30 | 50 | 4 | 1003 049 |
| 160 | 80 | 30 | 50 | 4 | 1003 050 |
| 160 | 90 | 30 | 50 | 4 | 1003 051 |
| 160 | 100 | 30 | 50 | 4 | 1003 052 |

| | | | | | |
|-----|-----|----|----|---|-----------------|
| 200 | 15 | 30 | 50 | 4 | 1003 066 |
| 200 | 20 | 30 | 50 | 4 | 1003 067 |
| 200 | 25 | 30 | 50 | 4 | 1003 068 |
| 200 | 30 | 30 | 50 | 4 | 1003 069 |
| 200 | 35 | 30 | 50 | 4 | 1003 070 |
| 200 | 40 | 30 | 50 | 4 | 1003 071 |
| 200 | 45 | 30 | 50 | 4 | 1003 072 |
| 200 | 50 | 30 | 50 | 4 | 1003 073 |
| 200 | 60 | 30 | 50 | 4 | 1003 074 |
| 200 | 70 | 30 | 50 | 4 | 1003 075 |
| 200 | 80 | 30 | 50 | 4 | 1003 076 |
| 200 | 90 | 30 | 50 | 4 | 1003 077 |
| 200 | 100 | 30 | 50 | 4 | 1003 078 |

| | | | | | |
|-----|----|----|----|---|-----------------|
| 300 | 15 | 30 | 50 | 4 | 1003 083 |
| 300 | 20 | 30 | 50 | 4 | 1003 084 |
| 300 | 25 | 30 | 50 | 4 | 1003 085 |
| 300 | 30 | 30 | 50 | 4 | 1003 086 |

Per frese Z3 sconto 10%
Per frese Z6 aumento 20%

For cutters Z3 discount 10%
For cutters Z6 increase 20%

1004



Frese concave per quarti di tondo Z4.
Concave cutters for quarter circles Z4.
Fraises concaves pour quarts de rond Z4.
Viertelstabfräser Z4.
Fresas cóncavas para cuartos de barra Z4.

| D | B | R | d | d/max | rpm | ID nr. DX | ID nr. SX |
|-----|------|------|----|-------|------|-----------------|-----------------|
| 140 | 19 | 5 | 30 | 50 | 9400 | 1004 001 | 1004 002 |
| 140 | 21,5 | 7,5 | 30 | 50 | 9400 | 1004 003 | 1004 004 |
| 140 | 24 | 10 | 30 | 50 | 9400 | 1004 005 | 1004 006 |
| 140 | 26,5 | 12,5 | 30 | 50 | 9400 | 1004 007 | 1004 008 |
| 140 | 29 | 15 | 30 | 50 | 9400 | 1004 009 | 1004 010 |
| 140 | 35 | 20 | 30 | 50 | 9400 | 1004 011 | 1004 012 |
| 160 | 40 | 25 | 30 | 50 | 8500 | 1004 013 | 1004 014 |
| 160 | 46 | 30 | 30 | 50 | 8500 | 1004 015 | 1004 016 |
| 180 | 54 | 35 | 30 | 50 | 7800 | 1004 017 | 1004 018 |
| 180 | 56 | 40 | 30 | 50 | 7800 | 1004 019 | 1004 020 |

MAN



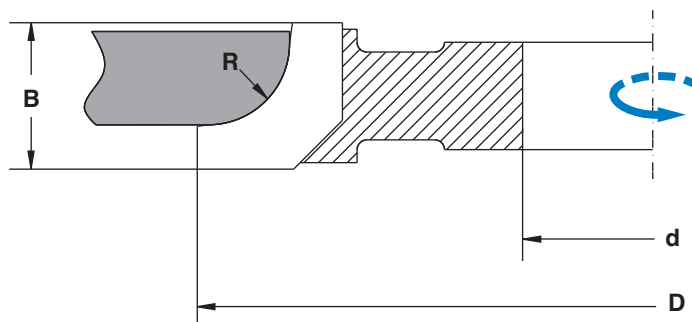
Caratteristiche

Esecuzione in HM o HSS:
HM per legni teneri, duri, incollati, MDF,
multistrati, truciolari e abrasivi;
HSS per legni teneri e duri non incollati.

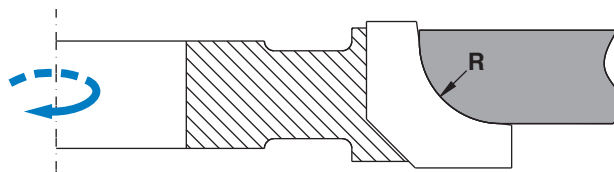
Characteristics

Execution in HM or HSS:
HM execution for abrasive, soft, hard, glued
woods, MDF, plywood and chipboard;
HSS for soft and hard not-glued woods.

DX



SX



Frese concave per mezzitondi Z4.

Concave cutters for semi-circles Z4.

Fraises concaves pour demi-rond Z4.

Halbstabfräser Z4.

Fresas cóncavas para barras semicirculares Z4.

| D | B | R | d | d/max | rpm | ID nr. |
|-----|----|------|----|-------|------|-----------------|
| 140 | 30 | 5 | 30 | 50 | 9400 | 1005 001 |
| 140 | 30 | 6 | 30 | 50 | 9400 | 1005 002 |
| 140 | 35 | 7,5 | 30 | 50 | 9400 | 1005 003 |
| 140 | 40 | 10 | 30 | 50 | 9400 | 1005 004 |
| 140 | 45 | 12,5 | 30 | 50 | 9400 | 1005 005 |
| 140 | 50 | 15 | 30 | 50 | 9400 | 1005 006 |
| 140 | 62 | 20 | 30 | 50 | 9400 | 1005 007 |
| 160 | 72 | 25 | 30 | 50 | 8500 | 1005 008 |
| 160 | 77 | 30 | 30 | 50 | 8500 | 1005 009 |

1005



MAN



Caratteristiche

Esecuzione in HM o HSS:

HM per legni teneri, duri, incollati, MDF, multistrati, truciolari e abrasivi;

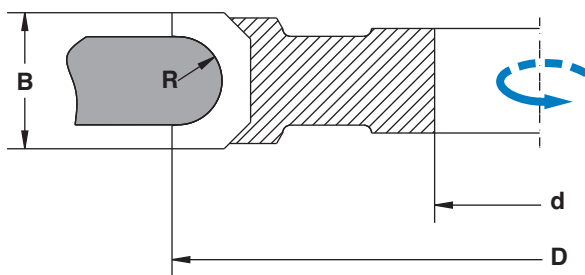
HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:

HM execution for abrasive, soft, hard, glued woods, MDF, plywood and chipboard;

HSS for soft and hard not-glued woods.



1006

Frese convesse per quarti di tondo Z4.
Convex cutters for quarter circles Z4.
 Fraises convexes pour quarts de rond Z4.
Halbhohlkehlefräser Z4.
 Fresas convexas para cuartos de barra Z4.



| D | B | R | d | d/max | rpm | ID nr. DX | ID nr. SX |
|-----|----|------|----|-------|------|-----------------|-----------------|
| 140 | 10 | 5 | 30 | 50 | 9400 | 1006 001 | 1006 002 |
| 140 | 13 | 7,5 | 30 | 50 | 9400 | 1006 003 | 1006 004 |
| 140 | 15 | 10 | 30 | 50 | 9400 | 1006 005 | 1006 006 |
| 140 | 18 | 12,5 | 30 | 50 | 9400 | 1006 007 | 1006 008 |
| 140 | 20 | 15 | 30 | 50 | 9400 | 1006 009 | 1006 010 |
| 140 | 22 | 18 | 30 | 50 | 9400 | 1006 011 | 1006 012 |
| 140 | 25 | 20 | 30 | 50 | 9400 | 1006 013 | 1006 014 |
| 160 | 30 | 25 | 30 | 50 | 8500 | 1006 015 | 1006 016 |
| 160 | 35 | 30 | 30 | 50 | 8500 | 1006 017 | 1006 018 |

MAN

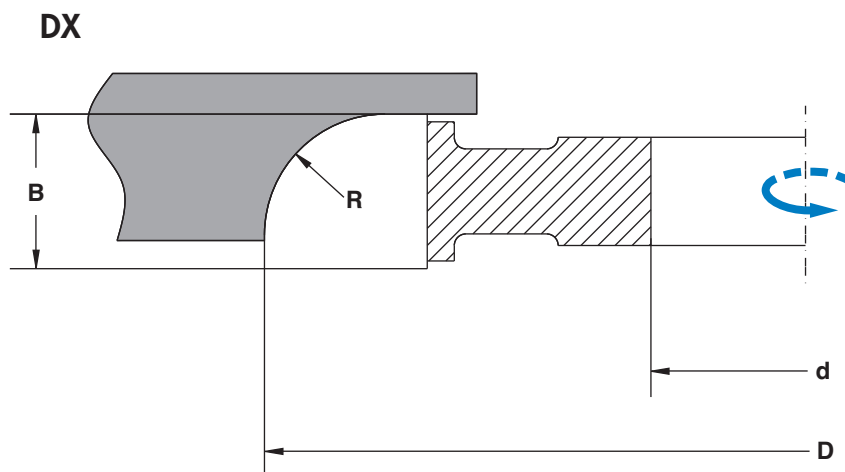


Caratteristiche

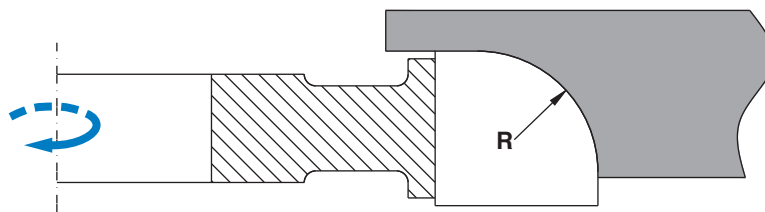
Esecuzione in HM o HSS:
 HM per legni teneri, duri, incollati, MDF, multistrati, truciolari e abrasivi;
 HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:
 HM execution for abrasive, soft, hard, glued woods, MDF, plywood and chipboard;
 HSS for soft and hard not-glued woods.



SX



Frese convesse per mezzi tondi Z4.

Convex cutters for semi-circles Z4.

Fraises convexes pour demi-rond Z4.

Hohlkehlefräser Z4.

Fresas convexas para barras semicirculares Z4.

1007



| D | B | R | d | d/max | rpm | ID nr. |
|-----|----|------|----|-------|------|-----------------|
| 140 | 10 | 5 | 30 | 50 | 9400 | 1007 001 |
| 140 | 12 | 6 | 30 | 50 | 9400 | 1007 002 |
| 140 | 15 | 7,5 | 30 | 50 | 9400 | 1007 003 |
| 140 | 20 | 10 | 30 | 50 | 9400 | 1007 004 |
| 140 | 25 | 12,5 | 30 | 50 | 9400 | 1007 005 |
| 140 | 30 | 15 | 30 | 50 | 9400 | 1007 006 |
| 140 | 40 | 20 | 30 | 50 | 9400 | 1007 007 |
| 160 | 50 | 25 | 30 | 50 | 8500 | 1007 008 |
| 160 | 60 | 30 | 30 | 50 | 8500 | 1007 009 |

MAN



Caratteristiche

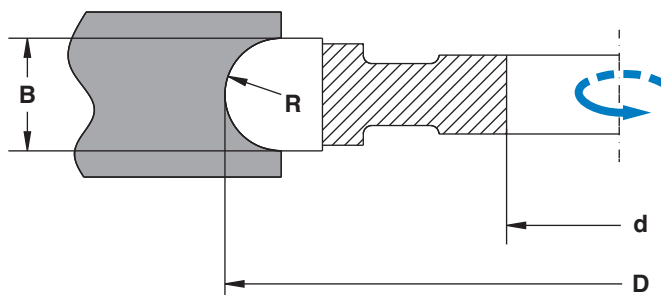
Esecuzione in HM o HSS:

HM per legni teneri, duri, incollati, MDF, multistrati, truciolari e abrasivi;
HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:

HM execution for abrasive, soft, hard, glued woods, MDF, plywood and chipboard;
HSS for soft and hard not-glued woods.



1008



MAN



Caratteristiche

Fresa a 3 taglienti riportati in HM per eseguire profili combinati realizzati in una o più lavorazioni su qualsiasi tipo di legno.

Characteristics

Milling cutter with 3 tips in HM for executing combined profiled in one or more operations on any kind of wood.

Fresa sagomata multiprofil.

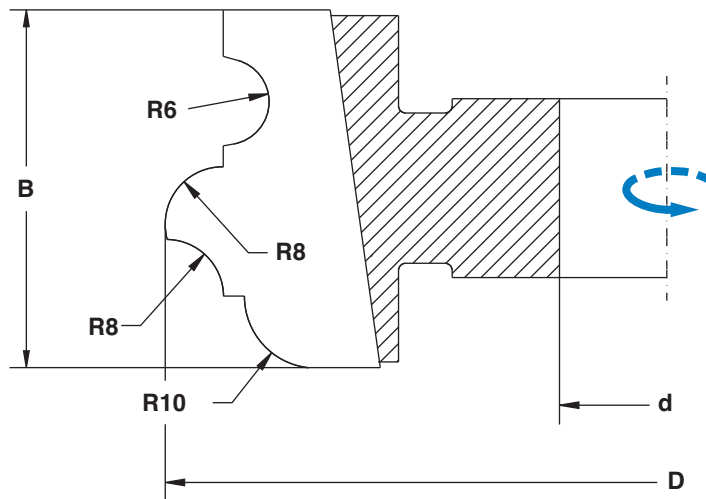
Multiprofile cutter.

Fraise multiprofil.

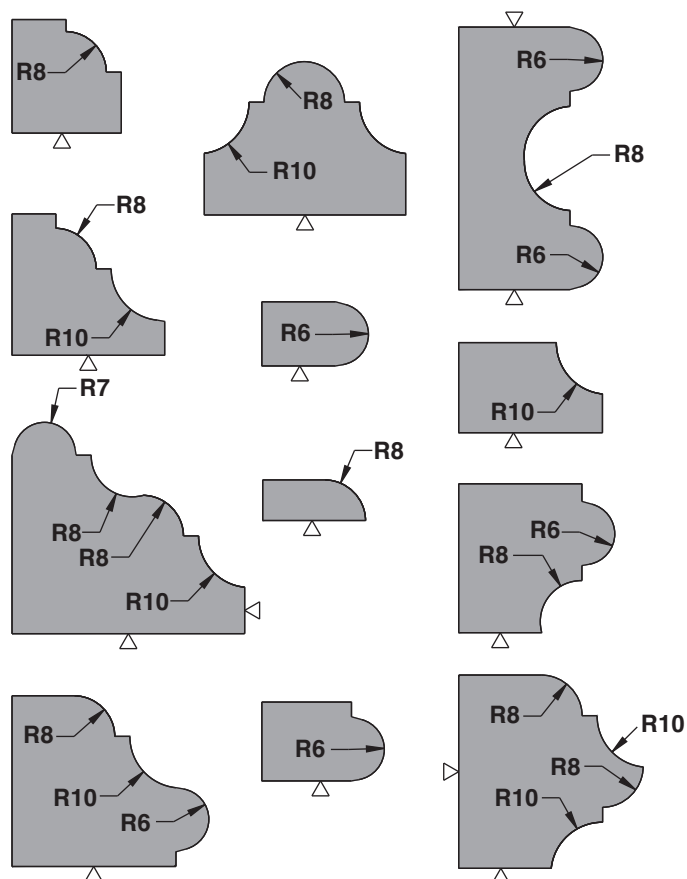
Top-profiler.

Fresa moldurada para perfiles multiples.

| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|---------|
| 140 | 50 | 30 | 50 | 3 | 9400 | 1008001 |



ESEMPI DI PROFILI ESEGUIBILI



Frese per giunzioni regolabili Z3+3.

Adjustable cutters for joints Z3+3.

Fraises pour jonctions réglables Z3+3.

Verstellbarer Fräser für Nute und Fugen Z3+3.

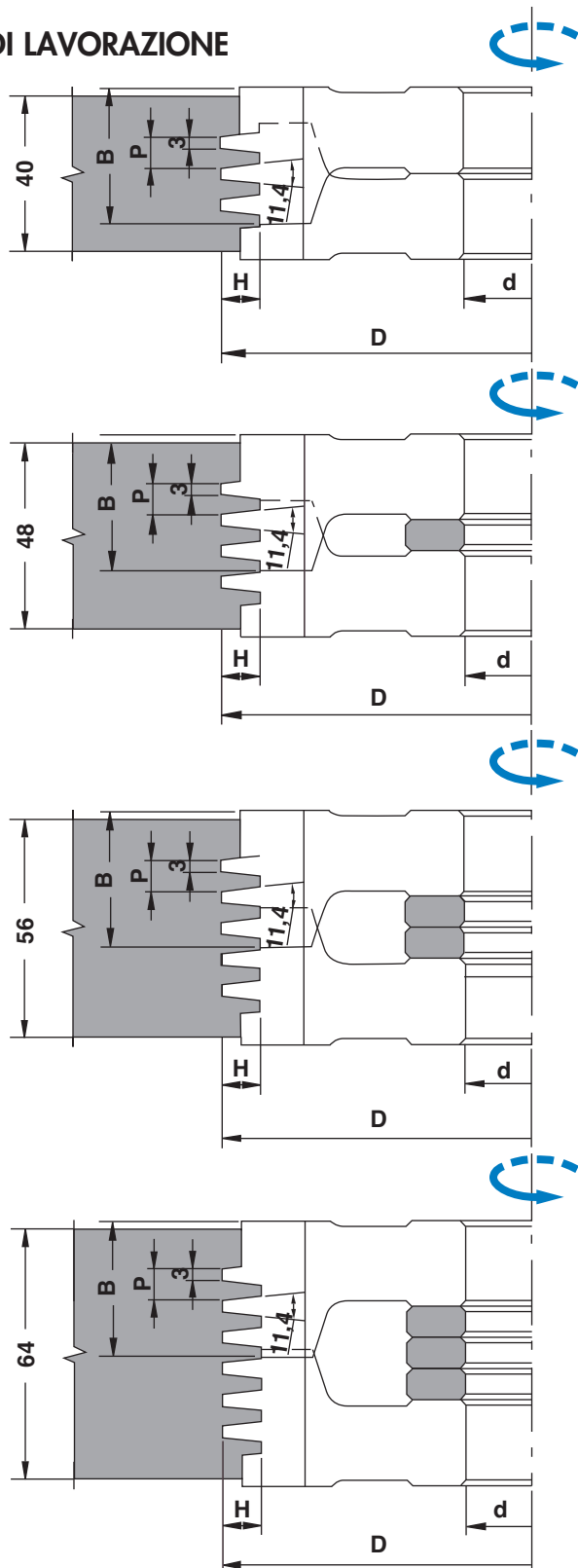
Fresas para ensambles en paneles de espesor variable Z3+3.

1020

| D | B | d | d/max | P | H | rpm | ID nr. |
|-----|----|----|-------|---|----|------|-----------------|
| 160 | 35 | 30 | 50 | 8 | 10 | 6000 | 1020 051 |
| | | | | | | | |



ESEMPI DI LAVORAZIONE



MAN



Caratteristiche

Esecuzione in HM o HSS:

HM per legni abrasivi, teneri, duri, incollati, MDF, multistrati e truciolari;

HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:

HM execution for abrasive, soft, hard, MDF, glued woods, plywood and chipboard;

HSS for soft and hard not-glued woods.

1022



Caratteristiche

Per macchine provviste di lame per intestare vengono fornite frese con profondità dentello 10/11mm, 15/16,5mm e 20/22mm.

Con l'intestatura può venir variata la profondità della giunzione.

In tale maniera la luce della giunzione può essere variata in funzione dei vari tipi di legno da lavorare.

Characteristics

The machines equipped with ending sawblades will be supplied with cutterheads with tooth depth 10/11mm, 15/16,5mm and 20/22mm.

The edge-bander and the connection depth can be modify.

In this way the empty spaces between the connections can be changed for different kind of woods to carve.

Frese MINIZINKEN Z2+2+HSS.

Joint cutters MINIZINKEN Z2+2+HSS.

Fraises pour jonctions MINIZINKEN Z2+2+HSS.

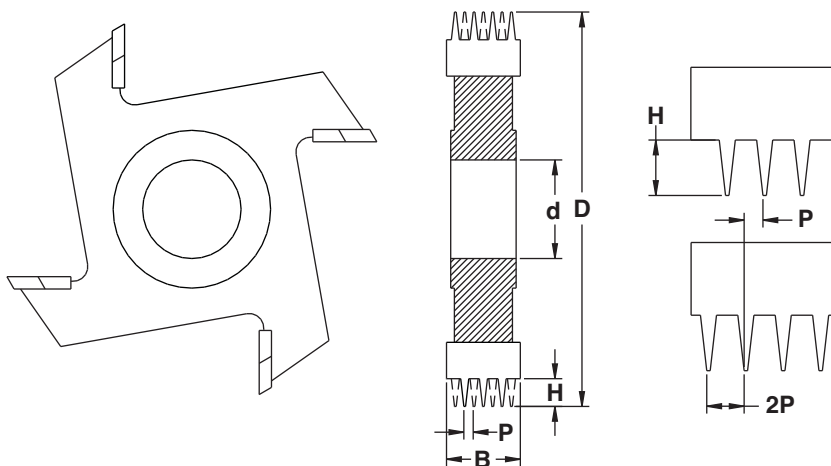
Fräser MINIZINKEN Z2+2+HSS.

Fresas MINIZINKEN Z2+2+HSS.

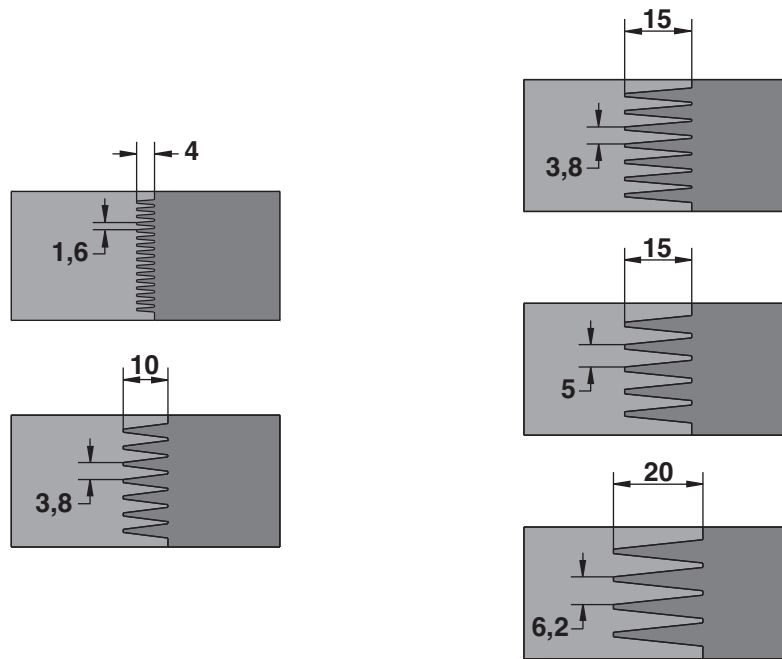
| D | B | d | d/max | P | H | rpm | ID nr. |
|------|------|----|-------|-----|------------|------|-----------------|
| 160* | 26 | 30 | 50 | 1,6 | 4 | 8200 | 1022 001 |
| 160* | 28,6 | 30 | 50 | 3,8 | 10-10/11 | 8200 | 1022 002 |
| 160* | 36,2 | 30 | 50 | 3,8 | 10-10/11 | 8200 | 1022 006 |
| 170 | 28,6 | 30 | 50 | 3,8 | 15-15/16,5 | 7200 | 1022 003 |
| 170 | 36,2 | 30 | 50 | 3,8 | 15-15/16,5 | 7200 | 1022 007 |
| 170* | 42 | 30 | 50 | 5 | 15-15/16,5 | 7200 | 1022 004 |
| 180 | 33 | 30 | 50 | 6,2 | 20-20/22 | 7000 | 1022 005 |
| 180 | 45,4 | 30 | 50 | 6,2 | 20-20/22 | 7000 | 1022 008 |
| 250* | 28,6 | 30 | 50 | 3,8 | 10-10/11 | 6000 | 1022 009 |
| 250* | 36,2 | 30 | 50 | 3,8 | 10-10/11 | 6000 | 1022 010 |
| 260 | 28,6 | 30 | 50 | 3,8 | 15-15/16,5 | 5800 | 1022 011 |
| 260 | 33 | 30 | 50 | 6,2 | 20-20/22 | 5800 | 1022 012 |
| 260 | 36,2 | 30 | 50 | 3,8 | 15-15/16,5 | 5800 | 1022 013 |
| 260 | 45,4 | 30 | 50 | 6,2 | 20-20/22 | 5800 | 1022 014 |

*Esecuzione in HM su richiesta

*Execution in HM on request



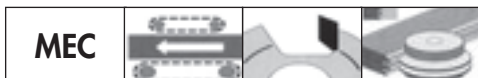
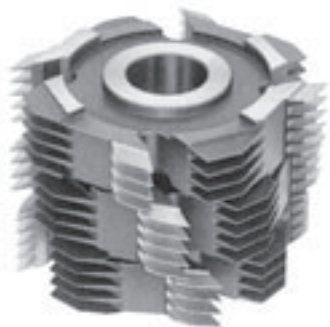
PROFILI ESEGUIBILI



Come determinare il numero di frese rispetto allo spessore del legno
 How to know the joint cutter number referring to the thickness of wood

| ART. 1022001 | | ART. 1022005 | | ART. 1022002/3 | | ART. 1022006/7 | | ART. 1022004 | | ART. 1022008 | |
|--------------|----------|--------------|----------|----------------|----------|----------------|----------|--------------|----------|--------------|----------|
| Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE |
| 23 | 1 | 28 | 1 | 24 | 1 | 33 | 1 | 38 | 1 | 40 | 1 |
| 47 | 2 | 59 | 2 | 51 | 2 | 66 | 2 | 78 | 2 | 83 | 2 |
| 71 | 3 | 90 | 3 | 77 | 3 | 100 | 3 | 118 | 3 | 127 | 3 |
| 95 | 4 | 121 | 4 | 104 | 4 | 135 | 4 | 158 | 4 | 170 | 4 |
| 119 | 5 | 152 | 5 | 131 | 5 | 172 | 5 | 198 | 5 | 214 | 5 |
| | | 183 | 6 | 157 | 6 | 207 | 6 | 238 | 6 | 257 | 6 |
| | | 214 | 7 | 184 | 7 | 242 | 7 | 278 | 7 | 300 | 7 |
| | | 245 | 8 | 210 | 8 | 276 | 8 | 318 | 8 | 344 | 8 |
| | | 276 | 9 | 237 | 9 | | | 358 | 9 | | |
| | | 307 | 10 | 264 | 10 | | | 398 | 10 | | |

1023



Caratteristiche

Per macchine provviste di lame per intestare vengono fornite frese con profondità dentello 10/11mm, 15/16,5mm e 20/22mm.

Con l'intestatura può venir variata la profondità della giunzione.

In tale maniera la luce della giunzione può essere variata in funzione dei vari tipi di legno da lavorare.

Characteristics

The machines equipped with ending sawblades will be supplied with cutterheads with tooth depth 10/11mm, 15/16,5mm and 20/22mm.

The edge-bander and the connection depth can be modify.

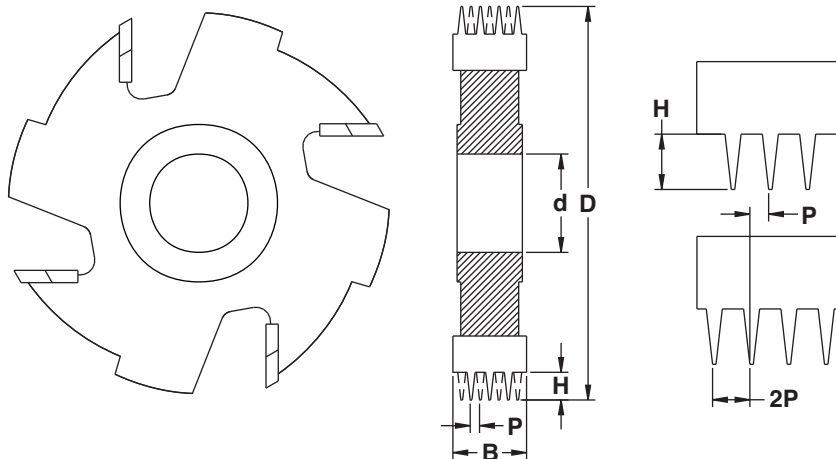
In this way the empty spaces between the connections can be changed for different kind of woods to carve.

Frese MINIZINKEN Z2+2 con limitatore per avanzamento manuale.
Joint cutter MINIZINKEN Z2+2 with chip limitation butts for manually feed.
 Fraises pour jonctions MINIZINKEN Z2+2 avec refouleur limitant.
Fräser MINIZINKEN Z2+2 mit Zuschneid.
 Fresas MINIZINKEN Z2+2 con limitación de virutas para el avance manual.

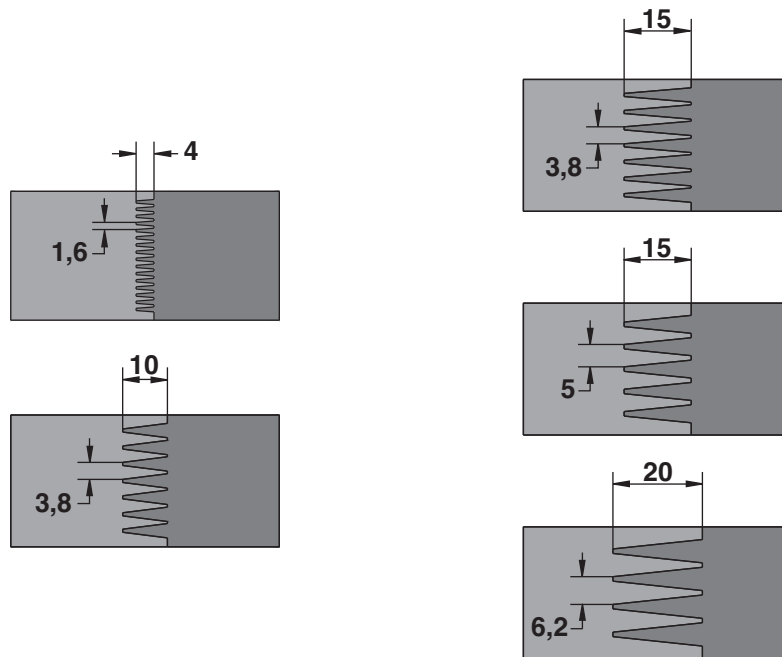
| D | B | d | d/max | P | H | rpm | ID nr. |
|------|------|----|-------|-----|------------|------|-----------------|
| 160* | 26 | 30 | 50 | 1,6 | 4 | 8200 | 1023 003 |
| 160* | 28,6 | 30 | 50 | 3,8 | 10-10/11 | 8200 | 1023 001 |
| 160* | 36,2 | 30 | 50 | 3,8 | 10-10/11 | 8200 | 1023 002 |
| 170 | 28,6 | 30 | 50 | 3,8 | 15-15/16,5 | 7200 | 1023 004 |
| 170 | 36,2 | 30 | 50 | 3,8 | 15-15/16,5 | 7200 | 1023 005 |
| 170* | 42 | 30 | 50 | 5 | 15-15/16,5 | 7200 | 1023 006 |
| 180 | 33 | 30 | 50 | 6,2 | 20-20/22 | 7000 | 1023 007 |
| 180 | 45,4 | 30 | 50 | 6,2 | 20-20/22 | 7000 | 1023 008 |
| 250* | 28,6 | 30 | 50 | 3,8 | 10-10/11 | 6000 | 1023 009 |
| 250* | 36,2 | 30 | 50 | 3,8 | 10-10/11 | 6000 | 1023 010 |
| 260 | 28,6 | 30 | 50 | 3,8 | 15-15/16,5 | 5800 | 1023 011 |
| 260 | 33 | 30 | 50 | 6,2 | 20-20/22 | 5800 | 1023 012 |
| 260 | 36,2 | 30 | 50 | 3,8 | 15-15/16,5 | 5800 | 1023 013 |
| 260 | 45,4 | 30 | 50 | 6,2 | 20-20/22 | 5800 | 1023 014 |

*Esecuzione in HM su richiesta

*Execution in HM on request



PROFILI ESEGUIBILI



Come determinare il numero di frese rispetto allo spessore del legno
 How to know the joint cutter number referring to the thickness of wood

| ART. 1022001 | | ART. 1022005 | | ART. 1022002/3 | | ART. 1022006/7 | | ART. 1022004 | | ART. 1022008 | |
|--------------|----------|--------------|----------|----------------|----------|----------------|----------|--------------|----------|--------------|----------|
| Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE | Sp. LEGNO | N° FRESE |
| 23 | 1 | 28 | 1 | 24 | 1 | 33 | 1 | 38 | 1 | 40 | 1 |
| 47 | 2 | 59 | 2 | 51 | 2 | 66 | 2 | 78 | 2 | 83 | 2 |
| 71 | 3 | 90 | 3 | 77 | 3 | 100 | 3 | 118 | 3 | 127 | 3 |
| 95 | 4 | 121 | 4 | 104 | 4 | 135 | 4 | 158 | 4 | 170 | 4 |
| 119 | 5 | 152 | 5 | 131 | 5 | 172 | 5 | 198 | 5 | 214 | 5 |
| | | 183 | 6 | 157 | 6 | 207 | 6 | 238 | 6 | 257 | 6 |
| | | 214 | 7 | 184 | 7 | 242 | 7 | 278 | 7 | 300 | 7 |
| | | 245 | 8 | 210 | 8 | 276 | 8 | 318 | 8 | 344 | 8 |
| | | 276 | 9 | 237 | 9 | | | 358 | 9 | | |
| | | 307 | 10 | 264 | 10 | | | 398 | 10 | | |

1024



MEC



Caratteristiche

Fresa laterale per giunzioni in combinazione con frese MINIZINKEN per legni teneri e duri.

Characteristics

Joint cutter for working together with MINIZINKEN cutters.

Suitable for soft and hardwoods.

Frese laterali per MINIZINKEN Z4.

Joint cutters MINIZINKEN Z4.

Fraises pour jonctions MINIZINKEN Z4.

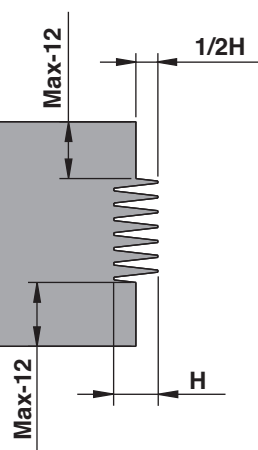
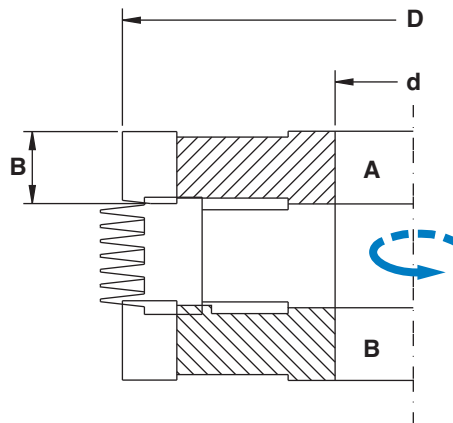
Fräser MINIZINKEN Z4.

Fresas laterales para MINIZINKEN Z4.

| D | B | d | d/max | TIPO | rpm | ID nr. |
|------|----|----|-------|------|------|-----------------|
| 156* | 15 | 30 | 50 | A | 8200 | 1024 001 |
| 150* | 15 | 30 | 50 | A | 8200 | 1024 002 |
| 155* | 15 | 30 | 50 | A | 8200 | 1024 003 |
| 160 | 15 | 30 | 50 | A | 8200 | 1024 004 |
| 156 | 15 | 30 | 50 | B | 8200 | 1024 005 |
| 150 | 15 | 30 | 50 | B | 8200 | 1024 006 |
| 155 | 15 | 30 | 50 | B | 8200 | 1024 007 |
| 160 | 15 | 30 | 50 | B | 8200 | 1024 008 |

*Esecuzione in HM su richiesta

*Execution in HM on request



Frese per smussi a 45° Z4.
 Chanfering cutters 45° Z4.
 Fraises pour chanfreiner 45° Z4.
 Fasefräser 45° Z4.
 Fresas para biselés de 45° Z4

1027



| D | B | d | d/max | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|-------|-------|-----------------|-----------------|
| 120 | 10 | 30 | 50 | 10500 | 1027 101 | 1027 102 |
| 120 | 15 | 30 | 50 | 10500 | 1027 103 | 1027 104 |
| 120 | 20 | 30 | 50 | 10500 | 1027 105 | 1027 106 |
| 140 | 10 | 30 | 50 | 9400 | 1027 107 | 1027 108 |
| 140 | 15 | 30 | 50 | 9400 | 1027 109 | 1027 110 |
| 140 | 20 | 30 | 50 | 9400 | 1027 111 | 1027 112 |
| 140 | 25 | 30 | 50 | 9400 | 1027 113 | 1027 114 |
| 140 | 30 | 30 | 50 | 9400 | 1027 115 | 1027 116 |
| 160 | 10 | 30 | 50 | 8500 | 1027 117 | 1027 118 |
| 160 | 15 | 30 | 50 | 8500 | 1027 119 | 1027 120 |
| 160 | 20 | 30 | 50 | 8500 | 1027 121 | 1027 122 |
| 160 | 25 | 30 | 50 | 8500 | 1027 123 | 1027 124 |
| 160 | 30 | 30 | 50 | 8500 | 1027 125 | 1027 126 |
| 160 | 35 | 30 | 50 | 8300 | 1027 127 | 1027 128 |
| 160 | 40 | 30 | 50 | 8300 | 1027 129 | 1027 130 |
| 180 | 10 | 30 | 50 | 7400 | 1027 131 | 1027 132 |
| 180 | 15 | 30 | 50 | 7400 | 1027 133 | 1027 134 |
| 180 | 20 | 30 | 50 | 7400 | 1027 135 | 1027 136 |
| 180 | 25 | 30 | 50 | 7400 | 1027 137 | 1027 138 |
| 180 | 30 | 30 | 50 | 7400 | 1027 139 | 1027 140 |
| 180 | 35 | 30 | 50 | 7400 | 1027 141 | 1027 142 |
| 180 | 40 | 30 | 50 | 7400 | 1027 143 | 1027 144 |
| 180 | 45 | 30 | 50 | 7400 | 1027 145 | 1027 146 |
| 180 | 50 | 30 | 50 | 7400 | 1027 147 | 1027 148 |

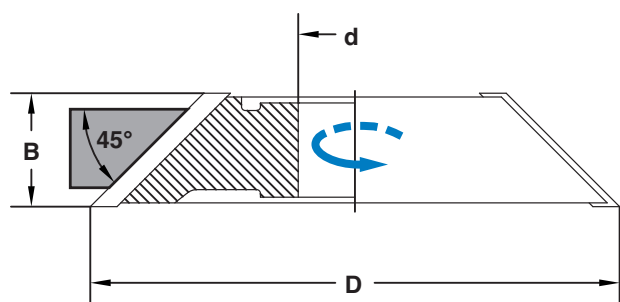


Caratteristiche

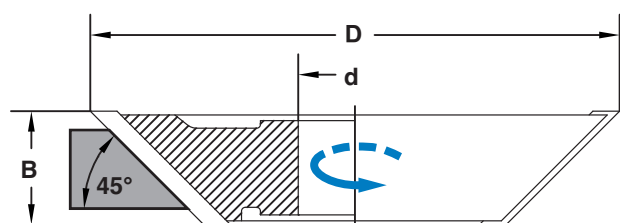
Esecuzione in HM o HSS:
 HM per legni abrasivi, teneri, duri, incollati,
 MDF, multistrati e truciolari;
 HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:
 HM execution for abrasive, soft, hard, MDF,
 glued woods, plywood and chipboard;
 HSS for soft and hard not-glued woods.



DX



SX

1028



Caratteristiche

Esecuzione in HM o HSS:

HM per legni esotici, incollati e truciolari;

HSS per legni teneri e duri non incollati.

Characteristics

Execution in HM or HSS:

HM for glued woods, exotics and chipboard;

HSS for soft and hardwoods not glued.

Frese per canali a spessore costante.

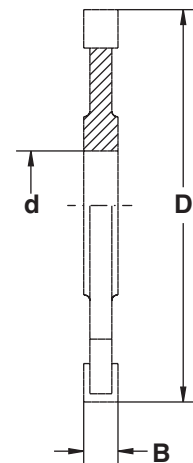
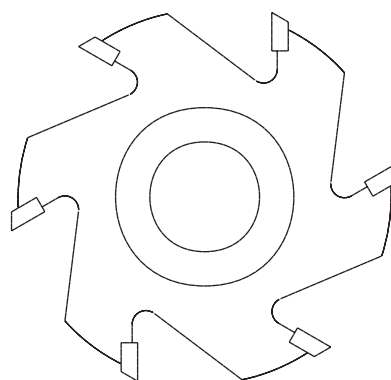
Grooving cutters with constant thickness.

Fraises à rainier avec épaisseur constant.

Nutfräser mit konstant Stärke.

Fresas para ranuras a espesor constante.

| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|-------|-----------------|
| 140 | 4 | 30 | 50 | 6 | 10500 | 1028 001 |
| 140 | 6 | 30 | 50 | 6 | 10500 | 1028 002 |
| 140 | 8 | 30 | 50 | 6 | 10500 | 1028 003 |
| 140 | 10 | 30 | 50 | 6 | 10500 | 1028 004 |
| 140 | 12 | 30 | 50 | 6 | 10500 | 1028 005 |
| 140 | 14 | 30 | 50 | 6 | 10500 | 1028 006 |
| 140 | 16 | 30 | 50 | 6 | 10500 | 1028 007 |
| 140 | 18 | 30 | 50 | 6 | 10500 | 1028 008 |
| 140 | 20 | 30 | 50 | 6 | 10500 | 1028 009 |
| 160 | 4 | 30 | 50 | 6 | 9500 | 1028 021 |
| 160 | 6 | 30 | 50 | 6 | 9500 | 1028 022 |
| 160 | 8 | 30 | 50 | 6 | 9500 | 1028 023 |
| 160 | 10 | 30 | 50 | 6 | 9500 | 1028 024 |
| 160 | 12 | 30 | 50 | 6 | 9500 | 1028 025 |
| 160 | 14 | 30 | 50 | 6 | 9500 | 1028 026 |
| 160 | 16 | 30 | 50 | 6 | 9500 | 1028 027 |
| 160 | 18 | 30 | 50 | 6 | 9500 | 1028 028 |
| 160 | 20 | 30 | 50 | 6 | 9500 | 1028 029 |
| 200 | 4 | 30 | 50 | 6 | 8000 | 1028 031 |
| 200 | 6 | 30 | 50 | 6 | 8000 | 1028 032 |
| 200 | 8 | 30 | 50 | 6 | 8000 | 1028 033 |
| 200 | 10 | 30 | 50 | 6 | 8000 | 1028 034 |
| 200 | 12 | 30 | 50 | 6 | 8000 | 1028 035 |
| 200 | 14 | 30 | 50 | 6 | 8000 | 1028 036 |
| 200 | 16 | 30 | 50 | 6 | 8000 | 1028 037 |
| 200 | 18 | 30 | 50 | 6 | 8000 | 1028 038 |
| 200 | 20 | 30 | 50 | 6 | 8000 | 1028 039 |



Frese per canali a spessore costante.

Grooving cutters with constant thickness.

Fraises à rainier avec épaisseur constant.

Nutfräser mit konstant Stärke.

Fresas con precortadores para ranuras a espesor constante.

1029



| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|-----|------|-----------------|
| 140 | 4 | 30 | 50 | 4+4 | 9400 | 1029 001 |
| 140 | 5 | 30 | 50 | 4+4 | 9400 | 1029 002 |
| 140 | 6 | 30 | 50 | 4+4 | 9400 | 1029 003 |
| 140 | 8 | 30 | 50 | 4+4 | 9400 | 1029 004 |
| 140 | 10 | 30 | 50 | 4+4 | 9400 | 1029 005 |
| 140 | 12 | 30 | 50 | 4+4 | 9400 | 1029 006 |
| 140 | 14 | 30 | 50 | 4+4 | 9400 | 1029 007 |
| 140 | 16 | 30 | 50 | 4+4 | 9400 | 1029 008 |
| 140 | 18 | 30 | 50 | 4+4 | 9400 | 1029 009 |
| 140 | 20 | 30 | 50 | 4+4 | 9400 | 1029 010 |
| | | | | | | |
| 160 | 4 | 30 | 50 | 4+4 | 9500 | 1029 021 |
| 160 | 5 | 30 | 50 | 4+4 | 9500 | 1029 022 |
| 160 | 6 | 30 | 50 | 4+4 | 9500 | 1029 023 |
| 160 | 8 | 30 | 50 | 4+4 | 9500 | 1029 024 |
| 160 | 10 | 30 | 50 | 4+4 | 9500 | 1029 025 |
| 160 | 12 | 30 | 50 | 4+4 | 9500 | 1029 026 |
| 160 | 14 | 30 | 50 | 4+4 | 9500 | 1029 027 |
| 160 | 16 | 30 | 50 | 4+4 | 9500 | 1029 028 |
| 160 | 18 | 30 | 50 | 4+4 | 9500 | 1029 029 |
| 160 | 20 | 30 | 50 | 4+4 | 9500 | 1029 030 |
| | | | | | | |
| 200 | 4 | 30 | 50 | 8+8 | 8000 | 1029 031 |
| 200 | 5 | 30 | 50 | 8+8 | 8000 | 1029 032 |
| 200 | 6 | 30 | 50 | 8+8 | 8000 | 1029 033 |
| 200 | 8 | 30 | 50 | 8+8 | 8000 | 1029 034 |
| 200 | 10 | 30 | 50 | 8+8 | 8000 | 1029 035 |
| 200 | 12 | 30 | 50 | 8+8 | 8000 | 1029 036 |
| 200 | 14 | 30 | 50 | 8+8 | 8000 | 1029 037 |
| 200 | 16 | 30 | 50 | 8+8 | 8000 | 1029 038 |
| 200 | 18 | 30 | 50 | 8+8 | 8000 | 1029 039 |
| 200 | 20 | 30 | 50 | 8+8 | 8000 | 1029 040 |



Caratteristiche

Esecuzione in HM o HSS:

HM per legni esotici, incollati e truciolari con ottima finitura;

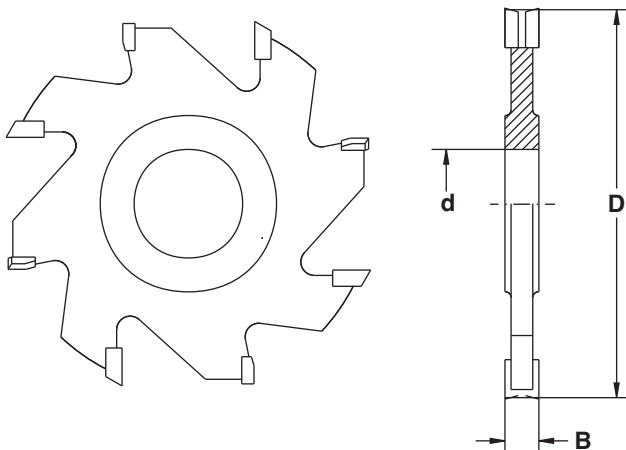
HSS per legni teneri e duri non incollati con ottima finitura.

Characteristics

Execution in HM o HSS:

HM for glued woods, exotic and chipboard with good finish;

HSS for soft and hardwoods not glued with good finish.



1030



Caratteristiche

Esecuzione in HM o HSS:

HM per legni abrasivi, teneri, duri, incollati, laminati, compensati, truciolari o altro;
HSS per legni teneri e duri non incollati.

Esecuzione con 4 taglienti più 4 rasanti (2 per ogni fianco) con limitatore di truciolo.

P/max = profondità massima d'incastro.

Characteristics

Execution in HM or HSS:

HM execution for abrasive, soft, hard, glued wood plywood, laminated panels and chipboard and more;

HSS for soft and hard not-glued woods.

With 4 cutting edges and 4 spurs (2 for each side) with chip limiting device.

P/max = maximum depth of groove.

Frese per canali con rasanti a spessore regolabile mediante anelli.

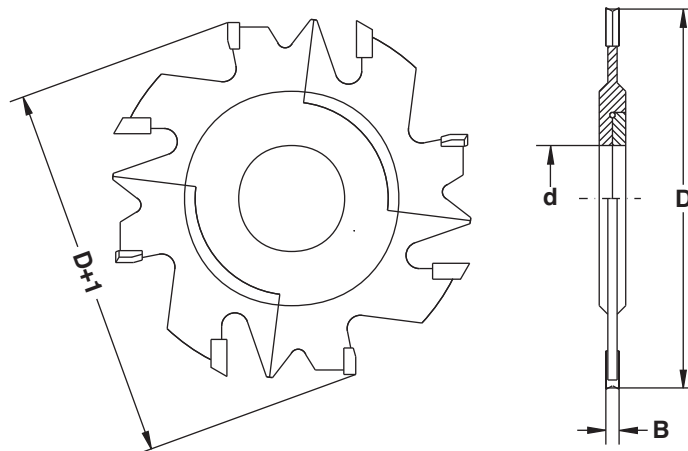
Grooving cutters with adjustable thickness by rings.

Fraises à rainer avec rasants et réglable par anneaux.

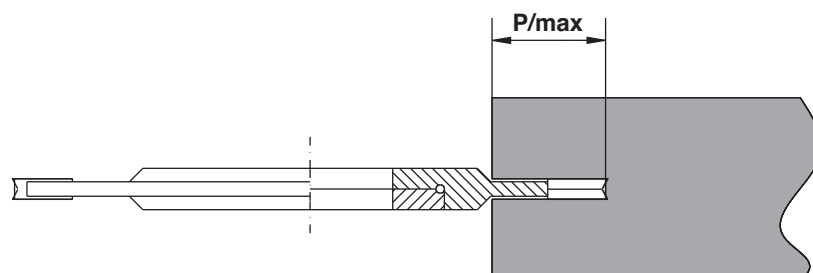
Verstellnutenfräser mit regelbar Stärke durch Ring.

Fresas para ranuras con precortadores regulables con anillos.

| D | B | P/max | d | d/max | Z | rpm | ID nr. |
|-----|---------|-------|----|-------|-----|------|-----------------|
| 140 | 2,5÷5 | 25 | 30 | 50 | 4+4 | 9400 | 1030 001 |
| 140 | 4÷7,5 | 25 | 30 | 50 | 4+4 | 9400 | 1030 002 |
| 140 | 7,5÷14 | 25 | 30 | 50 | 4+4 | 9400 | 1030 003 |
| 140 | 10÷19,5 | 25 | 30 | 50 | 4+4 | 9400 | 1030 004 |
| 140 | 15÷29,5 | 25 | 30 | 50 | 4+4 | 9400 | 1030 005 |
| 180 | 2,5÷5 | 30 | 30 | 50 | 4+4 | 7400 | 1030 006 |
| 180 | 4÷7,5 | 30 | 30 | 50 | 4+4 | 7400 | 1030 007 |
| 180 | 7,5÷14 | 35 | 30 | 50 | 4+4 | 7400 | 1030 008 |
| 180 | 10÷19,5 | 35 | 30 | 50 | 4+4 | 7400 | 1030 009 |
| 180 | 15÷29,5 | 35 | 30 | 50 | 4+4 | 7400 | 1030 010 |
| 250 | 5÷9,5 | 50 | 30 | 50 | 8+8 | 5400 | 1030 011 |
| 250 | 7,5÷14 | 50 | 30 | 50 | 8+8 | 5400 | 1030 012 |
| 250 | 10÷19,5 | 50 | 30 | 50 | 8+8 | 5400 | 1030 013 |



ESEMPIO DI LAVORAZIONE



Frese multitaglienti per tenonatrici.
 Multicuts cutters for tenoning machines.
 Fraises multident pour tenoneuses.
 Spezialfräsen für Zapfen Fräsmaschinen.
 Fresas multifilo cortante para espigoladoras.

1033

| D | B | d | Z | rpm | ID nr. DX | ID nr. SX |
|-----|-----|----|----|-------|-----------------|-----------------|
| 85 | 115 | 25 | 8 | 10000 | 1033 007 | 1033 008 |
| 100 | 115 | 25 | 8 | 9000 | 1033 001 | 1033 002 |
| 120 | 130 | 30 | 12 | 9000 | 1033 003 | 1033 004 |
| 220 | 140 | 40 | 16 | 5500 | 1033 005 | 1033 006 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request

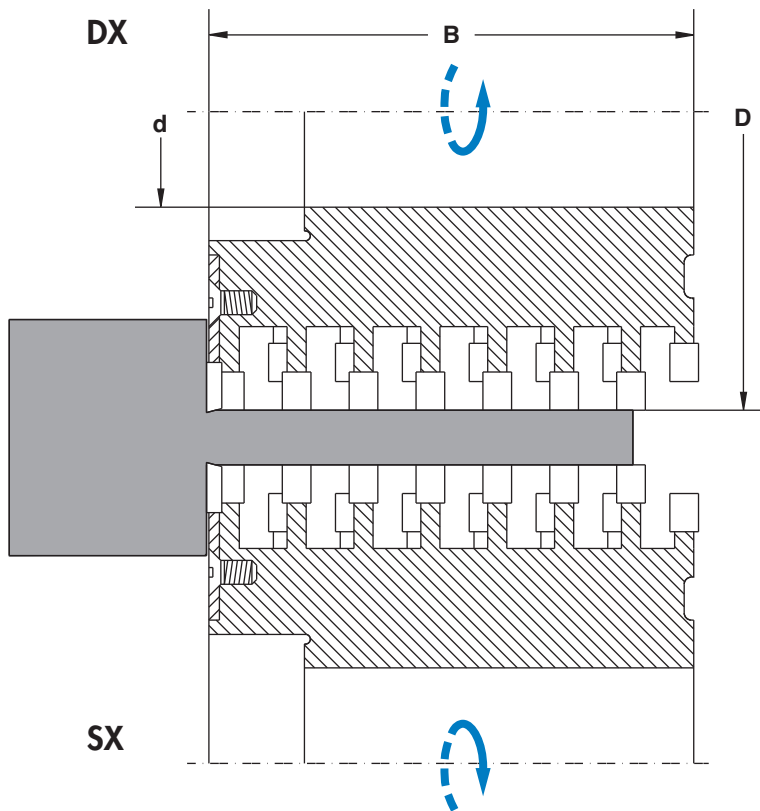


Caratteristiche

Esecuzione in HM con 8/12/16 taglienti in HM riportato.
 Fresa a taglienti frazionati posizionati su sedi ad andamento spiroidale di lame rasanti.
 Particolarmente idonea per la lavorazione con forti asportazioni anche in controvena con totale assenza di scheggiature.

Characteristics

Execution in HM with Brased 8/12 or 16 cutting wings.
 Suitable for high feed speed and great wood removal.
 Finishing is also good against wood grain on soft, hard timbers and glued panels.



RICAMBI

| LAME DI RICAMBIO | | | | | |
|------------------|-----|------|----|-----------------|-----------------|
| D | B | d | Z | ID nr. DX | ID nr. SX |
| 86 | 3,2 | 45+4 | 8 | 1033 057 | 1033 058 |
| 101 | 3,2 | 60+4 | 8 | 1033 051 | 1033 052 |
| 121 | 3,2 | 60+4 | 12 | 1033 053 | 1033 054 |
| 221 | 3,2 | 60+4 | 16 | 1033 055 | 1033 056 |

1034

Frese multitaglienti per spianare su macchine scorniciatrici.

Multicuts cutters to level on four sides machines.

Fraises multident à dresser sur quatre faces.

Multischarf Fräse zum planieren für Zargfräsmachine.

Fresas multifilo cortante para alisar utilizando moldureras.



Caratteristiche

Esecuzione in HM con 12 taglienti riportati.

Fresa a taglienti frazionati posizionati su sedi ad andamento spiroidale.

Adatta per lavorazioni con forti avanzamenti e profonde asportazioni e buona finitura su legni teneri, duri ed incollati.

Characteristics

Execution in HM with Brased 12 cutting wings.

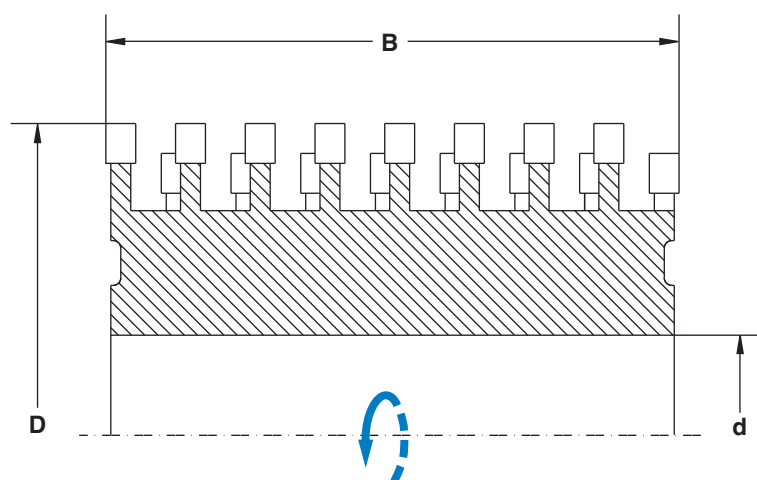
Fractioned cutting edges positioned on spiral design.

Suitable for high feed speed and great wood removal with good surface finishing on soft, hard timbers and glued panels.

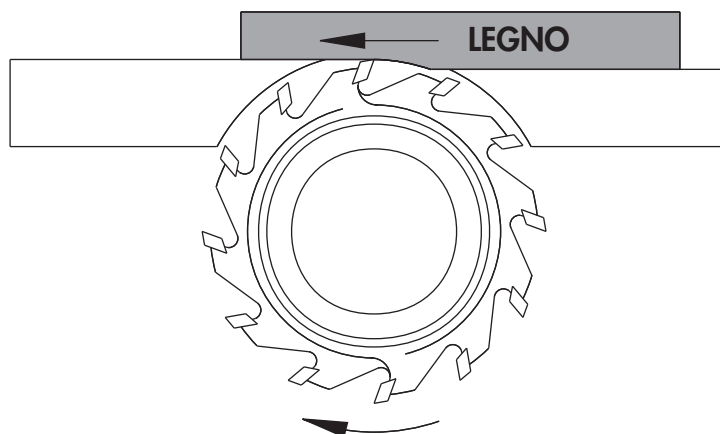
| D | B | d | Z | rpm | ID nr. SX |
|-----|-----|----|----|------|-----------------|
| 100 | 120 | 35 | 12 | 9400 | 1034 001 |
| 100 | 180 | 35 | 12 | 9400 | 1034 002 |
| 125 | 120 | 35 | 12 | 9000 | 1034 003 |
| 125 | 150 | 35 | 12 | 9000 | 1034 004 |
| 125 | 180 | 35 | 12 | 9000 | 1034 005 |
| 125 | 120 | 40 | 12 | 9000 | 1034 010 |
| 125 | 150 | 40 | 12 | 9000 | 1034 011 |
| 125 | 180 | 40 | 12 | 9000 | 1034 012 |
| 125 | 230 | 40 | 12 | 9000 | 1034 006 |
| 125 | 240 | 40 | 12 | 9000 | 1034 013 |
| 140 | 120 | 40 | 12 | 8300 | 1034 007 |
| 140 | 180 | 40 | 12 | 8300 | 1034 008 |
| 140 | 230 | 40 | 12 | 8300 | 1034 009 |
| 140 | 240 | 40 | 12 | 8300 | 1034 014 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



ESEMPIO DI LAVORAZIONE





Evolved **Experience**



Teste ad Inserti Cutterheads

Teste ad Inserti Cutterheads



Teste multiprofil
Multiprofile heads

P 054



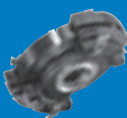
Teste sagomate a disegno
Cutterheads shaped from drawings

P 062



Cassette a raggiare
Wood box with knives

P 064



Gruppi per antine
Set of cutterheads for cabinet doors

P 080



Teste a piallare
Planing heads

P 086



Teste per battute e canali
Rebating cutterheads for grooves

P 103



Gruppi per parchetti e perline
Units for parquet and wall panelline

P 109



Teste per giunzioni
Joint cutterheads

P 112



Teste multiuso
Universal cutterheads

P 118



Teste bordatrici
Cutterheads for edge banding

P 135

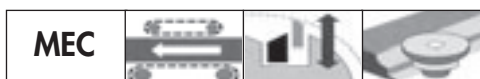
2001

Teste portacoltelli multiprofilati.
Cutterheads for multiprofiles.
 Têtes porte-couteaux pour multiprofiles.
Profilplatten Messerköpf.
 Cabezales con cuchillas para perfiles múltiples.



| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|-------|---------|
| 114 | 30 | 35 | 3 | 10500 | 2001001 |
| 114 | 40 | 35 | 3 | 10500 | 2001002 |
| 114 | 60 | 35 | 3 | 10500 | 2001003 |
| 114 | 80 | 35 | 3 | 10500 | 2001004 |
| 114 | 30 | 40 | 3 | 10500 | 2001005 |
| 114 | 40 | 40 | 3 | 10500 | 2001006 |
| 114 | 60 | 40 | 3 | 10500 | 2001007 |
| 114 | 80 | 40 | 3 | 10500 | 2001008 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



Caratteristiche

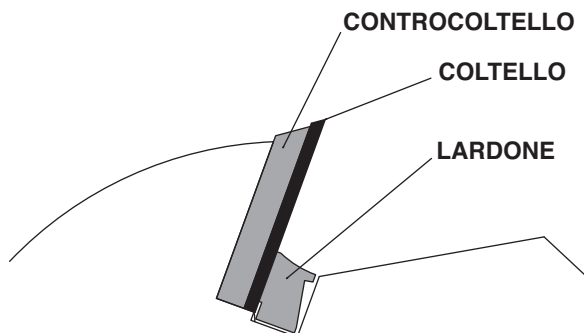
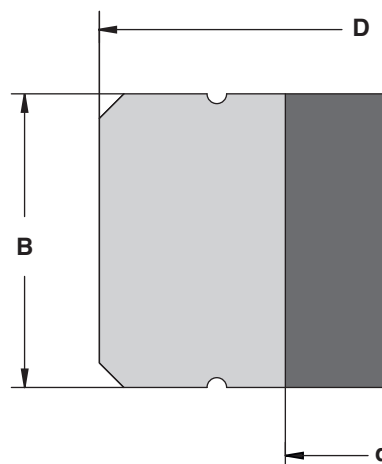
Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 3 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

Characteristics

The tool is supplied without knives and back-knives.

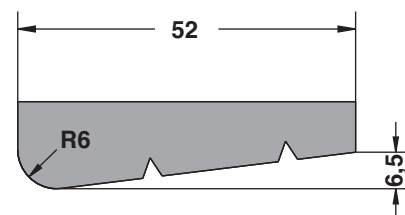
This cutterhead is with 3 cutting for execution of shaped profiles inside the area B÷P.

The tool can be used to make different profiles changing only knives and back-knives.

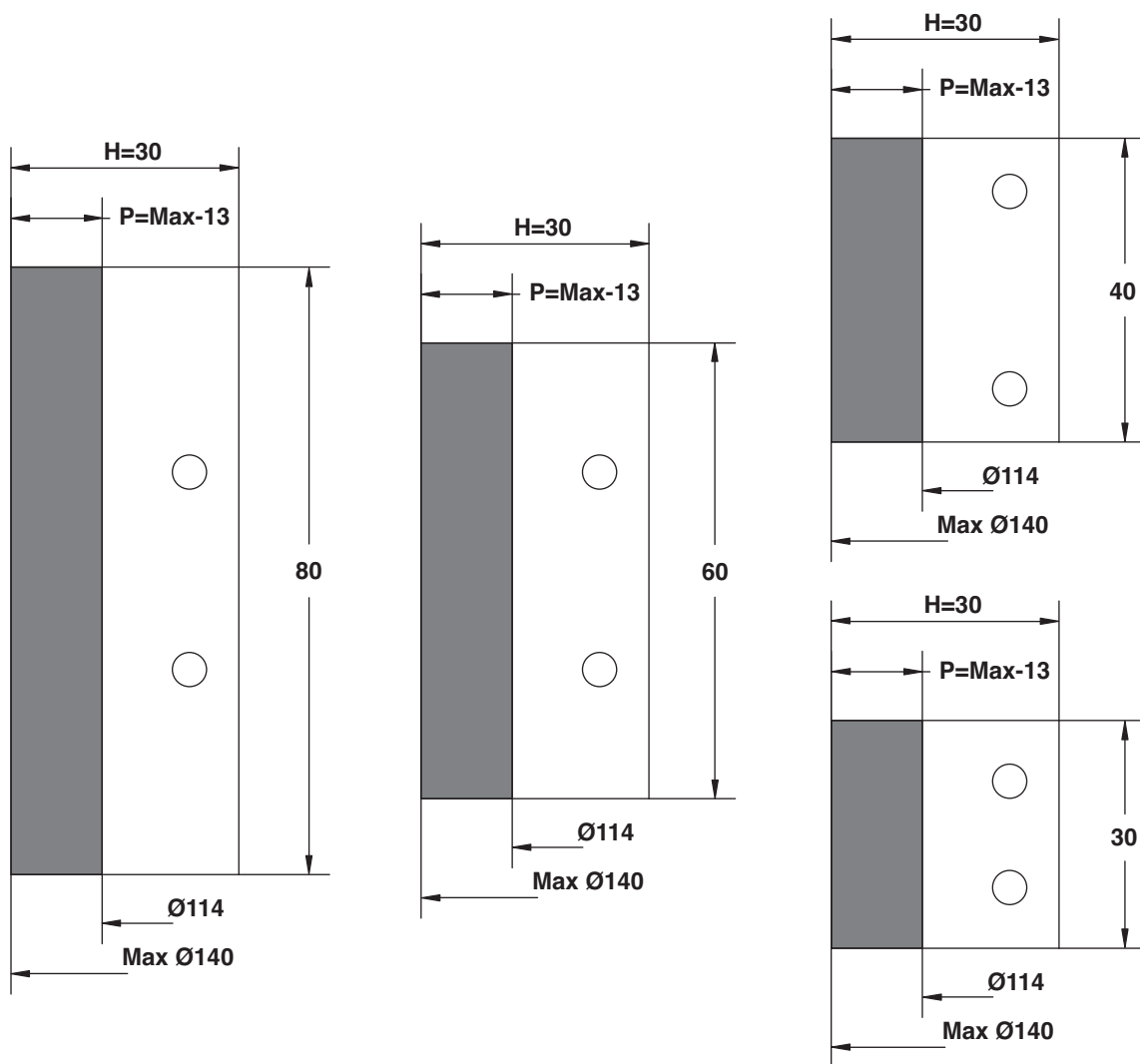


Come determinare il prezzo - ESEMPIO: How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=6,5 B=52



N°1 Testa portacoltelli + N°3 Coltelli sagomati + N°3 Controcoltelli sagomati
 N°1 Cutterhead + N° 3 Shaped knives + N° 3 Shaped back-knives
 N°1 ART.2001003 + N°3 ART.9519028 + N°3 ART.9519307



RICAMBI

COLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x30x2 | 40x30x2 | 60x30x2 | 80x30x2 |
| ID nr. | 9519 111 | 9519 120 | 9519 128 | 9519 131 |

COLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x30x2 | 40x30x2 | 60x30x2 | 80x30x2 |
| ID nr. | 9519 011 | 9519 020 | 9519 028 | 9519 031 |

CONTROCOLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x28x5 | 40x28x5 | 60x28x5 | 80x28x5 |
| ID nr. | 9519 201 | 9519 204 | 9519 207 | 9519 210 |

CONTROCOLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x28x5 | 40x28x5 | 60x28x5 | 80x28x5 |
| ID nr. | 9519 301 | 9519 304 | 9519 307 | 9519 310 |

VITI

| | |
|------------|-----------------|
| Dimensioni | M8x20 |
| ID nr. | 9546 021 |

2002

Teste portacoltelli multiprofilati.
Cutterheads for multiprofiles.
 Têtes porte-couteaux pour multiprofiles.
Profilplatten Messerköpfe.
 Cabezales con cuchillas para perfiles múltiples.



| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|-------|-----------------|
| 114 | 40 | 35 | 3 | 10500 | 2002 001 |
| 114 | 60 | 35 | 3 | 10500 | 2002 002 |
| 114 | 80 | 35 | 3 | 10500 | 2002 003 |
| 114 | 40 | 40 | 3 | 10500 | 2002 004 |
| 114 | 60 | 40 | 3 | 10500 | 2002 005 |
| 114 | 80 | 40 | 3 | 10500 | 2002 006 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request

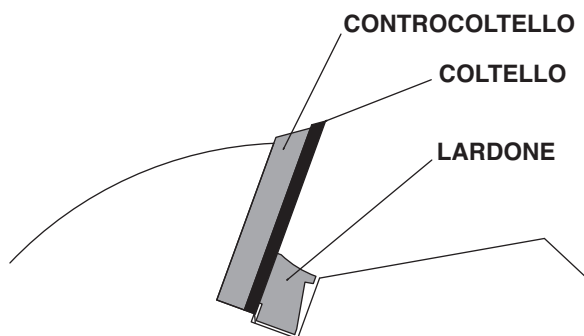
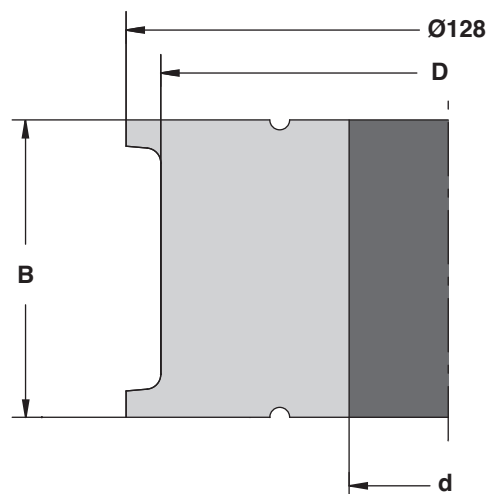


Caratteristiche

Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 3 taglienti per esecuzione di profili sagomati all'interno dell'area B:P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

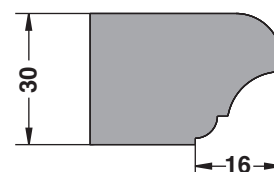
Characteristics

The tool is supplied without knives and back-knives.
 This cutterhead is with 3 cutting for execution of shaped profiles inside the area B:P.
 The tool can be used to make different profiles changing only knives and back-knives.



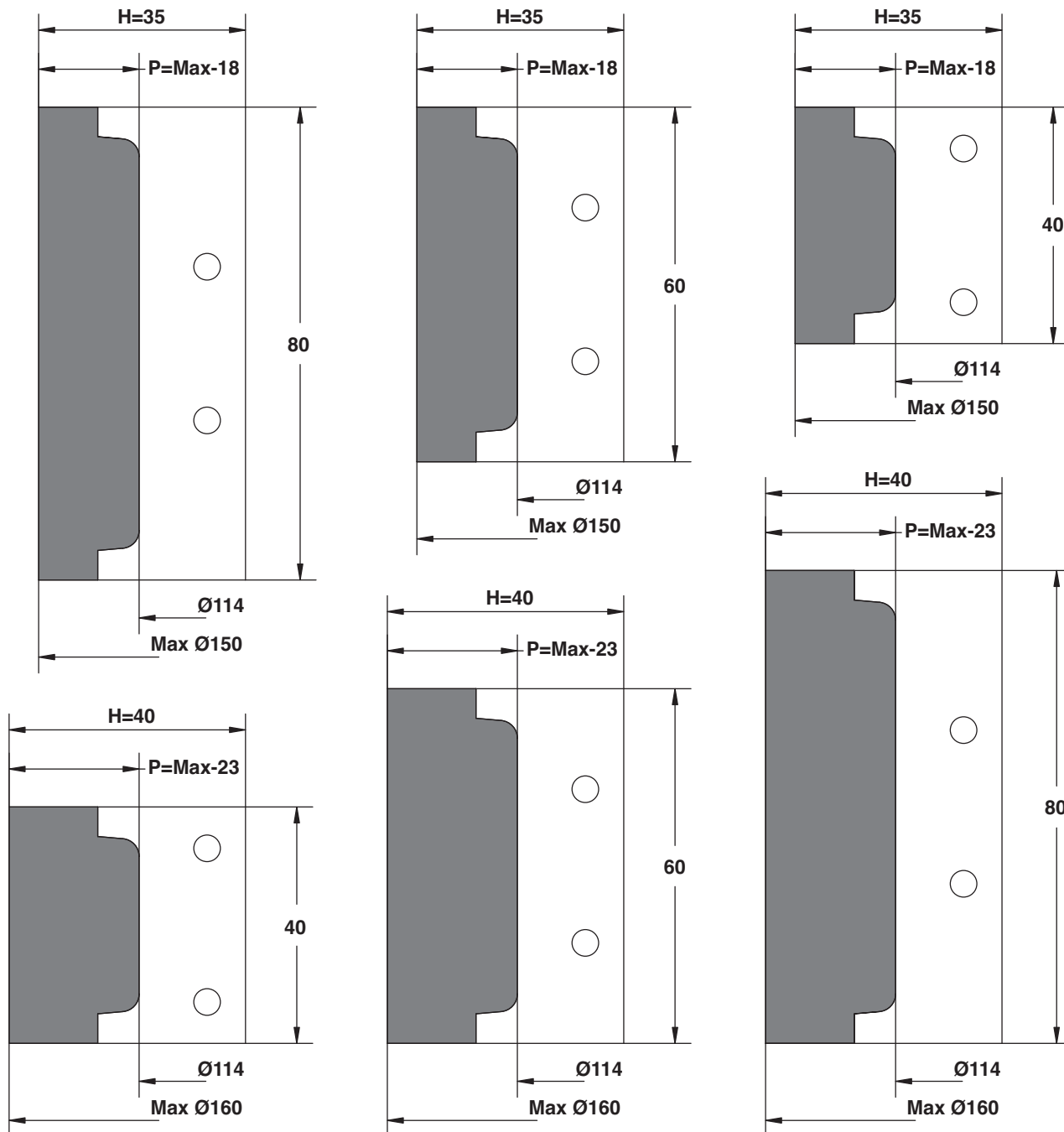
Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=16 B=30



N°1 Testa portacoltelli + N°3 Coltelli sagomati + N°3 Controcoltelli sagomati
 N°1 Cutterhead + N°3 Shaped knives + N°3 Shaped back-knives
 N°1 ART.2002001 + N°3 ART.9519021 + N°3 ART.9519305

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 121 | 9519 122 | 9519 129 | 9519 130 | 9519 132 | 9519 133 |

COLTELLI SAGOMATI

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 021 | 9519 022 | 9519 029 | 9519 030 | 9519 032 | 9519 033 |

CONTROCOLTELLI DA SAGOMARE

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 205 | 9519 206 | 9519 208 | 9519 209 | 9519 211 | 9519 212 |

CONTROCOLTELLI SAGOMATI

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 305 | 9519 306 | 9519 308 | 9519 309 | 9519 311 | 9519 312 |

VITI

| | |
|------------|-----------------|
| Dimensioni | M8x20 |
| ID nr. | 9546 021 |

2003

Teste portacoltelli multiprofilati.
Cutterheads for multiprofiles.
 Têtes porte-couteaux pour multiprofiles.
Profilplatten Messerköpfe.
 Cabezales con cuchillas para perfiles múltiples.



| D | B | d | Z | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|---|-------|-----------------|-----------------|
| 114 | 40 | 35 | 3 | 10500 | 2003 001 | 2003 002 |
| 114 | 60 | 35 | 3 | 10500 | 2003 003 | 2003 004 |
| 114 | 80 | 35 | 3 | 10500 | 2003 005 | 2003 006 |
| 114 | 40 | 40 | 3 | 10500 | 2003 007 | 2003 008 |
| 114 | 60 | 40 | 3 | 10500 | 2003 009 | 2003 010 |
| 114 | 80 | 40 | 3 | 10500 | 2003 011 | 2003 012 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request

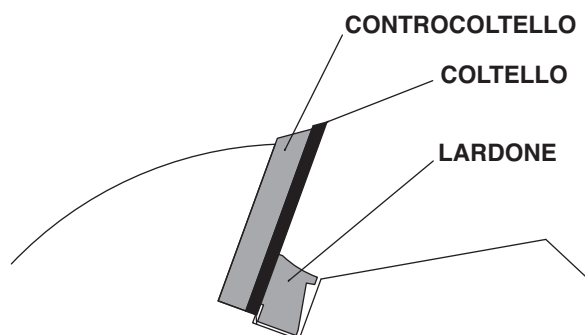
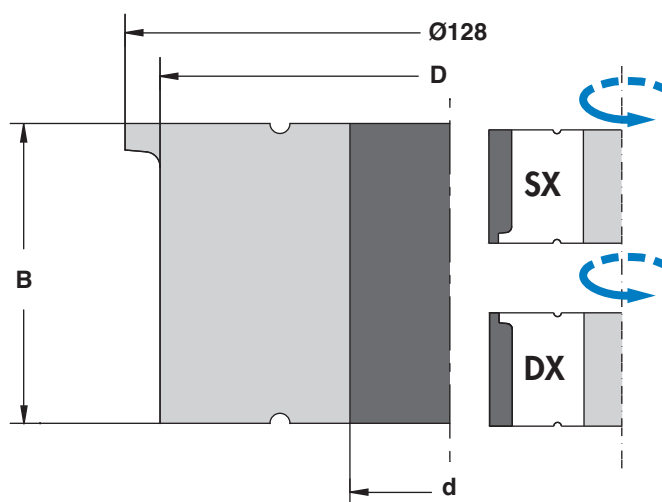


Caratteristiche

Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 3 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

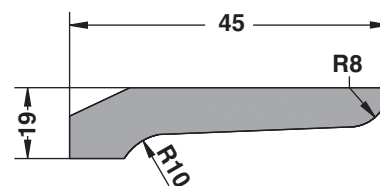
Characteristics

The tool is supplied without knives and back-knives.
 This cutterhead is with 3 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used to make different profiles changing only knives and back-knives.



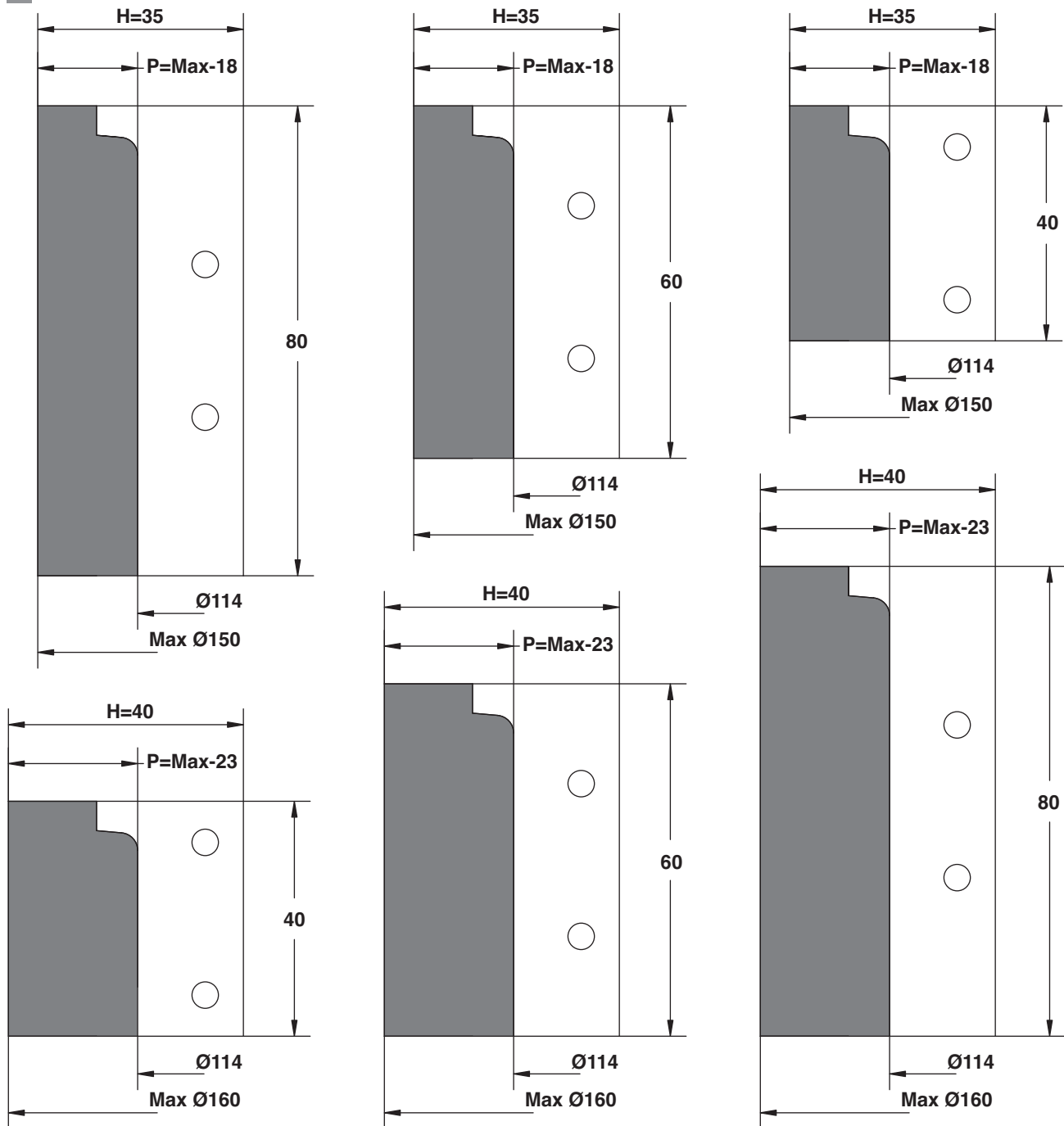
Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=19 B=45



N°1 Testa portacoltelli + N°3 Coltelli sagomati + N°3 Controcoltelli sagomati
 N°1 Cutterhead + N°3 Shaped knives + N°3 Shaped back-knives
 N°1 ART.2003009/010 + N°3 ART.9519030 + N°3 ART.9519309

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 121 | 9519 122 | 9519 129 | 9519 130 | 9519 132 | 9519 133 |

COLTELLI SAGOMATI

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 021 | 9519 022 | 9519 029 | 9519 030 | 9519 032 | 9519 033 |

CONTROCOLTELLI DA SAGOMARE

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 205 | 9519 206 | 9519 208 | 9519 209 | 9519 211 | 9519 212 |

CONTROCOLTELLI SAGOMATI

| | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 305 | 9519 306 | 9519 308 | 9519 309 | 9519 311 | 9519 312 |

VITI

| | |
|------------|-----------------|
| Dimensioni | M8x20 |
| ID nr. | 9546 021 |

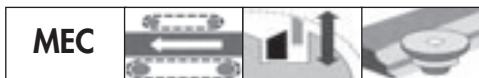
2004

Teste portacoltelli multiprofilati.
Cutterheads for multiprofiles.
 Têtes porte-couteaux pour multiprofiles.
Profilplatten Messerköpfe.
 Cabezales con cuchillas para perfiles múltiples.



| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|-------|-----------------|
| 114 | 40 | 35 | 3 | 10500 | 2004 001 |
| 114 | 60 | 35 | 3 | 10500 | 2004 002 |
| 114 | 80 | 35 | 3 | 10500 | 2004 003 |
| 114 | 40 | 40 | 3 | 10500 | 2004 004 |
| 114 | 60 | 40 | 3 | 10500 | 2004 005 |
| 114 | 80 | 40 | 3 | 10500 | 2004 006 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request

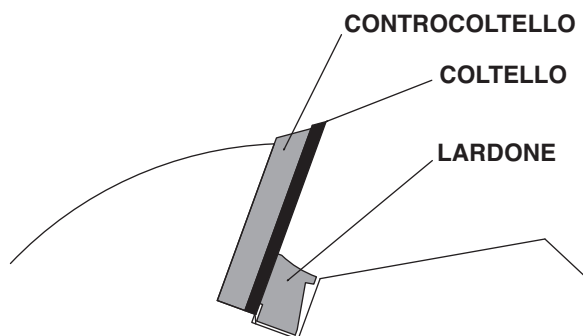
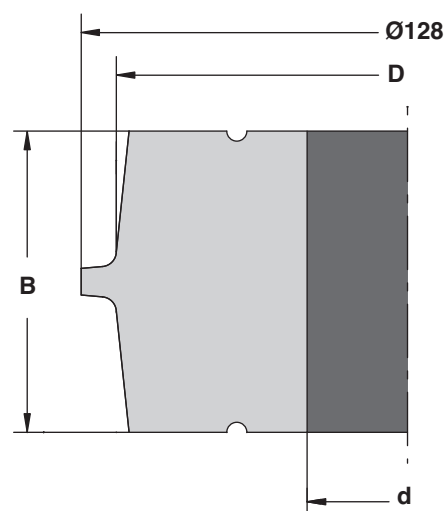


Caratteristiche

Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 3 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

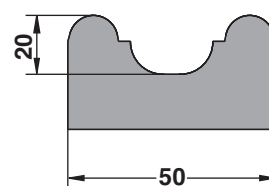
Characteristics

The tool is supplied without knives and back-knives.
 This cutterhead is with 3 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used to make different profiles changing only knives and back-knives.

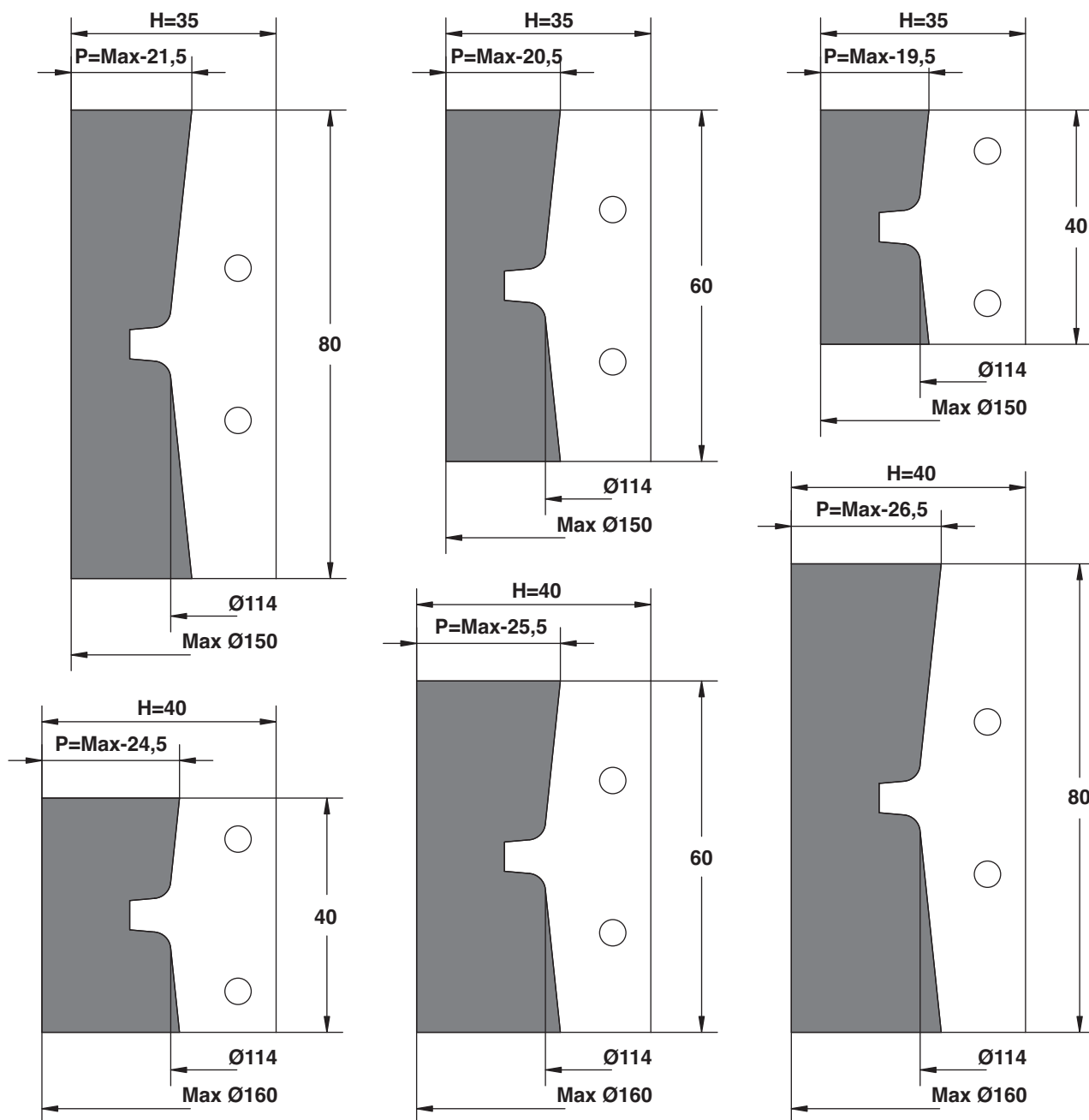


Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=20 B=50



N°1 Testa portacoltelli + N°3 Coltelli sagomati + N°3 Controcoltelli sagomati
 N°1 Cutterhead + N°3 Shaped knives + N°3 Shaped back-knives
 N°1 ART.2004005 + N°3 ART.9519030 + N°3 ART.9519309



RICAMBI

| COLTELLI DA SAGOMARE | | | | | | |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 121 | 9519 122 | 9519 129 | 9519 130 | 9519 132 | 9519 133 |

| COLTELLI SAGOMATI | | | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 40x40x2 | 60x35x2 | 60x40x2 | 80x35x2 | 80x40x2 |
| ID nr. | 9519 021 | 9519 022 | 9519 029 | 9519 030 | 9519 032 | 9519 033 |

| CONTROCOLTELLI DA SAGOMARE | | | | | | |
|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 205 | 9519 206 | 9519 208 | 9519 209 | 9519 211 | 9519 212 |

| CONTROCOLTELLI SAGOMATI | | | | | | |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x33x5 | 40x38x5 | 60x33x5 | 60x38x5 | 80x33x5 | 80x38x5 |
| ID nr. | 9519 305 | 9519 306 | 9519 308 | 9519 309 | 9519 311 | 9519 312 |

| VITI | |
|------------|-----------------|
| Dimensioni | M8x20 |
| ID nr. | 9546 021 |

2005

Teste portacoltelli sagomate a piacere (profilo semplice).
Cutterheads with knives for mouldering on demand (simple profile).
 Têtes porte-couteaux à profiler à la demande (profile simple).
Messerkoepf zu modellieren zu Frage (einfach Profil).
 Cabezales moldurados a gusto con cuchillas (perfil simple).



Caratteristiche

Teste portacoltelli in HM ad alto rendimento, con corpo sagomato come coltello a fissaggio meccanico.

Characteristics

Cutterhead in HM with high efficiency, with body of tool shaped like knife with mechanic fixing system.

Spigolatori fissi / Fixed beveller inserts



Aumento ID nr. SF01
Increase ID nr. SF01

Spigolatori regolabili / Adjustable beveller inserts



Aumento ID nr. SR01
Increase ID nr. SR01

Inseri fissi / Fixed inserts



Aumento ID nr. IF01
Increase ID nr. IF01

Inseri regolabili / Adjustable inserts



Aumento ID nr. IR01
Increase ID nr. IR01

Rasanti / Reversible trimmers

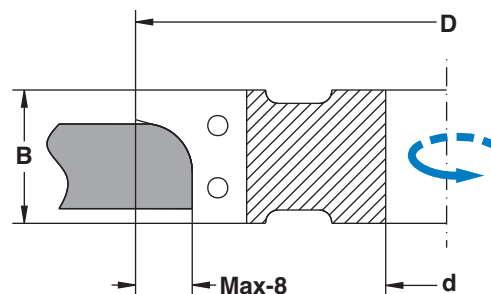


Aumento ID nr. RA01
Increase ID nr. RA01

| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|-----------------|
| 120 | 20 | 30 | 50 | 4 | 9000 | 2005 001 |
| 120 | 30 | 30 | 50 | 4 | 9000 | 2005 002 |
| 120 | 40 | 30 | 50 | 4 | 9000 | 2005 003 |
| 120 | 50 | 30 | 50 | 4 | 9000 | 2005 004 |
| 120 | 60 | 30 | 50 | 4 | 9000 | 2005 005 |
| 140 | 20 | 30 | 50 | 4 | 8000 | 2005 006 |
| 140 | 30 | 30 | 50 | 4 | 8000 | 2005 007 |
| 140 | 40 | 30 | 50 | 4 | 8000 | 2005 008 |
| 140 | 50 | 30 | 50 | 4 | 8000 | 2005 009 |
| 140 | 60 | 30 | 50 | 4 | 8000 | 2005 010 |
| 160 | 20 | 30 | 50 | 4 | 7000 | 2005 011 |
| 160 | 30 | 30 | 50 | 4 | 7000 | 2005 012 |
| 160 | 40 | 30 | 50 | 4 | 7000 | 2005 013 |
| 160 | 50 | 30 | 50 | 4 | 7000 | 2005 014 |
| 160 | 60 | 30 | 50 | 4 | 7000 | 2005 015 |
| 180 | 20 | 30 | 50 | 4 | 6000 | 2005 016 |
| 180 | 30 | 30 | 50 | 4 | 6000 | 2005 017 |
| 180 | 40 | 30 | 50 | 4 | 6000 | 2005 018 |
| 180 | 50 | 30 | 50 | 4 | 6000 | 2005 019 |
| 180 | 60 | 30 | 50 | 4 | 6000 | 2005 020 |
| 200 | 20 | 30 | 50 | 4 | 5500 | 2005 021 |
| 200 | 30 | 30 | 50 | 4 | 5500 | 2005 022 |
| 200 | 40 | 30 | 50 | 4 | 5500 | 2005 023 |
| 200 | 50 | 30 | 50 | 4 | 5500 | 2005 024 |
| 200 | 60 | 30 | 50 | 4 | 5500 | 2005 025 |
| 250 | 20 | 30 | 50 | 4 | 5000 | 2005 026 |
| 250 | 30 | 30 | 50 | 4 | 5000 | 2005 027 |
| 300 | 20 | 30 | 50 | 4 | 4000 | 2005 028 |
| 300 | 30 | 30 | 50 | 4 | 4000 | 2005 029 |

Esecuzione Z = 3 sconto 10%
Esecuzione Z = 6 aumento 25%

Execution Z = 3 discount 10%
Execution Z = 6 increase 25%



RICAMBI

COLTELLI SAGOMATI

ID nr.

9519

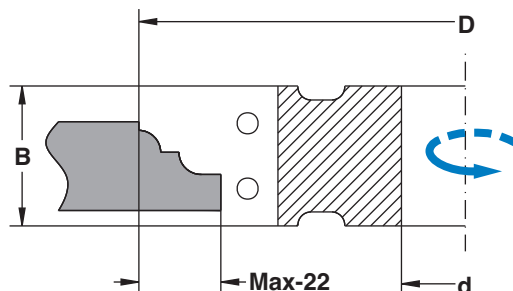
Teste portacoltelli sagomate a piacere (profilo complesso).
Cutterheads with knives for mouldering on demand (complex profile).
 Têtes porte-couteaux à profiler à la demande (profil complexe).
Messerkopf zu modellieren zu Frage (umfassend Profil).
 Cabezales moldurados a gusto con cuchillas (perfil complejo).

2006

| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|---------|
| 120 | 20 | 30 | 50 | 4 | 9000 | 2006001 |
| 120 | 30 | 30 | 50 | 4 | 9000 | 2006002 |
| 120 | 40 | 30 | 50 | 4 | 9000 | 2006003 |
| 120 | 50 | 30 | 50 | 4 | 9000 | 2006004 |
| 120 | 60 | 30 | 50 | 4 | 9000 | 2006005 |
| 140 | 20 | 30 | 50 | 4 | 8000 | 2006006 |
| 140 | 30 | 30 | 50 | 4 | 8000 | 2006007 |
| 140 | 40 | 30 | 50 | 4 | 8000 | 2006008 |
| 140 | 50 | 30 | 50 | 4 | 8000 | 2006009 |
| 140 | 60 | 30 | 50 | 4 | 8000 | 2006010 |
| 160 | 20 | 30 | 50 | 4 | 7000 | 2006011 |
| 160 | 30 | 30 | 50 | 4 | 7000 | 2006012 |
| 160 | 40 | 30 | 50 | 4 | 7000 | 2006013 |
| 160 | 50 | 30 | 50 | 4 | 7000 | 2006014 |
| 160 | 60 | 30 | 50 | 4 | 7000 | 2006015 |
| 180 | 20 | 30 | 50 | 4 | 6000 | 2006016 |
| 180 | 30 | 30 | 50 | 4 | 6000 | 2006017 |
| 180 | 40 | 30 | 50 | 4 | 6000 | 2006018 |
| 180 | 50 | 30 | 50 | 4 | 6000 | 2006019 |
| 180 | 60 | 30 | 50 | 4 | 6000 | 2006020 |
| 200 | 20 | 30 | 50 | 4 | 5500 | 2006021 |
| 200 | 30 | 30 | 50 | 4 | 5500 | 2006022 |
| 200 | 40 | 30 | 50 | 4 | 5500 | 2006023 |
| 200 | 50 | 30 | 50 | 4 | 5500 | 2006024 |
| 200 | 60 | 30 | 50 | 4 | 5500 | 2006025 |
| 250 | 20 | 30 | 50 | 4 | 5000 | 2006026 |
| 250 | 30 | 30 | 50 | 4 | 5000 | 2006027 |
| 300 | 20 | 30 | 50 | 4 | 4000 | 2006028 |
| 300 | 30 | 30 | 50 | 4 | 4000 | 2006029 |

Esecuzione Z = 3 sconto 10%
 Esecuzione Z = 6 aumento 25%

Execution Z = 3 discount 10%
 Execution Z = 6 increase 25%



MAN



Caratteristiche

Teste portacoltelli in HM ad alto rendimento, con corpo sagomato come coltello a fissaggio meccanico.

Characteristics

Cutterheads in HM with high efficiency, with body of tool shaped like knife with mechanic fixing system.

Spigolatori fissi / Fixed beveller inserts



Aumento ID nr. SF01
 Increase ID nr. SF01

Spigolatori regolabili / Adjustable beveller inserts



Aumento ID nr. SR01
 Increase ID nr. SR01

Inseri fissi / Fixed inserts



Aumento ID nr. IF01
 Increase ID nr. IF01

Inseri regolabili / Adjustable inserts



Aumento ID nr. IR01
 Increase ID nr. IR01

Rasanti / Reversible trimmers



Aumento ID nr. RA01
 Increase ID nr. RA01

RICAMBI

COLTELLI SAGOMATI

ID nr.

9519

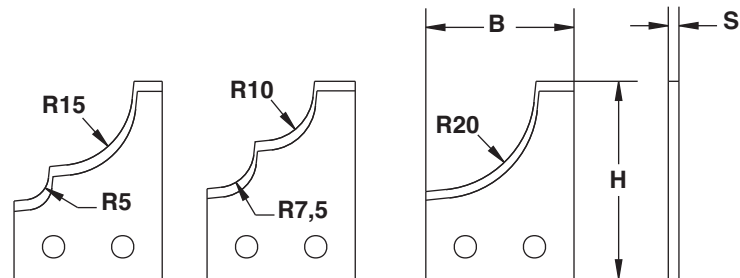
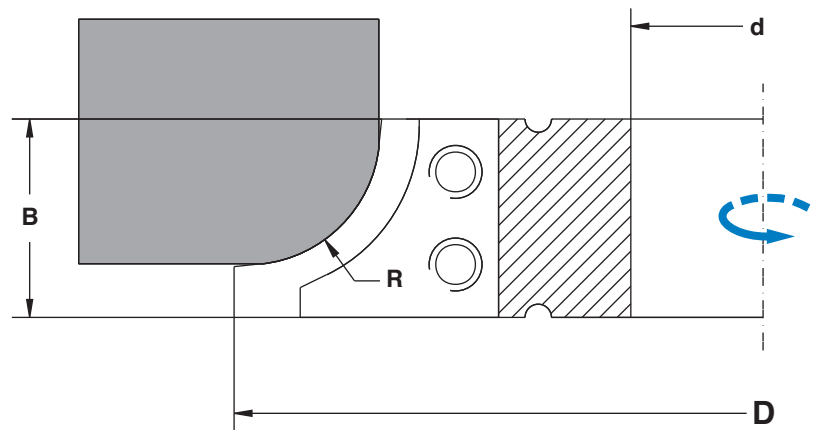
2007



Cassetta multiraggio per quarti di tondo concavi R5-7,5-10-15-20.
 Wood box for quarter concave rounds R5-7,5-10-15-20.
 Caisse en bois pour quart de rond concave R5-7,5-10-15-20.
 Holz-Kasten vollständig für Abrund und hohl R5-7,5-10-15-20.
 Estuche multiradio para cuartos de barra cóncavos R5-7,5-10-15-20.

| D | B | d | Z | R | rpm | ID nr. |
|-----|----|----|---|----------------|------|-----------------|
| 150 | 30 | 35 | 3 | 5-7,5-10-15-20 | 9500 | 2007 001 |
| 150 | 30 | 40 | 3 | 5-7,5-10-15-20 | 9500 | 2007 002 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



Caratteristiche

La cassetta viene fornita di un Kit di coltelli e relativi controcoltelli R5-7,5-10-15-20, con corpo portacoltelli in acciaio e rotazione per toupie (a disegno).

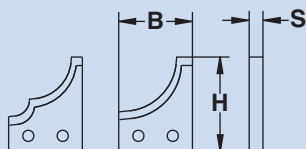
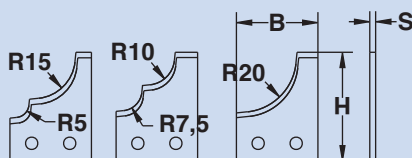
A richiesta è però possibile avere tutti i raggi compresi tra R1÷R20.

Characteristics

The box is supplied with a Kit of knives and back-knives R5-7,5-10-15-20 and with a cutterhead in steel with rotation for toupie (see draw).

On request it is possible to have all radius between R1÷R20.

RICAMBI



| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| IMPIEGO | R7,5-10 | R5-15 | R20 |
| Dimensioni BxHxS | 30x40x2 | 30x40x2 | 30x40x2 |
| ID nr. | 9520 001 | 9520 002 | 9520 003 |

| CONTROCOLTELLI SAGOMATI | | LARDONE | |
|-------------------------|-----------------|-----------------|-------------------|
| IMPIEGO | R5-7,5-10-15 | R20 | PER TUTTI I RAGGI |
| Dimensioni BxHxS | 30x38x5 | 30x38x5 | 28x12x7,5 |
| ID nr. | 2007 301 | 2007 302 | 9545 006 |

| VITI | | CHIAVE | |
|------------|-----------------|-----------------|--|
| IMPIEGO | PER LARDONI | PER GRANI M8 | |
| Dimensioni | M8x20 | ESAGONALE 4mm | |
| ID nr. | 9546 021 | 9548 009 | |

Cassetta multiraggio per mezzi tondi concavi R5-5,5-8.

Wood box for half concave rounds R5-5,5-8.

Caisse en bois pour demi de rond concave R5-5,5-8.

Holz-Kasten vollständig für Halbstab hohl R5-5,5-8.

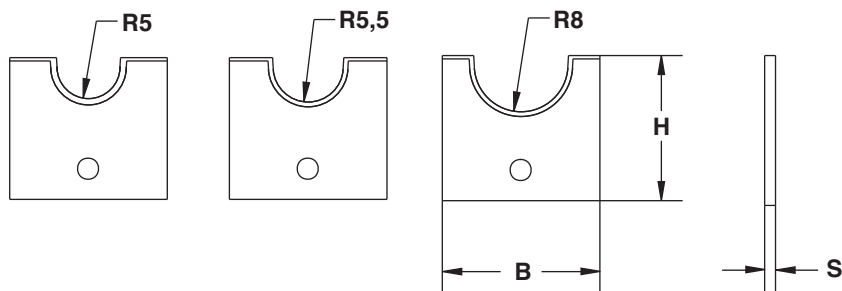
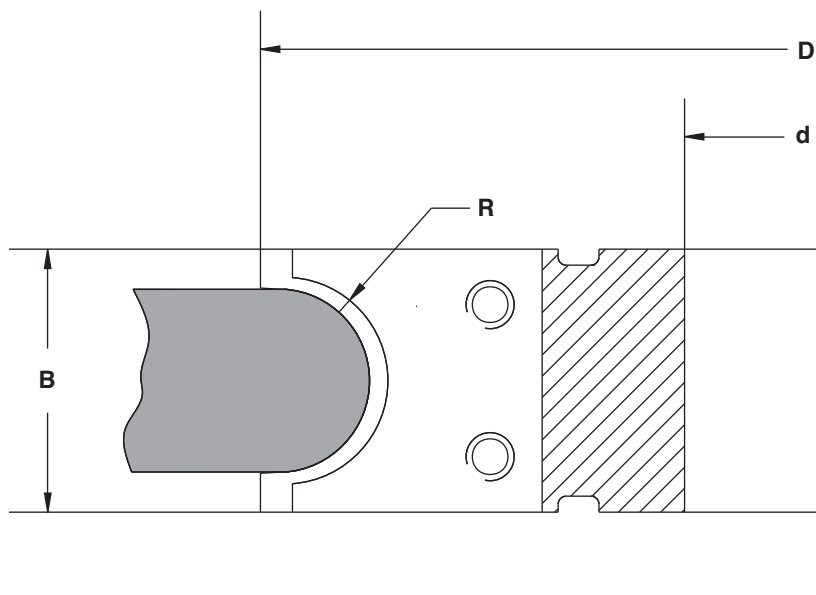
Estuche multiradio para barras semicirculares cóncavos R5-5,5-8.

2008

| D | B | d | Z | R | rpm | ID nr. |
|-----|----|----|---|---------|-------|-----------------|
| 140 | 25 | 35 | 3 | 5-5,5-8 | 10500 | 2008 002 |
| 140 | 25 | 40 | 3 | 5-5,5-8 | 10500 | 2008 003 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



RICAMBI

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| IMPIEGO | R5 | R5,5 | R8 |
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. | 9521 001 | 9521 002 | 9521 003 |

| CONTROCOLTELLI SAGOMATI | | LARDONE | |
|-------------------------|-----------------|-----------------|-------------------|
| IMPIEGO | R5-5,5 | R8 | PER TUTTI I RAGGI |
| Dimensioni BxHxS | 25x28x5 | 25x28x5 | 18x12x7,5 |
| ID nr. | 2008 301 | 2008 302 | 9545 005 |

| VITI | | CHIAVE |
|------------|-----------------|-----------------|
| IMPIEGO | PER LARDONI | PER GRANI M8 |
| Dimensioni | M8x20 | ESAGONALE 4mm |
| ID nr. | 9546 021 | 9548 009 |



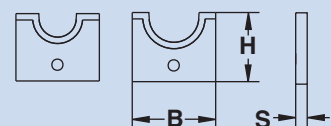
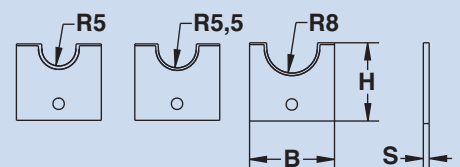
Caratteristiche

La cassetta viene fornita di un Kit di coltelli con relativi controcoltelli R5-5,5-8 e di testa portacoltelli con corpo in acciaio. A richiesta è però possibile avere tutti i raggi compresi tra R1÷8.

Characteristics

The box is supplied with a Kit of knives and back-knives R5-5,5-8 and with a cutterhead in steel.

On request it is possible to have all radius between R1÷8.



2009



Cassetta multiraggio per mezzi tondi concavi R10-12,5-15.

Wood box for half concave rounds R10-12,5-15.

Caisse en bois pour demi de rond concave R10-12,5-15.

Holz-Kasten vollständig für Halbstab hohl R10-12,5-15.

Estuche multiradio para barras semicirculares cóncavas R10-12,5-15.

| D | B | d | Z | R | rpm | ID nr. |
|-----|----|----|---|------------|-------|-----------------|
| 140 | 40 | 35 | 3 | 10-12,5-15 | 10500 | 2009 002 |
| 140 | 40 | 40 | 3 | 10-12,5-15 | 10500 | 2009 003 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request

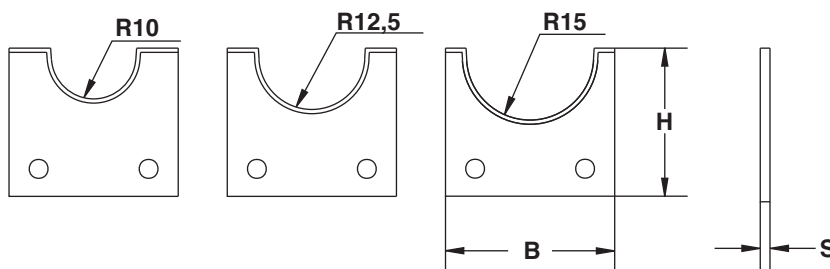
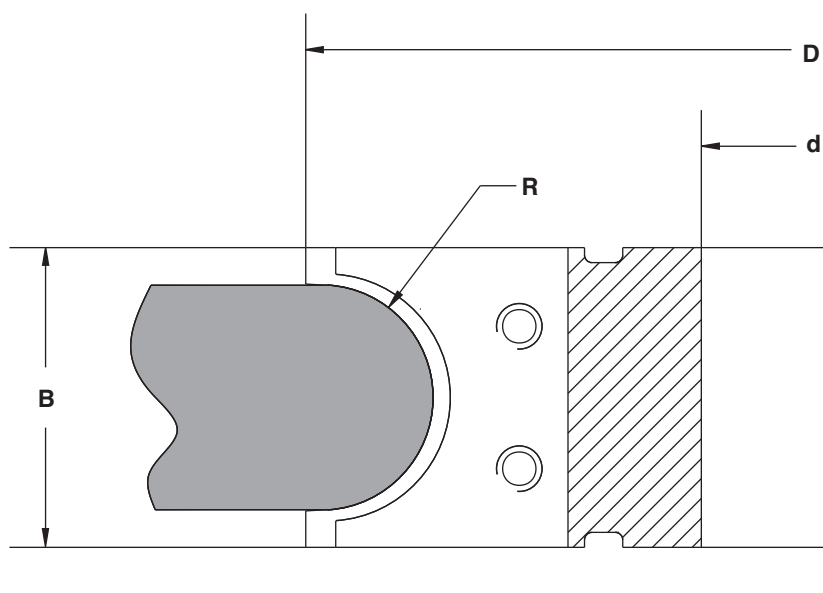


Caratteristiche

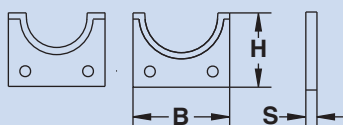
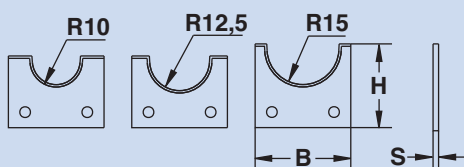
La cassetta viene fornita di un Kit di coltelli con relativi controcoltelli R10-12,5-15 e di testa portacoltelli con corpo in acciaio. A richiesta è però possibile avere tutti i raggi compresi tra R10÷15.

Characteristics

The box is supplied with a Kit of knives and back-knives R10-12,5-15 and with a cutterhead in steel. On request it is possible to have all radius between R10÷15.



RICAMBI



| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| IMPIEGO | R10 | R12,5 | R15 |
| Dimensioni BxHxS | 40x35x2 | 40x35x2 | 40x35x2 |
| ID nr. | 9522 001 | 9522 002 | 9522 003 |

| CONTROCOLTELLI SAGOMATI | | LARDONE | |
|-------------------------|-----------------|-----------------|-------------------|
| IMPIEGO | R10-12,5 | R15 | PER TUTTI I RAGGI |
| Dimensioni BxHxS | 40x33x5 | 40x33x5 | 38x12x7,5 |
| ID nr. | 2009 301 | 2009 302 | 9545 007 |

| VITI | | CHIAVE | |
|------------|-----------------|-----------------|--|
| IMPIEGO | PER LARDONI | PER GRANI M8 | |
| Dimensioni | M8x20 | ESAGONALE 4mm | |
| ID nr. | 9546 021 | 9548 009 | |

Teste portacoltelli sagomate per quarti di tondo.

Cutterheads for quarter circles.

Têtes porte-couteaux pour quart de rond.

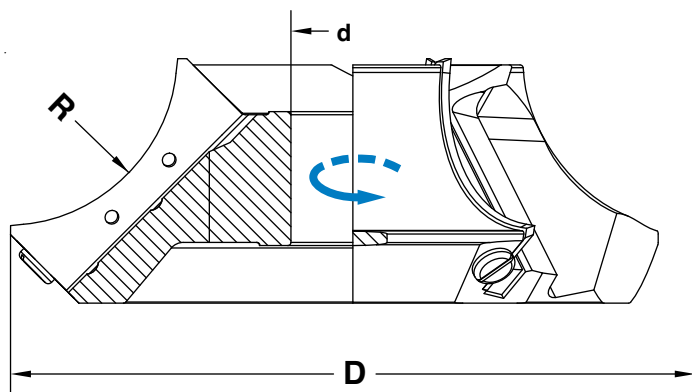
Messerköpfe für Abrund

Fresas perfiladas con cuchillas para cuartos de barras.

2076

| D | d | Z | R | rpm | ID nr. |
|-----|----|---|----|------|-----------------|
| 200 | 30 | 3 | 30 | 5000 | 2076 001 |
| | | | 35 | 5000 | 2076 002 |
| | | | 40 | 5000 | 2076 003 |
| 200 | 35 | 3 | 30 | 5000 | 2076 004 |
| | | | 35 | 5000 | 2076 005 |
| | | | 40 | 5000 | 2076 006 |
| 200 | 40 | 3 | 30 | 5000 | 2076 007 |
| | | | 35 | 5000 | 2076 008 |
| | | | 40 | 5000 | 2076 009 |
| 220 | 30 | 3 | 45 | 4500 | 2076 010 |
| | | | 50 | 4500 | 2076 011 |
| | | | 55 | 4500 | 2076 012 |
| 220 | 35 | 3 | 45 | 4500 | 2076 013 |
| | | | 50 | 4500 | 2076 014 |
| | | | 55 | 4500 | 2076 015 |
| 220 | 40 | 3 | 45 | 4500 | 2076 016 |
| | | | 50 | 4500 | 2076 017 |
| | | | 55 | 4500 | 2076 018 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request



MAN



Caratteristiche

Esecuzione Z3 con coltello in HM spessore 2mm, senza angolo assiale.
Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF, etc.

Characteristics

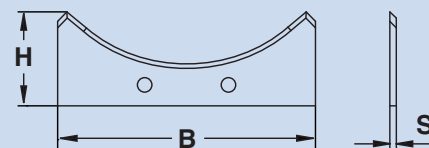
Execution Z3 without shear angle HM profiled inserts thickness 2mm.
Suitable on all natural woods, chipboard, laminated panels, MDF, etc.

RICAMBI

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| | R30 | R35 | R40 |
| Dimensioni BxHxS | 60x30x2 | 60x30x2 | 60x30x2 |
| ID nr. | 9571 001 | 9571 002 | 9571 003 |

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| | R45 | R50 | R55 |
| Dimensioni BxHxS | 80x30x2 | 80x30x2 | 80x30x2 |
| ID nr. | 9571 011 | 9571 012 | 9571 013 |

| | LARDONI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 58x12x7,5 | 78x12x7,5 | M8x16 |
| ID nr. | 9545 009 | 9545 010 | 9546 020 |



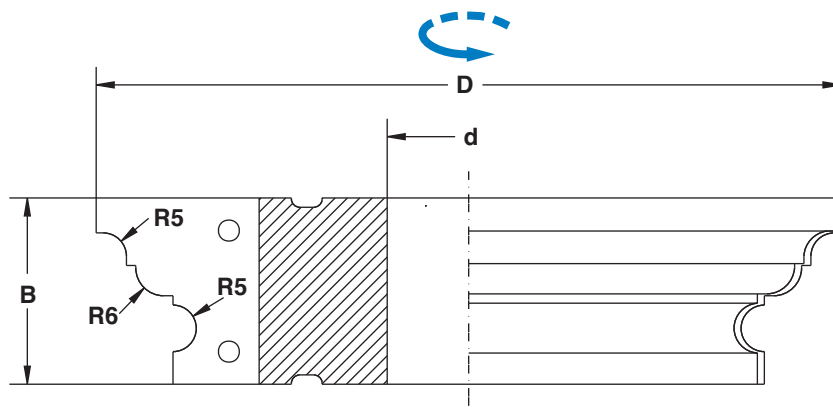
2010

Testa portacoltelli multisagoma.
Cutterhead for multiprofiles.
 Tête porte-couteaux pour multiprofiles.
Profilplatten-Messerköpf.
 Cabezal con cuchillas para perfiles múltiples.



| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|------|-----------------|
| 160 | 40 | 35 | 3 | 8000 | 2010 001 |
| 160 | 40 | 40 | 3 | 8000 | 2010 002 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



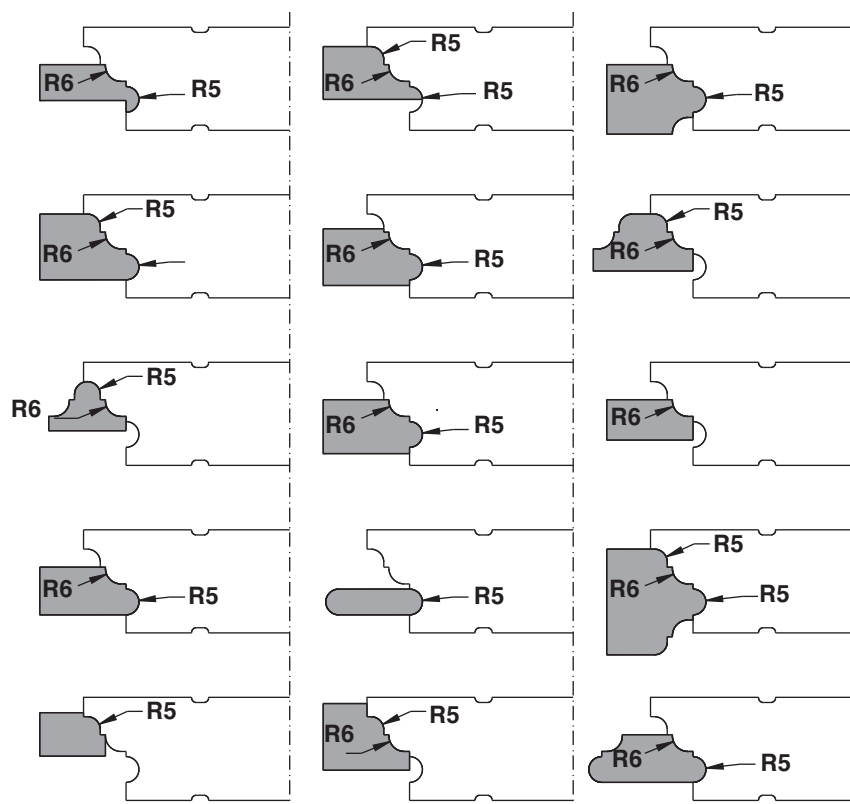
Caratteristiche

Testa portacoltelli per la sagomatura di cornici, pannelli o altro.
 Cambiando la posizione del legno rispetto alla testa si possono ottenere svariati profili come esempi a disegno.

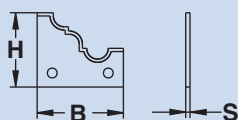
Characteristics

Cutterhead for shape frames, panels and more.
 Changing the wood position it possible to obtain differents profiles like examples showed on draws.

ESEMPI DI LAVORAZIONE



RICAMBI



| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 38x12x7,5 | M8x16 |
| ID nr. | 9523 001 | 9545 007 | 9546 020 |

Testa portacoltelli multisagoma.

Cutterhead for multiprofiles.

Tête porte-couteaux pour multiprofiles.

Profilplatten-Messerköpf.

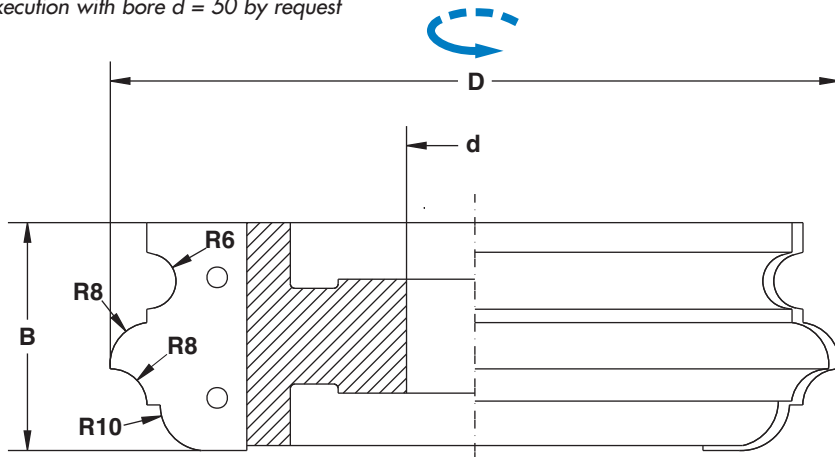
Cabezal con cuchillas para perfiles múltiples.

2011

| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|------|-----------------|
| 160 | 50 | 35 | 3 | 8000 | 2011 001 |
| 160 | 50 | 40 | 3 | 8000 | 2011 002 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



MAN



Caratteristiche

Testa portacoltelli per la sagomatura di cornici, pannelli o altro.

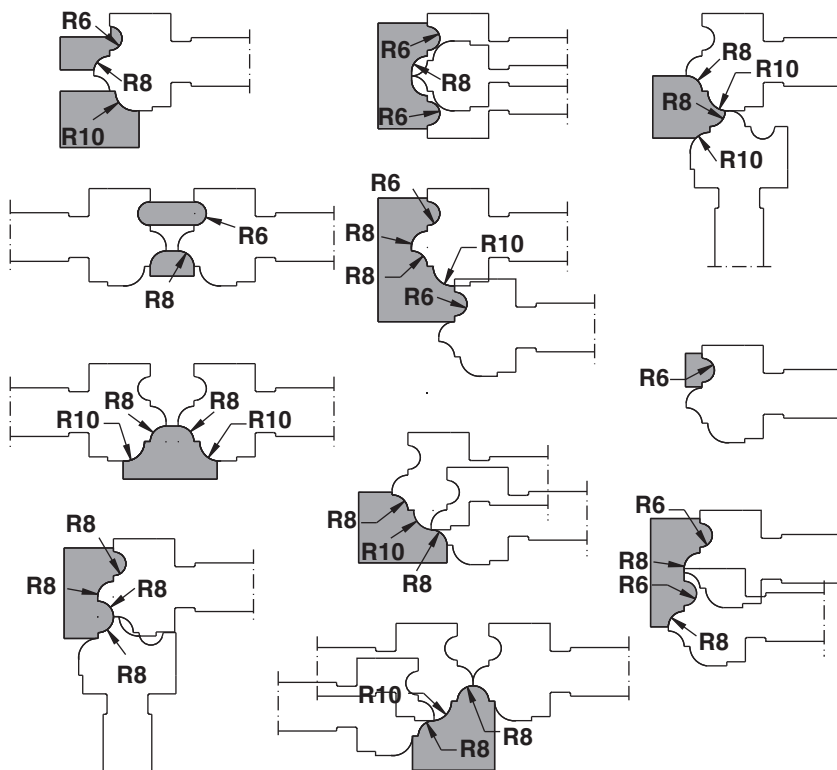
Cambiando la posizione del legno rispetto alla testa si possono ottenere svariati profili come esempi a disegno.

Characteristics

Cutterhead for shape frames, panels and more.

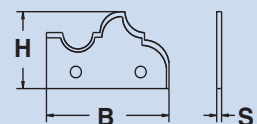
Changing the wood position it possible to obtain differents profiles like examples showed on draws.

ESEMPI DI LAVORAZIONE



RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x30x2 | 48x12x7,5 | M6x16 |
| ID nr. | 9524 001 | 9545 008 | 9546 018 |



2012



Cassetta multisagomata completa di 4 teste portacoltelli per mobili in stile.

Box with 4 cutterheads for furniture in style.

Caisse avec 4 têtes façonnées pour meubles en style.

Holz-Kasten mit 4 Messerköpfe.

Estuche con 4 cabezales para muebles en estilo.

| D/max | B | d/max | rpm | ID nr. |
|-------|----|-------|------|-----------------|
| 188 | 35 | 50 | 8000 | 2012 001 |

| TIPO | D | B | d | d/max | Z |
|------|-----|----|----|-------|---|
| A | 188 | 35 | 35 | 50 | 2 |
| B | 169 | 50 | 35 | 50 | 2 |
| C | 174 | 50 | 35 | 50 | 2 |
| D | 133 | 40 | 35 | 50 | 2 |

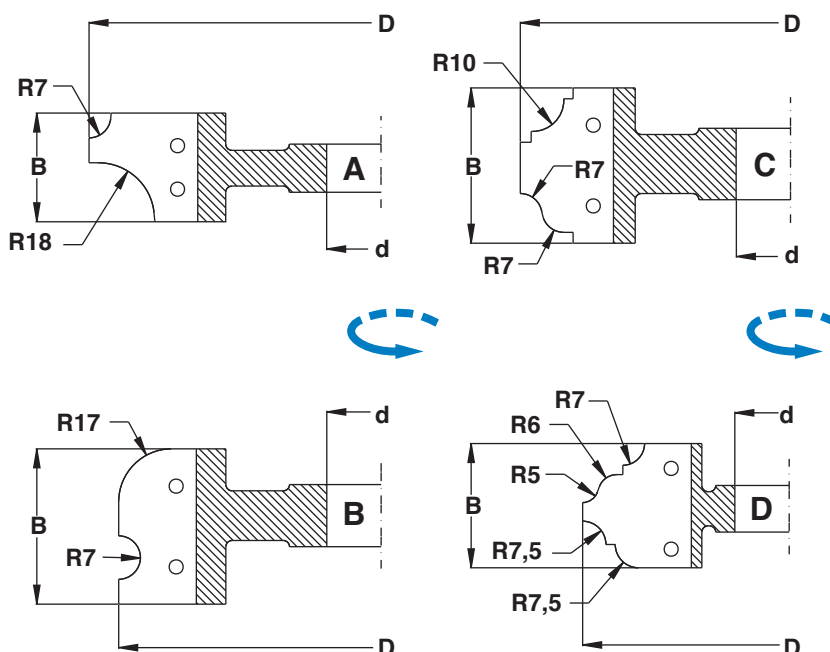


Caratteristiche

La cassetta è composta da N°4 teste portacoltelli sagomate in maniera tale che la combinazione tra esse dia la possibilità di ottenere diverse sagome come esempi a disegno.

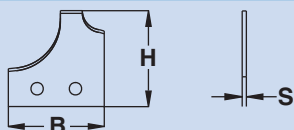
Characteristics

The box is given with N°4 cutterheads shaped in a particular way so that their combination can make different profiles like examples in draw.

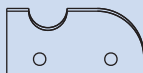


RICAMBI

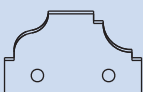
TIPO - A



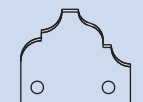
TIPO - B



TIPO - C



TIPO - D



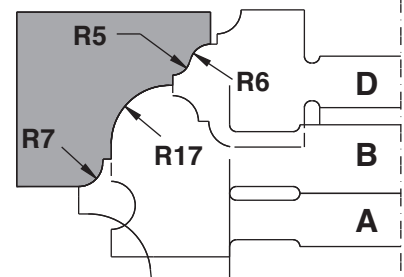
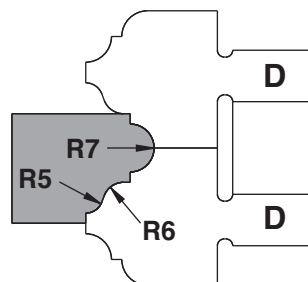
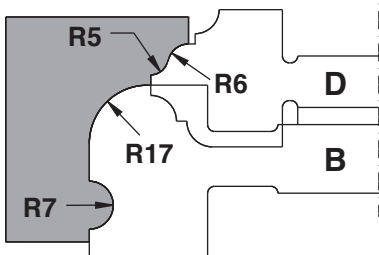
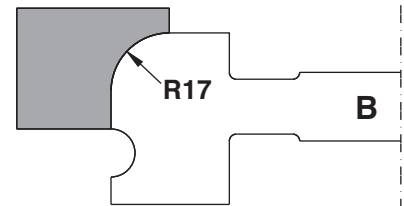
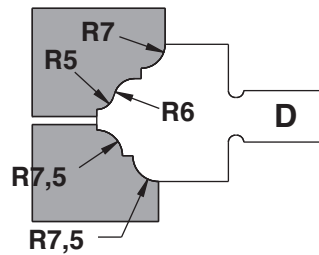
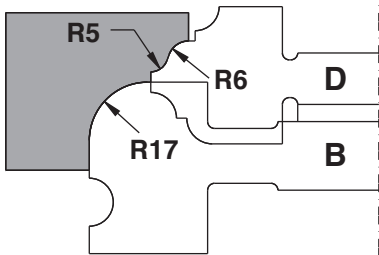
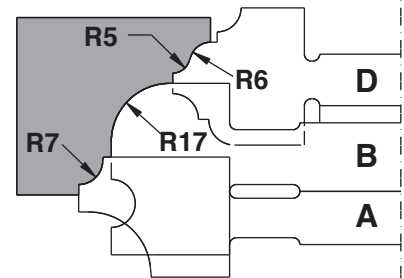
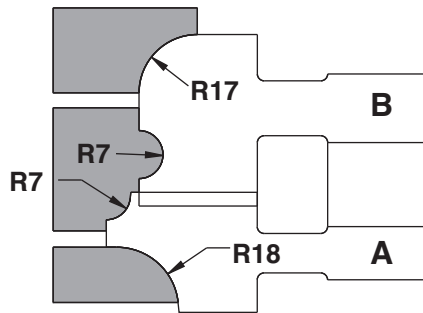
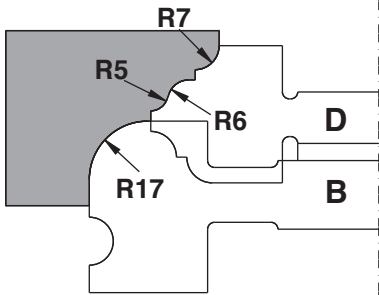
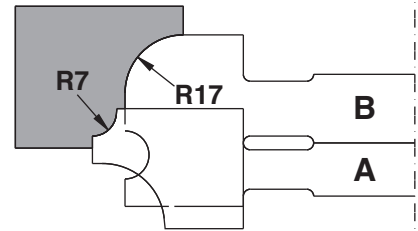
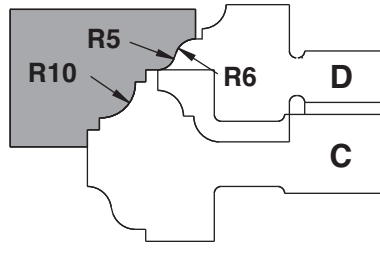
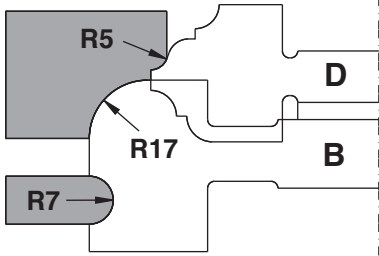
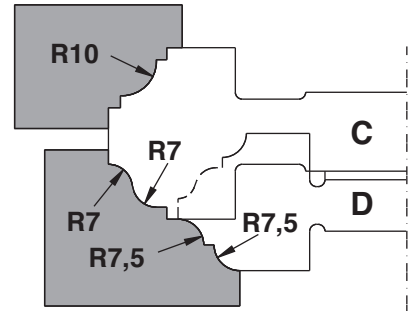
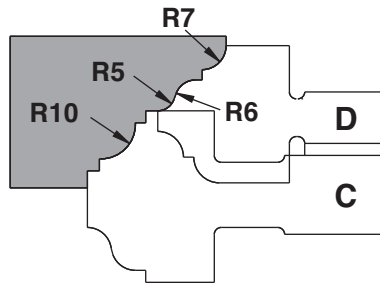
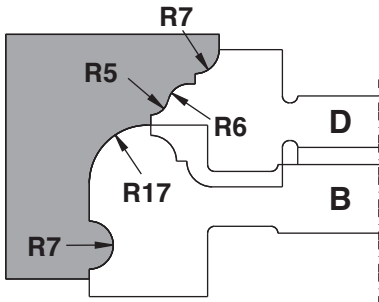
| TIPO-A | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x35x2 | 28x12x7,5 | M6x16 |
| ID nr. | 9525 001 | 9545 006 | 9546 018 |

| TIPO-B | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x30x2 | 48x12x7,5 | M6x16 |
| ID nr. | 9525 002 | 9545 008 | 9546 018 |

| TIPO-C | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x35x2 | 48x12x7,5 | M6x16 |
| ID nr. | 9525 003 | 9545 008 | 9546 018 |

| TIPO-D | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x35x2 | 38x12x7,5 | M6x16 |
| ID nr. | 9525 004 | 9545 007 | 9546 018 |

ESEMPI DI PROFILI ESEGUIBILI



2013



Caratteristiche

Testa portacoltelli in acciaio senza coltelli.
 Ricambio per ART. 2013/2014 oppure può essere combinata ad alcuni profili (tra i N°100 a disegno) componendo così la vostra cassetta personalizzata.

Characteristics

Cutterhead in steel without knives.
 Rechange for ART. 2013/2014 or it can be put together with others profiles (among the N°100 in draw) making it this way your personally box.

Cassette portacoltelli multiprofilo.
Multiprofil tool box.
 Caisse porte-outils multiprofile.
Messerköpfkasten.
 Estuche con cuchillas para perfiles múltiples.

| D | B | d | d/max | Z | n° Profilo | rpm | ID nr. |
|-----|----|----|-------|---|------------|------|-----------------|
| 93 | 40 | 30 | 35 | 2 | 00÷6 | 8000 | 2013 001 |
| 93 | 40 | 30 | 35 | 2 | 00÷12 | 8000 | 2013 002 |
| 93 | 40 | 30 | 35 | 2 | 00÷24 | 8000 | 2013 003 |
| 93 | 40 | 30 | 35 | 2 | 00÷36 | 8000 | 2013 004 |
| 120 | 40 | 30 | 40 | 2 | 00÷6 | 8000 | 2013 005 |
| 120 | 40 | 30 | 40 | 2 | 00÷12 | 8000 | 2013 006 |
| 120 | 40 | 30 | 40 | 2 | 00÷24 | 8000 | 2013 007 |
| 120 | 40 | 30 | 40 | 2 | 00÷36 | 8000 | 2013 008 |

Per macchine con avanzamento manuale (con limitatore)
 For machines with manual feed (with limitation butts)

MAN

| D | B | d | d/max | Z | n° Profilo | rpm | ID nr. |
|-----|----|----|-------|---|------------|------|-----------------|
| 93 | 40 | 30 | 35 | 2 | 00÷6 | 9000 | 2013 011 |
| 93 | 40 | 30 | 35 | 2 | 00÷12 | 9000 | 2013 012 |
| 93 | 40 | 30 | 35 | 2 | 00÷24 | 9000 | 2013 013 |
| 93 | 40 | 30 | 35 | 2 | 00÷36 | 9000 | 2013 014 |
| 120 | 40 | 30 | 40 | 2 | 00÷6 | 9000 | 2013 015 |
| 120 | 40 | 30 | 40 | 2 | 00÷12 | 9000 | 2013 016 |
| 120 | 40 | 30 | 40 | 2 | 00÷24 | 9000 | 2013 017 |
| 120 | 40 | 30 | 40 | 2 | 00÷36 | 9000 | 2013 018 |

Per macchine con avanzamento meccanico
 For machines with mechanical feed

MEC

Coltelli + Limitatori sagomati, a richiesta tra i n°100 profili a disegno

RICAMBI

Nell'ordine indicare il numero del profilo
 When ordering always state the number of profile

| PROFILO 00÷95 | | |
|---------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 101 | 2013 301 |

| PROFILO 96÷99 | | |
|---------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 102 | 2013 302 |

| PROFILO 100 | | |
|-------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 103 | 2013 303 |

Testa singola in acciaio.

Cutterhead in steel.

Tête en acier.

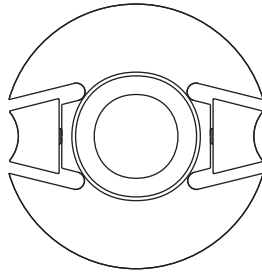
Messerkopf zu Stahl.

Cabezal de acero sin cuchillas.

| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|-----------------|
| 93 | 40 | 30 | 35 | 2 | 8000 | 2013 051 |
| 120 | 40 | 30 | 40 | 2 | 8000 | 2013 052 |

Per macchine con avanzamento manuale (con limitatore)
For machines with manual feed (with limitation butts)

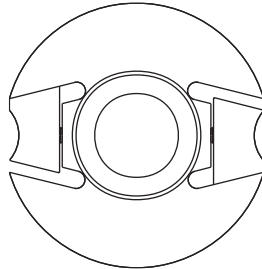
MAN



| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|-----------------|
| 93 | 40 | 30 | 35 | 2 | 8000 | 2013 061 |
| 120 | 40 | 30 | 40 | 2 | 8000 | 2013 062 |

Per macchine con avanzamento meccanico
For machines with mechanical feed

MEC



RICAMBI

Nell'ordine indicare il numero del profilo
When ordering always state the number of profile

| PROFILO 00÷95 | | |
|---------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 101 | 2013 301 |

| PROFILO 96÷99 | | |
|---------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 102 | 2013 302 |

| PROFILO 100 | | |
|-------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 103 | 2013 303 |

2013



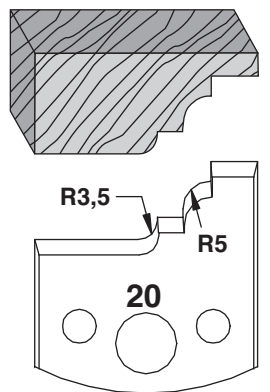
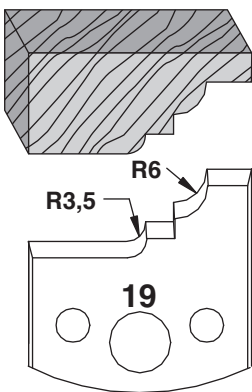
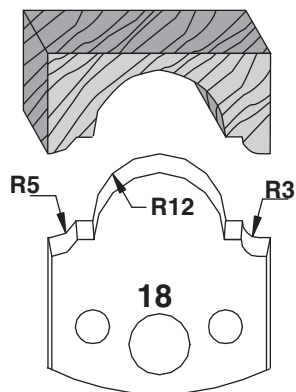
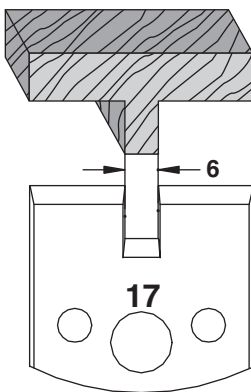
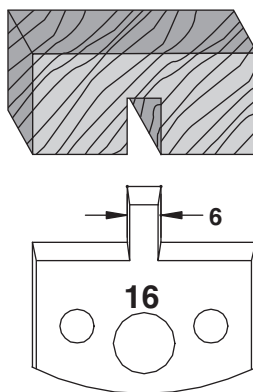
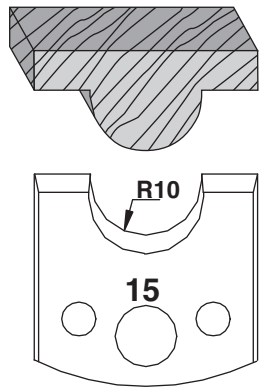
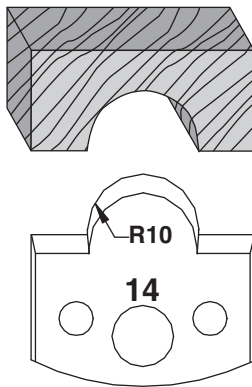
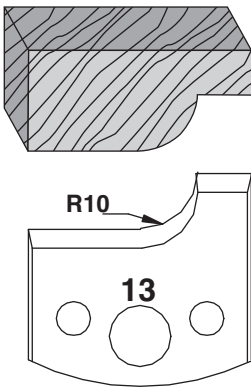
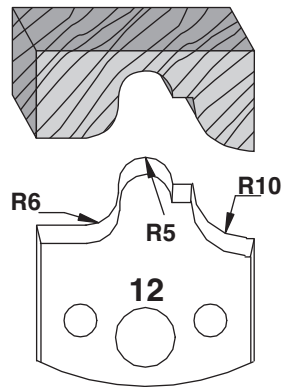
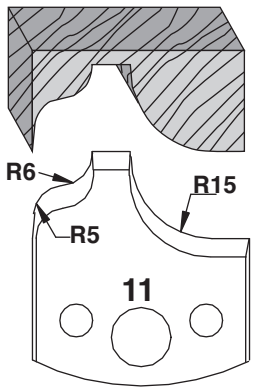
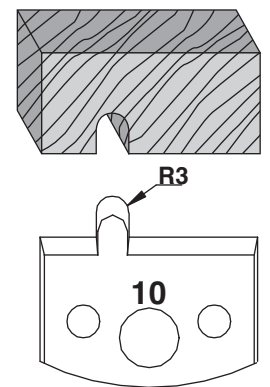
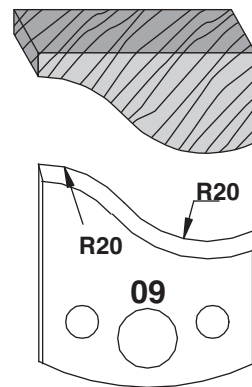
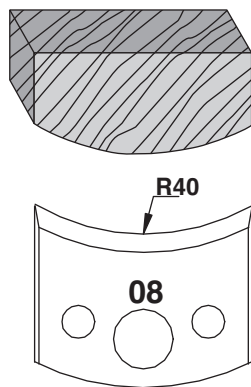
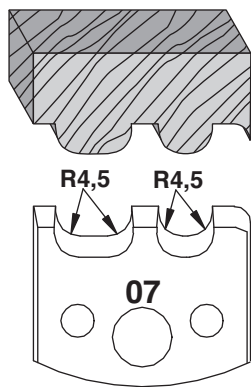
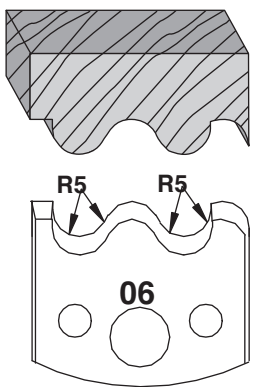
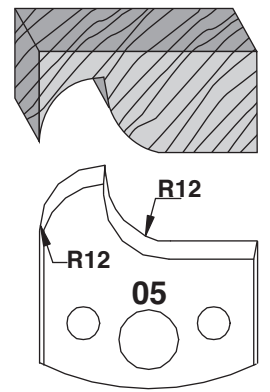
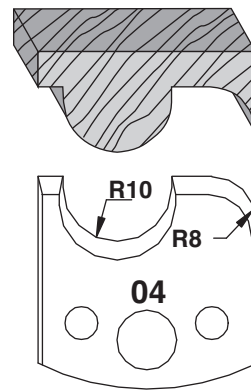
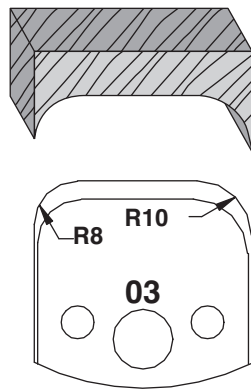
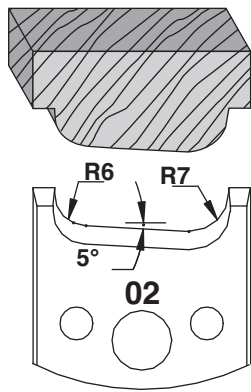
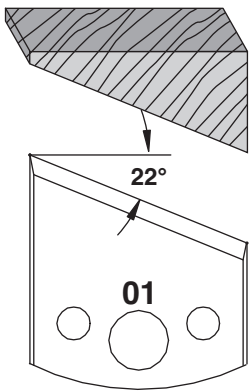
Caratteristiche

Testa portacoltelli in acciaio senza coltelli.
Ricambio per ART. 2013/2014 oppure può essere combinata ad alcuni profili (tra i N°100 a disegno) componendo così la vostra cassetta personalizzata.

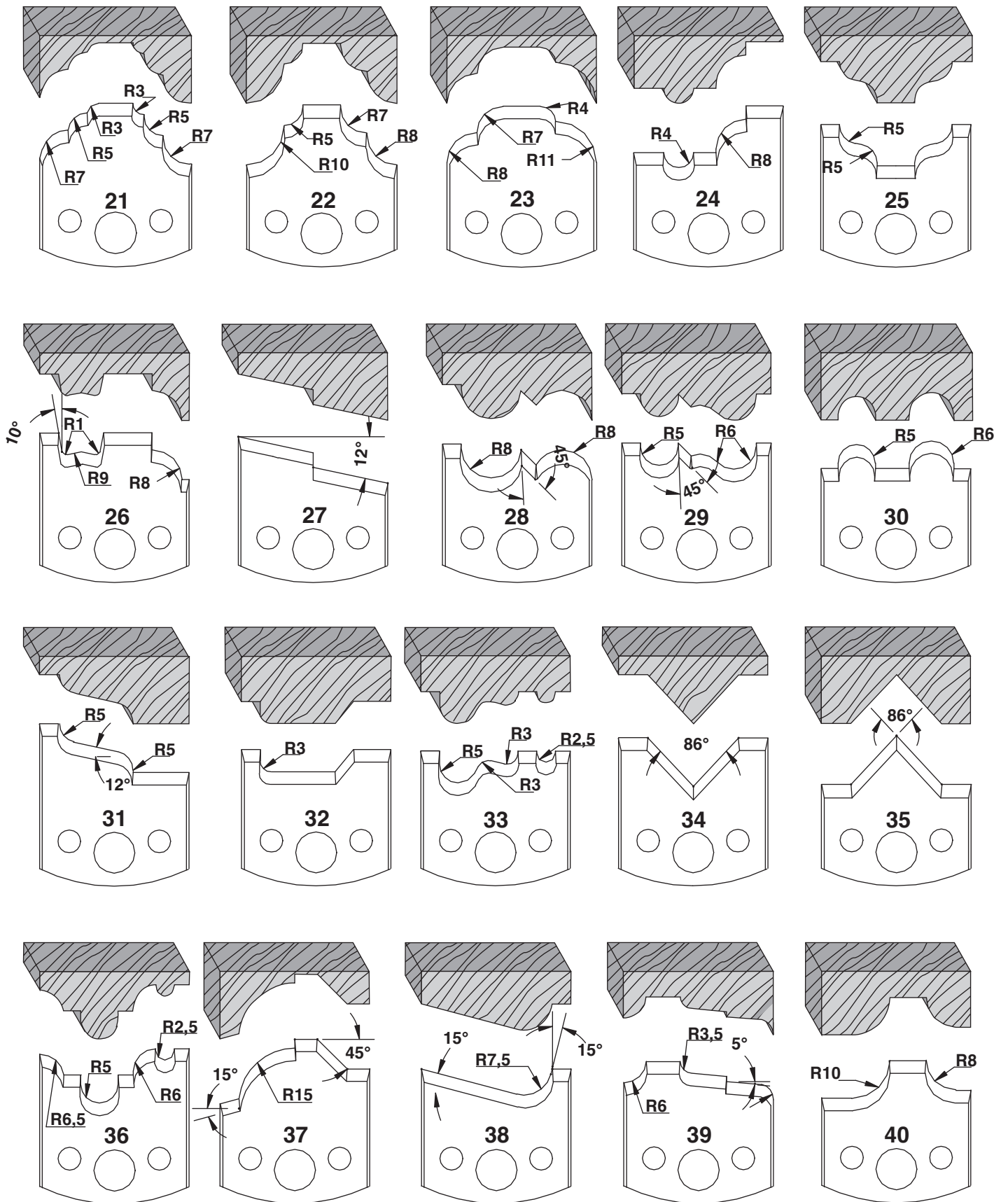
Characteristics

*Cutterhead in steel without knives.
Rechange for ART. 2013/2014 or it can be put together with others profiles (among the N°100 in draw) making in this way your personally box.*

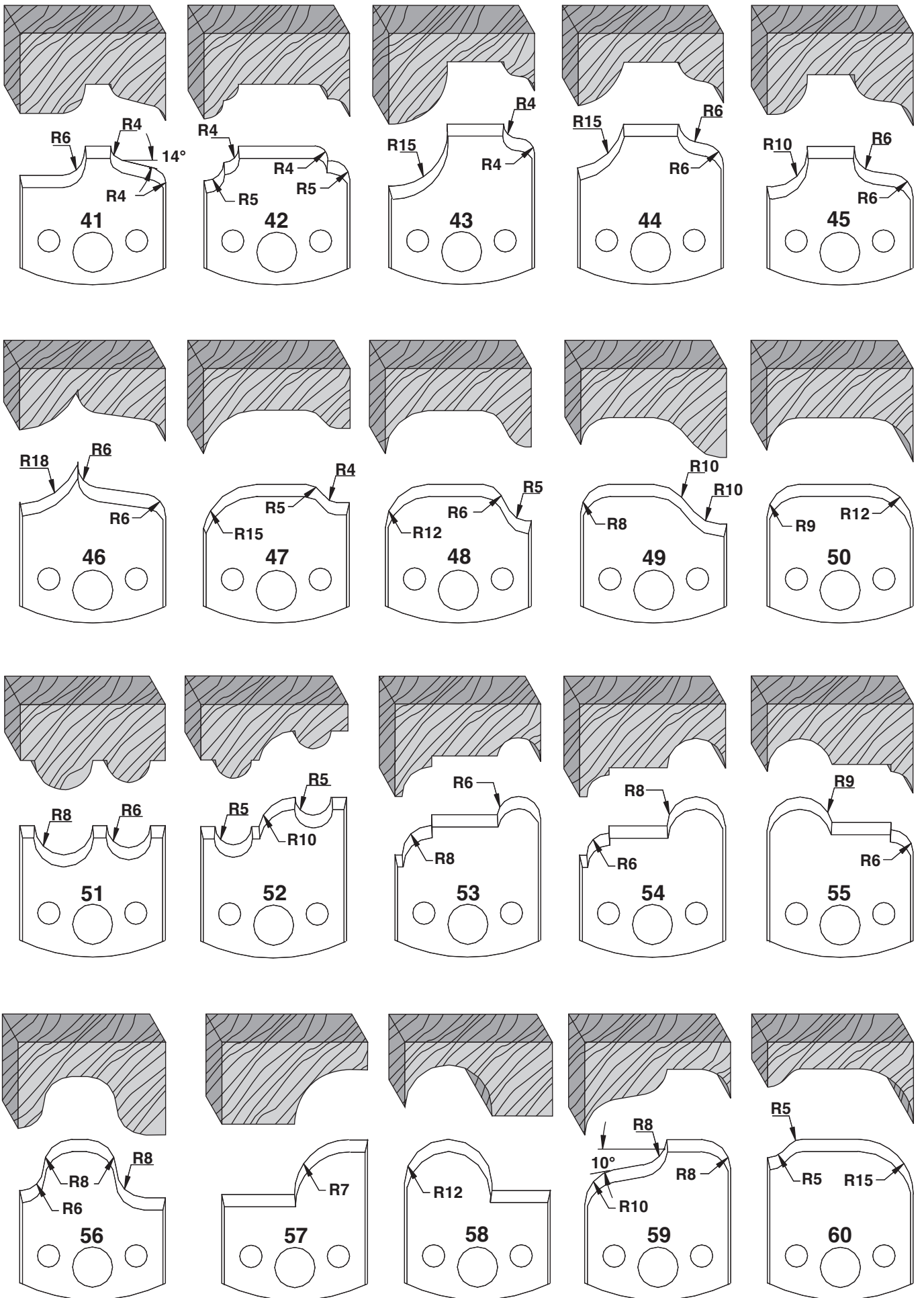
COLTELLI SAGOMATI dal n°01 al n°20



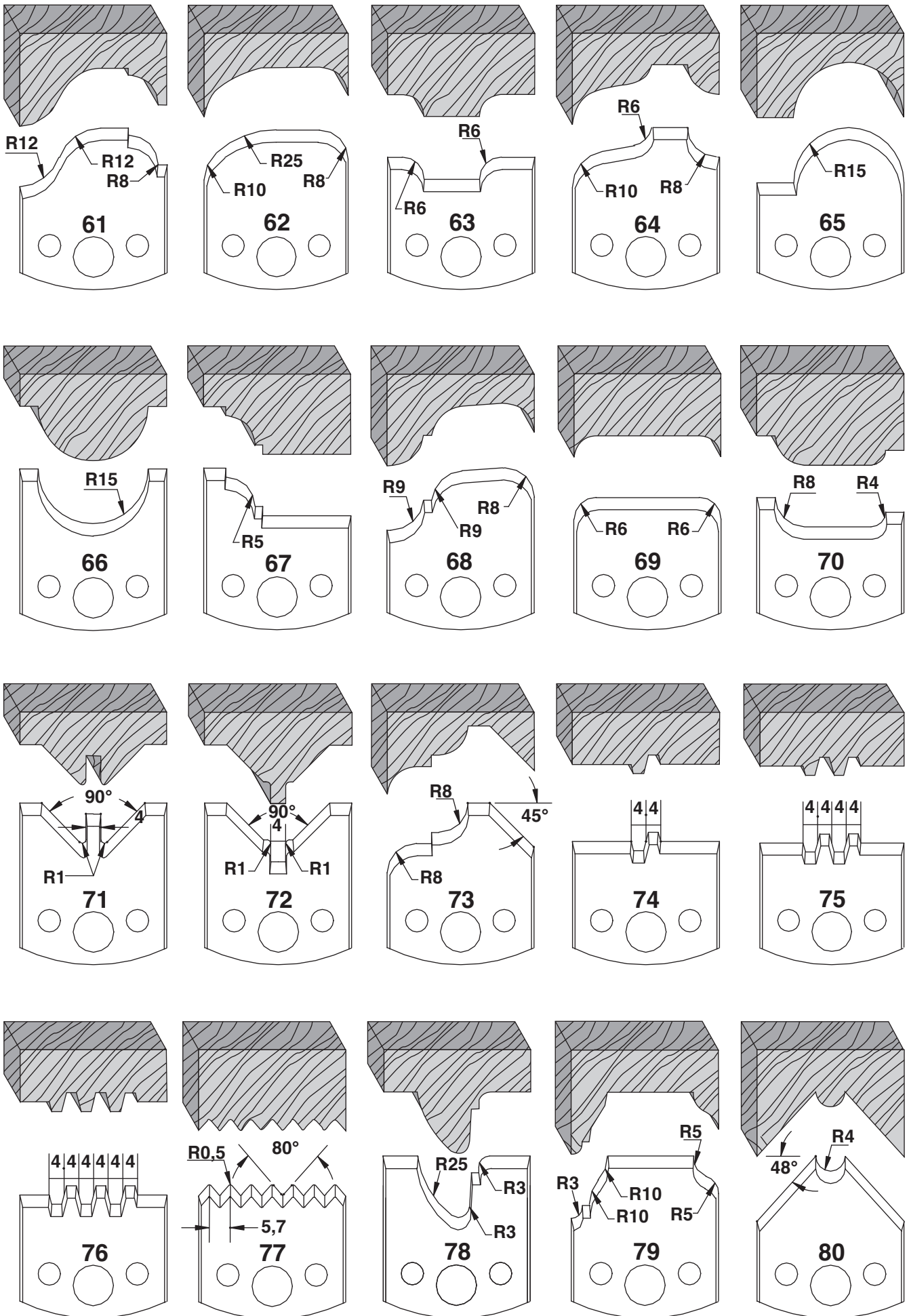
COLTELLI SAGOMATI dal n°21 al n°40



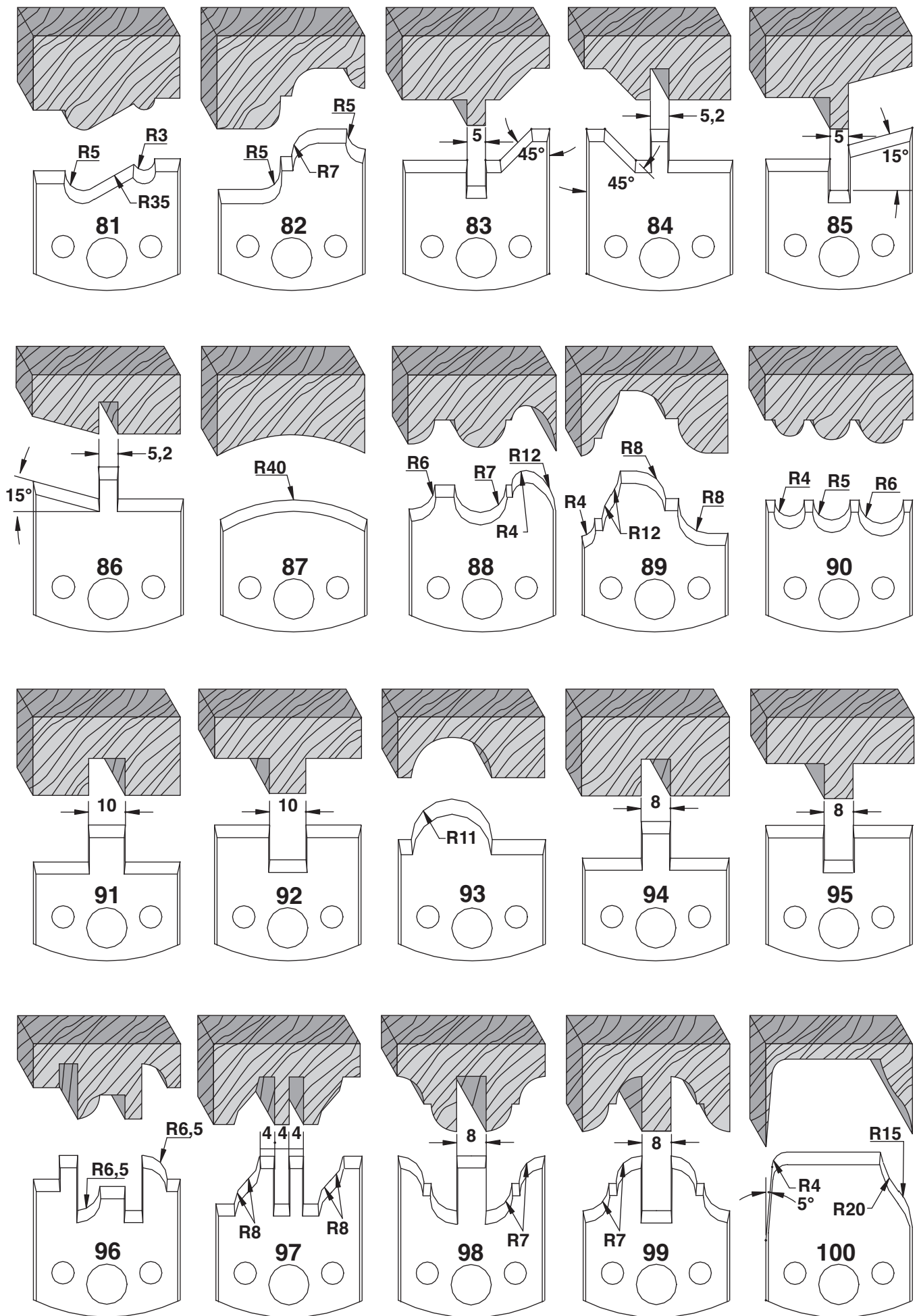
COLTELLI SAGOMATI dal n°41 al n°60



COLTELLI SAGOMATI dal n°61 al n°80



COLTELLI SAGOMATI dal n°81 al n°100



Cassetta portacoltelli per antine e portoncini.

Multiprofil toll box for cabinet doors and small doors.

Caisse porte-outil multiprofile pour portes de meubles et petites portes.

Messerköpkasten für Möbeltüren und Türen.

Estuche con cuchillas para puertas de muebles y puertas.

2014

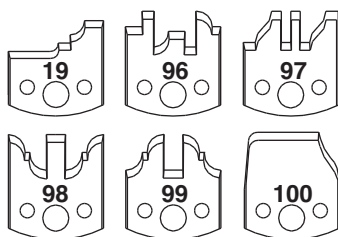
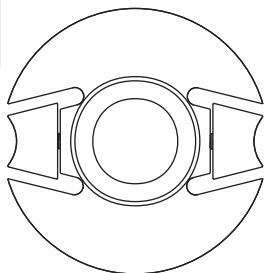
| D | B | d | d/max | Z | rpm | ID nr. |
|-----|----|----|-------|---|------|-----------------|
| 93 | 40 | 30 | 35 | 2 | 8000 | 2014 001 |
| 120 | 40 | 30 | 40 | 2 | 8000 | 2014 002 |

Per macchine con avanzamento manuale (con limitatore)

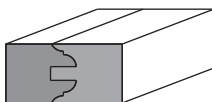
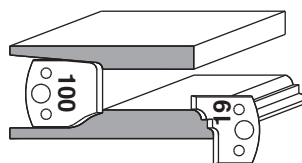
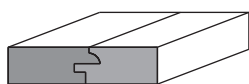
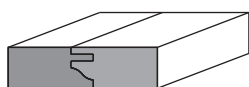
For machines with manual feed (with limitation butts)



MAN



PROFILI ESEGUIBILI



RICAMBI

Coltelli + Limitatori sagomati, a richiesta tra i n°6 profili a disegno.

Nell'ordine indicare il numero del profilo

When ordering always state the number of profile

| PROFILO 19 | | |
|------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 101 | 2013 301 |

| PROFILO 96÷99 | | |
|---------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 102 | 2013 302 |

| PROFILO 100 | | |
|-------------|-----------------|-----------------|
| | COLTELLI | LIMITATORI |
| Dimensioni | 40x40x4 | 40x38,5x4 |
| ID nr. | 2013 103 | 2013 303 |



Caratteristiche

Cassetta composta da una testa portacoltelli in acciaio e N°6 coltelli sagomati profilo 19-96-97-98-99-100 in acciaio.

Questa cassetta è stata ideata per la profilatura di antine e portoncini.

Characteristics

Box with a cutterhead in steel and N°6 shaped knives profile 19-96-97-98-99-100 in steel.

This box is recommended for making edges of cabinet doors and small doors.

2015

Gruppo di teste portacoltelli per antine.
Set of cutterheads for cabinet doors.
 Groupe de fraises pour portes des meubles.
Multiprofiler Messeköpfsatz für Möbeltüren.
 Juego de cabezales para puertas de muebles.



| D/max | d+ch | Z | rpm | ID nr. |
|-------|------|---|------|-----------------|
| 160 | 35+2 | 2 | 8000 | 2015 001 |
| 160 | 40+2 | 2 | 8000 | 2015 002 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request

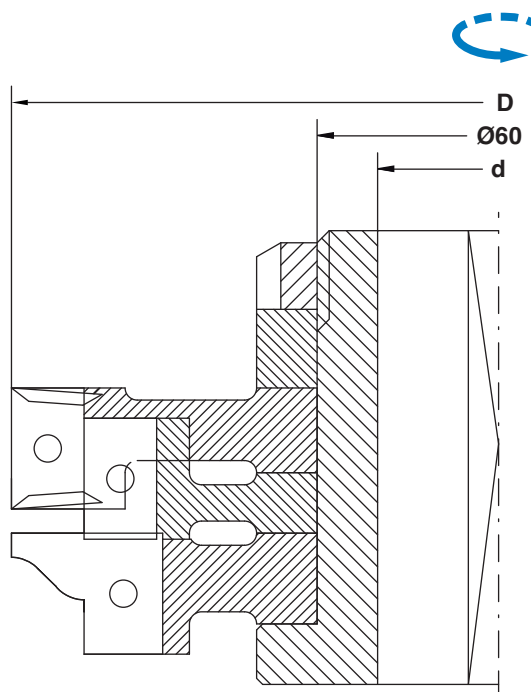


Caratteristiche

La cassetta è composta da N°3 teste portacoltelli che accoppiate danno profilo-controprofilo.
 In dotazione vi sono N°3 tipi di profili diversi.

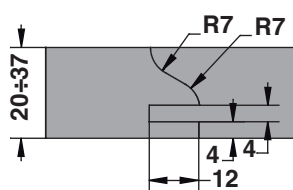
Characteristics

Box with N°3 cutterheads that together will make profile and counter-profile.
 Inside there are N°3 different shaped knives.

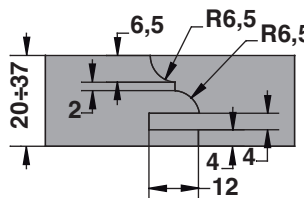


PROFILI ESEGUIBILI

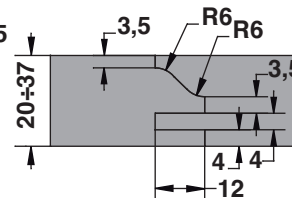
TIPO - 1



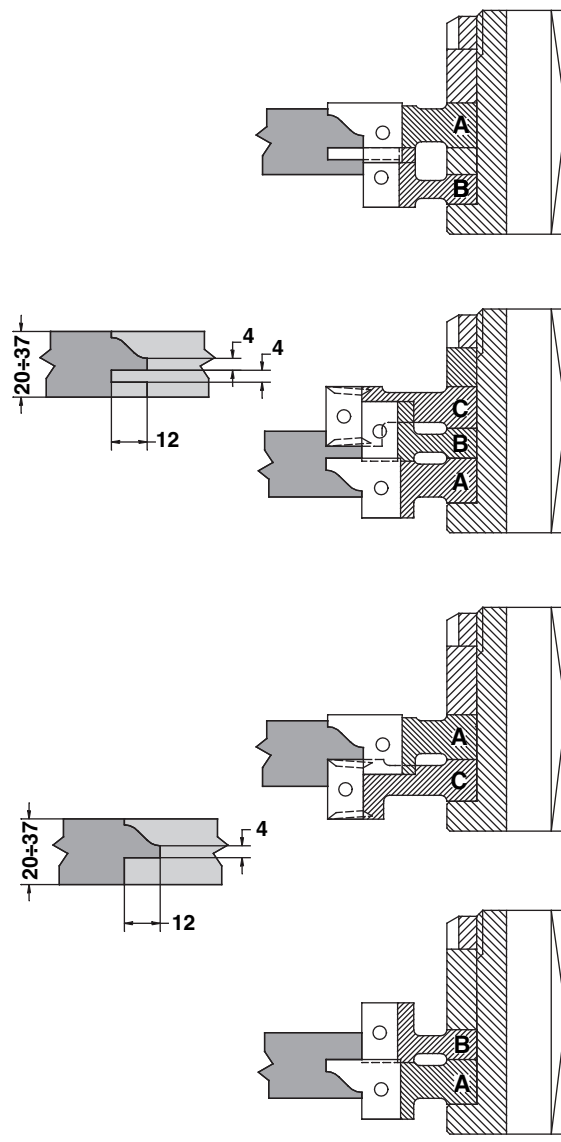
TIPO - 2



TIPO - 3

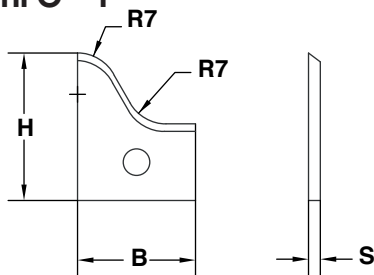


ESEMPI DI LAVORAZIONE

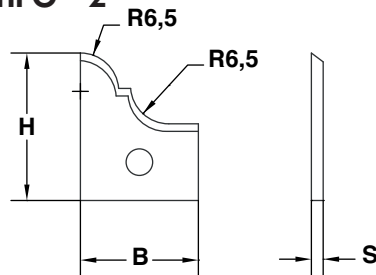


RICAMBI

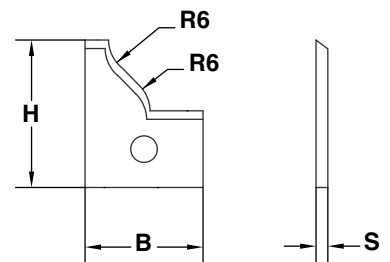
TIPO - 1



TIPO - 2



TIPO - 3



COLTELLI SAGOMATI

| TIPO | 1 | 2 | 3 | LARDONI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 20x25x2 | 20x25x2 | 20x25x2 | 18x12x7,5 |
| ID nr. | 9526 001 | 9526 002 | 9526 003 | 9545 005 |

STANDARD

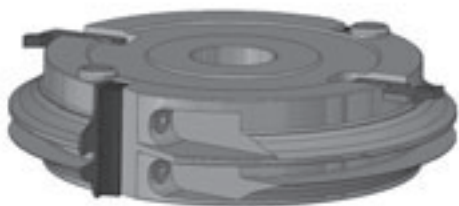
| TIPO | COLTELLI | LARDONI | RASANTI | INSERTI |
|------------------|-----------------|-----------------|-----------------|-----------|
| Dimensioni BxHxS | 20x12x1,5 | 18x12x7,5 | 14x14x2 | 16x32,5x4 |
| ID nr. | 9503 005 | 9545 005 | 9508 002 | 9513 |

VITI

| IMPIEGO | PER LARDONI | PER RASANTI | PER INSERTI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | M8x16 | M5x6 | M5x10 |
| ID nr. | 9546 020 | 9546 004 | 9546 003 |

2077

Testa portacoltelli per antine.
Cutterheads for cabinet doors.
 Têtes porte-couteaux pour portes des meubles.
Messerköpfe für Möbelüren.
 Fresas perfiladas con cuchillas para puertas de muebles.



| D/max | B | d | Z | rpm | ID nr. |
|-------|----|----|---|------|-----------------|
| 160 | 40 | 30 | 2 | 8000 | 2077 001 |
| 160 | 40 | 35 | 2 | 8000 | 2077 002 |
| 160 | 40 | 40 | 2 | 8000 | 2077 003 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request

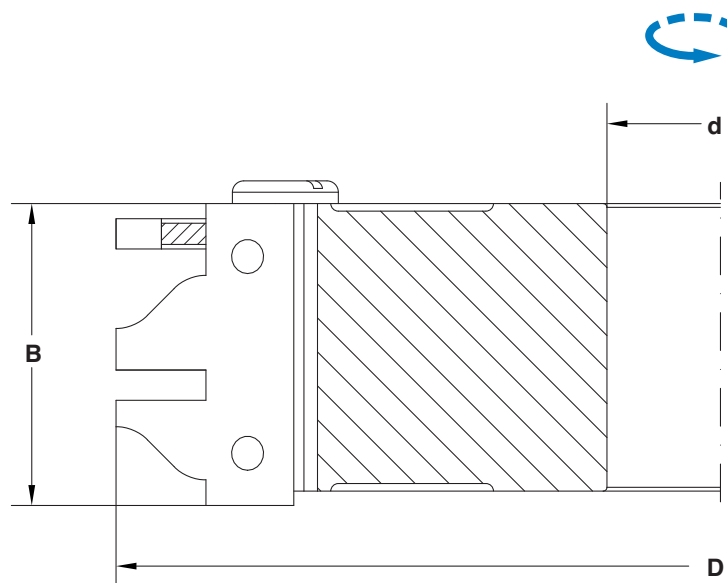


Caratteristiche

La cassetta è composta da N°1 teste portacoltelli.
 In dotazione vi sono N°3 tipi di profili diversi.

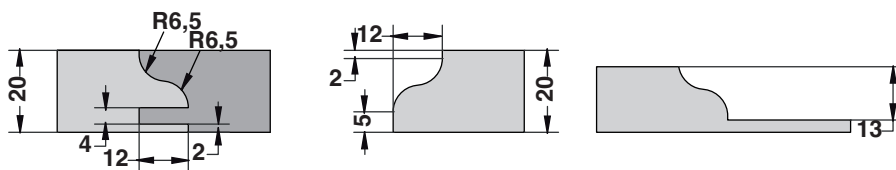
Characteristics

The box is given with N°1 cutterhead in steel.
 Inside there are N°3 different shaped knives.

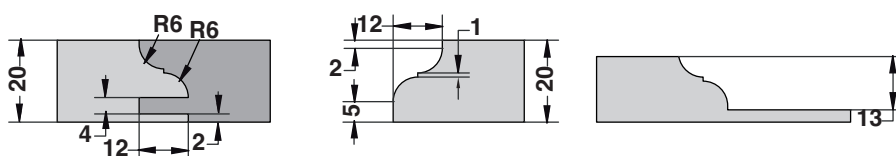


PROFILI ESEGUIBILI

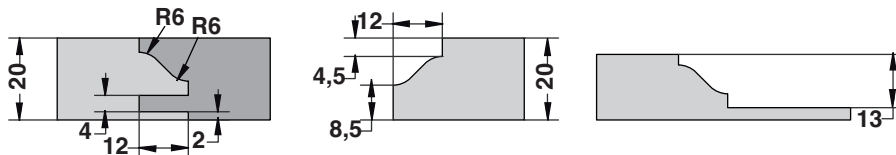
TIPO - 1



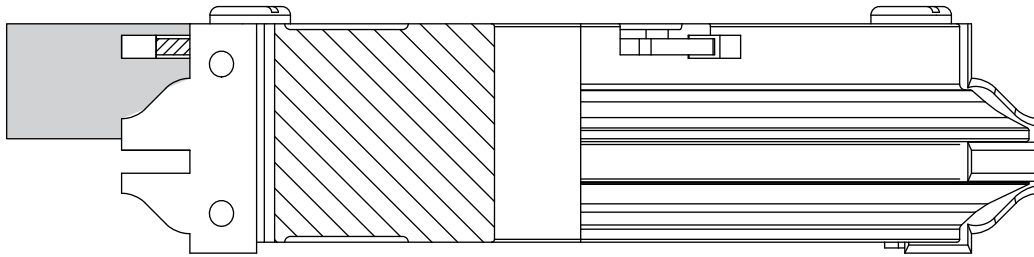
TIPO - 2



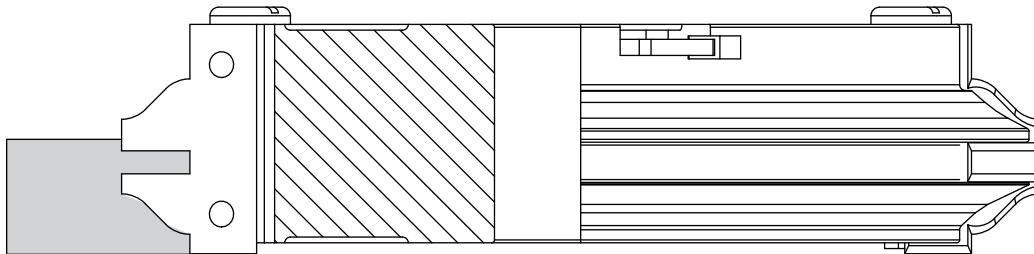
TIPO - 3



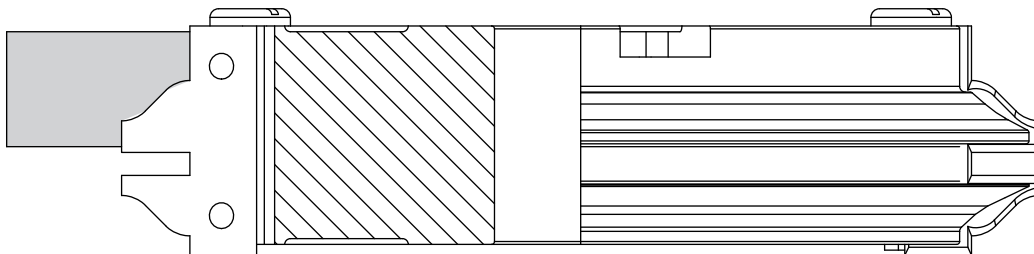
ESEMPI DI LAVORAZIONE



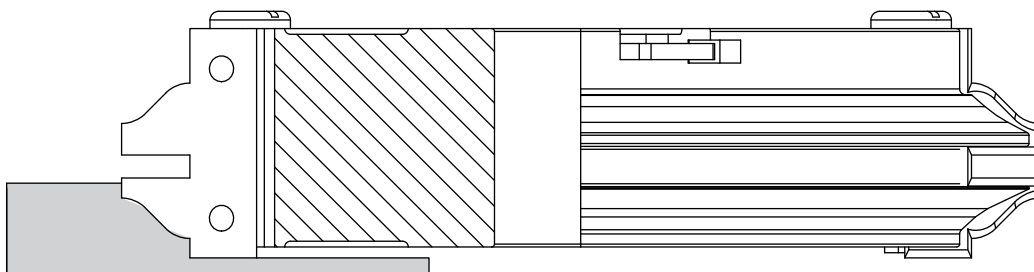
SAGOMA



CONTRO SAGOMA



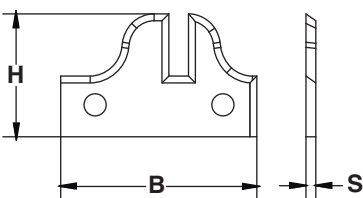
ESTERNO



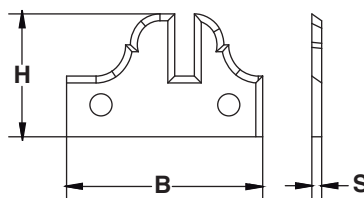
BUGNA

RICAMBI

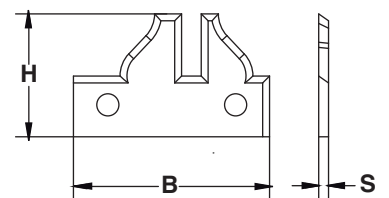
TIPO - 1



TIPO - 2



TIPO - 3



COLTELLI SAGOMATI

| TIPO | 1 | 2 | 3 | LARDONI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x25x2 | 40x25x2 | 40x25x2 | 38x12x7,5 |
| ID nr. | 9572 001 | 9572 002 | 9572 003 | 9545 007 |

STANDARD

| TIPO | INSERTI |
|------------|-----------------|
| Dimensioni | 16x32,5x4 |
| ID nr. | 9513 053 |

VITI

| PER LARDONI | PER INSERTI |
|-----------------|-----------------|
| M8x16 | M5x10 |
| 9546 020 | 9546 003 |

2060

Testa portacoltelli multiprofilo per esecuzione di porte.

Cutterhead multiprofile to realize doors.

Tête porte-couteaux multiprofiles pour portes.

Wendeplatten-Kanterköpf für Tür.

Cabezal con cuchillas para la realización de puertas.



| D | B | d | Z+V | rpm | ID nr. |
|-----|----|----|-------|------|-----------------|
| 180 | 25 | 35 | 2+2+2 | 7500 | 2060 001 |
| 180 | 25 | 40 | 2+2+2 | 7500 | 2060 002 |

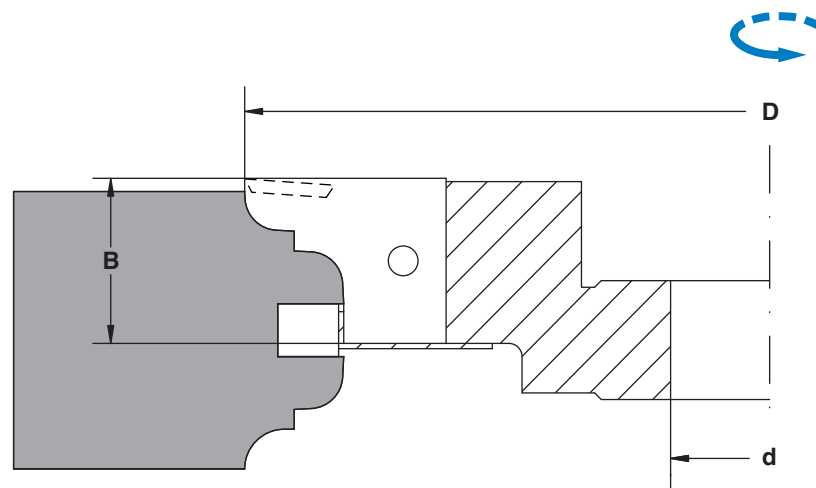
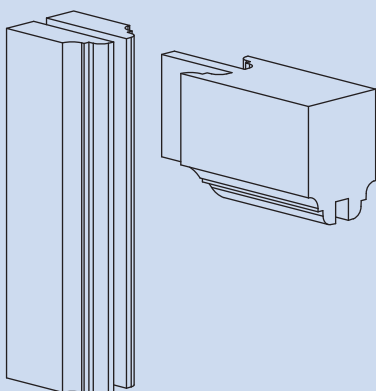


Caratteristiche

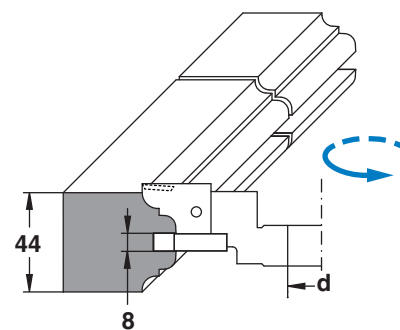
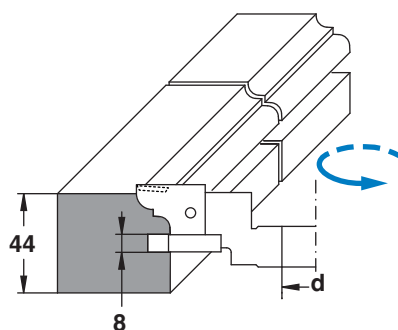
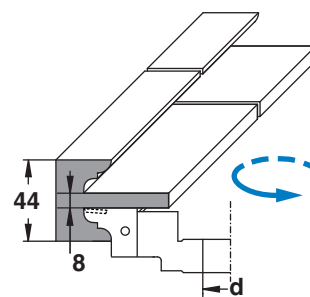
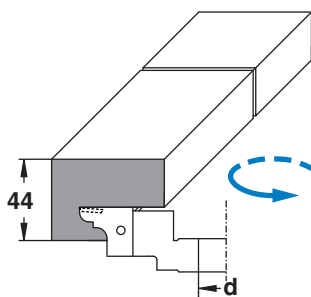
Testa per Toupie per la profilatura di porte.
 È possibile ottenere porte con spessori da 44 semplicemente rovesciando il pezzo da lavorare.
 Possibilità di scegliere tra le sagome proposte.
 Ottima finitura su legni teneri, duri e esotici.

Characteristics

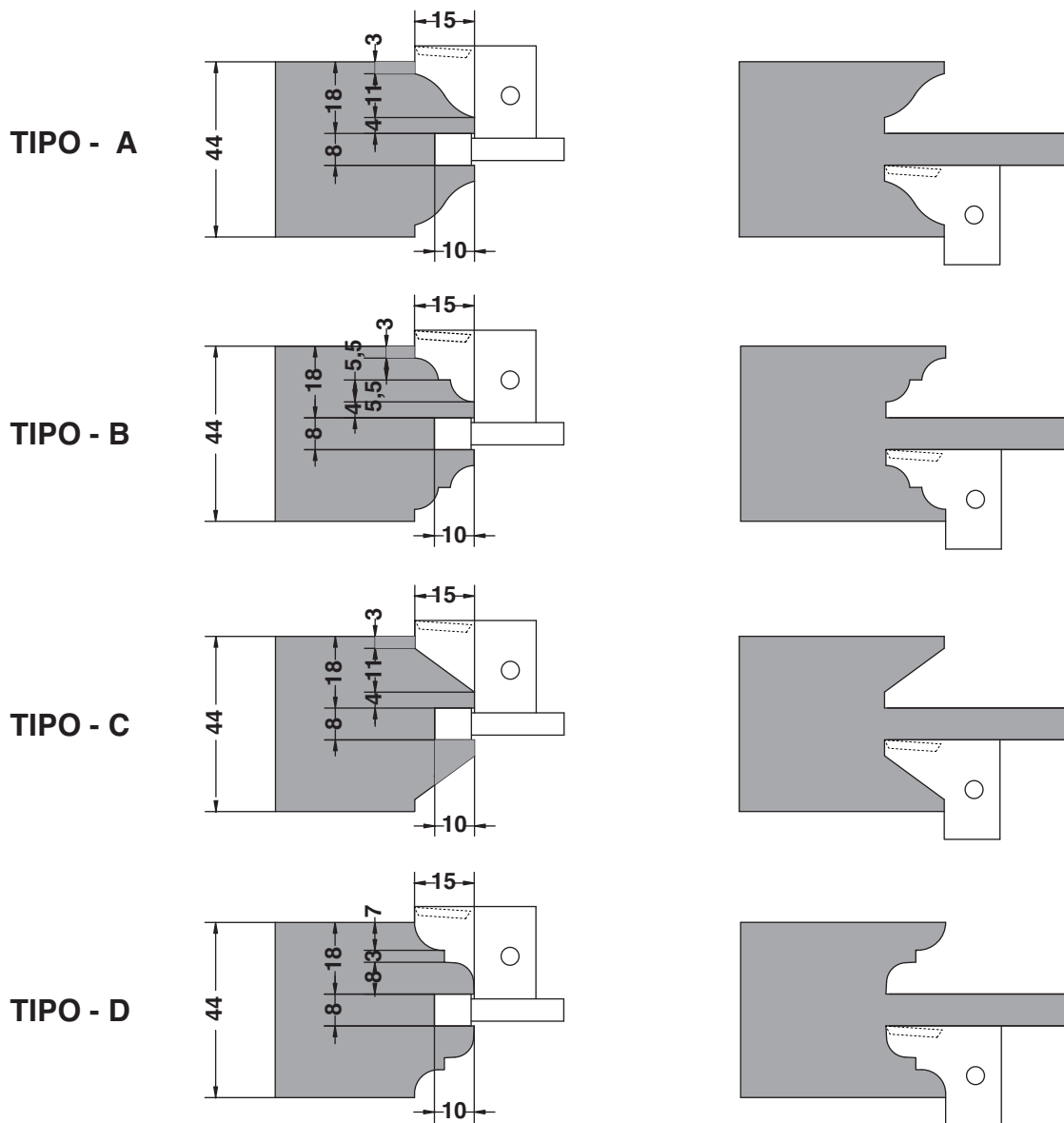
Cutterhead for Toupie to make profiles for doors.
 It is possible to obtain doors with thickness starting from 44 overturning the piece to work.
 It is possible to choose between the shapes available.
 Good results with hard, soft and exotic woods.



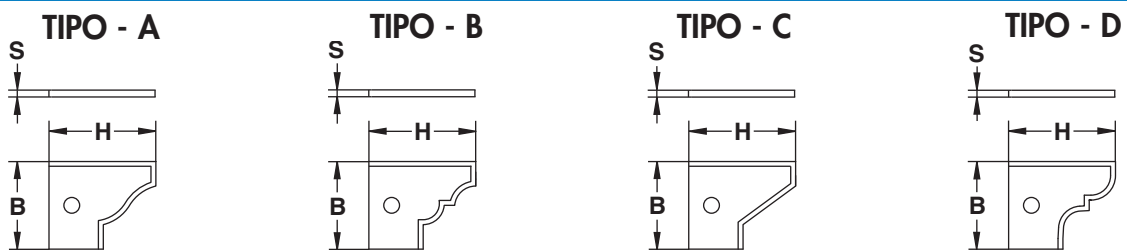
ESEMPI DI LAVORAZIONE



PROFILI ESEGUIBILI



RICAMBI



COLTELLI SAGOMATI

| TIPO | A | B | C | D |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. | 9557 001 | 9557 002 | 9557 003 | 9557 004 |

STANDARD

| TIPO | LARDONI | RASANTI | INSERTI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 18x12x7 | 14x14x2 | 16x32,5x8 |
| ID nr. | 9545 005 | 9508 002 | 9513 062 |

VITI

| IMPIEGO | PER LARDONI | PER RASANTI | PER INSERTI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | M8x16 | M5x8 | M5x10 |
| D nr. | 9546 020 | 9546 005 | 9546 003 |

2016

Testa portacoltelli multitaglienti per spianare in lega leggera.
Spiral staggered tooth planer cutterhead multicuts in aluminium.
 Tête multident pour raboter en aluminium.
Wendepplatten-Füge- und Hobelkopf multischneiden zu Aluminium.
 Cabezal en aleación ligera multifilo cortante para alisar.



Caratteristiche

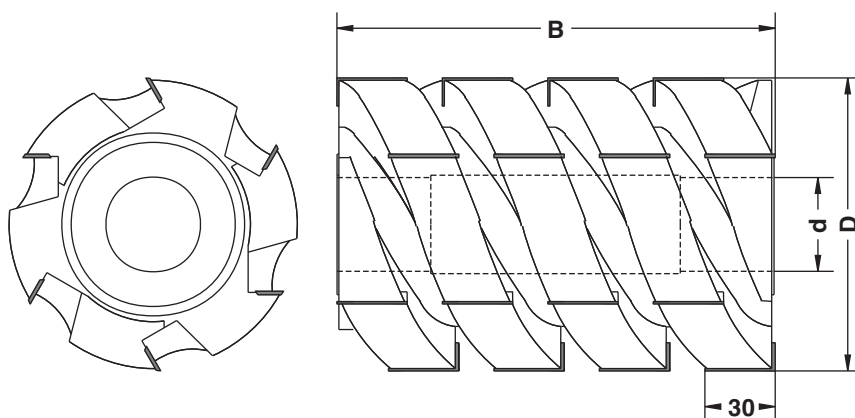
Testa portacoltelli per alberi prepiallatori per grandi asportazioni ad elevata silenziosità. Basso costo di esercizio in quanto i coltelli sono reversibili e si sostituiscono di volta in volta solamente quelli usurati.

Characteristics

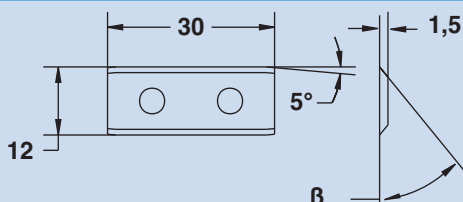
Cutterhead for great wood removal and high silence. Low cost of production because the knives are reversibles and it possible to change just the damaged ones.

| D | B | d | Z | n° coltelli | rpm | ID nr. |
|-----|-----|----|---|-------------|-------|-----------------|
| 100 | 120 | 35 | 6 | 15 | 13000 | 2016 001 |
| 100 | 190 | 35 | 6 | 24 | 13000 | 2016 002 |
| 120 | 118 | 40 | 6 | 15 | 11500 | 2016 003 |
| 120 | 184 | 40 | 6 | 24 | 11500 | 2016 004 |
| 120 | 220 | 40 | 6 | 30 | 11500 | 2016 005 |
| 120 | 230 | 40 | 6 | 30 | 11500 | 2016 006 |
| 125 | 118 | 40 | 6 | 15 | 11000 | 2016 007 |
| 125 | 140 | 40 | 6 | 18 | 11000 | 2016 008 |
| 125 | 184 | 40 | 6 | 24 | 11000 | 2016 009 |
| 125 | 220 | 40 | 6 | 30 | 11000 | 2016 010 |
| 125 | 230 | 40 | 6 | 30 | 11000 | 2016 011 |
| 125 | 240 | 40 | 6 | 33 | 11000 | 2016 016 |
| 140 | 118 | 40 | 6 | 15 | 8000 | 2016 012 |
| 140 | 184 | 40 | 6 | 24 | 8000 | 2016 013 |
| 140 | 220 | 40 | 6 | 30 | 8000 | 2016 014 |
| 140 | 230 | 40 | 6 | 30 | 8000 | 2016 015 |
| 140 | 240 | 40 | 6 | 33 | 8000 | 2016 017 |

Corpo in acciaio aumento 20%
 Steel body increase 20%



RICAMBI



| | COLTELLI | LARDONI | VITI | OGIVA |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5-35° | 30x12x1,5-45° | 31,7x12x7,5 | M8x22 |
| ID nr. | 9517 001 | 9517 051 | 9545 061 | 9546 011 |
| | | | | 9547 009 |

Testa multitaglienti con coltelli 15x15x2,5 per spianare in lega leggera.

Spiral staggered tooth planer cutterhead in aluminium with knives 15x15x2,5.

Tête multifidens pour raboter en aluminium avec couteaux 15x15x2,5.

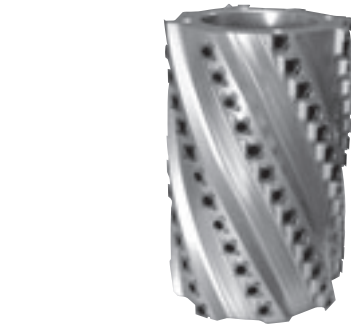
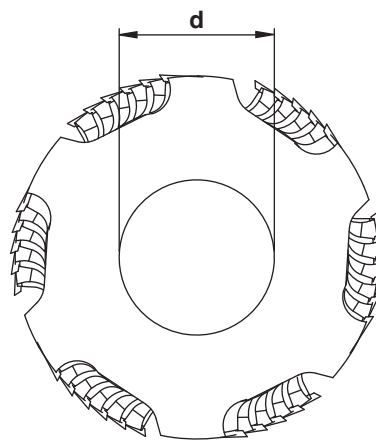
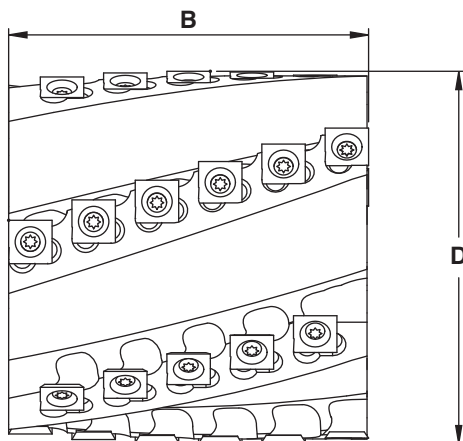
Wendeplatten-Füge und Hobelkopf multischneiden zu Aluminium mit Messern 15x15x2,5.

Cabezal en aleación ligera multifilo cortante para alisar con cuchillas 15x15x2,5.

2061

| D | B | d | Z | n°coltelli | rpm | ID nr. |
|-----|-------|----|---|------------|--------|-----------------|
| 100 | 119 | 35 | 4 | 24 | 13000 | 2061 001 |
| 100 | 186 | 35 | 4 | 38 | 13000 | 2061 002 |
| 120 | 119 | 40 | 4 | 24 | 11500 | 2061 003 |
| 120 | 186 | 40 | 4 | 38 | 11500 | 2061 004 |
| 120 | 214,5 | 40 | 4 | 44 | 11500 | 2061 005 |
| 120 | 233,5 | 40 | 4 | 48 | 11500 | 2061 006 |
| 125 | 119 | 40 | 6 | 36 | 11000 | 2061 007 |
| 125 | 138 | 40 | 6 | 42 | 11000 | 2061 008 |
| 125 | 186 | 40 | 6 | 57 | 11 000 | 2061 009 |
| 125 | 214,5 | 40 | 6 | 66 | 11000 | 2061 010 |
| 125 | 233,5 | 40 | 6 | 72 | 11000 | 2061 011 |
| 125 | 243 | 40 | 6 | 75 | 11000 | 2061 012 |
| 140 | 119 | 40 | 6 | 36 | 8000 | 2061 013 |
| 140 | 186 | 40 | 6 | 57 | 8000 | 2061 014 |
| 140 | 214,5 | 40 | 6 | 66 | 8000 | 2061 015 |
| 140 | 233,5 | 40 | 6 | 72 | 8000 | 2061 016 |
| 140 | 243 | 40 | 6 | 75 | 8000 | 2061 017 |

Corpo in acciaio aumento 20%
Steel body increase 20%



MEC



Caratteristiche

Testa portacoltelli per alberi prepiallatori per grandi asportazioni ad elevata silenziosità. Si ottengono superfici con buona finitura. Basso costo di esercizio in quanto i coltelli sono reversibili "4 posizioni" e si sostituiscono di volta in volta solamente quelli usurati.

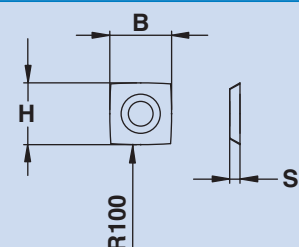
Characteristics

Cutterhead for great wood removal and high silence. Low cost of production because the knives are reversibles "in 4 positions" and it is possible to change just the damage ones.



RICAMBI

| | RASANTI | VITI |
|------------------|-----------------|-----------------|
| Dimensioni BxHxS | 15x15x2,5 | M5x14 |
| ID nr. | 9508 011 | 9546 027 |



2062



Caratteristiche

Testa portacoltelli per alberi prepiallatori per grandi asportazioni ad elevata silenziosità. Si ottengono superfici con media finitura. Basso costo di esercizio in quanto i coltelli sono reversibili "4 posizioni" e si sostituiscono di volta in volta solamente quelli usurati.

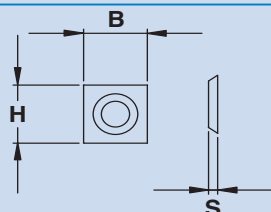
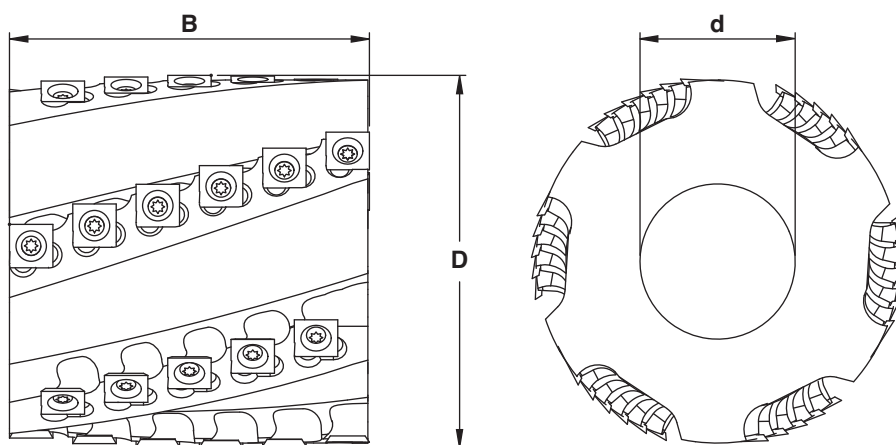
Characteristics

Cutterhead for great wood removal and high silence. Low cost of production because the knives are reversible "in 4 positions" and it is possible to change just the damage ones.

Testa multitaglienti con coltelli 14x14x2 per spianare in lega leggera.
Spiral staggered tooth planer cutterhead in aluminium with knives 14x14x2.
 Tête multidentés pour raboter en aluminium avec couteaux 14x14x2.
Wendepplatten-Füge und Hobelkopf multischneiden zu Aluminium mit Messern 14x14x2.
 Cabezal en aleación ligera multifilo cortante para alisar con cuchillas 14x14x2.

| D | B | d | Z | n°coltelli | rpm | ID nr. |
|-----|-----|----|---|------------|-------|-----------------|
| 100 | 119 | 35 | 4 | 22 | 13000 | 2062 001 |
| 100 | 182 | 35 | 4 | 34 | 13000 | 2062 002 |
| 120 | 119 | 40 | 4 | 22 | 11500 | 2062 003 |
| 120 | 182 | 40 | 4 | 34 | 11500 | 2062 004 |
| 120 | 224 | 40 | 4 | 42 | 11500 | 2062 005 |
| 120 | 235 | 40 | 4 | 44 | 11500 | 2062 006 |
| 125 | 119 | 40 | 6 | 33 | 11000 | 2062 007 |
| 125 | 140 | 40 | 6 | 39 | 11000 | 2062 008 |
| 125 | 182 | 40 | 6 | 51 | 11000 | 2062 009 |
| 125 | 224 | 40 | 6 | 63 | 11000 | 2062 010 |
| 125 | 235 | 40 | 6 | 66 | 11000 | 2062 011 |
| 125 | 245 | 40 | 6 | 69 | 11000 | 2062 012 |
| 140 | 119 | 40 | 6 | 33 | 8000 | 2062 013 |
| 140 | 182 | 40 | 6 | 53 | 8000 | 2062 014 |
| 140 | 224 | 40 | 6 | 63 | 8000 | 2062 015 |
| 140 | 235 | 40 | 6 | 66 | 8000 | 2062 016 |
| 140 | 245 | 40 | 6 | 69 | 8000 | 2062 017 |

Corpo in acciaio aumento 20%
 Steel body increase 20%



RICAMBI

| | RASANTI | VITI |
|------------------|-----------------|-----------------|
| Dimensioni BxHxS | 14x14x2 | M5x14 |
| ID nr. | 9508 002 | 9546 027 |

Testa pialla in lega leggera per scorniatrici con coltelli in HM sistema Bulldozer.
Planer head for automatic moduler in aluminium with HM knives Bulldozer system.
 Tête porte-outil pour moulièriè en aluminium avec couteaux en HM système Bulldozer.
Druckleisten-hobelköpf zu Aluminium mit messern Hm Bulldozer System.
 Cabezal en aleación ligera para cepillar con cuchillas en HM sistema Bulldozer.

2074

| D | B | d | Z | rpm | ID nr. |
|-----|-----|----|---|-------|-----------------|
| 100 | 80 | 35 | 4 | 13000 | 2074 001 |
| 100 | 100 | 35 | 4 | 13000 | 2074 002 |
| 100 | 120 | 35 | 4 | 13000 | 2074 003 |
| 100 | 184 | 35 | 4 | 13000 | 2074 004 |
| 100 | 220 | 40 | 4 | 13000 | 2074 005 |
| 100 | 230 | 40 | 4 | 13000 | 2074 006 |
| 120 | 80 | 40 | 4 | 9500 | 2074 007 |
| 120 | 100 | 40 | 4 | 9500 | 2074 008 |
| 120 | 120 | 40 | 4 | 9500 | 2074 009 |
| 120 | 184 | 40 | 4 | 9500 | 2074 010 |
| 120 | 220 | 40 | 4 | 9500 | 2074 011 |
| 120 | 230 | 40 | 4 | 9500 | 2074 012 |
| 125 | 80 | 40 | 4 | 9000 | 2074 013 |
| 125 | 100 | 40 | 4 | 9000 | 2074 014 |
| 125 | 120 | 40 | 4 | 9000 | 2074 015 |
| 125 | 184 | 40 | 4 | 9000 | 2074 016 |
| 125 | 220 | 40 | 4 | 9000 | 2074 017 |
| 125 | 230 | 40 | 4 | 9000 | 2074 018 |
| 125 | 250 | 40 | 4 | 9000 | 2074 019 |
| 140 | 80 | 40 | 4 | 7000 | 2074 020 |
| 140 | 100 | 40 | 4 | 7000 | 2074 021 |
| 140 | 120 | 40 | 4 | 7000 | 2074 022 |
| 140 | 184 | 40 | 4 | 7000 | 2074 023 |
| 140 | 220 | 40 | 4 | 7000 | 2074 024 |
| 140 | 230 | 40 | 4 | 7000 | 2074 025 |
| 140 | 250 | 40 | 4 | 7000 | 2074 026 |



MEC



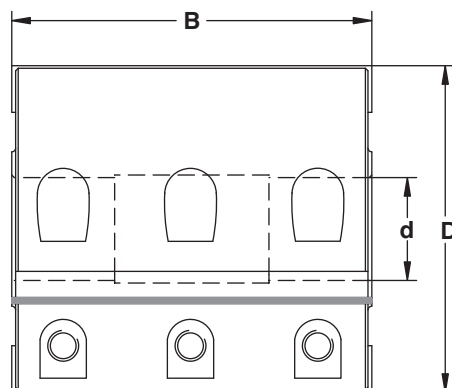
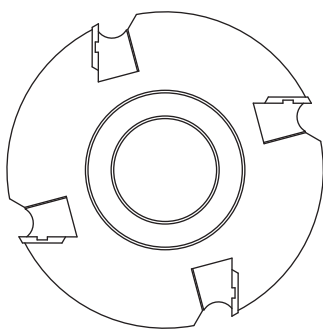
Caratteristiche

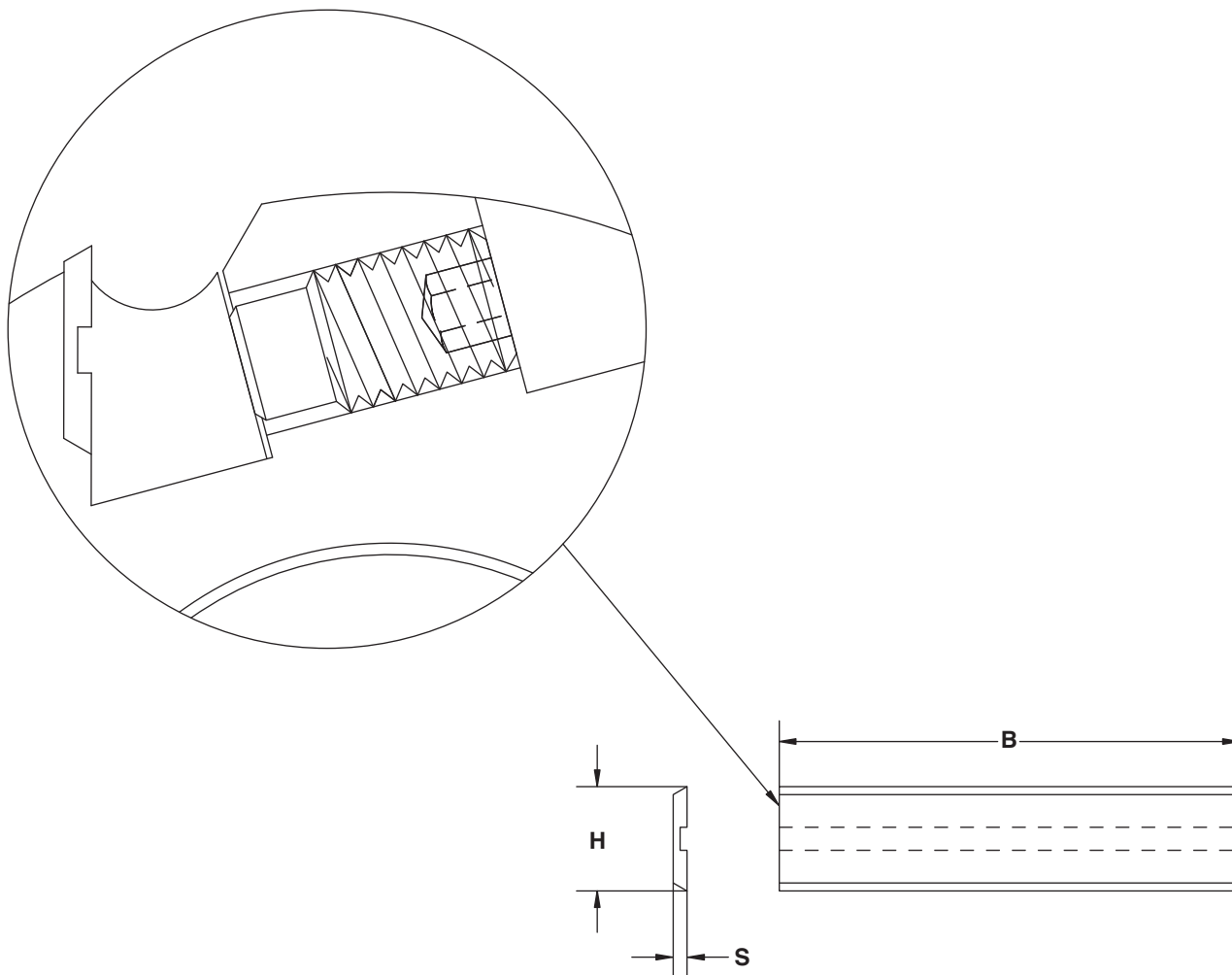
Testa pialla ad alta resistenza per piallature.
 In dotazione la testa monta coltelli in HM sistema Bulldozer.

Characteristics

Planer head with high efficiency.
 Equipped with HM knives Bulldozer system.

Corpo in acciaio aumento 20%
 Steel body increase 20%





RICAMBI

| COLTELLI | | | | | | | |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 80x13,6x1,8 | 100x13,6x1,8 | 120x13,6x1,8 | 184x13,6x1,8 | 220x13,6x1,8 | 230x13,6x1,8 | 250x13,6x1,8 |
| ID nr. | 9565 001 | 9565 002 | 9565 003 | 9565 004 | 9565 005 | 9565 006 | 9565 007 |

| LARDONI | | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 80 | 100 | 120 | 184 | 220 | 230 | 250 |
| ID nr. | 2074 501 | 2074 502 | 2074 503 | 2074 504 | 2074 505 | 2074 506 | 2074 507 |

| VITI | |
|------------|-----------------|
| Dimensioni | M10x25 |
| ID nr. | 9546 023 |

Testa portacoltelli per spianare in lega leggera per scorniciatrici.

Planer head for automatic moduler in aluminium.

Tête porte-outil pour mouliliere en aluminium.

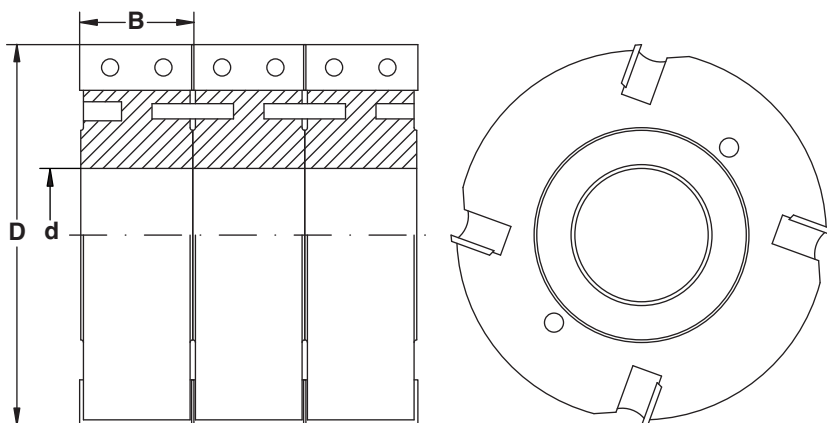
Druckleisten-hobelköpff zu Aluminium.

Cabezal en aleación ligera para cepillar.

| D | B | d | Z | rpm | ID nr. |
|-----|----|----|---|-------|-----------------|
| 125 | 30 | 35 | 4 | 10500 | 2075 001 |
| 125 | 30 | 40 | 4 | 10500 | 2075 002 |
| 125 | 40 | 35 | 4 | 10500 | 2075 003 |
| 125 | 40 | 40 | 4 | 10500 | 2075 004 |
| 125 | 50 | 35 | 4 | 10500 | 2075 005 |
| 125 | 50 | 40 | 4 | 10500 | 2075 006 |
| 140 | 30 | 35 | 4 | 9000 | 2075 007 |
| 140 | 30 | 40 | 4 | 9000 | 2075 008 |
| 140 | 40 | 35 | 4 | 9000 | 2075 009 |
| 140 | 40 | 40 | 4 | 9000 | 2075 010 |
| 140 | 50 | 35 | 4 | 9000 | 2075 011 |
| 140 | 50 | 40 | 4 | 9000 | 2075 012 |

Corpo in acciaio aumento 20%

Steel body increase 20%



2075



MEC



Caratteristiche

Teste per piallare su scorniciatrice con coltelli reversibili e corpo in alluminio ad alta resistenza.

Possibilità di accoppiamento illimitata fino al raggiungimento della lunghezza di taglio desiderata.

Characteristics

Planer heads for planing on automatic moduler with changeable knives and body in aluminium with high efficiency.

It is possible to combine this tool until to reach the cutting length wanted without any limit.

RICAMBI

| PER ART. 2075001/2/7/8 | COLTELLI | LARDONI | VITI |
|------------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x12x1,5 | 28x12x7,5 | M6x16 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 |

| PER ART. 2075003/4/9/10 | COLTELLI | LARDONI | VITI |
|-------------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x12x1,5 | 38x12x7,5 | M6x16 |
| ID nr. | 9503 007 | 9545 007 | 9546 018 |

| PER ART. 2075005/6/11/12 | COLTELLI | LARDONI | VITI |
|--------------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x12x1,5 | 48x12x7,5 | M6x16 |
| ID nr. | 9503 008 | 9545 008 | 9546 018 |

2017

Teste pialla in lega leggera per scorniatrici con coltelli in HSS 18%.
Planer heads for automatic moduler with knives HSS 18% in aluminium.
 Têtes porte-outils pour muoluiriere avec couteaux HSS 18% en aluminium.
Druckleisten-hobelköpff mit geradeliegenden Messern HSS 18% zu Aluminium.
 Cabezales en aleación ligera con cuchillas de HSS 18% para cepillar.



Caratteristiche

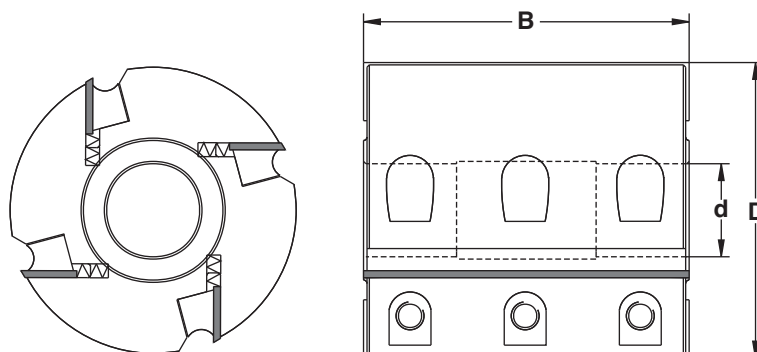
Testa pialla ad alta resistenza per piallature.
 In dotazione la testa monta coltelli in HSS 18%,
 ma su richiesta si possono avere coltelli in HM.

Characteristics

Planer head with high efficiency.
 The cutterhead has knives in HSS 18%, but on
 request it is possible to have HM knives.

| D | B | d | Z | rpm | ID nr. |
|-----|-----|----|---|------|-----------------|
| 125 | 80 | 40 | 4 | 9000 | 2017 001 |
| 125 | 100 | 40 | 4 | 9000 | 2017 002 |
| 125 | 120 | 40 | 4 | 9000 | 2017 003 |
| 125 | 130 | 40 | 4 | 9000 | 2017 004 |
| 125 | 140 | 40 | 4 | 9000 | 2017 005 |
| 125 | 150 | 40 | 4 | 9000 | 2017 006 |
| 125 | 180 | 40 | 4 | 9000 | 2017 007 |
| 125 | 190 | 40 | 4 | 9000 | 2017 008 |
| 125 | 220 | 40 | 4 | 9000 | 2017 009 |
| 125 | 230 | 40 | 4 | 9000 | 2017 010 |
| 125 | 240 | 40 | 4 | 9000 | 2017 011 |
| 125 | 245 | 40 | 4 | 9000 | 2017 012 |

Corpo in acciaio aumento 20%
Steel body increase 20%



RICAMBI

| COLTELLI | | | | | | |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 80x30x3 | 100x30x3 | 120x30x3 | 130x30x3 | 140x30x3 | 150x30x3 |
| ID nr. | 9501 001 | 9501 002 | 9501 003 | 9501 004 | 9501 005 | 9501 006 |

| COLTELLI | | | | | | |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 180x30x3 | 190x30x3 | 220x30x3 | 230x30x3 | 240x30x3 | 245x30x3 |
| ID nr. | 9501 009 | 9501 010 | 9501 013 | 9501 014 | 9501 015 | 9501 016 |

| LARDONI | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 80 | 100 | 120 | 130 | 140 | 150 |
| ID nr. | 2017 501 | 2017 502 | 2017 503 | 2017 504 | 2017 505 | 2017 506 |

| LARDONI | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 180 | 190 | 220 | 230 | 240 | 245 |
| ID nr. | 2017 509 | 2017 510 | 2017 513 | 2017 514 | 2017 515 | 2017 516 |

| VITI | |
|------------|-----------------|
| Dimensioni | M10x25 |
| ID nr. | 9546 023 |

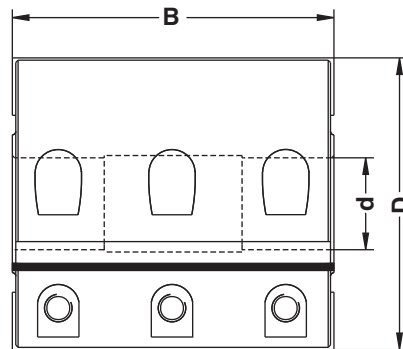
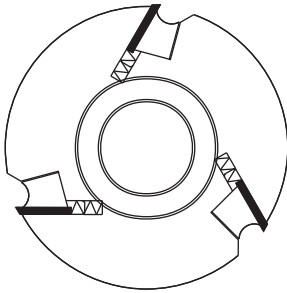
Teste pialla in lega leggera per scorniatrici con coltelli in HSS 18%.
Planer heads for automatic moduler with knives HSS 18% in aluminium.
 Têtes porte-outils pour muoluiriere avec couteaux HSS 18% en aluminium.
Druckleisten-hobelköpf mit geradeliegenden Messern HSS 18% zu Aluminium.
 Cabezales en aleación ligera con cuchillas de HSS 18% para cepillar.

2017

| D | B | d | Z | rpm | ID nr. |
|-----|-----|----|---|-------|-----------------|
| 100 | 120 | 35 | 3 | 13000 | 2017 021 |
| 100 | 190 | 35 | 3 | 13000 | 2017 022 |



Corpo in acciaio aumento 20%
 Steel body increase 20%



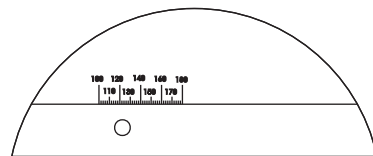
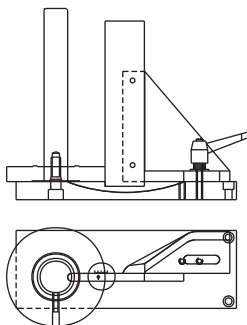
Caratteristiche

Testa pialla ad alta resistenza per piallature.
 In dotazione la testa monta coltelli in HSS 18%, ma su richiesta si possono avere coltelli in HM.

Characteristics

Planer head with high efficiency.
 The cutterhead has knives in HSS 18%, but on request it is possible to have HM knives.

| CALIBRO REGISTRACOLTELLI UNIVERSALE | | |
|-------------------------------------|-----------------|-----------------|
| PER FORO d= | 35 | 40 |
| ID nr. | 2017 031 | 2017 032 |

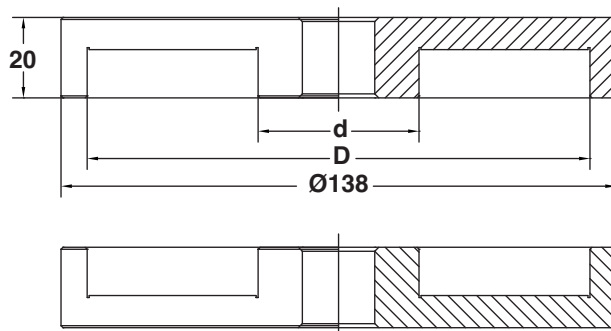


Particolare "A" scala 2:1

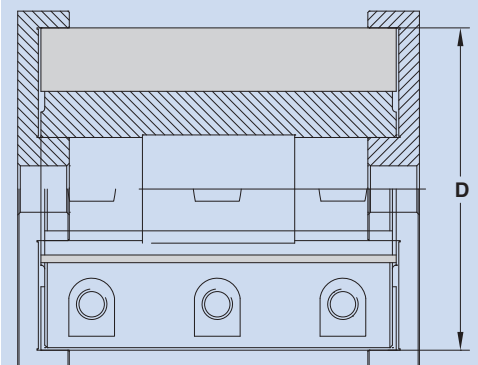
| CALIBRO REGISTRACOLTELLI | | |
|--------------------------|------------------|------------------|
| PER FORO d= | 35 | 40 |
| PER TESTE D= | 100 | 125 |
| ID nr. | 2017 041* | 2017 042* |



* Viene fornita la coppia completa
 * It is supplied pair complete



Esempio di montaggio



RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|---|
| Dimensioni | 120x25x3 | 190x25x3 | M10x25 |
| ID nr. | 9501 201 | 9501 202 | 2017 503 2017 510 9546 023 |

2063



Caratteristiche

Teste pialla ad alta resistenza per piallature.
In dotazione la testa monta coltelli in HSS 18% da 30x3, ma su richiesta possono essere equipaggiate di coltelli in HM.

Esecuzione corpo in acciaio con boccole Hidro per il fissaggio dell'utensile sull'albero della macchina.

Characteristics

Planer head with high efficiency.

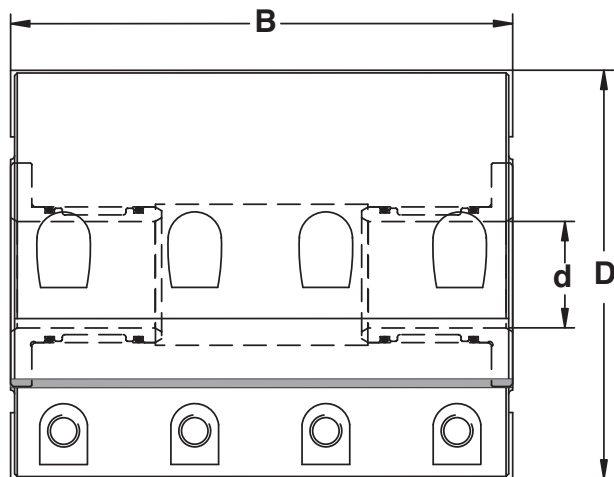
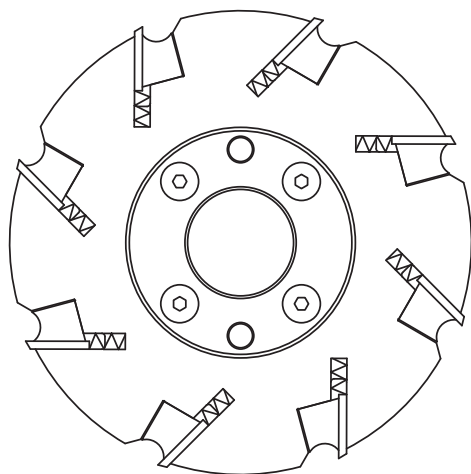
The cutterhead has knives 30x3 in HSS 18%, but on request it is possible to have them in HM.

Body in steel with Hidro bushes that fix the tool to the shaft of the machine.

Teste pialla in acciaio con fissaggio HIDRO con coltelli in HSS 18%.
Planer heads in steel with HIDRO system and with knives in HSS 18%.
Têtes porte-outil en acier avec système HIDRO et avec couteaux en HSS 18%.
Hobelköpf zu Stahl mit HIDRO System und Messern zu HSS 18%.
Cabezales en acero con sistema HIDRO y con cuchillas en HSS 18%.

| D | B | d | Z | rpm | ID nr. |
|-----|-----|----|---|-------|---------|
| 143 | 60 | 40 | 4 | 10500 | 2063001 |
| 143 | 100 | 40 | 4 | 10500 | 2063002 |
| 143 | 130 | 40 | 4 | 10500 | 2063003 |
| 143 | 150 | 40 | 4 | 10500 | 2063004 |
| 143 | 160 | 40 | 4 | 10500 | 2063005 |
| 143 | 230 | 40 | 4 | 10500 | 2063006 |
| 163 | 60 | 50 | 4 | 9300 | 2063007 |
| 163 | 100 | 50 | 4 | 9300 | 2063008 |
| 163 | 130 | 50 | 4 | 9300 | 2063009 |
| 163 | 150 | 50 | 4 | 9300 | 2063010 |
| 163 | 160 | 50 | 4 | 9300 | 2063011 |
| 163 | 180 | 50 | 4 | 9300 | 2063012 |
| 163 | 230 | 50 | 4 | 9300 | 2063013 |
| 163 | 260 | 50 | 4 | 9300 | 2063014 |
| 163 | 60 | 50 | 6 | 9300 | 2063015 |
| 163 | 100 | 50 | 6 | 9300 | 2063016 |
| 163 | 130 | 50 | 6 | 9300 | 2063017 |
| 163 | 150 | 50 | 6 | 9300 | 2063018 |
| 163 | 160 | 50 | 6 | 9300 | 2063019 |
| 163 | 180 | 50 | 6 | 9300 | 2063020 |
| 163 | 230 | 50 | 6 | 9300 | 2063021 |
| 163 | 260 | 50 | 6 | 9300 | 2063022 |
| 163 | 60 | 50 | 8 | 9300 | 2063023 |
| 163 | 100 | 50 | 8 | 9300 | 2063024 |
| 163 | 130 | 50 | 8 | 9300 | 2063025 |
| 163 | 150 | 50 | 8 | 9300 | 2063026 |
| 163 | 160 | 50 | 8 | 9300 | 2063027 |
| 163 | 180 | 50 | 8 | 9300 | 2063028 |
| 163 | 230 | 50 | 8 | 9300 | 2063029 |
| 163 | 260 | 50 | 8 | 9300 | 2063030 |

Esecuzione foro d = 60 a richiesta
Execution with bore d = 60 by request



RICAMBI

| COLTELLI | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 60x30x3 | 100x30x3 | 130x30x3 | 150x30x3 |
| ID nr. | 9501 034 | 9501 002 | 9501 004 | 9501 006 |

| COLTELLI | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 160x30x3 | 180x30x3 | 230x30x3 | 260x30x3 |
| ID nr. | 9501 007 | 9501 009 | 9501 014 | 9501 035 |

| LARDONI | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 60 | 100 | 130 | 150 |
| ID nr. | 2063 501 | 2063 502 | 2063 503 | 2063 504 |

| LARDONI | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 160 | 180 | 230 | 260 |
| ID nr. | 2063 505 | 2063 506 | 2063 507 | 2063 508 |

| VITI | |
|------------|-----------------|
| Dimensioni | M10x25 |
| ID nr. | 9546 023 |

2018

Teste rasanti.
 Trimming cutters.
 Fraises pour raser.
 Messerköpfe mit Vorschneider.
 Cabezales con rasantes.



| D | B | d | Z | rpm | MACCHINA | ID nr. |
|-----|----|----|-----|-------|----------|-----------------|
| 120 | 12 | 35 | 3+3 | 10000 | SCM | 2018 001 |
| 145 | 12 | 40 | 4+2 | 9000 | GRIGGIO | 2018 007 |
| 150 | 12 | 40 | 4+2 | 9000 | SCM | 2018 003 |
| 154 | 12 | 40 | 4+2 | 9000 | SICAR | 2018 004 |
| 165 | 12 | 40 | 4+2 | 9000 | SCM | 2018 005 |
| 174 | 10 | 40 | 2+2 | 8000 | SICAR | 2018 006 |

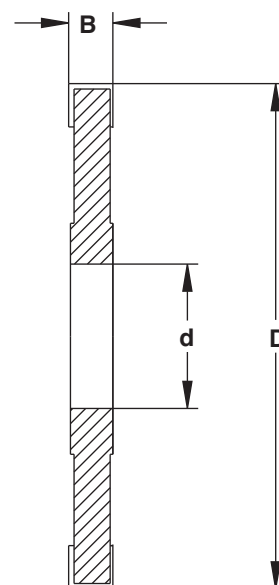
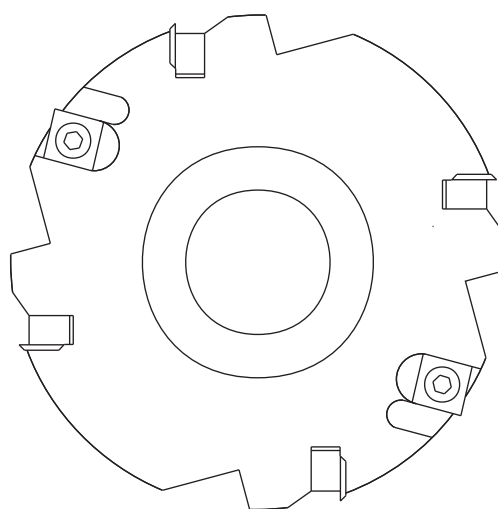


Caratteristiche

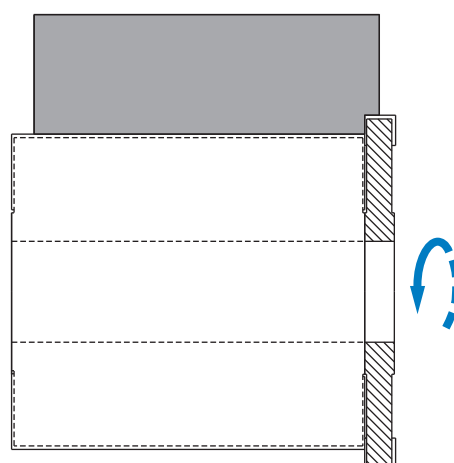
Testa portacoltelli con rasanti da abbinare ai gruppi prepiallatori della scorniciatrice per eseguire su legno la battuta di appoggio.

Characteristics

Cutterhead with trimming to combine together with the groups for frame-moulding machines for making supporting rabbet on woods.



ESEMPIO DI LAVORAZIONE



RICAMBI

| | COLTELLI | LARDONI | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 12x12x1,5 | 10x12x7,5 | 9,65x12x1,5 | 8,5x12x7,5 | M6x16 |
| ID nr. | 9503 003 | 9545 003 | 9503 002 | 9545 002 | 9546 018 |

| | RASANTI | VITI |
|------------|-----------------|-----------------|
| Dimensioni | 14x14x2 | M5x8 |
| ID nr. | 9508 002 | 9546 005 |

Gruppi prepiallatori per banchi rigati.

Guide groove moulder cutterhead.

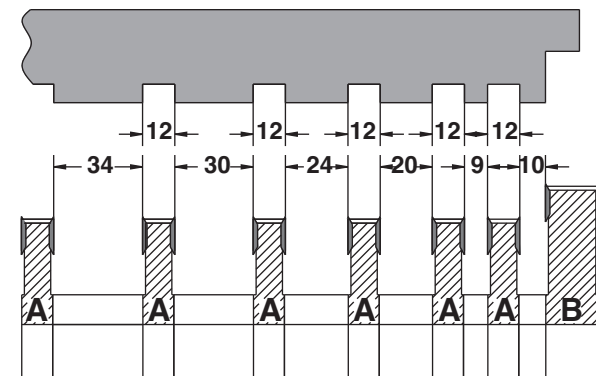
Groupes pour rainier sur moulurières.

Wendeplatten-Nutbettsatz.

Juego de precepilladores para mesas rayadas.

2019

| D | B | d | Z | TIPO | ID nr. |
|-----|----|----|-----|------|-----------------|
| 120 | 12 | 40 | 4+4 | A | 2019 001 |
| 145 | 20 | 40 | 4+2 | B | 2019 002 |
| 125 | 10 | 40 | 4+4 | C | 2019 003 |
| 125 | 9 | 40 | 4+4 | D | 2019 004 |
| 125 | 17 | 40 | 4+2 | E | 2019 005 |
| 125 | 20 | 40 | 4+2 | F | 2019 006 |



Piano rigato - SCM

| | L=80 | L=100 | L=120 | L=140 | L=170 |
|----------|------|-------|-------|-------|-----------------|
| TIPO - A | / | / | / | / | 6 |
| TIPO - B | / | / | / | / | 1 |
| ID nr. | / | / | / | / | 2019 051 |

MEC

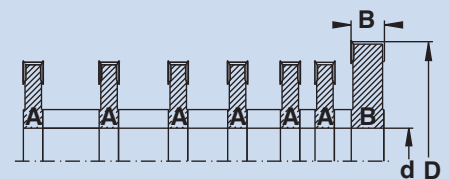


Caratteristiche

Combinazione di teste portacoltelli con coltellini reversibili per prepiallatura.

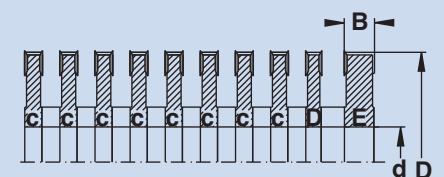
Characteristics

Set of cutterheads with reversible knives for pre-grinding.



Piano rigato - WEINIG

| | L=80 | L=100 | L=120 | L=140 | L=170 |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO - C | 2 | 3 | 4 | 5 | 7 |
| TIPO - D | 1 | 1 | 1 | 1 | 1 |
| TIPO - E | 1 | 1 | 1 | 1 | 1 |
| ID nr. | 2019 061 | 2019 062 | 2019 063 | 2019 064 | 2019 065 |



RICAMBI

| | COLTELLI | LARDONI | COLTELLI | LARDONI | COLTELLI | LARDONI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 12x12x1,5 | 10x12x7,5 | 9,65x12x1,5 | 8,5x12x7,5 | 7,65x12x1,5 | 6,5x12x7,5 |
| ID nr. | 9503 003 | 9545 003 | 9503 002 | 9545 002 | 9503 001 | 9545 001 |

| | COLTELLI | LARDONI | COLTELLI | LARDONI | RASANTI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 15x12x1,5 | 13x12x7,5 | 20x12x1,5 | 18x12x7,5 | 14x14x2 |
| ID nr. | 9503 004 | 9545 004 | 9503 005 | 9545 005 | 9508 002 |

VITI

| IMPIEGO | PER COLTELLI | | PER RASANTI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | M5x16 | M6x16 | M5x8 |
| ID nr. | 9546 015 | 9546 018 | 9546 005 |

2020

Teste portacoltelli sagomati in acciaio.
Cutterheads with shaped steel knives.
 Têtes porte-couteaux avec couteaux profilés en acier.
Profil-Köpf mit Messer zu Stahl.
 Cabezales perfilados en acero.



| D | B | d | d/max | Z | rpm | ID nr. |
|-----|-----|----|-------|---|------|---------|
| 122 | 40 | 35 | 40 | 4 | 9000 | 2020001 |
| 122 | 60 | 35 | 40 | 4 | 9000 | 2020002 |
| 122 | 80 | 35 | 40 | 4 | 9000 | 2020003 |
| 122 | 100 | 35 | 40 | 4 | 9000 | 2020004 |
| 122 | 130 | 35 | 40 | 4 | 9000 | 2020005 |
| 122 | 150 | 35 | 40 | 4 | 9000 | 2020006 |
| 122 | 180 | 35 | 40 | 4 | 9000 | 2020007 |
| 122 | 230 | 35 | 40 | 4 | 9000 | 2020008 |



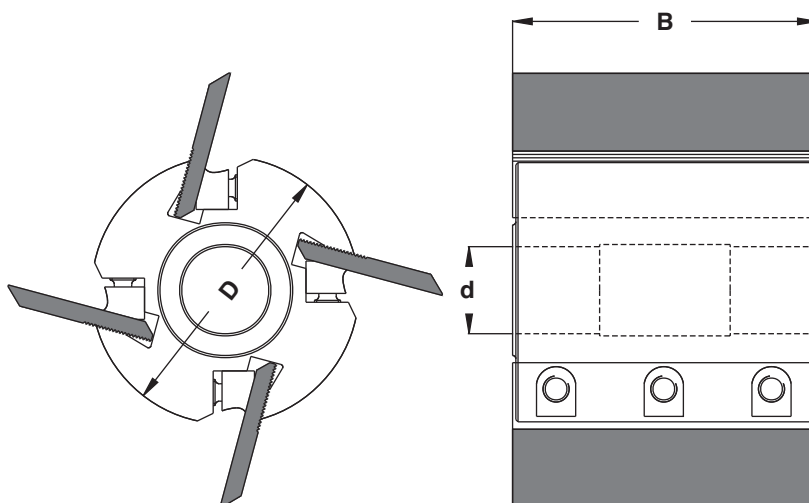
Caratteristiche

Corpo utensile escluso coltelli.
 Testa in acciaio portacoltelli HSS rigati con spessore 8mm.
 La rigatura dei coltelli e della sede in cui alloggiano danno sicurezza e precisione.
 La testa viene fornita senza coltelli i quali vengono profilati su richiesta, vedi tabella.

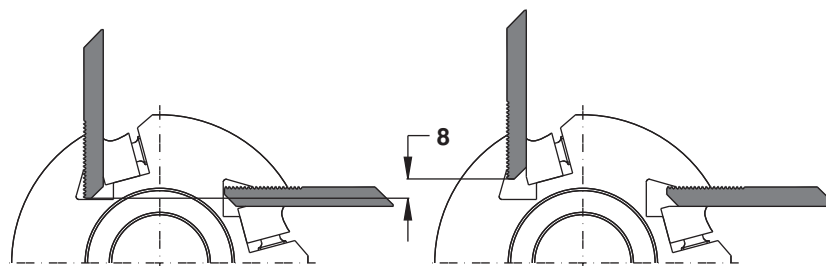
Characteristics

The tool is supplied without knives.
 Cutterhead in steel with knives in HSS with thickness 8mm.
 The ruled of knives and of seat gives security and precision.
 The cutterhead is supplied without knives that will sharpened on request, see list.

| | | | | | | |
|-----|-----|----|----|---|------|---------|
| 137 | 50 | 40 | 50 | 4 | 9000 | 2020009 |
| 137 | 60 | 40 | 50 | 4 | 9000 | 2020010 |
| 137 | 100 | 40 | 50 | 4 | 9000 | 2020011 |
| 137 | 130 | 40 | 50 | 4 | 9000 | 2020012 |
| 137 | 150 | 40 | 50 | 4 | 9000 | 2020013 |
| 137 | 180 | 40 | 50 | 4 | 9000 | 2020014 |
| 137 | 230 | 40 | 50 | 4 | 9000 | 2020015 |



REGOLAZIONE 8mm PER AFFILATURA



RICAMBI

COLTELLI SAGOMATI

ID nr.

9502

Teste portacoltelli sagomati in acciaio, con serraggio HIDRO.

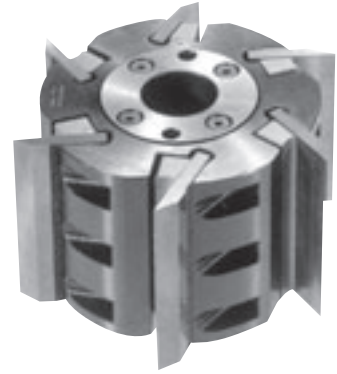
Cutterheads with shaped steel knives and HIDRO system.

Têtes porte-couteaux avec couteaux profilés en acier et système HIDRO.

Profil-Köpf mit Messer zu Stahl und HIDRO System.

Cabezales con cuchillas perfiladas en acero y con sistema HIDRO.

2064



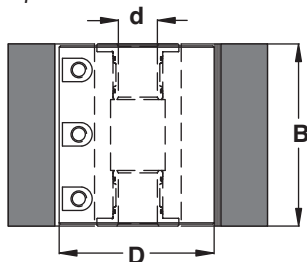
| D | B | d | Z | rpm | ID nr. |
|-----|-----|----|---|------|-----------------|
| 152 | 60 | 40 | 4 | 8000 | 2064 001 |
| 152 | 60 | 50 | 4 | 8000 | 2064 002 |
| 152 | 100 | 40 | 4 | 8000 | 2064 003 |
| 152 | 100 | 50 | 4 | 8000 | 2064 004 |
| 152 | 130 | 40 | 4 | 8000 | 2064 005 |
| 152 | 130 | 50 | 4 | 8000 | 2064 006 |
| 152 | 150 | 40 | 4 | 8000 | 2064 007 |
| 152 | 150 | 50 | 4 | 8000 | 2064 008 |
| 152 | 180 | 40 | 4 | 8000 | 2064 009 |
| 152 | 180 | 50 | 4 | 8000 | 2064 010 |
| 152 | 230 | 40 | 4 | 8000 | 2064 011 |
| 152 | 230 | 50 | 4 | 8000 | 2064 012 |

| | | | | | |
|-----|-----|----|---|------|-----------------|
| 152 | 60 | 40 | 6 | 8000 | 2064 021 |
| 152 | 60 | 50 | 6 | 8000 | 2064 022 |
| 152 | 100 | 40 | 6 | 8000 | 2064 023 |
| 152 | 100 | 50 | 6 | 8000 | 2064 024 |
| 152 | 130 | 40 | 6 | 8000 | 2064 025 |
| 152 | 130 | 50 | 6 | 8000 | 2064 026 |
| 152 | 150 | 40 | 6 | 8000 | 2064 027 |
| 152 | 150 | 50 | 6 | 8000 | 2064 028 |
| 152 | 180 | 40 | 6 | 8000 | 2064 029 |
| 152 | 180 | 50 | 6 | 8000 | 2064 030 |
| 152 | 230 | 40 | 6 | 8000 | 2064 031 |
| 152 | 230 | 50 | 6 | 8000 | 2064 032 |

| | | | | | |
|-----|-----|----|---|------|-----------------|
| 163 | 60 | 40 | 8 | 7600 | 2064 041 |
| 163 | 60 | 50 | 8 | 7600 | 2064 042 |
| 163 | 100 | 40 | 8 | 7600 | 2064 043 |
| 163 | 100 | 50 | 8 | 7600 | 2064 044 |
| 163 | 130 | 40 | 8 | 7600 | 2064 045 |
| 163 | 130 | 50 | 8 | 7600 | 2064 046 |
| 163 | 150 | 40 | 8 | 7600 | 2064 047 |
| 163 | 150 | 50 | 8 | 7600 | 2064 048 |
| 163 | 180 | 40 | 8 | 7600 | 2064 049 |
| 163 | 180 | 50 | 8 | 7600 | 2064 050 |
| 163 | 230 | 40 | 8 | 7600 | 2064 051 |
| 163 | 230 | 50 | 8 | 7600 | 2064 052 |

Esecuzione foro d = 60 a richiesta

Execution with bore d = 60 by request



RICAMBI

COLTELLI SAGOMATI

ID nr.

9502



Caratteristiche

Corpo utensile escluso coltelli.

Testa in acciaio portacoltelli in HSS rigati con spessore 8mm, dotata del sistema di bloccaggio su albero, del tipo HIDRO.

La rigatura dei coltelli e della sede in cui alloggiavano danno sicurezza e precisione.

La testa viene fornita senza coltelli i quali vengono profilati su richiesta, vedi tabella.

Characteristics

The tool is supplied without knives.

Cutterhead in steel with knives in HSS with thickness 8mm and equipped with HIDRO system.

The ruled of knives and of seat gives security and precision.

The cutterhead is supplied without knives that will sharpened on request, see the schedule.

2073

Teste PowerLock portacoltelli sagomati in acciaio per macchine Weing.
PowerLock cutterheads with shaped steel knives for Weing machine.
 Têtes PowerLock avec couteaux profilés en acier pour machine Weing.
Profil-Köpfe PowerLock mit Messer zu Stahl für Weing machine.
 Cabezales PowerLock con cuchillas perfiladas en acero para máquina Weing.

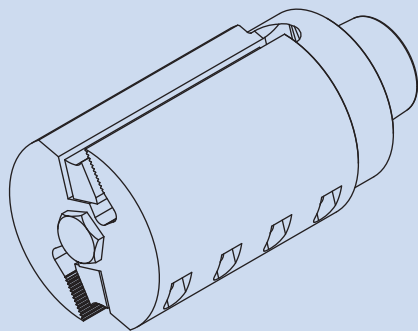


Caratteristiche

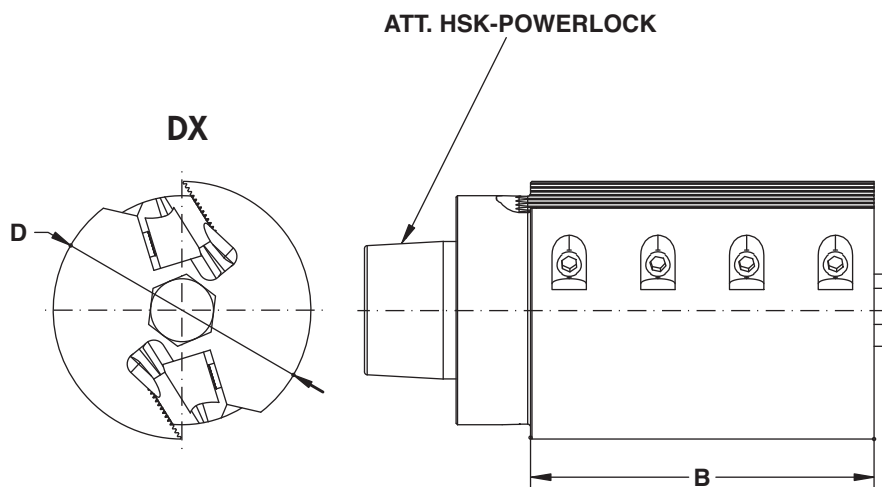
Corpo utensile escluso coltelli.
 Testa in acciaio portacoltelli in HSS rigati con spessore 8mm.
 La rigatura dei coltelli e della sede in cui alloggiavano danno sicurezza e precisione.
 La testa viene fornita senza coltelli i quali vengono profilati su richiesta, vedi tabella.

Characteristics

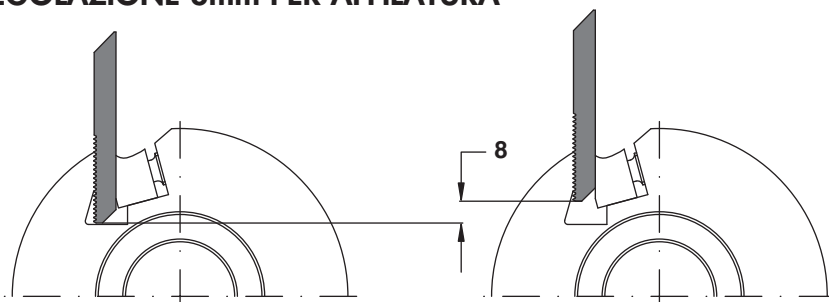
The tool is supplied without knives.
 Cutterhead in steel with in HSS knives with thickness 8mm.
 The ruled of knives and of seat gives security and precision.
 The cutterhead is supplied without knives that will sharpened on request, see list.



| D | B | Att. | Z | rpm | ID nr. DX | ID nr. SX |
|----|-----|---------------|---|------|-----------|-----------|
| 90 | 40 | HSK-PowerLock | 2 | 1200 | 2073001 | 2073002 |
| 90 | 60 | HSK-PowerLock | 2 | 1200 | 2073003 | 2073004 |
| 90 | 80 | HSK-PowerLock | 2 | 1200 | 2073005 | 2073006 |
| 90 | 100 | HSK-PowerLock | 2 | 1200 | 2073007 | 2073008 |
| 90 | 130 | HSK-PowerLock | 2 | 1200 | 2073009 | 2073010 |
| 90 | 150 | HSK-PowerLock | 2 | 1200 | 2073011 | 2073012 |
| 90 | 170 | HSK-PowerLock | 2 | 1200 | 2073017 | 2073018 |
| 90 | 180 | HSK-PowerLock | 2 | 1200 | 2073013 | 2073014 |
| 90 | 190 | HSK-PowerLock | 2 | 1200 | 2073019 | 2073020 |
| 90 | 210 | HSK-PowerLock | 2 | 1200 | 2073021 | 2073022 |
| 90 | 230 | HSK-PowerLock | 2 | 1200 | 2073015 | 2073016 |
| 90 | 40 | HSK-PowerLock | 3 | 1200 | 2073051 | 2073052 |
| 90 | 60 | HSK-PowerLock | 3 | 1200 | 2073053 | 2073054 |
| 90 | 80 | HSK-PowerLock | 3 | 1200 | 2073055 | 2073056 |
| 90 | 100 | HSK-PowerLock | 3 | 1200 | 2073057 | 2073058 |
| 90 | 130 | HSK-PowerLock | 3 | 1200 | 2073059 | 2073060 |
| 90 | 150 | HSK-PowerLock | 3 | 1200 | 2073061 | 2073062 |
| 90 | 170 | HSK-PowerLock | 3 | 1200 | 2073063 | 2073064 |
| 90 | 180 | HSK-PowerLock | 3 | 1200 | 2073065 | 2073066 |
| 90 | 190 | HSK-PowerLock | 3 | 1200 | 2073067 | 2073068 |
| 90 | 210 | HSK-PowerLock | 3 | 1200 | 2073069 | 2073070 |
| 90 | 230 | HSK-PowerLock | 3 | 1200 | 2073071 | 2073072 |

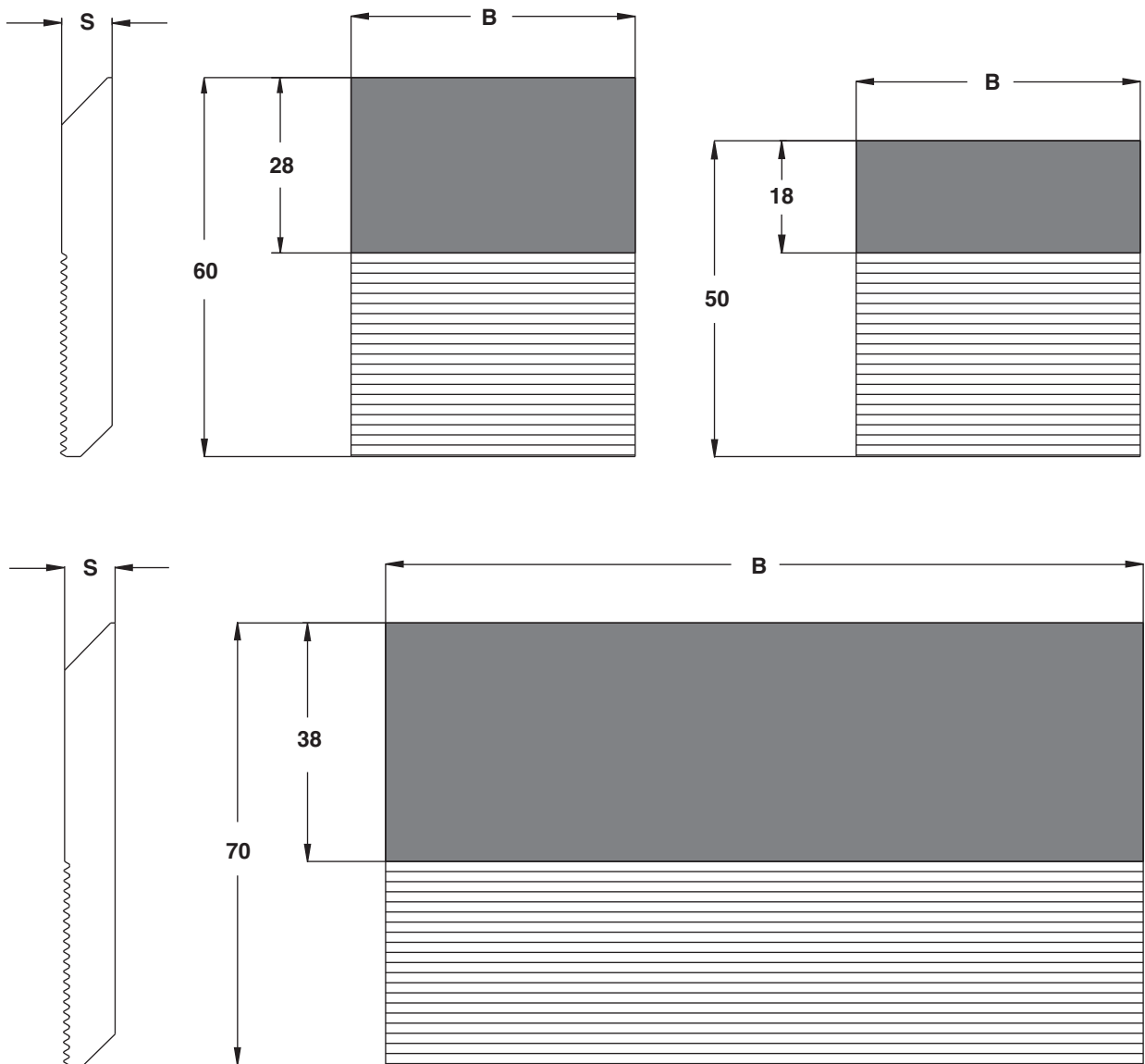


REGOLAZIONE 8mm PER AFFILATURA



RICAMBI

| COLTELLI SAGOMATI | |
|-------------------|------|
| ID nr. | 9502 |



RICAMBI

COLTELLI IN HSS

| BxHxS | DA SAGOMARE | SAGOMATI | BxHxS | DA SAGOMARE | SAGOMATI | BxHxS | DA SAGOMARE | SAGOMATI |
|---------|-----------------|-----------------|----------|-----------------|-----------------|----------|-----------------|-----------------|
| | ID nr. | ID nr. | | ID nr. | ID nr. | | ID nr. | ID nr. |
| 40x50x8 | 9502 001 | 9502 301 | 80x50x8 | 9502 004 | 9502 304 | 150x50x8 | 9502 007 | 9502 307 |
| 40x60x8 | 9502 011 | 9502 310 | 80x60x8 | 9502 014 | 9502 313 | 150x60x8 | 9502 017 | 9502 316 |
| 40x70x8 | 9502 021 | 9502 319 | 80x70x8 | 9502 024 | 9502 322 | 150x70x8 | 9502 027 | 9502 325 |
| 50x50x8 | 9502 002 | 9502 302 | 100x50x8 | 9502 005 | 9502 305 | 180x50x8 | 9502 008 | 9502 308 |
| 50x60x8 | 9502 012 | 9502 311 | 100x60x8 | 9502 015 | 9502 314 | 180x60x8 | 9502 018 | 9502 317 |
| 50x70x8 | 9502 022 | 9502 320 | 100x70x8 | 9502 025 | 9502 323 | 180x70x8 | 9502 028 | 9502 326 |
| 60x50x8 | 9502 003 | 9502 303 | 130x50x8 | 9502 006 | 9502 306 | 230x50x8 | 9502 009 | 9502 309 |
| 60x60x8 | 9502 013 | 9502 312 | 130x60x8 | 9502 016 | 9502 315 | 230x60x8 | 9502 019 | 9502 318 |
| 60x70x8 | 9502 023 | 9502 321 | 130x70x8 | 9502 026 | 9502 324 | 230x70x8 | 9502 029 | 9502 327 |

LARDONI

| Dimensioni | ID nr. | Dimensioni | ID nr. | Dimensioni | ID nr. |
|------------|-----------------|------------|-----------------|------------|-----------------|
| 40 | 2020 501 | 80 | 2020 504 | 150 | 2020 507 |
| 50 | 2020 502 | 100 | 2020 505 | 180 | 2020 508 |
| 60 | 2020 503 | 130 | 2020 506 | 230 | 2020 509 |

VITI

| Dimensioni | ID nr. |
|------------|-----------------|
| M10x25 | 9546 023 |

2078



Testa elicoidale PowerLock multitaglienti con coltelli 15x15x2,5 per spianare in acciaio.
Spiral Powerlock staggered tooth planer cutterhead in steel with knives 15x15x2,5.
 Tête Powerlock multidentés hélicoïdal pour raboter en acier avec couteaux 15x15x2,5
Fräser PowerLock multischneiden schraubenförmig zu Stahl mit Messern 15x15x2,5
 Cabezal PowerLock en acero helicoidales multifilo cortante para alisar con cuchillas 15x15x2.5.

| D | B | Att. | Z | n° coltelli | rpm | ID nr. |
|-----|-----|---------------|---|-------------|------|-----------------|
| 100 | 170 | HSK-PowerLock | 4 | 36 | 1200 | 2078 001 |
| 100 | 190 | HSK-PowerLock | 4 | 40 | 1200 | 2078 002 |
| 100 | 210 | HSK-PowerLock | 4 | 44 | 1200 | 2078 003 |
| 100 | 230 | HSK-PowerLock | 4 | 48 | 1200 | 2078 004 |

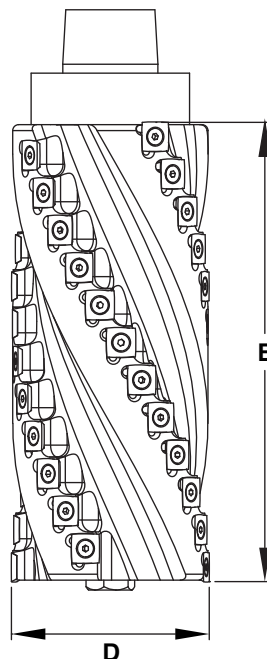
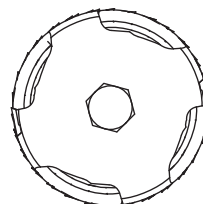
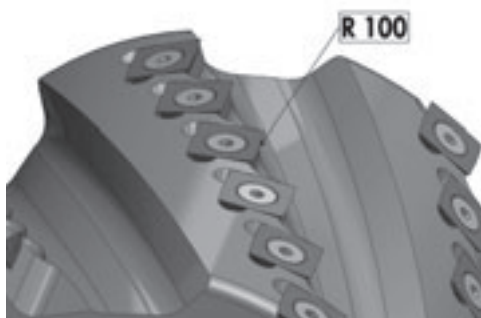


Caratteristiche

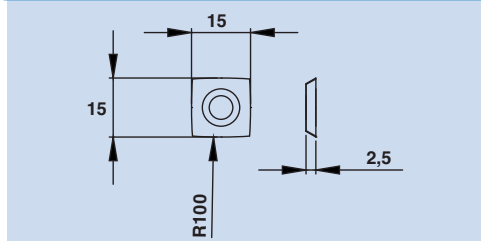
Testa portacoltelli per sistema Powerlock per grandi asportazioni ad elevata silenziosità. Si ottengono superfici con buona finitura. Basso costo di esercizio in quanto i coltelli sono reversibili "4 posizioni" e si sostituiscono di volta in volta solamente quelli usurati.

Characteristics

Cutterhead for PowerLock system for great wood removal and high silence, good surface finishing. Low cost of productions because the knives are reversibles "in 4 positions" and it is possible to change just the damage ones.



RICAMBI



| | COLTELLI | VITI |
|------------|-----------------|-----------------|
| Dimensioni | 15x15x2,5 | M5x14 |
| ID nr. | 9508 011 | 9546 027 |

Testa portacoltelli per canali sottili regolabile con anelli.

Grooving cutterhead adjustable by rings.

Tête porte-couteaux à rainier réglable par anneaux.

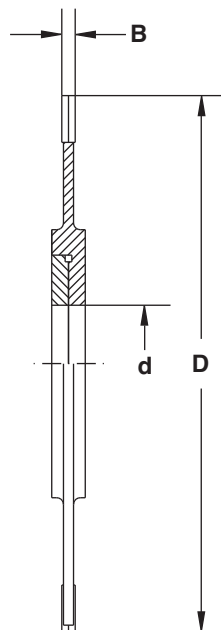
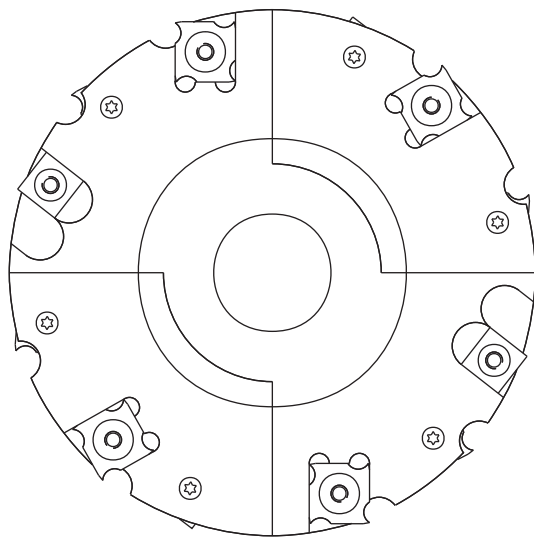
Wendeplatten-Verstellnüter.

Cabezal para pequeñas ranuras regulables por medio de anillos.

2021

| D | B | P/max | d | Z | rpm | ID nr. |
|-----|-------|-------|----|-----|-------|-----------------|
| 120 | 4÷7,5 | 25 | 30 | 8+4 | 10500 | 2021 002 |
| 120 | 4÷7,5 | 25 | 35 | 8+4 | 10500 | 2021 004 |
| 160 | 4÷7,5 | 30 | 35 | 8+4 | 8000 | 2021 005 |
| 160 | 4÷7,5 | 30 | 40 | 8+4 | 8000 | 2021 006 |
| 200 | 4÷7,5 | 40 | 35 | 8+4 | 6000 | 2021 003 |
| 200 | 4÷7,5 | 40 | 40 | 8+4 | 6000 | 2021 007 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request



MAN



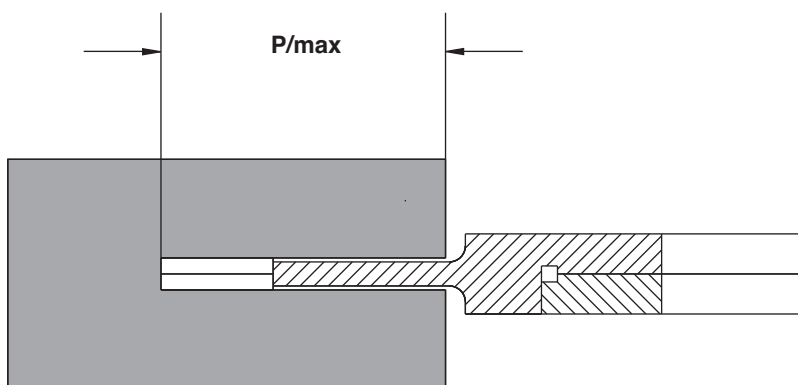
Caratteristiche

Testa portacoltelli regolabile per canali con coltellini reversibili completa di distanziali.

Characteristics

Grooving cutterhead adjustable with reversible knives and complete of spacers.

ESEMPIO DI LAVORAZIONE



RICAMBI

| | ROSETTE | RASANTI |
|------------|-----------------|-----------------|
| Dimensioni | 18x18x1,95 | 14x14x1,2 |
| ID nr. | 9509 001 | 9508 001 |

| | PER ROSETTE | | PER RASANTI | |
|------------|-----------------|-----------------|-----------------|-----------------|
| | VITI | CONTROVITI | VITI | CONTROVITI |
| Dimensioni | M4x3 | M4 Ø11,6 | M5x6 | M4 Ø10,2 |
| ID nr. | 9546 008 | 9547 002 | 9546 004 | 9547 001 |

2022

Teste portacoltelli per canali regolabili mediante anelli.

Grooving cutterheads adjustable by rings.

Têtes porte-couteaux à rainier réglable par anneaux.

Wendepplatten-Verstellnuten.

Cabezales para ranuras regulables por medio de anillos.



Caratteristiche

Testa portacoltelli regolabile per canali con coltellini reversibili completa di distanziali.

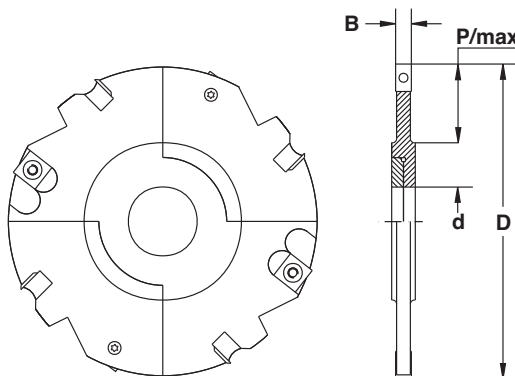
Characteristics

Grooving cutterhead adjustable with reversible knives and complete of spacers.

| D | B | P/max | d | Z | rpm | ID nr. |
|-----|---------|-------|----|-----|-------|-----------------|
| 120 | 8÷15,5 | 25 | 30 | 4+4 | 10500 | 2022 016 |
| 160 | 8÷15,5 | 35 | 35 | 4+4 | 8000 | 2022 006 |
| 160 | 8÷15,5 | 35 | 40 | 4+4 | 8000 | 2022 007 |
| 160 | 12,5÷24 | 35 | 35 | 4+4 | 8000 | 2022 008 |
| 160 | 12,5÷24 | 35 | 40 | 4+4 | 8000 | 2022 009 |
| 160 | 15,5÷30 | 35 | 35 | 4+4 | 8000 | 2022 010 |
| 160 | 15,5÷30 | 35 | 40 | 4+4 | 8000 | 2022 011 |
| 160 | 20,5÷40 | 35 | 35 | 4+4 | 8000 | 2022 012 |
| 160 | 20,5÷40 | 35 | 40 | 4+4 | 8000 | 2022 013 |
| 160 | 30,5÷60 | 35 | 35 | 4+4 | 8000 | 2022 014 |
| 160 | 30,5÷60 | 35 | 40 | 4+4 | 8000 | 2022 015 |
| 200 | 8÷15,5 | 40 | 35 | 4+4 | 6000 | 2022 017 |
| 200 | 8÷15,5 | 40 | 40 | 4+4 | 6000 | 2022 018 |
| 200 | 12,5÷24 | 40 | 35 | 4+4 | 6000 | 2022 019 |
| 200 | 12,5÷24 | 40 | 40 | 4+4 | 6000 | 2022 020 |
| 200 | 15,5÷30 | 40 | 35 | 4+4 | 6000 | 2022 021 |
| 200 | 15,5÷30 | 40 | 40 | 4+4 | 6000 | 2022 022 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



RICAMBI

| PER ART. 2022006/007/016/017/018 | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 7,65x12x1,5 | 6,5x12x7,5 | M5x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 001 | 9545 001 | 9546 015 | 9508 002 | 9546 005 |

| PER ART. 2022008/009/019/020 | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 12x12x1,5 | 10x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 003 | 9545 003 | 9546 018 | 9508 002 | 9546 005 |

| PER ART. 2022010/011/021/022 | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 15x12x1,5 | 13x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 004 | 9545 004 | 9546 018 | 9508 002 | 9546 005 |

| PER ART. 2022012/013 | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 20x12x1,5 | 18x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 005 | 9545 005 | 9546 018 | 9508 002 | 9546 005 |

| PER ART. 2022014/015 | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 | 9508 002 | 9546 005 |

Teste portacoltelli per incastri sottili, per macchine tipo lamello.

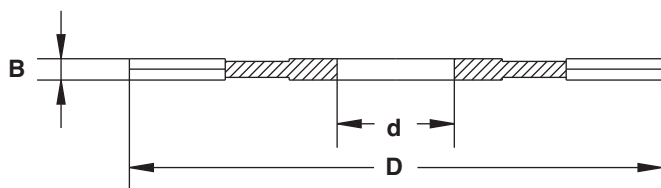
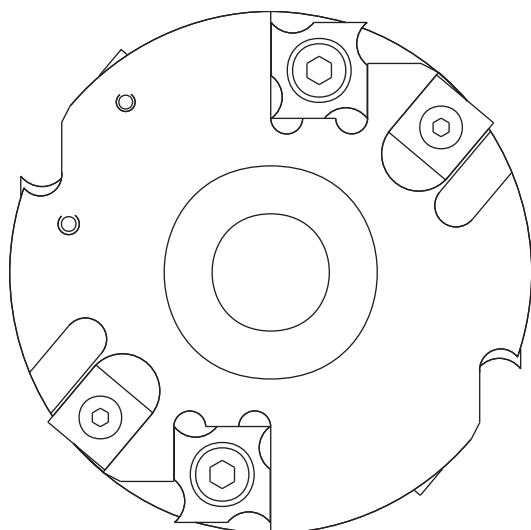
Thin-groove cutterheads for lamello machine and similar.

Têtes porte-couteaux pour rainures minces pour machine lamello et similaires.

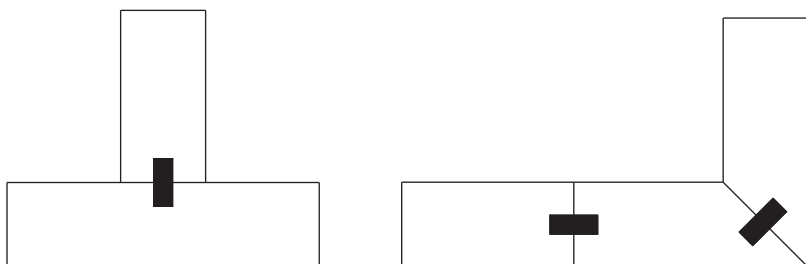
Nut-Messerköpfe für Lamellen, Verwendbar für Lamello-Verbindungsplättchen.

Cabezas para machihembrados finos que utilizan las máquinas del tipo lamello.

| D | B | d | Z | rpm | ID nr. |
|-----|------|----|-----|-------|---------|
| 100 | 3,95 | 22 | 4+4 | 13000 | 2024001 |
| | | | | | |



ESEMPIO DI LAVORAZIONE



RICAMBI

| | ROSETTE | RASANTI |
|------------|------------|-----------|
| Dimensioni | 18x18x1,95 | 14x14x1,2 |
| ID nr. | 9509001 | 9508001 |

| | PER ROSETTE | | PER RASANTI |
|------------|-------------|------------|-------------|
| | VITI | CONTROVITI | CONTROVITI |
| Dimensioni | M4x3 | M4 Ø11,6 | M4 Ø10,2 |
| ID nr. | 9546008 | 9547002 | 9547001 |

2024



MAN



Caratteristiche

Testa portacoltelli reversibili per esecuzione di incastri su macchine portatili.
Lamello Standard e Lamello Top.

Characteristics

Cutterhead with reversible knives for thin groove on Lamello Standards and Lamello Top machines.

2025

Teste portacoltelli inclinate a 45°.
Cutterheads bended at 45°.
 Têtes porte-couteaux inclinées à 45°.
Messerkopf geneigen 45°.
 Cabezales con cuchillas inclinadas a 45°.



| D | B | d | Z | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|---|------|-----------------|-----------------|
| 140 | 30 | 35 | 4 | 9000 | 2025 051 | 2025 052 |
| 140 | 30 | 40 | 4 | 9000 | 2025 053 | 2025 054 |
| 160 | 50 | 35 | 4 | 8000 | 2025 055 | 2025 056 |
| 160 | 50 | 40 | 4 | 8000 | 2025 057 | 2025 058 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request

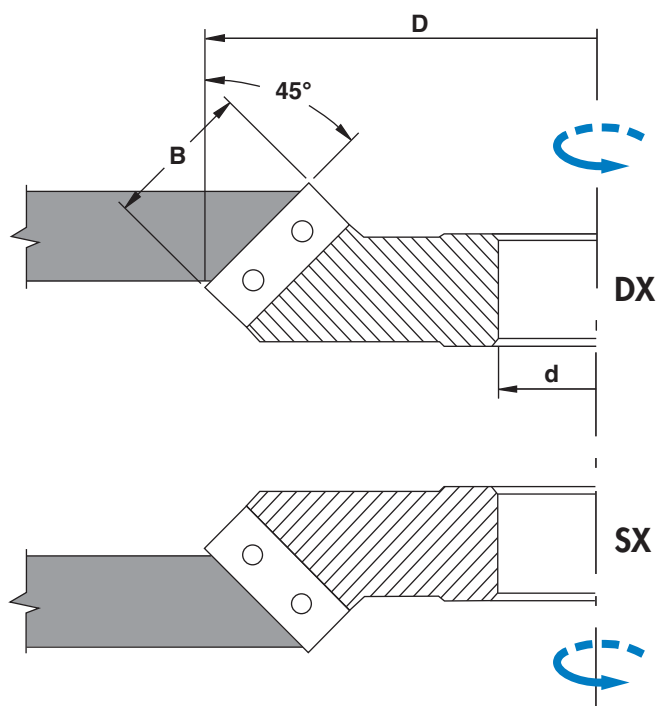


Caratteristiche

Testa portacoltelli prismatica con coltelli reversibili per taglio pannelli.

Characteristics

Prismatic cutterhead with reversible knives for cut panels.



RICAMBI

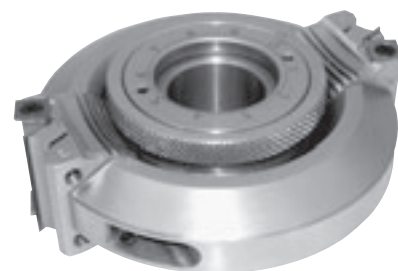
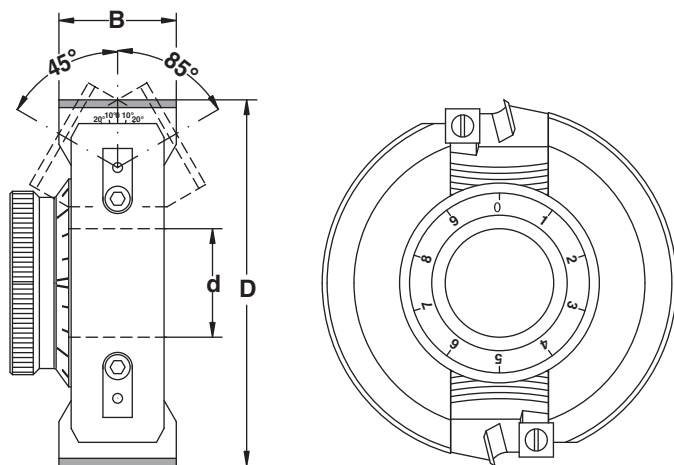
| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x12x1,5 | 28x12x7,5 | M8x20 |
| ID nr. | 9503 006 | 9545 006 | 9546 021 |

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x12x1,5 | 48x12x7,5 | M8x20 |
| ID nr. | 9503 008 | 9545 008 | 9546 021 |

Teste per battute e smussi, regolabile da -45° a $+85^\circ$.
Adjustable chamfering heads between -45° and $+85^\circ$.
 Têtes porte-couteaux à chanfreiner réglable de -45° à $+85^\circ$.
Verstellbare Wendeplatten verstellbereich von -45° zu $+85^\circ$.
 Cabezales para cortes rectos e inclinados regulables de -45° a $+85^\circ$.

2026

| D | B | d | Z | rpm | ID nr. |
|-----|----|----|-----|------|-----------------|
| 165 | 50 | 35 | 2+4 | 8000 | 2026 001 |
| 165 | 50 | 40 | 2+4 | 8000 | 2026 002 |



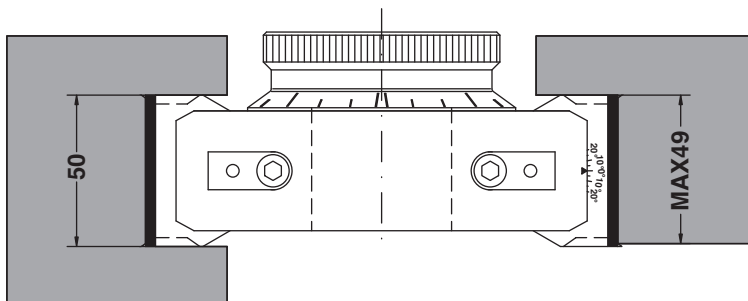
Caratteristiche

Testa portacoltelli per eseguire battute e smussi con regolazione continua degli angoli.

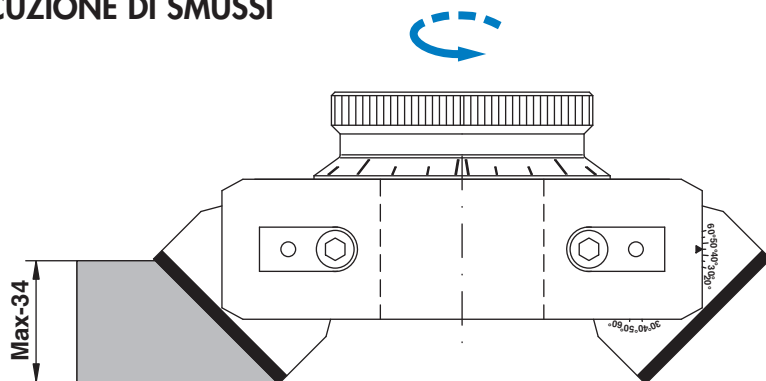
Characteristics

Adjustable chamfering cutterhead with continuous regulation of angles.

ESECUZIONE DI BATTUTE



ESECUZIONE DI SMUSSI



RICAMBI

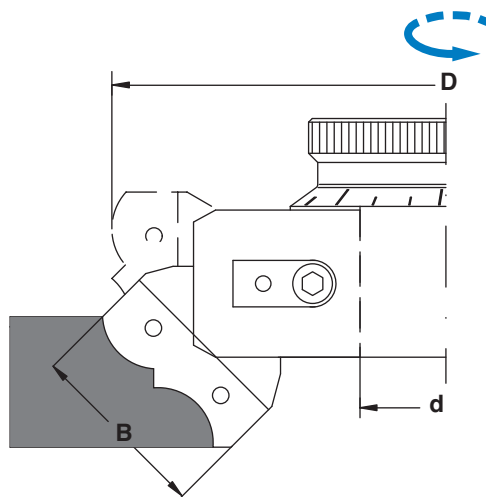
| | COLTELLI | LARDONI | OGIVA | VITI | RASANTI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 50x12x1,5 | 48x12x7,5 | M8 Ø12 | M8x22 | 14x14x2 | M5x8 |
| ID nr. | 9503 008 | 9545 026 | 9547 009 | 9546 011 | 9508 002 | 9546 005 |

2065



Teste per eseguire profili inclinati, regolabile da -60° a $+60^\circ$.
Adjustable chamfering heads for bended profiles between -60° and $+60^\circ$.
 Têtes porte-couteaux pour profils inclinés à chanfreiner réglable de -60° à $+60^\circ$.
Verstellbare Wendeplatten für geneigten Profil verstellbereich von -60° zu $+60^\circ$.
 Cabezales regulable para cortes inclinados de -60° a $+60^\circ$.

| D | B | d | Z | rpm | ID nr. |
|-----|----|----|-----|------|-----------------|
| 165 | 50 | 35 | 2+4 | 8000 | 2065 001 |
| 165 | 50 | 40 | 2+4 | 8000 | 2065 002 |



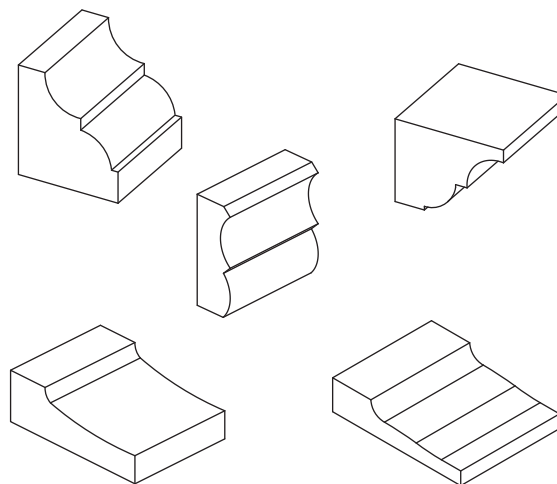
Caratteristiche

Testa portacoltelli sagomati per eseguire profili con regolazione continua degli angoli. L'utensile viene fornito completo dei 3 profili.

Characteristics

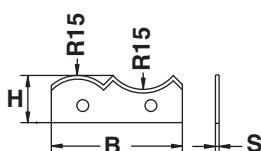
Cutterhead with shaped knives to realize profiles by its adjustable corners. This tool is supplied with 3 profiles.

ESEMPI DI PROFILI

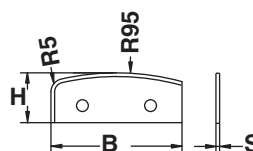


RICAMBI

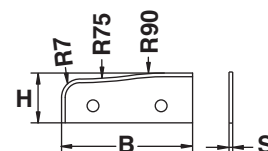
TIPO - A



TIPO - B



TIPO - C



COLTELLI SAGOMATI

| TIPO | A | B | C |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x18x2 | 50x19x2 | 50x19x2 |
| ID nr. | 9558 001 | 9558 002 | 9558 003 |

LARDONI

OGIVA

VITI

RASANTI

VITI

| | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 48x12x7,5 | M8 Ø12 | M8x22 | 14x14x2 | M5x8 |
| ID nr. | 9545 026 | 9547 009 | 9546 011 | 9508 002 | 9546 005 |

Gruppi di teste portacoltelli per parchetti e perline.
Adjustable tongue and grooving cutterheads.
 Groupes de têtes porte-couteaux pour parquets.
Verstellbare wendeplatten-nut und Federköpf.
 Juego de cabezales para machihembrados.

2027

| D | B | d | Z | RAS. | INS. | SPIG. | TIPO | ID nr. |
|-----|----|----|---|------|------|-------|------|-----------------|
| 140 | 15 | 50 | 4 | 2 | - | - | 1 | 2027 001 |
| 140 | 15 | 50 | 4 | 2 | - | - | 2 | 2027 002 |
| 127 | 12 | 50 | 2 | - | - | 2 | 3 | 2027 003 |
| 140 | 20 | 50 | 4 | - | 2 | - | 4 | 2027 004 |
| 140 | 20 | 50 | 4 | - | 2 | - | 5 | 2027 005 |
| 139 | 15 | 50 | 4 | 2 | - | - | 6 | 2027 006 |
| 175 | 15 | 50 | 4 | 2 | - | - | 7 | 2027 007 |
| 156 | 20 | 50 | 4 | - | 2 | - | 8 | 2027 008 |
| 160 | 15 | 50 | 4 | 2 | - | - | 9 | 2027 009 |
| 148 | 20 | 50 | 4 | - | 2 | - | 10 | 2027 010 |
| 131 | 20 | 50 | 4 | - | 2 | - | 11 | 2027 011 |
| 149 | 15 | 50 | 4 | 2 | - | - | 12 | 2027 012 |
| 149 | 20 | 50 | 4 | - | 2 | - | 13 | 2027 013 |
| 154 | 12 | 50 | 2 | - | - | - | 14 | 2027 014 |
| 154 | 12 | 50 | 2 | - | - | - | 15 | 2027 015 |

N.B.: Se si desidera il gruppo completo al momento dell'ordine è sufficiente indicare il profilo desiderato e il diametro del foro.
 ATTENTION: For the complete group it is necessary to specify profil and bearing requested.

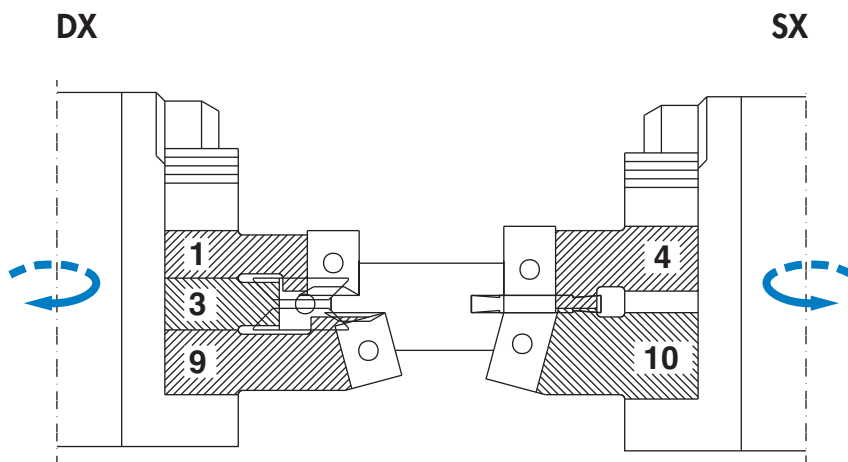


Caratteristiche

Gruppi di teste portacoltelli reversibili e regolabili con anelli per sagomatura di parchetti e perline.
 Adatti per lavorazioni su scorniciatrici, intercambiabili tra loro.

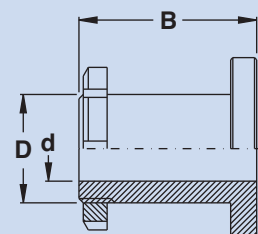
Characteristics

Cutterheads adjustable with rings for shape floor and wall panelline.
 Interchangeable among them, suitable for working on matching machines.

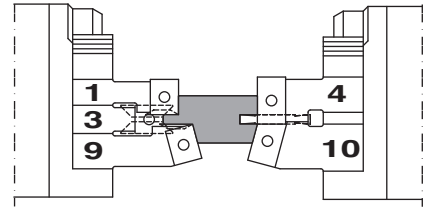
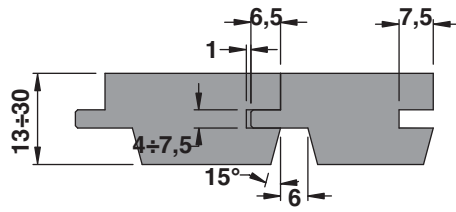


MOZZO PORTA TESTE

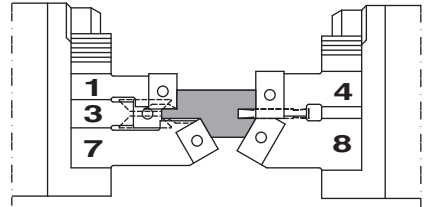
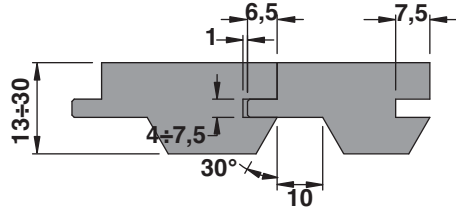
| D | d | B | ID nr. DX | ID nr. SX |
|----|----|----|-----------------|-----------------|
| 50 | 30 | 82 | 2027 051 | 2027 052 |
| 50 | 35 | 82 | 2027 053 | 2027 054 |
| 50 | 40 | 82 | 2027 055 | 2027 056 |
| | | | | |
| | | | | |



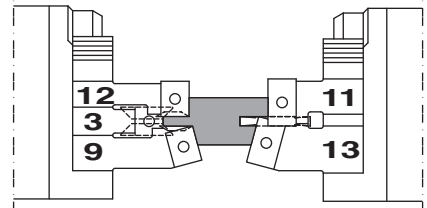
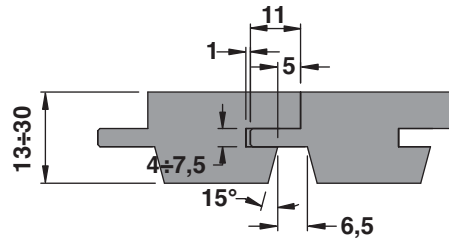
SAGOMA - A



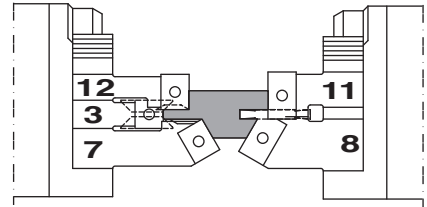
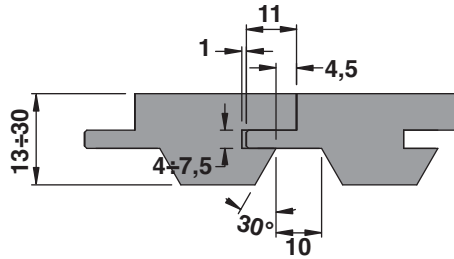
SAGOMA - B



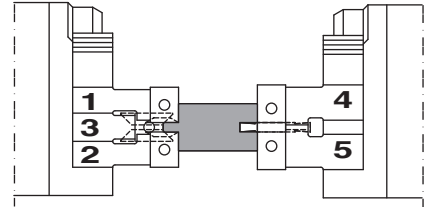
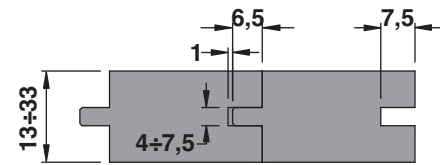
SAGOMA - C



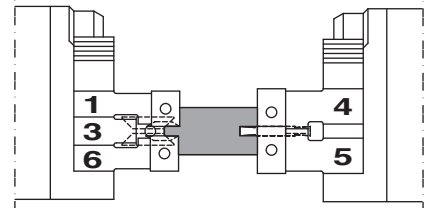
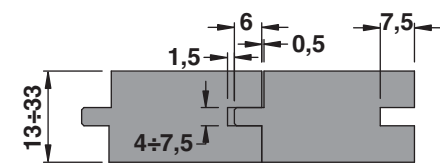
SAGOMA - D



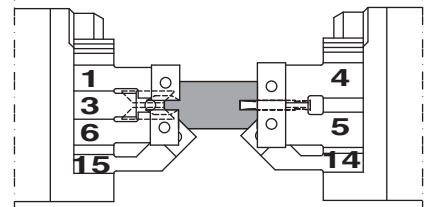
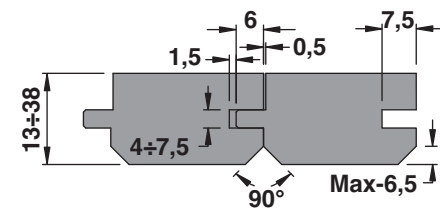
SAGOMA - E



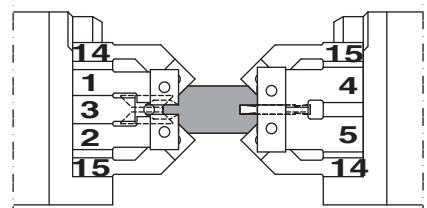
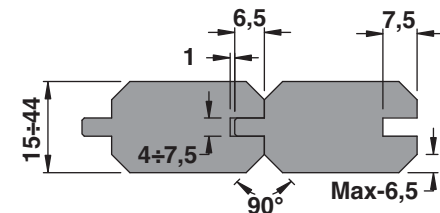
SAGOMA - F



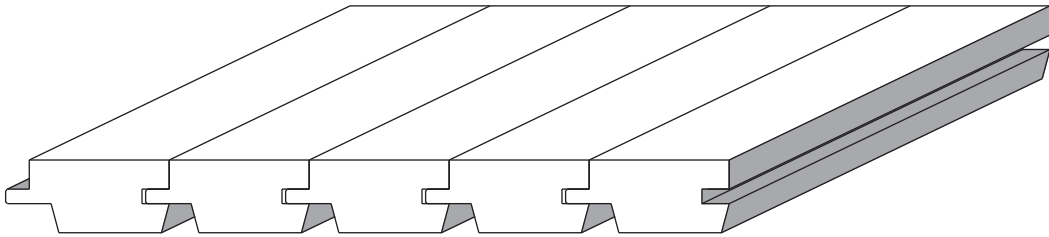
SAGOMA - G



SAGOMA - H



ESEMPIO DI MONTAGGIO



RICAMBI

PER ART. 2027001/002/006/007/009/012

| | COLTELLI | LARDONI | VITI | OGIVA | RASANTI |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 15x12x1,5 | 13x12x7,5 | M5x16 | M5 Ø8 | 14x14x2 |
| ID nr. | 9503 004 | 9545 022 | 9546 010 | 9547 008 | 9508 002 |
| | VITI | INSERTI | VITI | LEVASPIGOLI | VITI |
| Dimensioni | M5x8 | - | - | - | - |
| ID nr. | 9546 005 | - | - | - | - |

PER ART. 2027003/14/15

| | COLTELLI | LARDONI | VITI | OGIVA | RASANTI |
|------------------|-----------------|-----------------|-----------------|-----------------|---------|
| Dimensioni BxHxS | 12x12x1,5 | 10x12x7,5 | M5x16 | M5 Ø8 | - |
| ID nr. | 9503 003 | 9545 021 | 9546 010 | 9547 008 | - |
| | VITI | INSERTI | VITI | LEVASPIGOLI | VITI |
| Dimensioni | - | - | - | - | - |
| ID nr. | - | - | - | - | - |

PER ART. 2027004/005/008/010/011/013

| | COLTELLI | LARDONI | VITI | OGIVA | RASANTI |
|------------------|-----------------|-----------------|-----------------|-----------------|---------|
| Dimensioni BxHxS | 20x12x1,5 | 18x12x7,5 | M8x22 | M8 Ø12 | - |
| ID nr. | 9503 005 | 9545 023 | 9546 011 | 9547 009 | - |
| | VITI | INSERTI | VITI | LEVASPIGOLI | VITI |
| Dimensioni | - | 16x29x4 | M5x10 | - | - |
| ID nr. | - | 9512 001 | 9546 003 | - | - |

2028



Caratteristiche

Testa per eseguire giunzioni su qualsiasi tipo di legno.

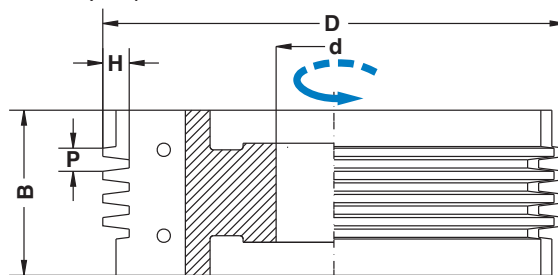
Characteristics

Cutterhead for joints suitable on any kind of wood.

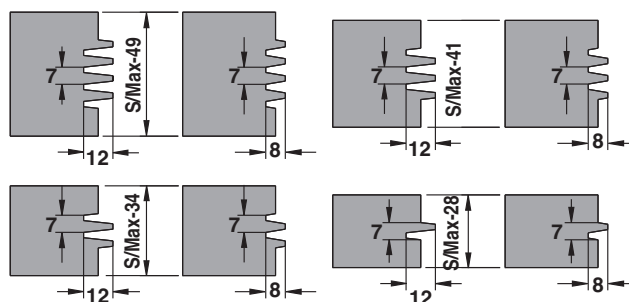
Teste portacoltelli per giunzioni Z3.
Cutterheads for joints Z3.
 Têtes porte-couteaux façonnée pour jonctions Z3.
Wendenplatten - Verleimmesser Köpfe Z3.
 Cabezales para ensambles Z3.

| D | B | d | S/max | P | H | n°incastrì | rpm | ID nr. |
|-----|----|----|-------|---|----|------------|-------|-----------------|
| 140 | 30 | 35 | 28 | 7 | 8 | 1 | 10500 | 2028 001 |
| 140 | 30 | 35 | 28 | 7 | 12 | 1 | 10500 | 2028 002 |
| 140 | 35 | 35 | 34 | 7 | 8 | 2 | 9800 | 2028 003 |
| 140 | 35 | 35 | 34 | 7 | 12 | 2 | 9800 | 2028 004 |
| 140 | 42 | 35 | 41 | 7 | 8 | 3 | 9400 | 2028 005 |
| 140 | 42 | 35 | 41 | 7 | 12 | 3 | 9400 | 2028 006 |
| 140 | 50 | 35 | 49 | 7 | 8 | 4 | 9400 | 2028 007 |
| 140 | 50 | 35 | 49 | 7 | 12 | 4 | 9400 | 2028 008 |
| 140 | 30 | 40 | 28 | 7 | 8 | 1 | 10500 | 2028 011 |
| 140 | 30 | 40 | 28 | 7 | 12 | 1 | 10500 | 2028 012 |
| 140 | 35 | 40 | 34 | 7 | 8 | 2 | 9800 | 2028 013 |
| 140 | 35 | 40 | 34 | 7 | 12 | 2 | 9800 | 2028 014 |
| 140 | 42 | 40 | 41 | 7 | 8 | 3 | 9400 | 2028 015 |
| 140 | 42 | 40 | 41 | 7 | 12 | 3 | 9400 | 2028 016 |
| 140 | 50 | 40 | 49 | 7 | 8 | 4 | 9400 | 2028 017 |
| 140 | 50 | 40 | 49 | 7 | 12 | 4 | 9400 | 2028 018 |

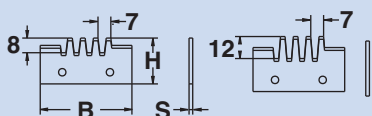
Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



PROFILI ESEGUIBILI



RICAMBI



| n°incastrì = 1 | COLTELLI H=8 | COLTELLI H=12 | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x25x2 | 30x30x2 | 28x12x7,5 | M6x16 |
| ID nr. | 9527 001 | 9527 002 | 9545 006 | 9546 018 |

| n°incastrì = 2 | COLTELLI H=8 | COLTELLI H=12 | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x25x2 | 35x30x2 | 28x12x7,5 | M6x16 |
| ID nr. | 9527 003 | 9527 004 | 9545 006 | 9546 018 |

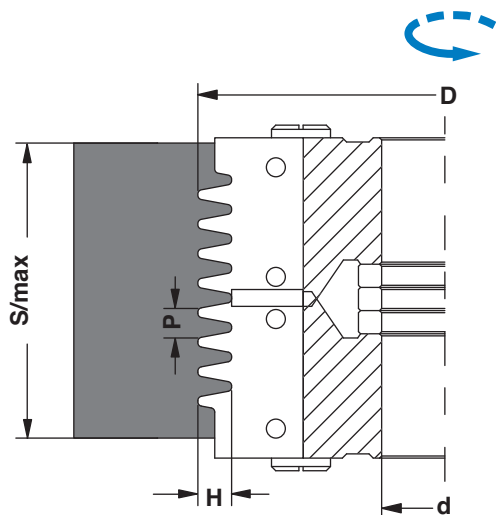
| n°incastrì = 3 | COLTELLI H=8 | COLTELLI H=12 | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 42x25x2 | 42x28x2 | 38x12x7,5 | M6x16 |
| ID nr. | 9527 005 | 9527 006 | 9545 007 | 9546 018 |

| n°incastrì = 4 | COLTELLI H=8 | COLTELLI H=12 | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x25x2 | 50x30x2 | 48x12x7,5 | M6x16 |
| ID nr. | 9527 007 | 9527 008 | 9545 008 | 9546 018 |

Testa per contornature e battute da montare su Toupie Z3+3.
Cutterhead for contours and rebates to fit on the Toupie Z3+3.
 Tête pour contours et feuillures pour l'appliquer à la Toupie Z3+3.
Kanterköpf zu montieren auf die Toupie Z3+3.
 Cabezal ajustables para ensambles Z3+3.

| D | d | S/max | P | H | n° Incastri | rpm | ID nr. |
|-----|----|-------|---|----|-------------|------|-----------------|
| 140 | 35 | 21÷35 | 7 | 8 | 2÷4 | 9000 | 2029 011 |
| 140 | 35 | 28÷49 | 7 | 8 | 3÷6 | 9000 | 2029 012 |
| 140 | 35 | 42÷70 | 7 | 8 | 4÷8 | 9000 | 2029 013 |
| 140 | 40 | 21÷35 | 7 | 8 | 2÷4 | 9000 | 2029 014 |
| 140 | 40 | 28÷49 | 7 | 8 | 3÷6 | 9000 | 2029 015 |
| 140 | 40 | 42÷70 | 7 | 8 | 4÷8 | 9000 | 2029 016 |
| | | | | | | | |
| 140 | 35 | 21÷35 | 7 | 12 | 2÷4 | 9000 | 2029 021 |
| 140 | 35 | 28÷49 | 7 | 12 | 3÷6 | 9000 | 2029 022 |
| 140 | 35 | 42÷70 | 7 | 12 | 4÷8 | 9000 | 2029 023 |
| 140 | 40 | 21÷35 | 7 | 12 | 2÷4 | 9000 | 2029 024 |
| 140 | 40 | 28÷49 | 7 | 12 | 3÷6 | 9000 | 2029 025 |
| 140 | 40 | 42÷70 | 7 | 12 | 4÷8 | 9000 | 2029 026 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request



2029



MEC



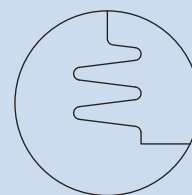
Caratteristiche

Testa portacoltelli regolabile per giunzioni adatta per tutti gli spessori di legno tra 21 e 70.

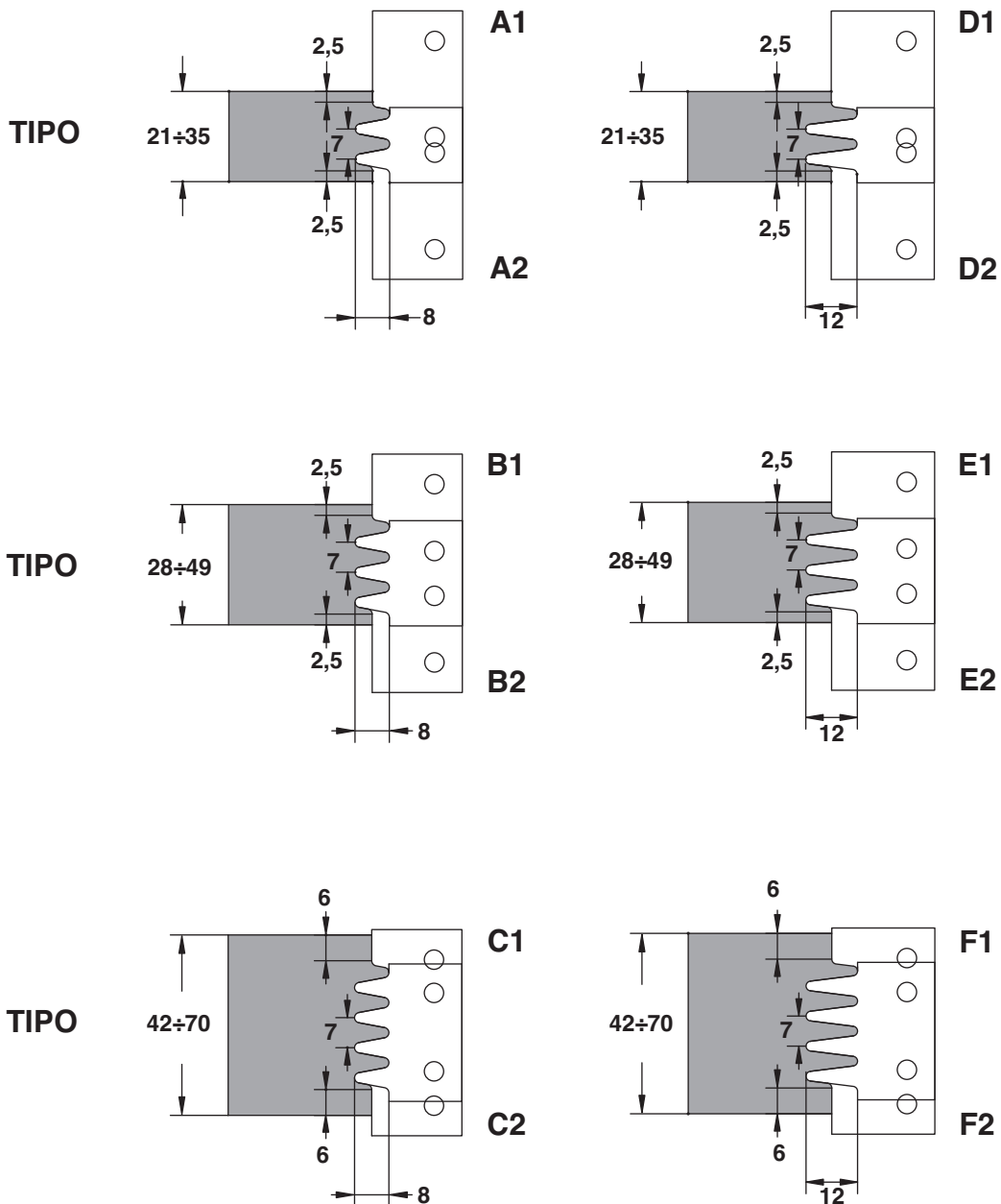
Characteristics

Adjustable cutterhead for joints suitable for thickness between 21 and 70.

ESECUZIONE STANDARD



ESEMPI DI LAVORAZIONE



RICAMBI

COLTELLI SAGOMATI H=8

| TIPO | A1 | A2 | B1 | B2 | C1 | C2 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x25x2 | 40x25x2 | 40x25x2 | 40x25x2 | 40x25x2 | 40x25x2 |
| ID nr. | 9528 011 | 9528 012 | 9528 013 | 9528 014 | 9528 015 | 9528 016 |

COLTELLI SAGOMATI H=8

| TIPO | D1 | D2 | E1 | E2 | F1 | F2 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x30x2 | 40x30x2 | 40x30x2 | 40x30x2 | 40x30x2 |
| ID nr. | 9528 021 | 9528 022 | 9528 023 | 9528 024 | 9528 025 | 9528 026 |

LARDONI

| | |
|------------|-----------------|
| Dimensioni | 38x12x7,5 |
| ID nr. | 9545 007 |

VITI

| | |
|------------|-----------------|
| Dimensioni | M6x16 |
| ID nr. | 9546 018 |

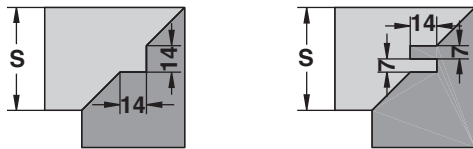
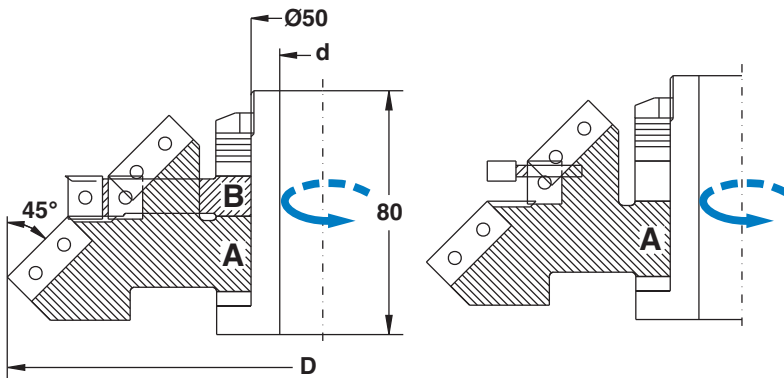
Gruppo di teste portacoltelli per giunzioni a 45°.
Set of cutterheads with disposable knives for joints 45° bevels.
 Groupes de têtes avec couteaux pour jonctions à 45°.
Wendeplatten-Gehrungsverleimprofil-Messerköpfe 45°.
 Juego de cabezales para ensambles inclinados a 45°.

2031

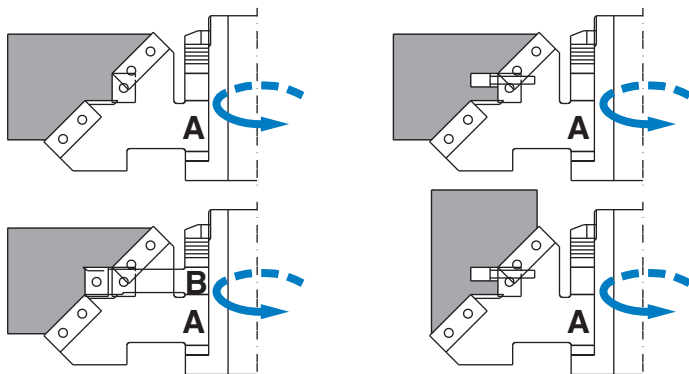
| D | S | d | d/max | rpm | ID nr. |
|-----|-------|----|-------|------|-----------------|
| 220 | 22÷54 | 30 | 50* | 4500 | 2031 001 |

| TIPO | D | B | Z |
|------|-------|----|-------|
| A | 220 | 70 | 2+2+2 |
| B | 177,6 | 15 | 2+2 |

*Esecuzione foro d = 50 senza mozzo
 *Execution with bore d = 50 without sleeve



ESEMPI DI LAVORAZIONE



RICAMBI

| | COLTELLI | LARDONI | VITI | OGIVA |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | M8x22 | M8Ø12 |
| ID nr. | 9503 006 | 9545 024 | 9546 011 | 9547 009 |

| | COLTELLI | LARDONI | VITI | OGIVA |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 15x12x1,5 | 13x12x7,5 | M5x16 | M5Ø8 |
| ID nr. | 9503 004 | 9545 022 | 9546 010 | 9547 008 |

| | INSERTI | VITI | RASANTI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 16x32,5x7 | M5x10 | 14x14x2 | M5x8 |
| ID nr. | 9513 059 | 9546 003 | 9508 002 | 9546 005 |

MEC



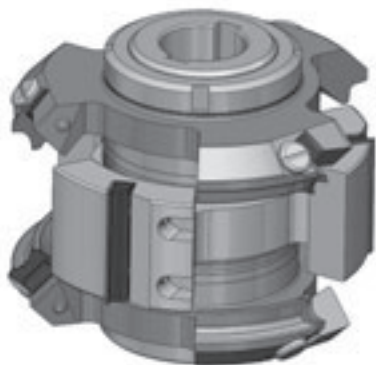
Caratteristiche

Gruppo di teste portacoltelli reversibili per eseguire giunzioni a 45° per uno spessore di legno compreso tra 22 e 54.
 Togliendo la testa B e mettendo l'inserto si possono ottenere due tipi di giunzione.
 Il gruppo viene fornito completo di mozzo.

Characteristics

Cutterhead for 45° bevel for wood thickness among 22 and 54.
 Taken off the cutter B and putting the insert it is possible to obtain two connections.
 The group is supplied with sleeve.

2032



Caratteristiche

Gruppo di teste portacoltelli regolabile con anelli, per arrotondare e smussare, montato su mozzo.

Cambiando solamente i coltelli sagomati si possono ottenere spigolature di diverse misure. Ad esempio $R = 2-3-4-5-6-45^\circ$.

Characteristics

Set of cutterhead adjustable with rings for rounding and bevelling, supplied with sleeve.

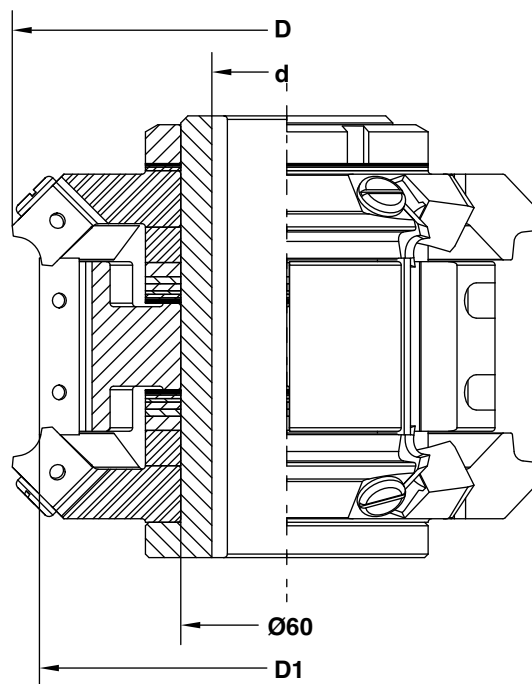
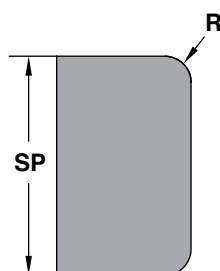
Changing only the shaped knives it is possible to obtain different measures.

For example $R = 2-3-4-5-6-45^\circ$.

Gruppo di teste portacoltelli a raggiare su mozzo.
Set of cutterhead with disposable knives for rounding.
 Groupes de têtes avec couteaux à jeter pour arrondir.
Wendeplatten-werkzeuggarnitur zum kanterfasen.
 Juego de cabezales para redondear.

| D | D1 | SP | R | Z | d+ch | rpm | ID nr. |
|-----|-----|-------|---|---|------|------|--------------------|
| 156 | 140 | 18÷53 | 2 | 3 | 35+2 | 9000 | 2032 011-02 |
| 156 | 140 | 18÷55 | 3 | 3 | | 9000 | 2032 011-03 |
| 156 | 140 | 18÷57 | 4 | 3 | | 9000 | 2032 011-04 |
| 156 | 140 | 18÷59 | 5 | 3 | | 9000 | 2032 011-05 |
| 156 | 140 | 18÷61 | 6 | 3 | | 9000 | 2032 011-06 |
| 156 | 140 | 18÷53 | 2 | 3 | | 40+2 | 9000 |
| 156 | 140 | 18÷55 | 3 | 3 | 9000 | | 2032 012-03 |
| 156 | 140 | 18÷57 | 4 | 3 | 9000 | | 2032 012-04 |
| 156 | 140 | 18÷59 | 5 | 3 | 9000 | | 2032 012-05 |
| 156 | 140 | 18÷61 | 6 | 3 | 9000 | | 2032 012-06 |

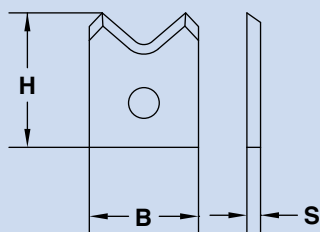
Esecuzione foro $d = 50$ a richiesta
 Execution with bore $d = 50$ by request



RICAMBI

| COLTELLI SAGOMATI | | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Raggio | 2 | 3 | 4 | 5 | 6 |
| Dimensioni | 16x20x2 | 16x20x2 | 16x20x2 | 16x20x2 | 16x20x2 |
| ID nr. | 9538 011 | 9538 012 | 9538 013 | 9538 014 | 9538 015 |

| | STANDARD | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 50x12x1,5 | 48x12x7,5 | 13x12x7,5 |
| ID nr. | 9503 008 | 9545 008 | 9545 004 |
| | | | 9546 018 |



Teste per battute con coltelli reversibili e alternativamente inclinati.

Shear-cut rebating cutterheads.

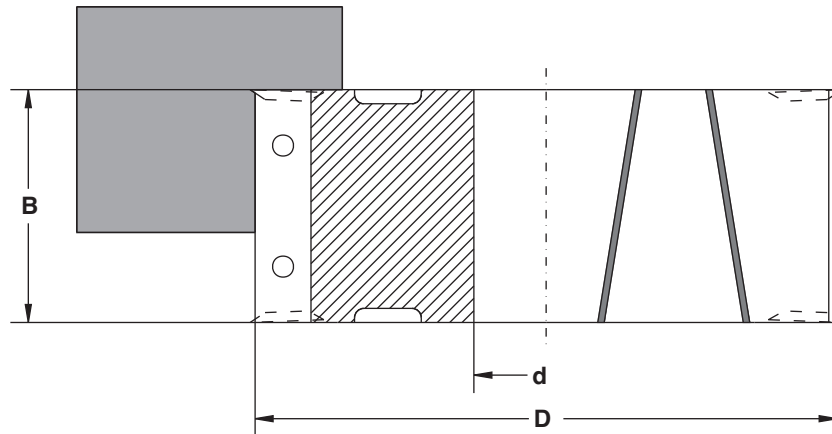
Têtes porte-outil à feuillure avec coupe biaisé.

Falzmesserköpfe mit Achswinkel.

Cabezales para cortes rectos con cuchillas reversibles inclinadas y alternadas.

| D | B | Z+V | d | rpm | ID nr. |
|-----|----|-----|----|-------|-----------------|
| 125 | 30 | 4+4 | 35 | 10500 | 2033 001 |
| 125 | 30 | 4+4 | 40 | 10500 | 2033 002 |
| 125 | 50 | 4+4 | 35 | 10500 | 2033 003 |
| 125 | 50 | 4+4 | 40 | 10500 | 2033 004 |

2033



MAN



Caratteristiche

Testa per eseguire battute su legno massiccio, truciolare, multistrati, laminati, plastici o altro. Quattro taglienti inclinati alternati per grandi asportazioni e ottima finitura della superficie.

Characteristics

Cutters for making rabbets on solid wood, chipboard, multilayer, laminated, plastic and more. Four alternated inclined cutting edges for large removals and excellent surface finish.

RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x12x1,5 | 28x12x7,5 | M6x16 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 |

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x12x1,5 | 48x12x7,5 | M8x16 |
| ID nr. | 9503 008 | 9545 008 | 9546 020 |

| | RASANTI | VITI |
|------------|-----------------|-----------------|
| Dimensioni | 14x14x2 | M5x8 |
| ID nr. | 9508 002 | 9546 005 |

2034



Teste per battute e contornature con coltelli reversibili e spigolatori regolabili.
Cutterheads for rabbets and frame profiles with knives and beveledges.
 Têtes pour feuillures et contournages avec couteaux reversibles à chanfrein.
Messerköpf für Anschläge und Konturbearbeitungen, mit Wendepplatten-Abkantern.
 Cabezales para galcear y contornear con cuchillas reversibles y regulables.

| D | B | Z | d | rpm | ID nr. |
|-----|----|-------|----|-------|-----------------|
| 125 | 60 | 4+4+4 | 35 | 10500 | 2034 001 |
| 125 | 60 | 4+4+4 | 40 | 10500 | 2034 002 |

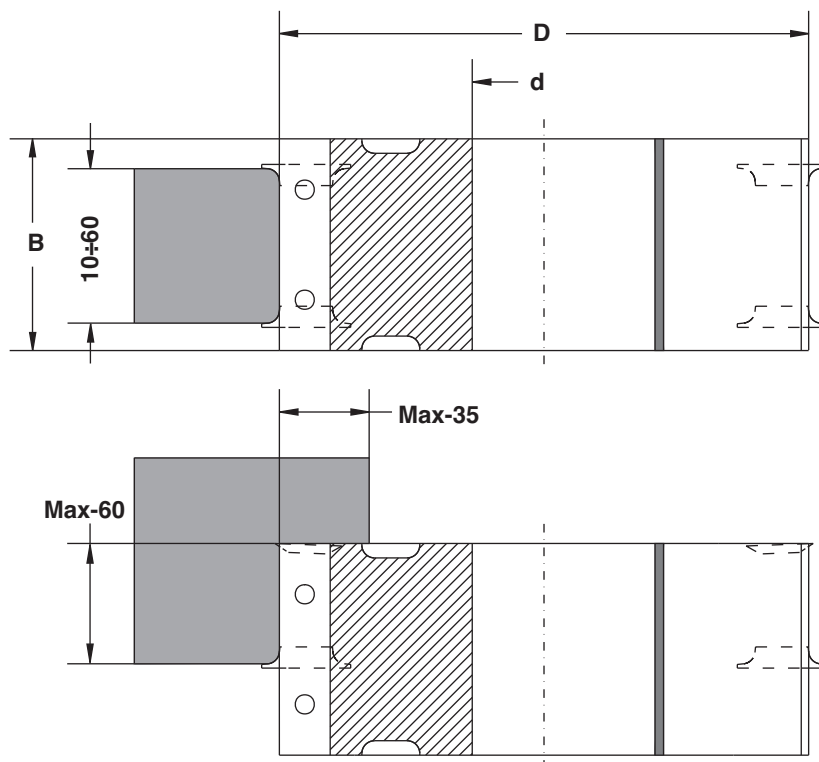


Caratteristiche

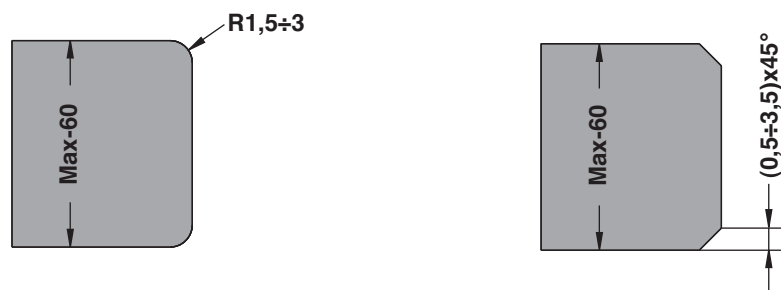
Testa con 4 taglienti, 4 incisori e 4 levaspigli a 45° oppure raggiati per eseguire battute e contornare con smussatura degli spigoli.

Characteristics

Cutterhead with 4 cutting edges, 4 engraver and 4 corner removers at 45° or radius for making rabbets and profiles chamfering.



ESEMPI DI PROFILI ESEGUIBILI



RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 60x12x1,5 | 58x12x7,5 | M8x16 |
| ID nr. | 9503 009 | 9545 009 | 9546 020 |

| | LEVAS. | SUP. LEVAS. | VITI | RASANTI | VITI |
|------------|---------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 16x22x5 | 27x14,5x14 | M5x10 | 14x14x2 | M5x8 |
| ID nr. | 9510 | 9547 007 | 9546 003 | 9508 002 | 9546 005 |

Teste regolabili multiuso.

Polyvalent cutterheads with variable thickness.

Têtes d'épaisseur variable polyvalente.

Profilplatten-Messerköpf.

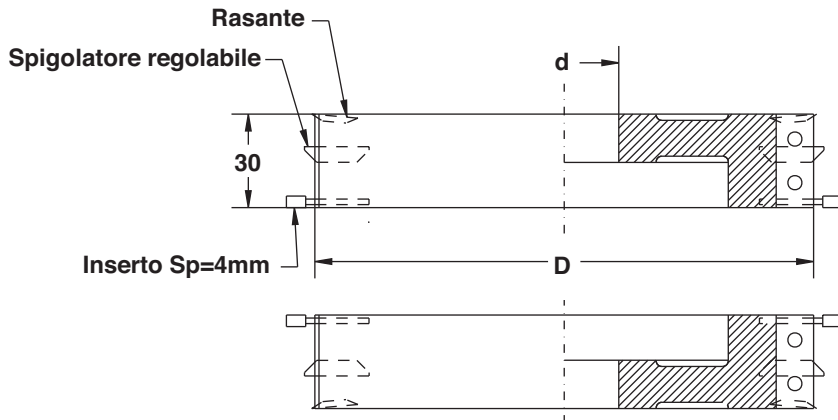
Cabezales multiuso regulables.

2035

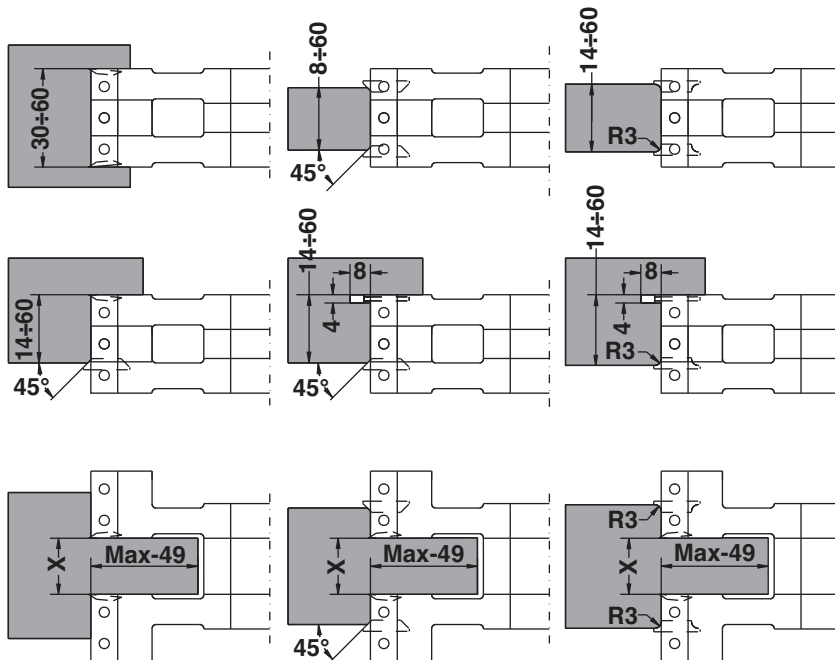
| D | d | Z | RAS. | INS. | LEVAS. | rpm | ID nr. |
|-----|----|---|------|------|--------|------|-----------------|
| 160 | 35 | 4 | 4 | 4 | 4 | 8000 | 2035 001 |
| 160 | 40 | 4 | 4 | 4 | 4 | 8000 | 2035 002 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



ESEMPI DI LAVORAZIONE



MEC



Caratteristiche

Testa portacoltelli con svariate possibilità di utilizzo.

Tagliando o mettendo i vari accessori si possono ottenere diverse lavorazioni, canali, battute, spigolature, raggiature, incastri.

Characteristics

Cutterhead with polyvalent use.

Taking off or putting different accessories it is possible to obtain different kind of works.

RICAMBI

| | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | M8x22 | 14x14x2 | M5x8 |
| ID nr. | 9503 006 | 9545 024 | 9546 011 | 9508 002 | 9546 005 |

| | LEVASPIG. | SUP. LEVAS. | INSERTI | VITI | OGIVA |
|------------|-----------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 16x22x5 | 27x14,5x14 | Sp. 4mm | M5x10 | M8 Ø12 |
| ID nr. | 9510 | 9547 007 | 9512 001 | 9546 003 | 9547 009 |

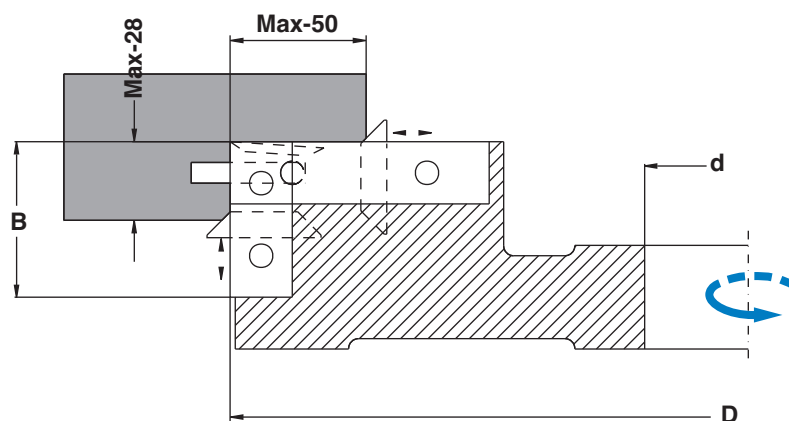
2036



Teste portacoltelli per telai di porte.
Door frame cutters.
 Têtes porte-couteaux pour châssis de portes.
Tüerahmenköpf.
 Cabezales para marcos de puertas.

| D | B | d | Z | RAS. | INS. | LEVAS. | ID nr. |
|-----|----|----|---|------|------|--------|-----------------|
| 200 | 30 | 35 | 4 | 2 | 2 | 4 | 2036 001 |
| 200 | 30 | 40 | 4 | 2 | 2 | 4 | 2036 002 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



MEC



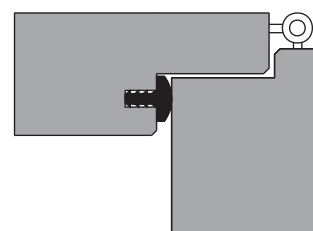
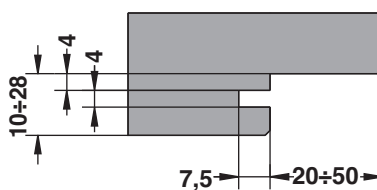
Caratteristiche

Teste con inserti radiali per eseguire battute su telai di porte.

Characteristics

Radius insert cutters for making rabbets on doors frames.

ESEMPI DI LAVORAZIONE



RICAMBI

| | COLTELLI | LARDONI | COLTELLI | LARDONI | VITI | OGIVA |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | 50x12x1,5 | 48x12x7,5 | M8x22 | M8Ø12 |
| ID nr. | 9503 006 | 9545 024 | 9503 008 | 9545 026 | 9546 011 | 9547 009 |

| | INSERTI | VITI | RASANTI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | Sp. 4mm | M5x10 | 14x14x2 | M5x8 |
| ID nr. | 9512 001 | 9546 003 | 9508 002 | 9546 005 |

| | LEVASPIGOLI | SUP. LEVASPIGOLI | VITI |
|------------|-----------------|------------------|-----------------|
| Dimensioni | 16x22x5 45° | 27x14,5x14 | M5x10 |
| ID nr. | 9510 001 | 9547 007 | 9546 003 |

Gruppi di teste portacoltelli per squadratura porte.

Set of cutters for squaring doors.

Groupes de têtes pour équerissage des portes.

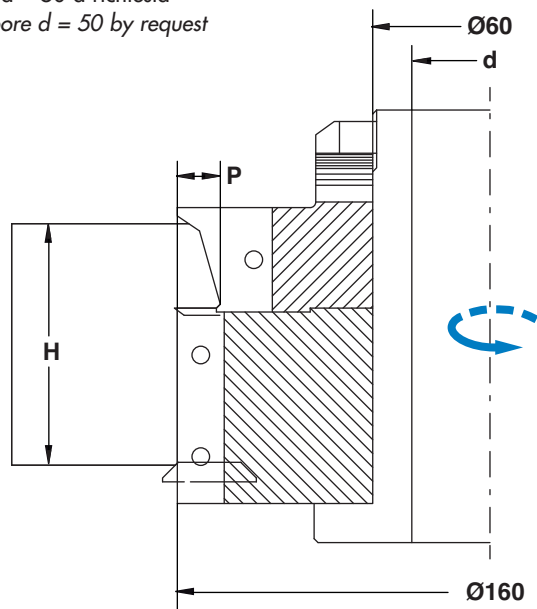
Messerköpfgruppen für Tuerbeschlagung.

Juego de cabezales para escuadrar puertas.

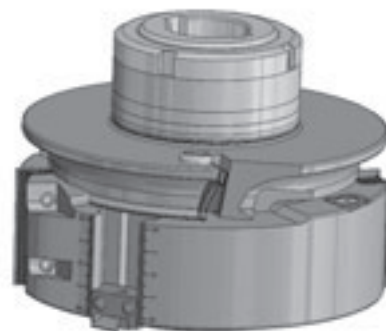
| SAGOMA | H | P | d+ch | rpm | ID nr. |
|--------|-------|-----|------|------|-----------------|
| 1 | 44÷64 | 8,5 | 35+2 | 8000 | 2038 011 |
| 2 | 44÷64 | 8,5 | 35+2 | 8000 | 2038 012 |
| 3 | 44÷64 | 8,5 | 35+2 | 8000 | 2038 013 |
| 4 | 44÷64 | 8,5 | 35+2 | 8000 | 2038 014 |
| 1 | 44÷64 | 8,5 | 40+2 | 8000 | 2038 015 |
| 2 | 44÷64 | 8,5 | 40+2 | 8000 | 2038 016 |
| 3 | 44÷64 | 8,5 | 40+2 | 8000 | 2038 017 |
| 4 | 44÷64 | 8,5 | 40+2 | 8000 | 2038 018 |
| 5 | 44÷64 | 10 | 35+2 | 8000 | 2038 019 |
| 6 | 44÷64 | 10 | 35+2 | 8000 | 2038 020 |
| 7 | 44÷64 | 10 | 35+2 | 8000 | 2038 021 |
| 8 | 44÷64 | 10 | 35+2 | 8000 | 2038 022 |
| 5 | 44÷64 | 10 | 40+2 | 8000 | 2038 023 |
| 6 | 44÷64 | 10 | 40+2 | 8000 | 2038 024 |
| 7 | 44÷64 | 10 | 40+2 | 8000 | 2038 025 |
| 8 | 44÷64 | 10 | 40+2 | 8000 | 2038 026 |
| 9 | 44÷64 | 12 | 35+2 | 8000 | 2038 027 |
| 10 | 44÷64 | 12 | 35+2 | 8000 | 2038 028 |
| 11 | 44÷64 | 12 | 35+2 | 8000 | 2038 029 |
| 12 | 44÷64 | 12 | 35+2 | 8000 | 2038 030 |
| 9 | 44÷64 | 12 | 40+2 | 8000 | 2038 031 |
| 10 | 44÷64 | 12 | 40+2 | 8000 | 2038 032 |
| 11 | 44÷64 | 12 | 40+2 | 8000 | 2038 033 |
| 12 | 44÷64 | 12 | 40+2 | 8000 | 2038 034 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



2038



MAN



Caratteristiche

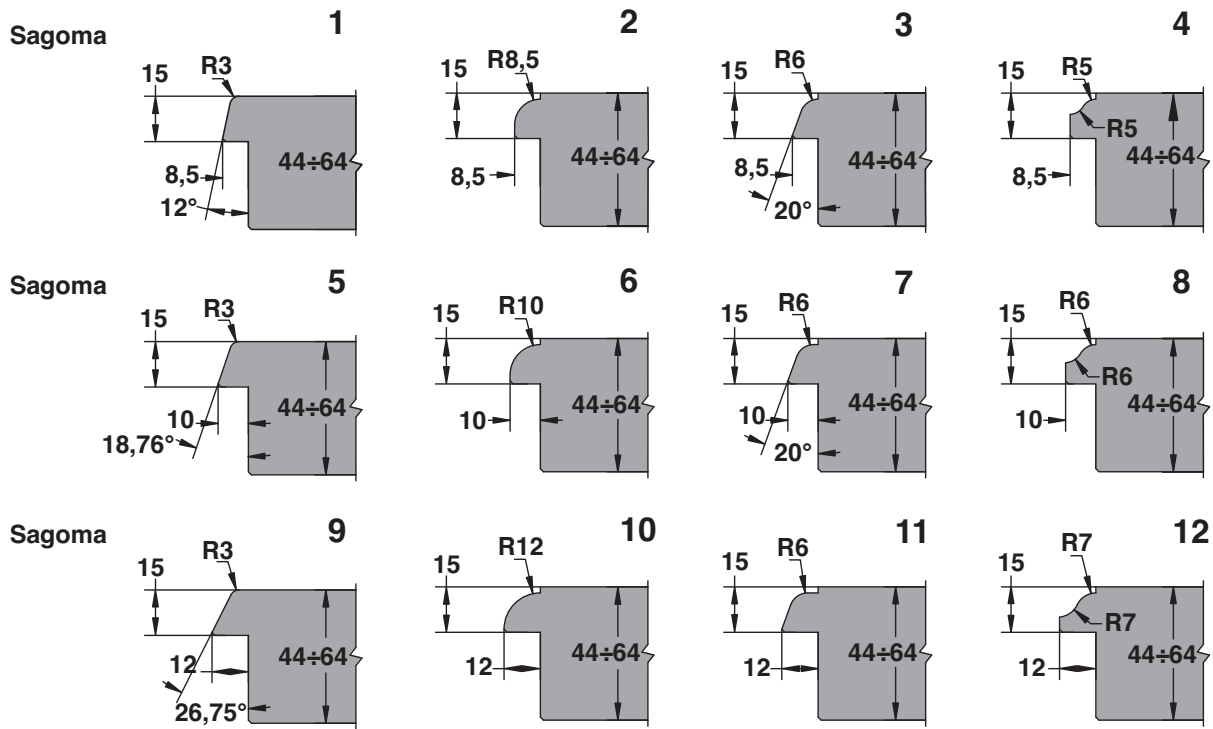
Gruppo di teste portacoltelli per squadratura di porte, serramenti, scurettili, completo di mozzo. In dotazione monta spigolatori a 45° che a richiesta possono essere sostituiti con degli spigolatori raggiati R = 1,5-2-3.

Characteristics

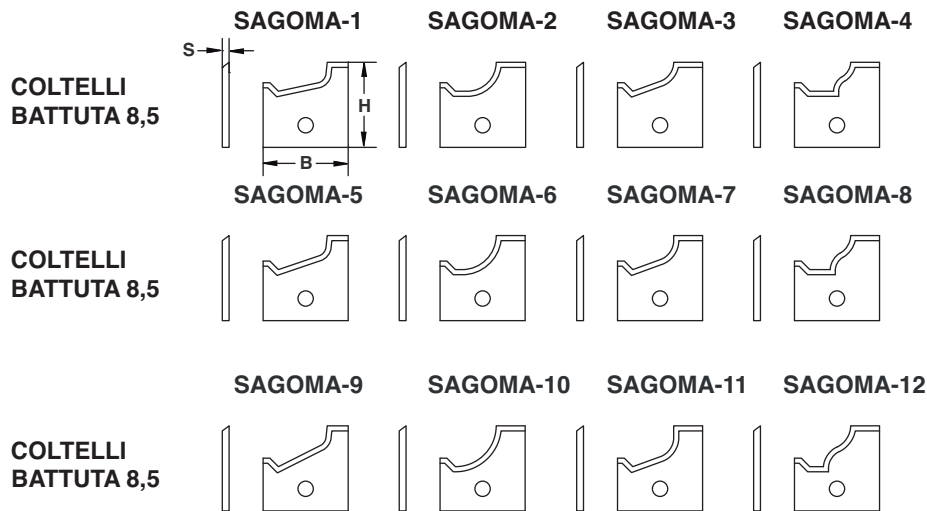
Set of cutters for squaring doors supplied with sleeve.

The cutter has normally inserts at 45° but it is possible to have insert R = 1,5-2-3.

PROFILI ESEGUIBILI



COLTELLI SAGOMATI DI RICAMBIO



RICAMBI

COLTELLI SAGOMATI

| TIPO | BATTUTA - 8,5 | BATTUTA - 10 | BATTUTA - 12 | LARDONI |
|------------------|------------------------------|------------------------------|------------------------------|-----------------|
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 18x12x7,5 |
| ID nr. | 9573 001 ÷ 004 | 9573 011 ÷ 014 | 9573 021 ÷ 024 | 9545 005 |

STANDARD

| TIPO | COLTELLI | LARDONI | RASANTI | LEVASPIGOLI | SUP. LEVASPIGOLI |
|------------------|-----------------|-----------------|-----------------|-------------|------------------|
| Dimensioni BxHxS | 50x12x1,5 | 48x12x7,5 | 14x14x2 | 16x22x5 | 27x14,5x14 |
| ID nr. | 9503 008 | 9545 008 | 9508 002 | 9510 | 9547 007 |

VITI

| IMPIEGO | PER LARDONI | PER RASANTI | PER LEVASPIGOLI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | M6x16 | M5x7 | M5x10 |
| ID nr. | 9546 018 | 9546 005 | 9546 003 |

Gruppi sagomati per profilatura e tenonatura di porte e portoni, senza recupero di listello.

Profile and tenoning group for doors without reprimed beading.

Groupe à profiler et tenonner pour portes sans listel récupéré.

Messer und Zapfenköpfe für Türen und Tore ohne wieder gewinnen das Leiste.

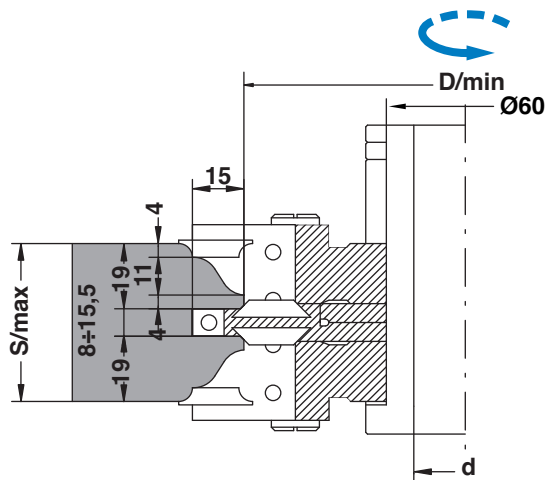
Juego para espigar y perfilar puertas y portales sin rescatar el listón.

Gruppo per profilatura porte / Group for doors profile

| D/min | d+ch | S/max | Z | rpm | ID nr. |
|-------|------|-------|---|------|---------|
| 130 | 35+2 | 46 | 2 | 9000 | 2066001 |
| 130 | 40+2 | 46 | 2 | 9000 | 2066002 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request

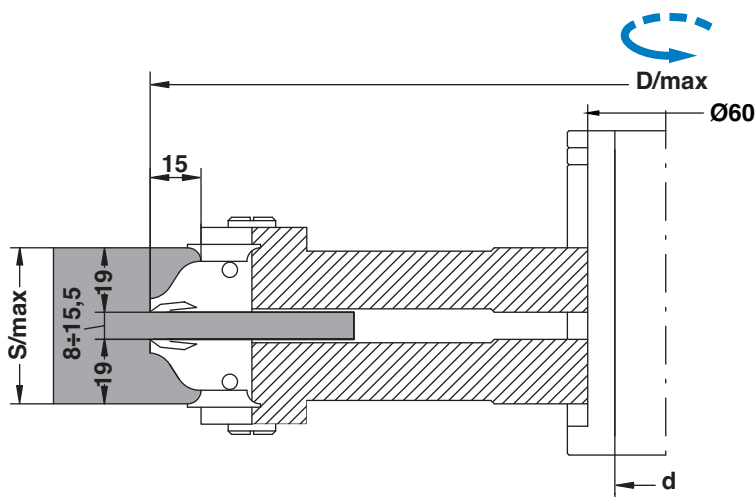


Gruppo per tenonature / Group for tenoning

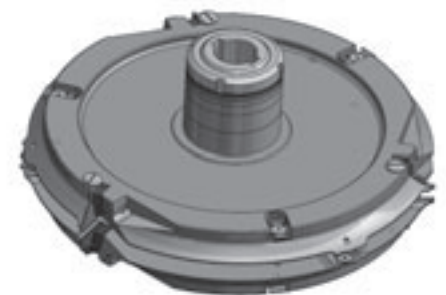
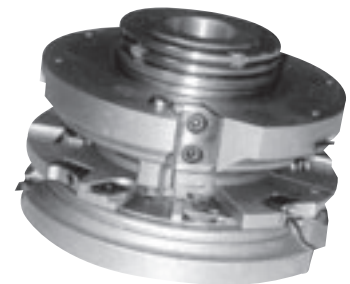
| D/min | d | S/max | Z | rpm | ID nr. |
|-------|------|-------|---|------|---------|
| 304 | 35+2 | 46 | 3 | 5000 | 2066011 |
| 304 | 40+2 | 46 | 3 | 5000 | 2066012 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



2066



Caratteristiche

Gruppi per profilare e tenonare porte e portoni con spessore variabile da 44 a 54 senza recupero di listello.

Il gruppo viene fornito con un solo profilo tra i 4 proposti.

Al momento dell'ordine indicare il profilo desiderato.

Ottima finitura su legni teneri, duri e esotici.

Characteristics

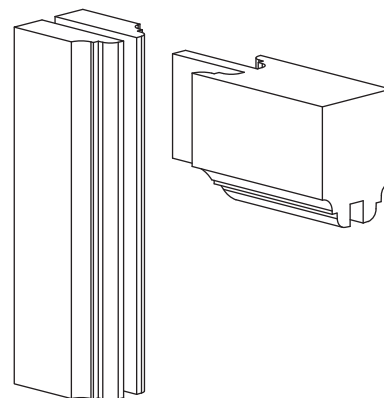
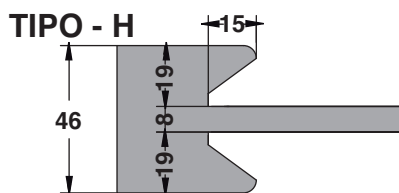
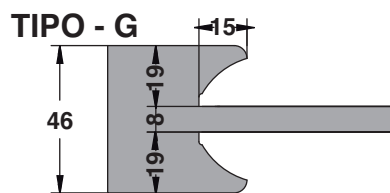
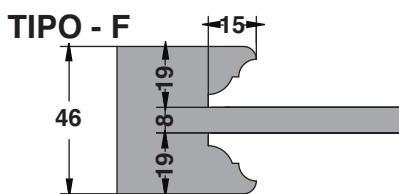
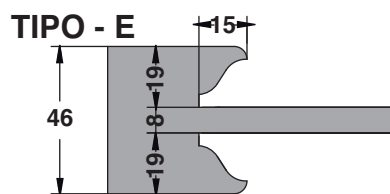
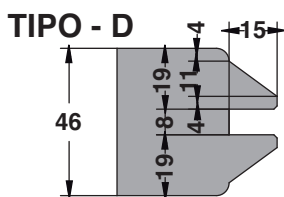
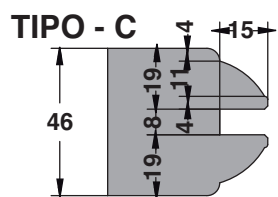
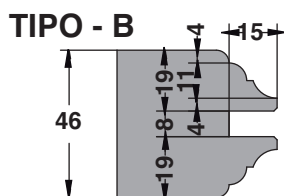
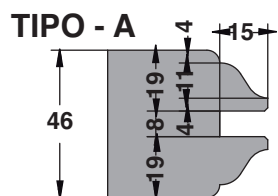
Groups to profil and tenoning doors with changeable thickness from 44 to 54 without reprimed beading.

This set is supplied with only one profile of the 4 profiles suggested.

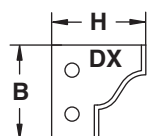
When ordering always specify the profile.

Good results with hard, soft and exotic woods.

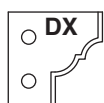
PROFILI ESEGUIBILI



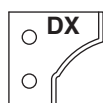
RICAMBI



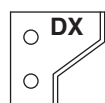
A



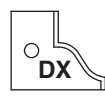
B



C



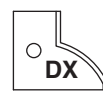
D



A1



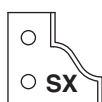
B1



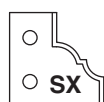
C1



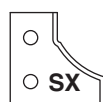
D1



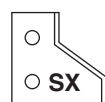
SX



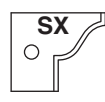
SX



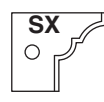
SX



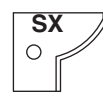
SX



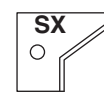
SX



SX



SX



SX

COLTELLI SAGOMATI

| TIPO | A | B | C | D |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x30x2 | 30x30x2 | 30x30x2 | 30x30x2 |
| ID nr. DX | 9559 001 | 9559 003 | 9559 005 | 9559 007 |
| ID nr. SX | 9559 002 | 9559 004 | 9559 006 | 9559 008 |

COLTELLI SAGOMATI

| TIPO | E | F | G | H |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. DX | 9559 009 | 9559 011 | 9559 013 | 9559 015 |
| ID nr. SX | 9559 010 | 9559 012 | 9559 014 | 9559 016 |

STANDARD

| TIPO | LARDONI | COLTELLI | LARDONI | RASANTI | LEVASPIGOLI |
|------------------|-----------------|-----------------|-----------------|-----------------|-------------|
| Dimensioni BxHxS | 28x12x1,5 | 7,65x12x1,5 | 6,5x12x7,5 | 14x14x2 | 16x22x5 |
| ID nr. | 9545 006 | 9503 001 | 9545 001 | 9508 002 | 9510 |

VITI

| IMPIEGO | PER LARDONI | | PER RASANTI | PER LEVASPIGOLI |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | M6x16 | M5x16 | M5x8 | M5x10 |
| ID nr. | 9546 018 | 9546 015 | 9546 005 | 9546 003 |

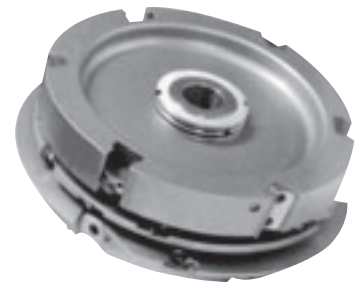
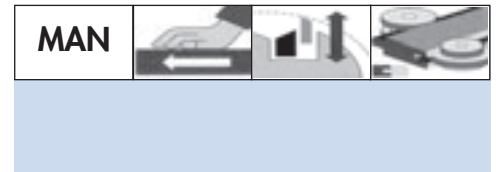
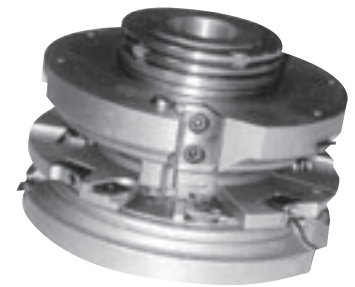
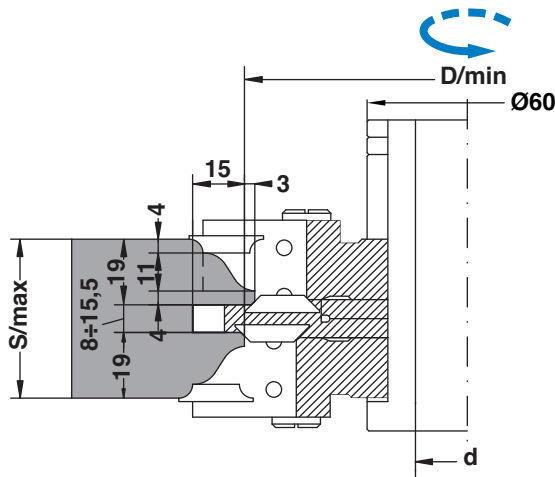
Gruppi sagomati per profilatura e tenonatura di porte e portoni, con recupero di listello.
Profile and tenoning group for doors with reprised beading.
 Groupe à profiler et tenonner pour portes avec listel récupéré.
Messer und Zapfenköpfe für Türen und Tore mit wieder gewinnen das Leiste.
 Juego para espigar y perfilar puertas y portales con rescatar el listón.

2067

Gruppo per profilatura porte/Group for doors profiling

| D/min | d+ch | S/max | Z | rpm | ID nr. |
|-------|------|-------|---|------|-----------------|
| 130 | 35+2 | 46 | 2 | 9000 | 2067 001 |
| 130 | 40+2 | 46 | 2 | 9000 | 2067 002 |

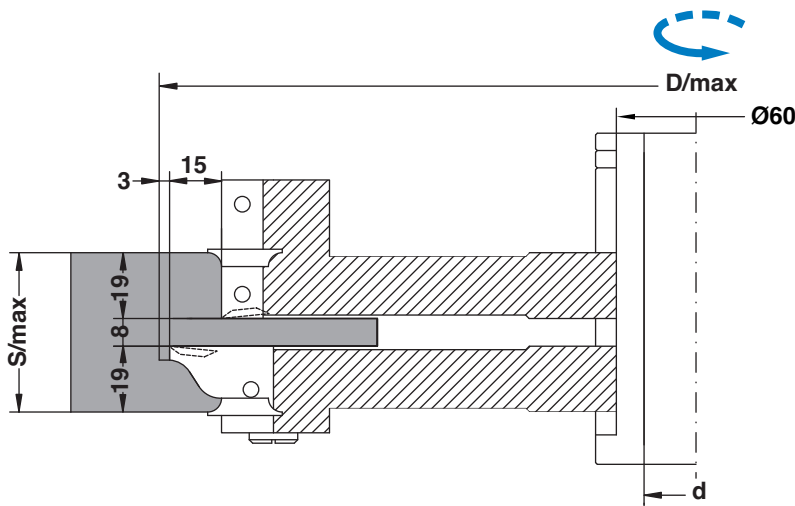
Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



Gruppo per tenonatura/Group for tenoning

| D/min | d+ch | S/max | Z | rpm | ID nr. |
|-------|------|-------|---|------|-----------------|
| 304 | 35+2 | 46 | 3 | 5000 | 2067 011 |
| 304 | 40+2 | 46 | 3 | 5000 | 2067 012 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



Caratteristiche

Gruppi per profilare e tenonare porte e portoni con spessore variabile da 44 a 54 con recupero di listello.

Possibilità di scegliere tra le 4 sagome proposte.

Il gruppo viene fornito con un solo profilo tra i 4 proposti.

Ottima finitura su legni teneri, duri e esotici.

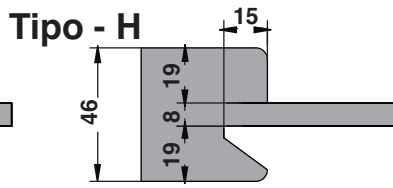
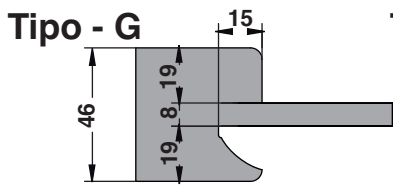
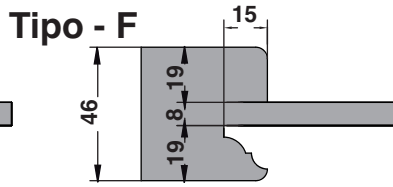
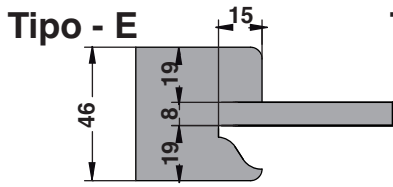
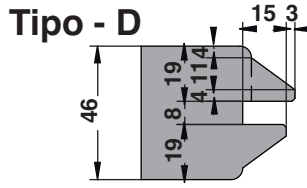
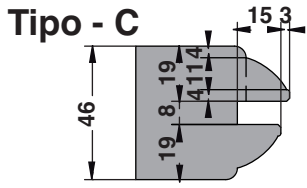
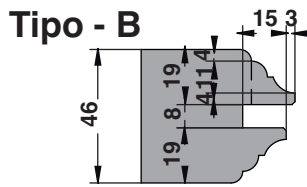
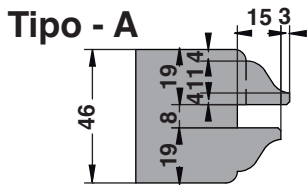
Characteristics

Groups to profil and tenoning doors with changeable thickness from 44 to 54 with reprised beading.

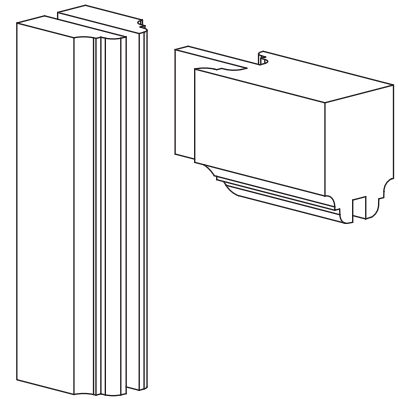
This set is supplied with only one profile of the 4 profiles suggested.

When ordering always specify the profile.

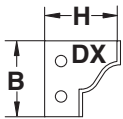
Good results with hard, soft and exotic woods.



PROFILI ESEGUIBILI



RICAMBI



A

B

C

D

E

F

G

H



COLTELLI SAGOMATI

| TIPO | A | B | C | D |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x30x2 | 30x30x2 | 30x30x2 | 30x30x2 |
| ID nr. DX | 9559 001 | 9559 003 | 9559 005 | 9559 007 |
| ID nr. SX | 9559 002 | 9559 004 | 9559 006 | 9559 008 |

COLTELLI SAGOMATI

| TIPO | E | F | G | H |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. SX | 9559 010 | 9559 012 | 9559 014 | 9559 016 |

STANDARD

| TIPO | LARDONI | COLTELLI | LARDONI | RASANTI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 28x12x1,5 | 7,65x12x1,5 | 6,5x12x7,5 | 14x14x2 |
| ID nr. | 9545 006 | 9503 001 | 9545 001 | 9508 002 |

STANDARD

| TIPO | COLTELLI | LARDONI | LEVASPIGOLI | SUP. LEVASPIGOLI |
|------------------|-----------------|-----------------|-------------|------------------|
| Dimensioni BxHxS | 40x12x1,5 | 38x12x7,5 | 16x22x5 | 27x14,5x14 |
| ID nr. | 9503 007 | 9545 007 | 9510 | 9547 007 |

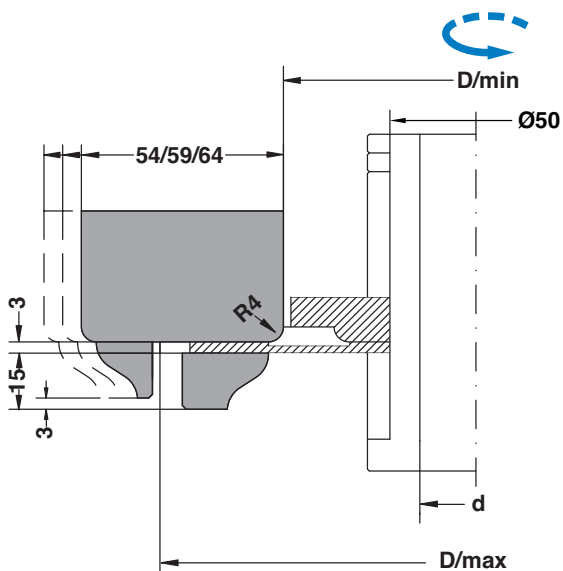
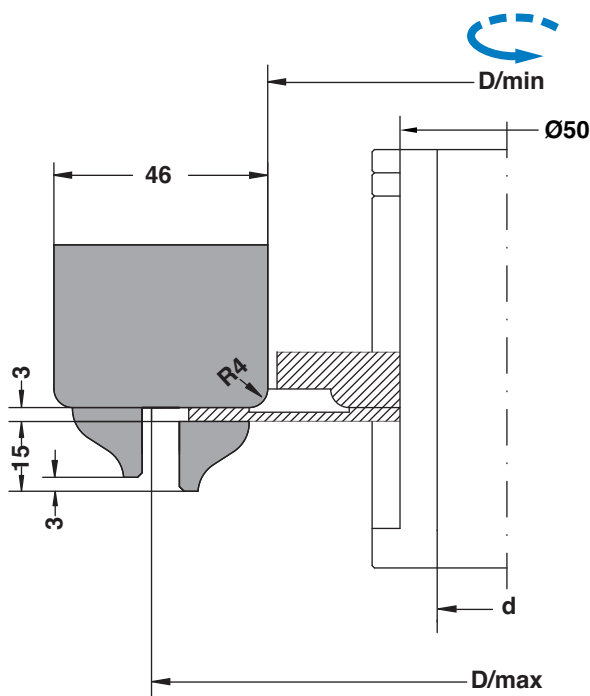
VITI

| IMPIEGO | PER LARDONI | | PER RASANTI | PER LEVASPIGOLI |
|------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | M6x16 | M5x16 | M5x8 | M5x10 |
| ID nr. | 9546 018 | 9546 015 | 9546 005 | 9546 003 |

Gruppi per recupero di listello.
Glass top recovery units.
 Groupes pour récupération listel.
Gruppen zur Leistenrückgewinnung.
 Grupos para recuperación listón.

| D/min | D/max | d | LEVAS. | Z | rpm | ID nr. |
|-------|-------|----|--------|----|------|-----------------|
| 130 | 180 | 35 | 2 | 36 | 6500 | 2068 001 |
| 130 | 180 | 40 | 2 | 36 | 6500 | 2068 002 |
| 130 | 200 | 35 | 2 | 36 | 5500 | 2068 003 |
| 130 | 200 | 40 | 2 | 36 | 5500 | 2068 004 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



2068



MAN



Caratteristiche

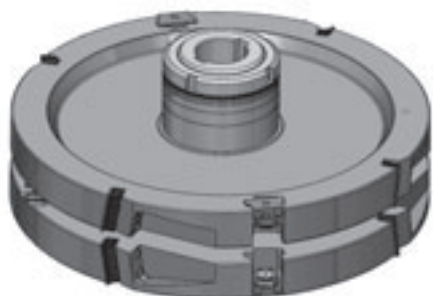
Gruppi per taglio listello su telai di porte e portoni.
 Su richiesta è possibile avere lame con dentature diverse.

Characteristics

Groups for ashlar on door frames.
 It is possible to have sawblades with different teeth if requested.

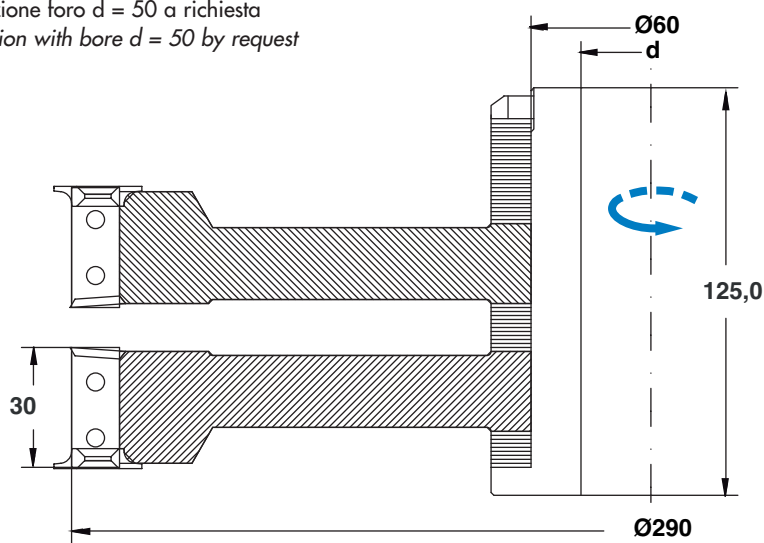
2079

Gruppo di teste per tenonare.
Set of tenoning cutter heads.
 Jeu de porte - outils à tenonner.
Zapfenkopfsatz.
 Juego de cabezales para espigar.



| D/max | C | d+ch | Z | rpm | ID nr. |
|-------|----|------|---|------|-----------------|
| 290 | 8 | 35+2 | 4 | 4500 | 2079 001 |
| 290 | 8 | 40+2 | 4 | 4500 | 2079 002 |
| 290 | 10 | 35+2 | 4 | 4500 | 2079 003 |
| 290 | 10 | 40+2 | 4 | 4500 | 2079 004 |
| 290 | 12 | 35+2 | 4 | 4500 | 2079 005 |
| 290 | 12 | 40+2 | 4 | 4500 | 2079 006 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



MAN



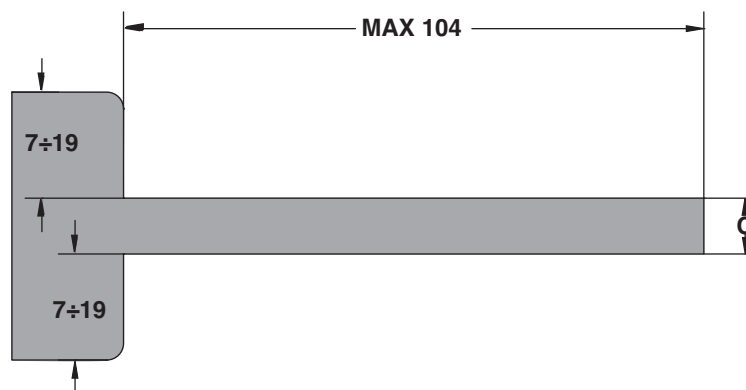
Caratteristiche

Gruppo di teste portacoltelli per tenonare completo di mozzo.
 In dotazione monta spigolatori a 45° che a richiesta possono essere sostituiti con degli spigolatori raggiati R=1-1,5-2-3.

Characteristics

Set of tenoning cutter heads with sleeve.
 The cutter has normally inserts at 45° but it is possible to have insert R=1-1,5-2-3.

PROFILO ESEGUIBILE



RICAMBI

| STANDARD | | | | | |
|------------|-----------------|-----------------|-----------------|-------------|-----------------|
| TIPO | COLTELLI | LARDONI | RASANTI | LEVASPIGOLI | SUP. LEVASP. |
| Dimensioni | 30x12x1,5 | 28x12x7,5 | 14x14x2 | 16x22x5 | 27x14,5x14 |
| ID nr. | 9503 006 | 9545 005 | 9508 002 | 9510 | 9547 007 |

| VITI | | | |
|------------|-----------------|-----------------|-----------------|
| IMPIEGO | PER LARDONI | PER RASANTI | PER LEVASPIGOLI |
| Dimensioni | M8x16 | M8x8 | M5x10 |
| ID nr. | 9546 020 | 9546 005 | 9546 003 |

Gruppo di teste per ante scorrevoli.

Cutterheads set for sliding doors.

Jeu de porte-outils pour chassis coulissants.

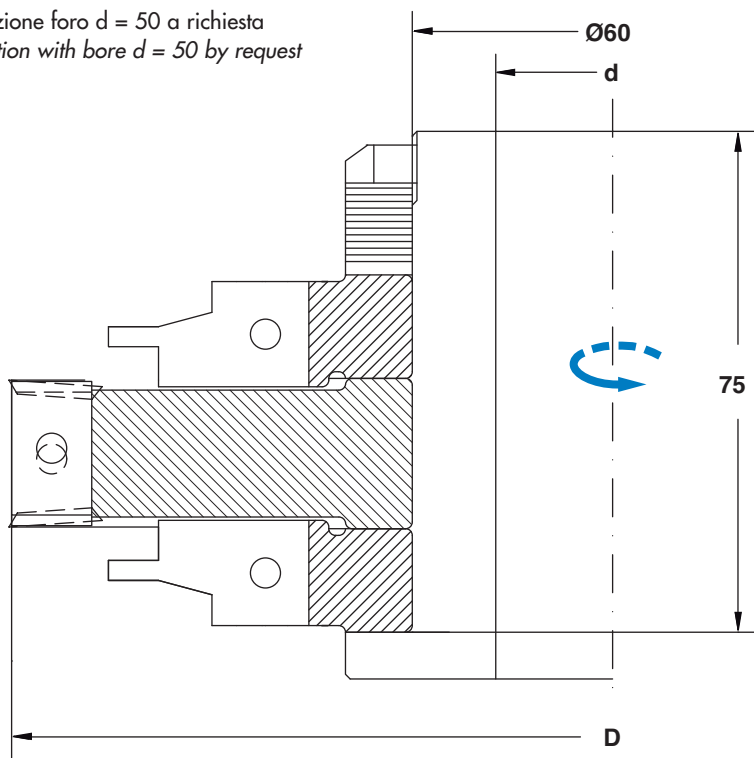
Messerkopfsatz für Schiebetüren.

Juego de cabezales para ventana corredera.

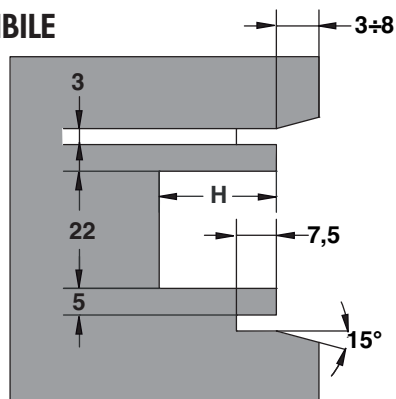
2080

| D | H | d+ch | Z | rpm | ID nr. |
|-----|----|------|---|------|-----------------|
| 180 | 22 | 35+2 | 2 | 7000 | 2080 001 |
| 180 | 22 | 40+2 | 2 | 7000 | 2080 002 |
| 224 | 44 | 35+2 | 2 | 5500 | 2080 003 |
| 224 | 44 | 40+2 | 2 | 5500 | 2080 004 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request



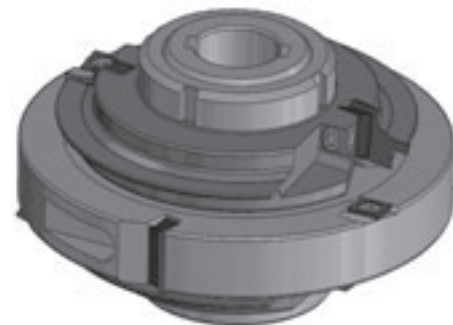
PROFILO ESEGUIBILE



RICAMBI

| | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 20x12x1,5 | 18x12x7,5 | M8x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 005 | 9545 005 | 9546 020 | 9508 002 | 9546 005 |

| | SAGOMATI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| IMPIEGO | COLTELLI | LARDONI | PER LARDONI |
| Dimensioni | 16x30x2 | 13x12x7,5 | M5x16 |
| ID nr. DX | 9574 001 | 9545 004 | 9546 020 |
| ID nr. SX | 9574 002 | | |

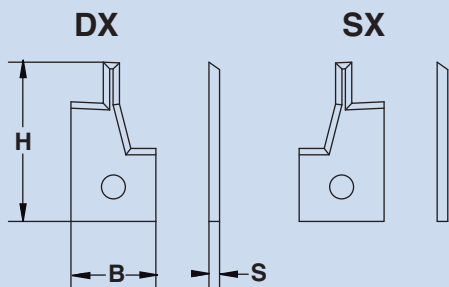


Caratteristiche

Gruppo di teste portacoltelli per ante scorrevoli completo di mozzo.

Characteristics

Cutterheads set for sliding doors supplied with sleeve.



2039

Testa per esecuzione sede ferramenta su serramenti.

Cutterhead for fitting groove.

Tête porte-couteaux pour cremone.

Messerköpf für Beschlagnut.

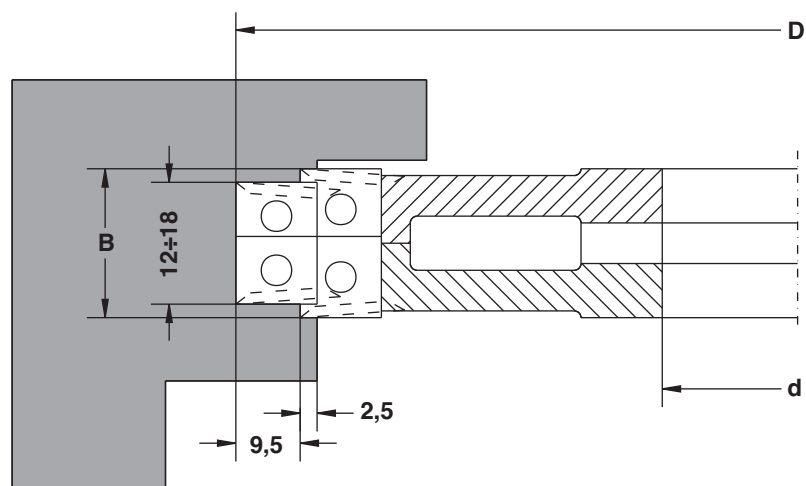
Cabezal para realizar el alojamiento de herramientas de puertas y ventanas.



| D/max | C | d | Z | rpm | ID nr. |
|-------|-------|----|---------|------|-----------------|
| 166 | 16÷22 | 35 | 4+4+4+4 | 7500 | 2039 001 |
| 166 | 16÷22 | 40 | 4+4+4+4 | 7500 | 2039 002 |

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



MAN



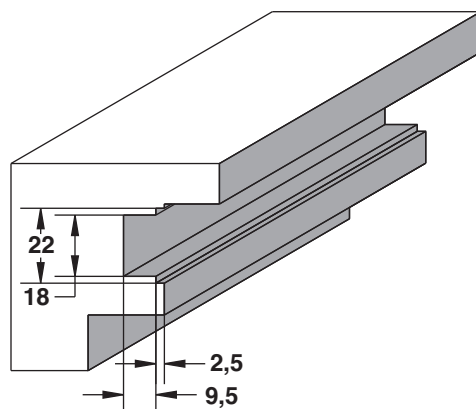
Caratteristiche

Teste portacoltelli regolabile con coltellini reversibili, completa di anelli distanziali. Variando lo spessore della testa si ottengono diversi alloggiamenti per diversi tipi di ferramenta.

Characteristics

Cutterheads adjustable with reversible knives and with spacing collars. Changing the thickness of the cutter it is possible to obtain different kind of frame.

PROFILO ESEGUIBILE



RICAMBI

| | COLTELLI | LARDONI | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 9,65x12x1,5 | 8,5x12x7,5 | 12x12x1,5 | 10x12x7,5 | M6x16 |
| ID nr. | 9503 002 | 9545 002 | 9503 003 | 9545 003 | 9546 018 |

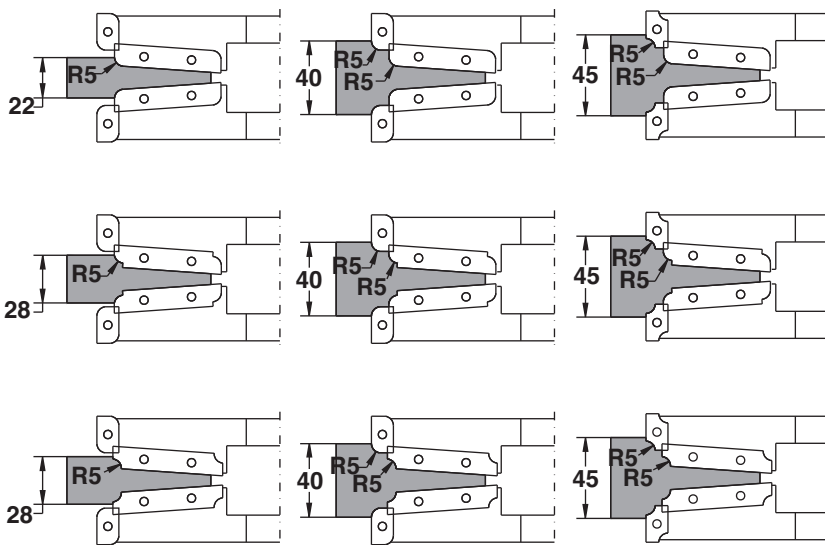
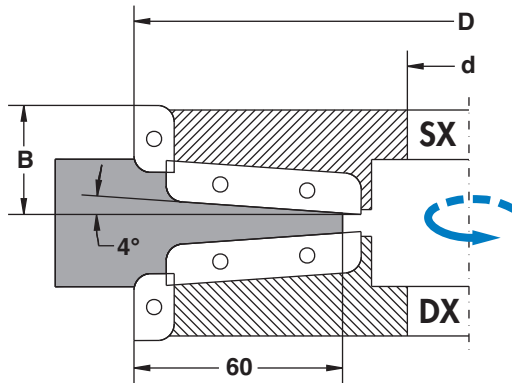
| | RASANTI | VITI |
|------------|-----------------|-----------------|
| Dimensioni | 14x14x2 | M5x8 |
| ID nr. | 9508 002 | 9546 005 |

Cassetta piattabande multiprofile completa per eseguire 9 profili.
Multi-profile raised panel head for making 9 profiles.
 Caisse porte-outil multiprofiles pour plâtes-bandes pour faire 9 profils.
Multi-Profilier Abplatt-Messerköpf komplett mit 9 Profilmessern.
 Estuche completo para plafones multiperfiles y para realizar 9 perfiles.

2040

| D | B | d | Z | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|-----|------|-----------------|-----------------|
| 200 | 30 | 35 | 2+2 | 7000 | 2040 001 | 2040 002 |
| 200 | 30 | 40 | 2+2 | 7000 | 2040 003 | 2040 004 |

Esecuzione foro d = 50 a richiesta
 Execution with bore d = 50 by request



MEC



Caratteristiche

Cassetta per piattabande con possibilità di eseguire N°9 profili diversi sostituendo semplicemente gli inserti.

La cassetta è composta da N°1 testa portacoltelli e N°5 coppie di coltelli sagomati.

Characteristics

Multiprofile cutter that gives the possibility to make N°9 different profiles just changing the inserts.

The box has N°1 cutterhead and N°5 couples of shaped knives.

RICAMBI

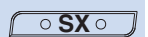
COLTELLI SAGOMATI

| | TIPO | BxHxS | ID nr. DX | ID nr. SX |
|----------|------|-----------|-----------------|-----------------|
| COLTELLI | 1 | 60x12x1,5 | 9532 001 | 9532 002 |
| COLTELLI | 2 | 60x12x1,5 | 9532 003 | 9532 004 |
| COLTELLI | 3 | 60x12x1,5 | 9532 005 | 9532 006 |
| COLTELLI | 4 | 20x12x1,5 | 9532 021 | 9532 022 |
| COLTELLI | 5 | 20x12x1,5 | 9532 023 | 9532 024 |

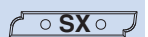
LARDONI-VITI

| | IMPIEGO | Dimensioni | ID nr. |
|---------|------------------------|------------|-----------------|
| LARDONI | per coltelli 4-5 | 18x12x7,5 | 9545 023 |
| LARDONI | per coltelli 1-2-3 | 48x12x7,5 | 9545 026 |
| VITI | per coltelli 1-2-3-4-5 | M8x22 | 9546 011 |
| OGIVA | per coltelli 1-2-3-4-5 | M8 Ø12 | 9547 009 |

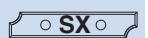
TIPO - 1



TIPO - 2



TIPO - 3



TIPO - 4



TIPO - 5



2041



Caratteristiche

Cassetta per piattabande con possibilità di eseguire N°4 profili diversi sostituendo semplicemente gli inserti.
La cassetta è composta da N°1 testa portacoltelli e N°3 coppie di coltelli sagomati.

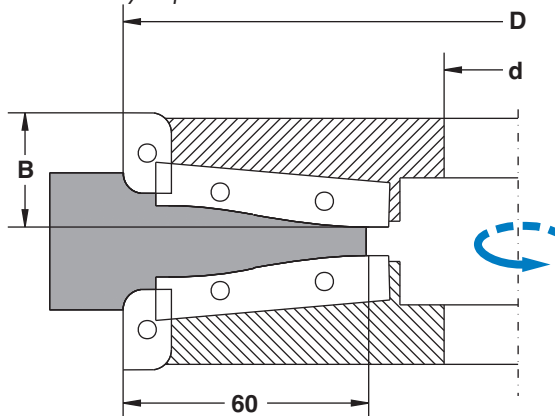
Characteristics

Multiprofile cutter that gives the possibility to make N°4 different profiles just changing the inserts.
The box has N°1 cutterhead and N°3 couples of shaped knives.

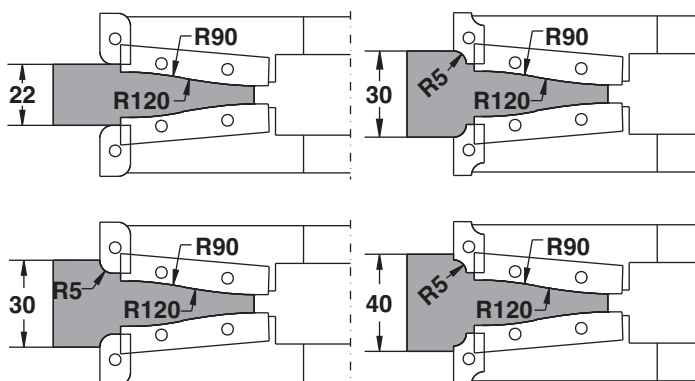
Cassetta piattabande multiprofilo con coltellini a gettare con profili 1-4-5.
Multi-profile raised panel head with reversible knives with profiles 1-4-5.
Caisse multiprofiles pour plâtes-bandes avec couteaux à jeter avec profils 1-4-5.
Multi-Profilier Abplatt-Messerköpf mit Messe zu werfen mit Profil 1-4-5.
Estuche completo para plafones multiperfiles con cuchillas de usar y tirar y con perfiles 1-4-5.

| D | B | d | Z | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|-----|------|-----------------|-----------------|
| 200 | 30 | 35 | 2+2 | 7000 | 2041 001 | 2041 002 |
| 200 | 30 | 40 | 2+2 | 7000 | 2041 003 | 2041 004 |

Esecuzione foro d = 50 a richiesta
Execution with bore d = 50 by request



ESEMPI DI LAVORAZIONE



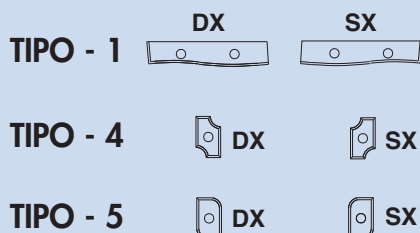
RICAMBI

COLTELLI SAGOMATI

| | TIPO | BxHxS | ID nr. DX | ID nr. SX |
|----------|------|-----------|-----------------|-----------------|
| COLTELLI | 1 | 60x12x1,5 | 9533 001 | 9533 002 |
| COLTELLI | 4 | 20x12x1,5 | 9532 021 | 9532 022 |
| COLTELLI | 5 | 20x12x1,5 | 9532 023 | 9532 024 |

LARDONI-VITI-OGIVA

| | IMPIEGO | Dimensioni | ID nr. |
|---------|--------------------|------------|-----------------|
| LARDONI | per coltelli 4-5 | 18x12x7,5 | 9545 023 |
| LARDONI | per coltelli 1 | 48x12x7,5 | 9545 026 |
| VITI | per coltelli 1-4-5 | M8x22 | 9546 011 |
| OGIVA | per coltelli 1-4-5 | M8 Ø12 | 9547 009 |



Testa piattabanda multiprofil.

Raising panel cutterhead multiprofiles.

Tête pour platte-bandes multiprofiles.

Abplatt-Messerköpf.

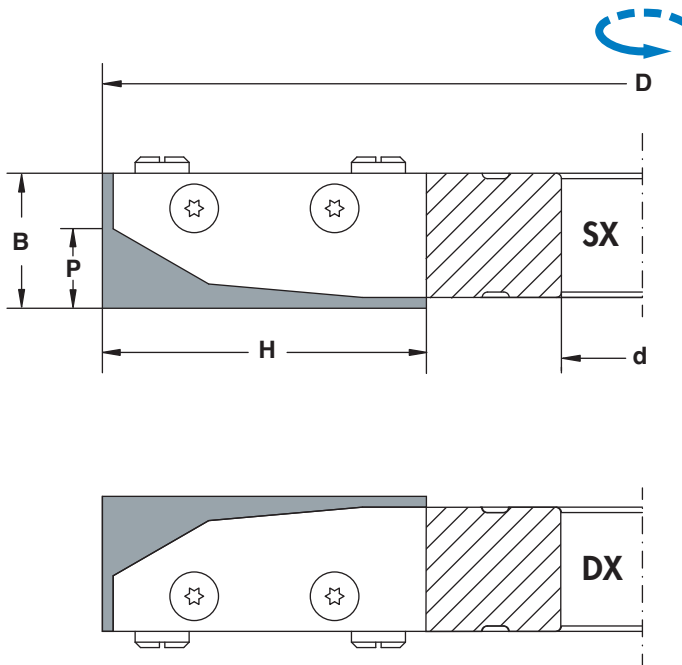
Plafón multiperfil.

| D | B | d | H | P | Z | rpm | ID nr. DX | ID nr. SX |
|-----|----|----|----|----|---|------|-----------------|-----------------|
| 200 | 25 | 35 | 60 | 12 | 3 | 6300 | 2069 001 | 2069 002 |
| 200 | 25 | 40 | 60 | 12 | 3 | 6300 | 2069 003 | 2069 004 |

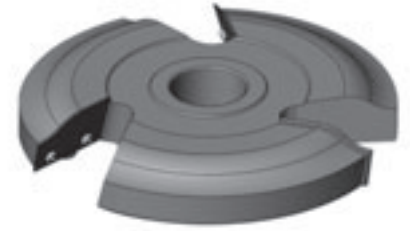
Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request

 = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



2069



MAN



Caratteristiche

Impiegato per eseguire profili e bugne di antine per mobili.

Particolarmente indicato per lavorazioni su legni teneri.

Al momento dell'ordine indicare il profilo desiderato tra quelli indicati.

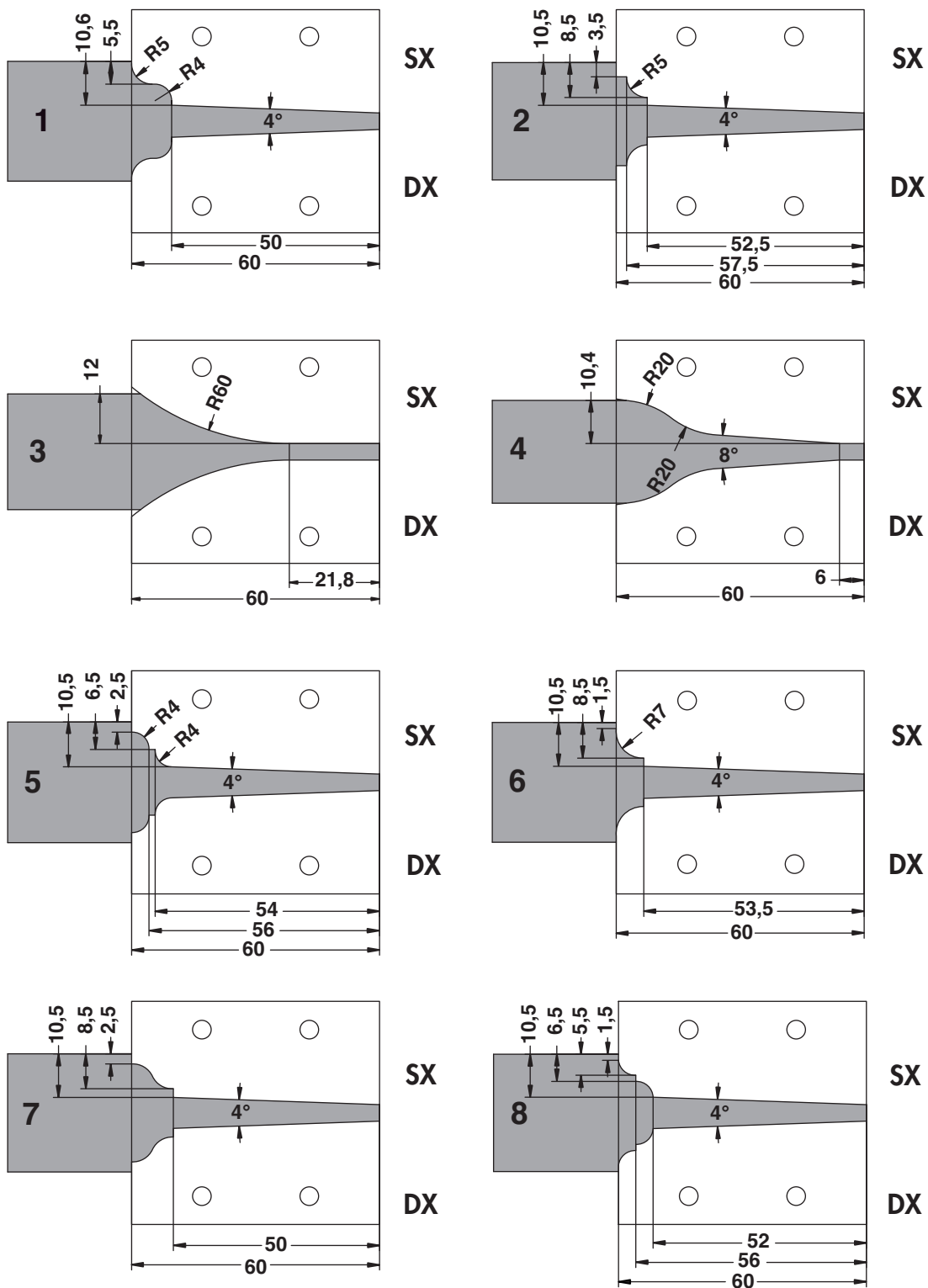
Characteristics

Particularly suitable for make profiles and ashlars for cabinet doors.

Recommended for softwoods.

When ordering always specify the profile.

ESEMPI DI PROFILI ESEGUIBILI



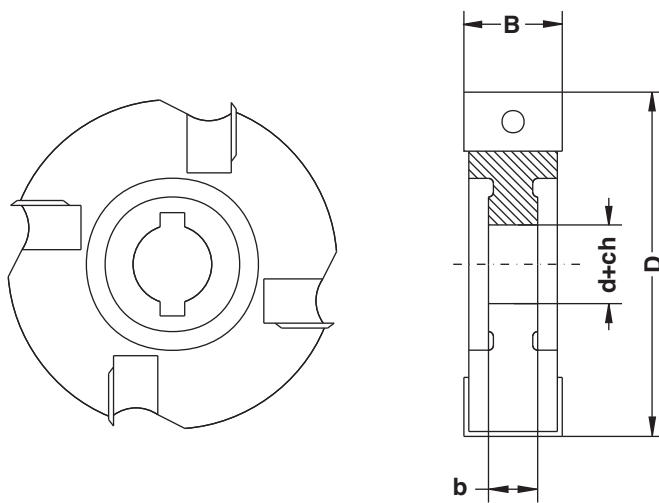
RICAMBI

| Denominazione | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|-------------------|------------------|-----------------|-----------------|
| COLTELLO SAGOMA-1 | 60x25x2 | 9560 001 | 9560 002 |
| COLTELLO SAGOMA-2 | 60x25x2 | 9560 003 | 9560 004 |
| COLTELLO SAGOMA-3 | 60x25x2 | 9560 005 | 9560 006 |
| COLTELLO SAGOMA-4 | 60x25x2 | 9560 007 | 9560 008 |
| COLTELLO SAGOMA-5 | 60x25x2 | 9560 009 | 9560 010 |
| COLTELLO SAGOMA-6 | 60x25x2 | 9560 011 | 9560 012 |
| COLTELLO SAGOMA-7 | 60x25x2 | 9560 013 | 9560 014 |
| COLTELLO SAGOMA-8 | 60x25x2 | 9560 015 | 9560 016 |
| VITI | M3,5x6 | 9546 006 | |

Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.

2042

| D | B | d+ch | b | Z | MACCHINA | rpm | ID nr. |
|----|----|------|----|---|----------------------|-------|-----------------|
| 70 | 12 | 16+2 | 10 | 4 | SCM-STEFANI | 18000 | 2042 001 |
| 70 | 15 | 16+2 | 10 | 4 | SCM-STEFANI | 18000 | 2042 007 |
| 70 | 20 | 16+2 | 10 | 4 | SCM-STEFANI HOMAG | 18000 | 2042 002 |
| 70 | 20 | 16+2 | 10 | 6 | SCM-STEFANI | 18000 | 2042 003 |
| 72 | 20 | 16+2 | 11 | 4 | SCM-STEFANI | 18000 | 2042 008 |
| 75 | 20 | 16+2 | 11 | 4 | SCM-STEFANI | 18000 | 2042 009 |
| 75 | 30 | 16+2 | 11 | 4 | SCM-STEFANI | 18000 | 2042 010 |
| 80 | 20 | 16+2 | 11 | 4 | SCM-STEFANI | 18000 | 2042 005 |
| 80 | 30 | 16+2 | 11 | 4 | SCM-STEFANI | 18000 | 2042 006 |



MEC



Caratteristiche

Testa con coltelli reversibili in HM per rifilare, spigolare pannelli bordati con legno massiccio o laminati di varie specie per macchine bordatrice semplice o doppia.
 Max rpm 18000

Characteristics

Cutterhead with reversible knives in HM for trimming and chamfering panels edges with solid wood types of laminations, for single or double edge-banding machines.
 Max rpm 18000

RICAMBI

PER ART. 2042001

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 12x12x1,5 | 10x12x7,5 | M6x16 |
| ID nr. | 9503 003 | 9545 003 | 9546 018 |

PER ART. 2042002/003/005/008/009

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 20x12x1,5 | 18x12x7,5 | M6x16 |
| ID nr. | 9503 005 | 9545 005 | 9546 018 |

PER ART. 2042006

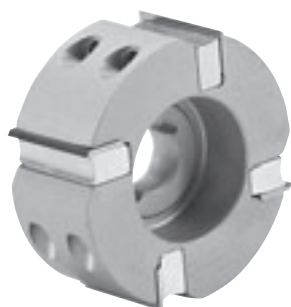
| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | M6x16 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 |

PER ART. 2042007

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 15x12x1,5 | 13x12x7,5 | M6x16 |
| ID nr. | 9503 004 | 9545 004 | 9546 018 |

2043

Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.



| D | B | d+ch | b | Z | MACCHINA | ID nr. DX | ID nr. SX |
|----|----|------|------|---|-------------|-----------------|-----------------|
| 70 | 20 | 16+2 | 12 | 4 | SCM-STEFANI | 2043 007 | 2043 008 |
| 70 | 20 | 20+2 | 11,5 | 6 | FRAVOL | 2043 009 | 2043 010 |
| 72 | 30 | 16+2 | 12 | 4 | SCM-STEFANI | 2043 013 | 2043 014 |
| 80 | 30 | 20+2 | 25,5 | 6 | FRAVOL | 2043 011 | 2043 012 |



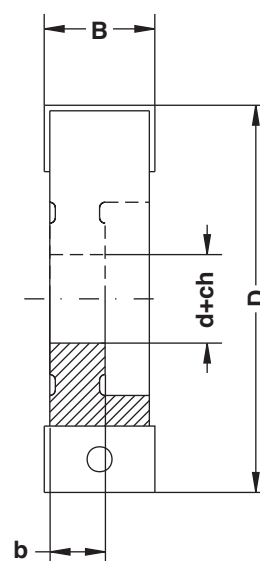
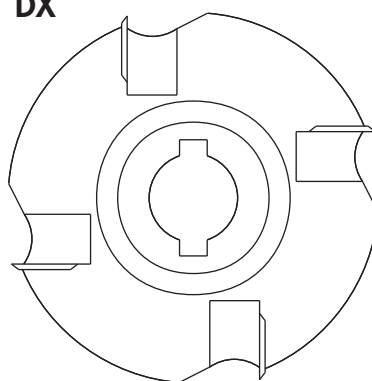
Caratteristiche

Testa con coltelli reversibili per macchine bordatrici per rifilare e spigolare pannelli bordati con legno massiccio o laminati.
 Max rpm 18000

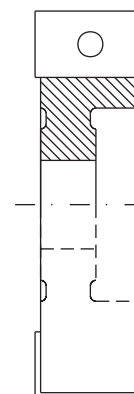
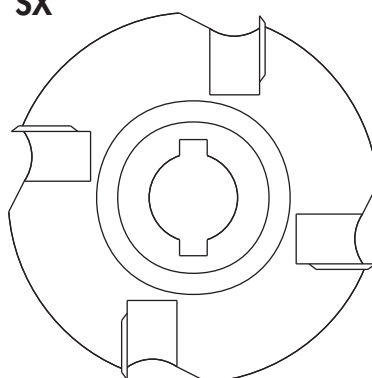
Characteristics

Cutterhead with reversible knives in HM for trimming and chamfering panels edges with solid wood types of laminations.
 Max rpm 18000

DX



SX



RICAMBI

PER ART. 2043007/008/009/010

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 20x12x1,5 | 18x12x7,5 | M6x16 |
| ID nr. | 9503 005 | 9545 005 | 9546 018 |

PER ART. 2043011/012/013/014

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 28x12x7,5 | M6x16 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 |

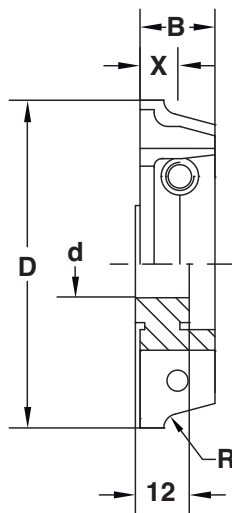
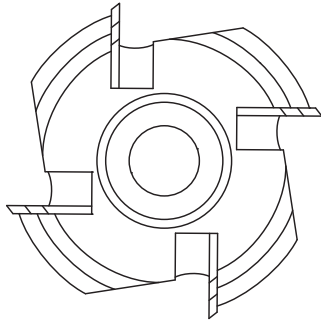
Teste portacoltelli in lega leggera a raggiare per macchine bordatrici Z4.
Cutterheads for rounding on edge-banding machines Z4 in aluminium.
 Têtes porte-couteaux à rayonner pour machines à border Z4 en aluminium.
Wendeplatten-Kanterköpfe Z4 zu Aluminium.
 Cabezales en aleación ligera con cuchillas inclinadas y redondeantes para máquinas canteadoras Z4.

2045

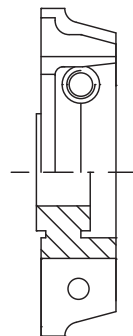
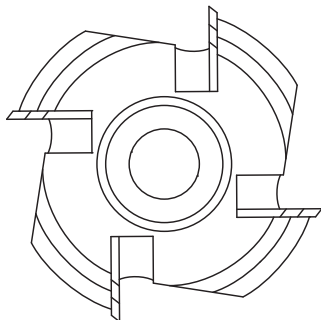
| D | B | d+ch | R | X | Tipo | MACCHINA | ID nr. DX | ID nr. SX |
|----|----|------|---|------|------|--------------------|-----------------|-----------------|
| 75 | 16 | 12 | 2 | 7,8 | 1 | MiniMax | 2045 001 | 2045 002 |
| 75 | 16 | 12 | 2 | 6,85 | 1 | SM.MEC. | 2045 005 | 2045 006 |
| 75 | 16 | 12 | 3 | 7,8 | 1 | MiniMax SM.MEC. | 2045 003 | 2045 004 |
| 75 | 16 | 16+2 | 2 | 14,1 | 2 | SM.MEC. | 2045 007 | 2045 008 |
| 75 | 16 | 16+2 | 2 | 6,6 | 3 | SM.MEC. | 2045 009 | 2045 010 |



DX



SX



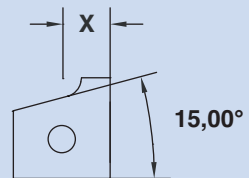
Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

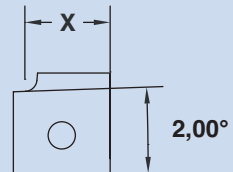
Characteristics

Cutterheads for edge-banding panels in solid wood or various types of laminations.
 Max rpm 18000

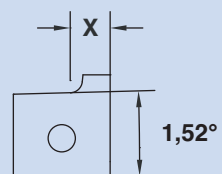
TIPO-1



TIPO-2



TIPO-3

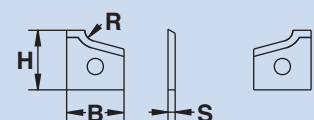


RICAMBI

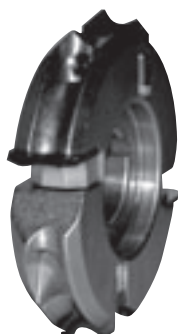
| | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|-------------------------------|------------------|-----------------|-----------------|
| COLTELLI R2 (MiniMax) | 16x17x2 | 9534 001 | 9534 002 |
| COLTELLI R2 (SM.MEC.) | 16x17x2 | 9534 005 | 9534 006 |
| COLTELLI R3 (MiniMax/SM.MEC.) | 16x17x2 | 9534 003 | 9534 004 |
| COLTELLI R2-2° (SM.MEC.) | 16x17x2 | 9534 007 | 9534 008 |
| COLTELLI R2 -1.5° (SM.MEC.) | 16x17x2 | 9534 009 | 9534 010 |
| LARDONI | 13x12x7,5 | 9545 004 | |
| VITI | M6x14 | 9546 017 | |

DX

SX



2071



Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpfe.
 Cabezales con cuchillas para máquinas canteadoras.

| D/min | B | d+ch | b | R | Z | ID nr. DX | ID nr. SX |
|-------|----|------|----|---|---|-----------------|-----------------|
| 70 | 16 | 20+2 | 11 | 1 | 4 | 2071 001 | 2071 002 |
| 70 | 16 | 20+2 | 11 | 2 | 4 | 2071 003 | 2071 004 |
| 70 | 16 | 20+2 | 11 | 3 | 4 | 2071 005 | 2071 006 |



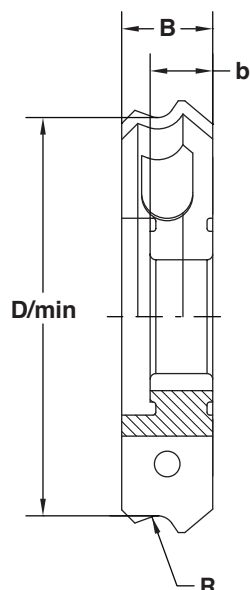
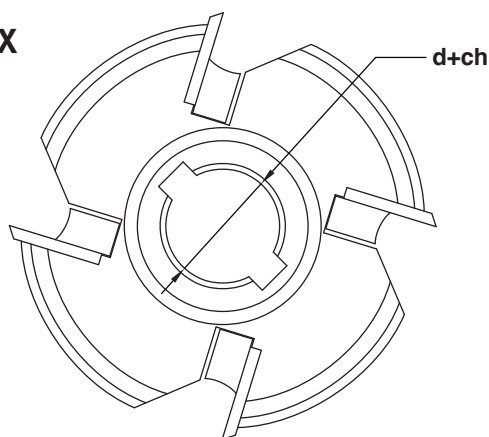
Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

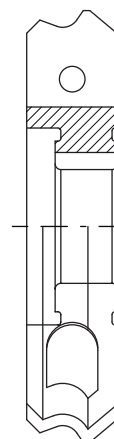
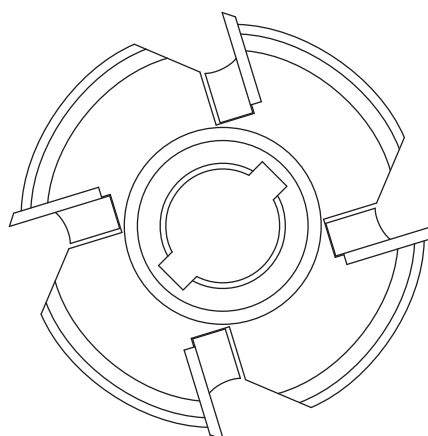
Characteristics

Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000

DX

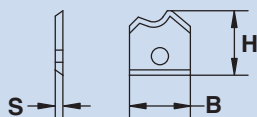


SX



RICAMBI

DX



SX



| | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|-------------|------------------|-----------------|-----------------|
| COLTELLI R1 | 16x17x2 | 9562 001 | 9562 002 |
| COLTELLI R2 | 16x17x2 | 9562 003 | 9562 004 |
| COLTELLI R3 | 16x17x2 | 9562 005 | 9562 006 |
| LARDONI | 13x12x6 | 9545 041 | |
| VITI | M6x14 | 9546 017 | |

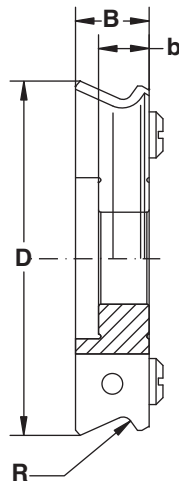
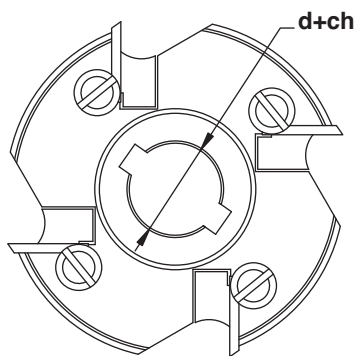
Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.

2072

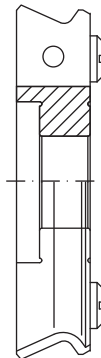
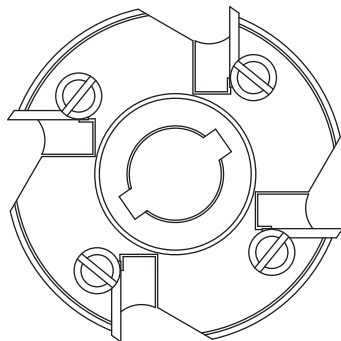
| D | B | d+ch | b | R | Z | ID nr. DX | ID nr. SX |
|----|----|------|----|---|---|-----------------|-----------------|
| 77 | 16 | 20+2 | 11 | 2 | 4 | 2072 001 | 2072 002 |
| 77 | 16 | 20+2 | 11 | 3 | 4 | 2072 003 | 2072 004 |



DX



SX



Caratteristiche

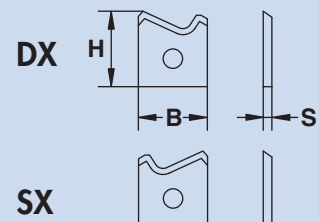
Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

Characteristics

Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000

RICAMBI

| | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|-------------|------------------|-----------------|-----------------|
| COLTELLI R2 | 16x17,5x2 | 9563 001 | 9563 002 |
| COLTELLI R3 | 16x17,5x2 | 9563 003 | 9563 004 |
| LARDONI | 13x12x7,5 | 9545 004 | |
| VITI | M6x14 | 9546 017 | |



2046



Teste portacoltelli a raggiare per macchine bordatrici Z6.
Cutterheads for rounding on edge-banding machines Z6.
 Têtes porte-couteaux à rayonner pour machines à border Z6.
Wendepplatten-Kanterköpfe Z6.

Cabezales con cuchillas inclinadas y redondeantes para máquinas canteadoras Z6.

| D | D/min | B | d+ch | R | b | MACCHINA | ID nr. DX | ID nr. SX |
|----|-------|----|------|---|------|-------------|-----------------|-----------------|
| 70 | 60 | 20 | 20+2 | 2 | 13,5 | SCM-STEFANI | 2046 001 | 2046 002 |
| 70 | 60 | 20 | 20+2 | 3 | 13,5 | SCM-STEFANI | 2046 003 | 2046 004 |



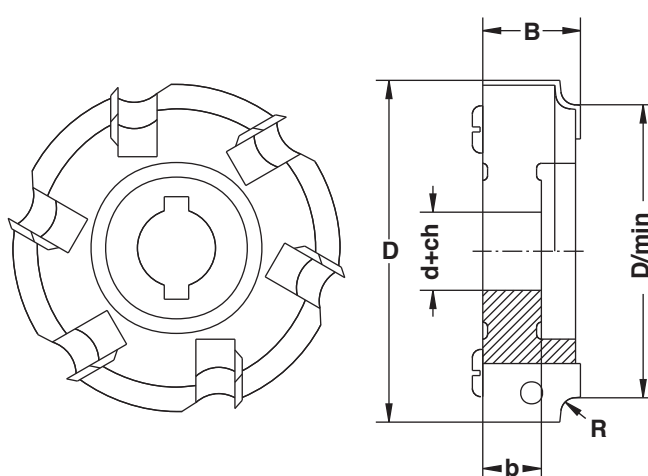
Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

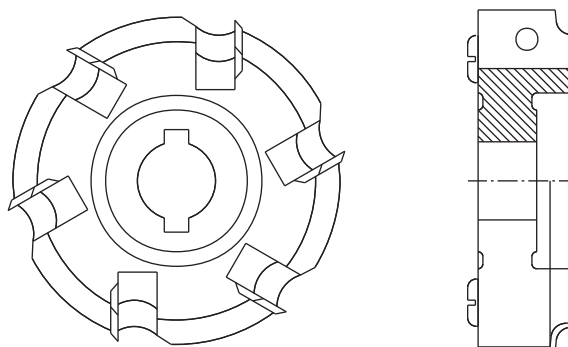
Characteristics

Cutterheads for edge-banding panels in solid wood or various types of laminations.
 Max rpm 18000

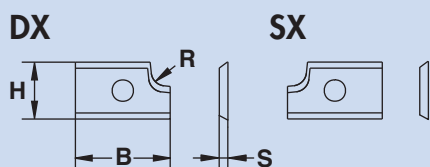
DX



SX



RICAMBI



| | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|-------------|------------------|-----------------|-----------------|
| COLTELLI R1 | 20x12x1,5 | 9535 001 | 9535 002 |
| COLTELLI R2 | 20x12x1,5 | 9535 003 | 9535 004 |
| COLTELLI R3 | 18x12x7,5 | 9545 031 | 9545 032 |
| VITI | M6x16 | 9546 018 | |

Teste portacoltelli per bordatrici, doppio raggio.

Cutterheads for edge-banding machines, double radius.

Têtes porte-couteaux pour machines à border, double rayon.

Wendeplatten-Kanterköpf, Doppel Strahl.

Cabezales con cuchillas para máquinas canteadoras, doble radio.

2047

| D/min | B | d+ch | b | R | Z | MACCHINA | ID nr. |
|-------|----|------|----|-----|---|-------------|-----------------|
| 60 | 16 | 16+2 | 12 | 1 | 4 | SCM-STEFANI | 2047 024 |
| 60 | 16 | 16+2 | 12 | 1,5 | 4 | SCM-STEFANI | 2047 021 |
| 60 | 16 | 16+2 | 12 | 2 | 4 | SCM-STEFANI | 2047 001 |
| 60 | 16 | 16+2 | 12 | 3 | 4 | SCM-STEFANI | 2047 002 |
| 60 | 16 | 16+2 | 12 | 4 | 4 | SCM-STEFANI | 2047 003 |
| 60 | 16 | 16+2 | 12 | 5 | 4 | SCM-STEFANI | 2047 004 |
| 61 | 16 | 16+2 | 10 | 2 | 4 | HOMAG | 2047 005 |
| 61 | 16 | 16+2 | 10 | 3 | 4 | HOMAG | 2047 006 |
| 61 | 16 | 16+2 | 10 | 4 | 4 | HOMAG | 2047 007 |
| 61 | 16 | 16+2 | 10 | 5 | 4 | HOMAG | 2047 008 |
| 61,3 | 16 | 16+2 | 10 | 2 | 4 | SCM | 2047 017 |
| 61,3 | 16 | 16+2 | 10 | 3 | 4 | SCM | 2047 018 |
| 61,3 | 16 | 16+2 | 10 | 4 | 4 | SCM | 2047 019 |
| 61,3 | 16 | 16+2 | 10 | 5 | 4 | SCM | 2047 020 |
| 70 | 16 | 16+2 | 12 | 2 | 4 | SCM | 2047 009 |
| 70 | 16 | 16+2 | 12 | 3 | 4 | SCM | 2047 010 |
| 70 | 16 | 16+2 | 12 | 4 | 4 | SCM | 2047 011 |
| 70 | 16 | 16+2 | 12 | 5 | 4 | SCM | 2047 012 |
| 70 | 16 | 16+2 | 12 | 2 | 4 | SCM-STEFANI | 2047 013 |
| 70 | 16 | 16+2 | 12 | 3 | 4 | SCM-STEFANI | 2047 014 |
| 70 | 16 | 16+2 | 12 | 4 | 4 | SCM-STEFANI | 2047 015 |
| 70 | 16 | 16+2 | 12 | 5 | 4 | SCM-STEFANI | 2047 016 |
| 72 | 16 | 16+2 | 12 | 1,5 | 4 | SCM-STEFANI | 2047 025 |
| 72 | 16 | 16+2 | 12 | 2 | 4 | SCM-STEFANI | 2047 022 |
| 72 | 16 | 16+2 | 12 | 3 | 4 | SCM-STEFANI | 2047 023 |

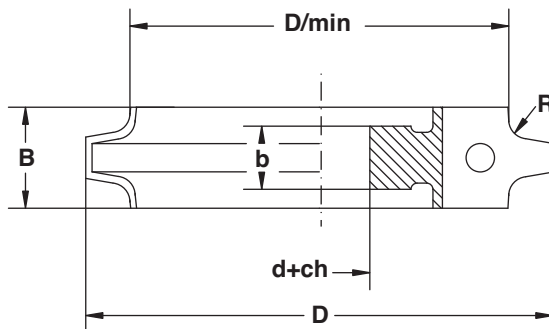


Caratteristiche

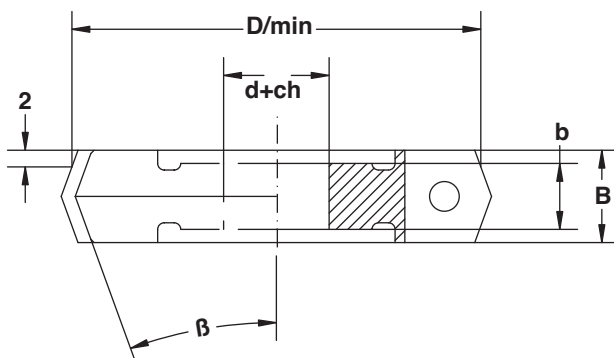
Testa portacoltelli DX-SX per raccordare pannelli bordati.
Max rpm 18000

Characteristics

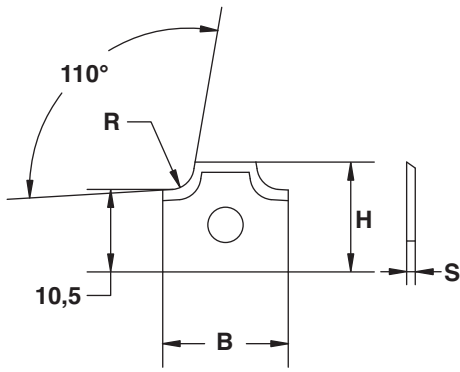
Cutterhead RIGHT-LEFT for edged panels.
Max rpm 18000



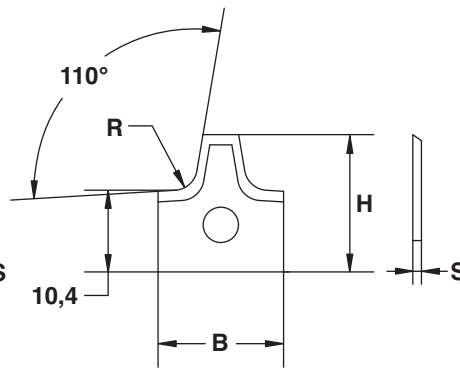
| D/min | B | d+ch | b | β | Z | MACCHINA | ID nr. |
|-------|----|------|----|---------|---|-------------|-----------------|
| 60 | 16 | 16+2 | 12 | 20° | 4 | SCM-STEFANI | 2047 101 |



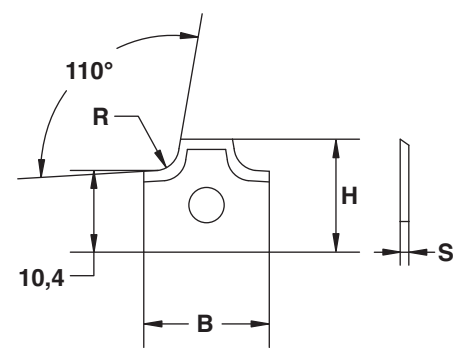
TIPO - A



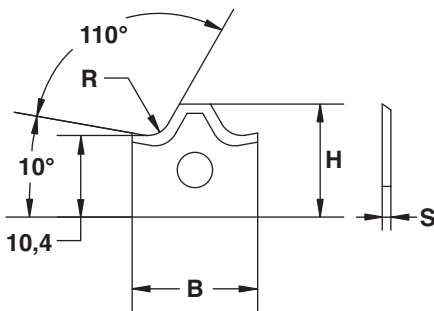
TIPO - B



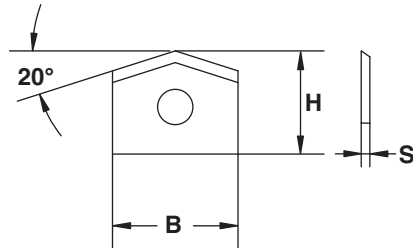
TIPO - C



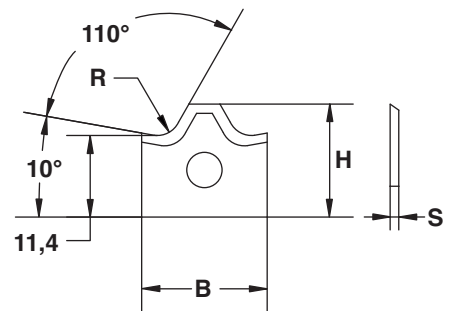
TIPO - D
per lavorazione
su albero inclinato



TIPO - E



TIPO - F
per lavorazione
su albero inclinato



RICAMBI

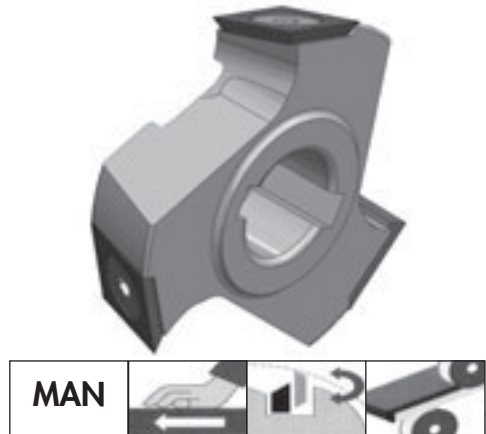
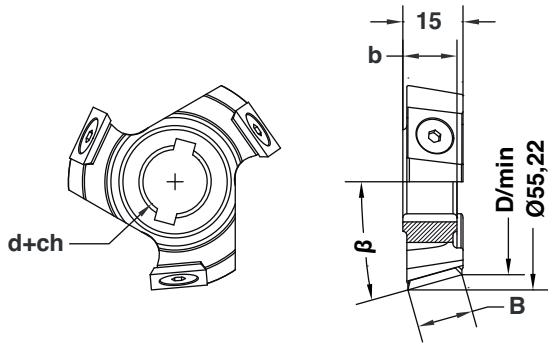
N.B.: NELL'ORDINE INDICARE CODICE E RAGGIO / ATTENTION: PLEASE SPECIFY BSP CODE AND RADIUS IN YOUR ORDER

| TIPO - A PER ART. 2047009/010/011/012 | COLTELLI | LARDONI | VITI |
|---|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 16x14x2 | 13x12x6 | M6x12 |
| ID nr. | 9536 001 | 9545 041 | 9546 016 |
| TIPO - B PER ART. 2047005/006/007/008/017/018/019/020 | COLTELLI | LARDONI | VITI |
| Dimensioni BxHxS | 16x17,5x2 | 13x12x6 | M6x12 |
| ID nr. | 9536 002 | 9545 041 | 9546 016 |
| TIPO - C PER ART. 2047001/002/003/004/021/024 | COLTELLI | LARDONI | VITI |
| Dimensioni BxHxS | 16x13,4x2 | 13x12x6 | M6x12 |
| ID nr. | 9536 003 | 9545 041 | 9546 016 |
| TIPO - D PER ART. 2047013/014/015/016 | COLTELLI | LARDONI | VITI |
| Dimensioni BxHxS | 16x14,4x2 | 13x12x6 | M6x12 |
| ID nr. | 9536 004 | 9545 041 | 9546 016 |
| TIPO - E PER ART. 2047101 | COLTELLI | LARDONI | VITI |
| Dimensioni BxHxS | 16x13,15x2 | 13x12x6 | M6x12 |
| ID nr. | 9536 101 | 9545 041 | 9546 016 |
| TIPO - F PER ART. 2047022/023/025 | COLTELLI | LARDONI | VITI |
| Dimensioni BxHxS | 16x14,4x2-20° | 13x12x6 | M6x12 |
| ID nr. | 9536 005 | 9545 041 | 9546 016 |

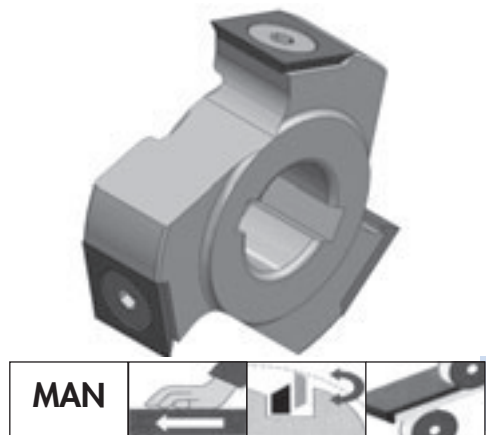
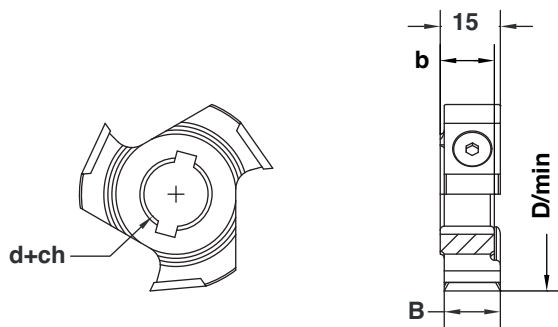
Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.

2081

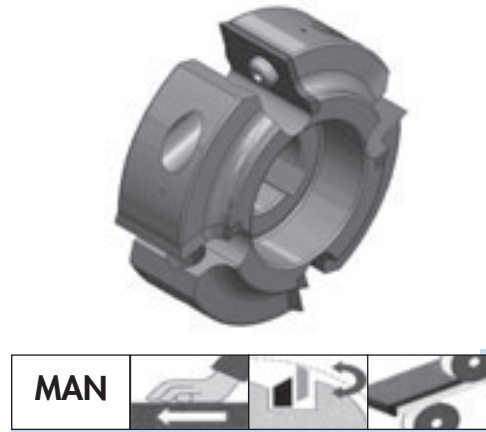
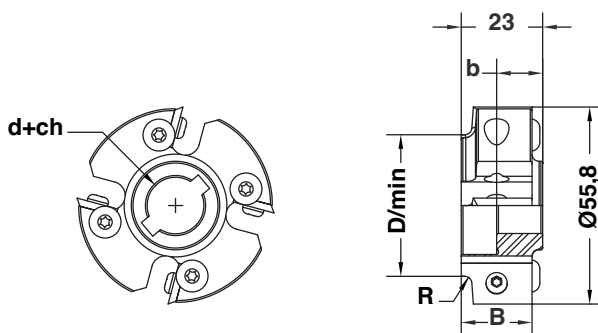
| D/min | B | d+ch | b | β | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|------|---------|---|----------|-----------------|-----------------|
| 48 | 14 | 16+2 | 13,5 | 15 | 3 | SCM | 2081 001 | 2081 002 |



| D/min | B | d+ch | b | - | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|------|---|---|----------|-----------------|-----------------|
| 48 | 14 | 16+2 | 13,5 | - | 3 | SCM | 2081 011 | 2081 012 |



| D/min | B | d+ch | b | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|----|---|---|----------|-----------------|-----------------|
| 40 | 20 | 16+2 | 13 | 2 | 4 | SCM | 2081 021 | 2081 022 |
| 40 | 20 | 16+2 | 13 | 3 | 4 | SCM | 2081 023 | 2081 024 |



Caratteristiche

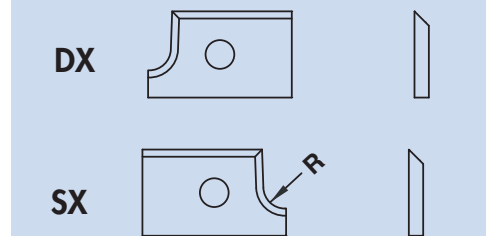
Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

Characteristics

Cutterhead for edged panels in solid wood or various types of laminations.
 Max rpm 18000

RICAMBI

| PER ART. | 2081001 ÷ 012 | | 2081021 ÷ 024 | |
|------------|---------------------|-----------------|--------------------------|-----------------|
| Dimensione | COLTELLI 14x14x2 | VITI M5x6 | COLTELLI-RAGG 12x20x2 | VITI M3,5x6 |
| ID nr. | 9508 002 | 9546 004 | 9575 | 9546 006 |

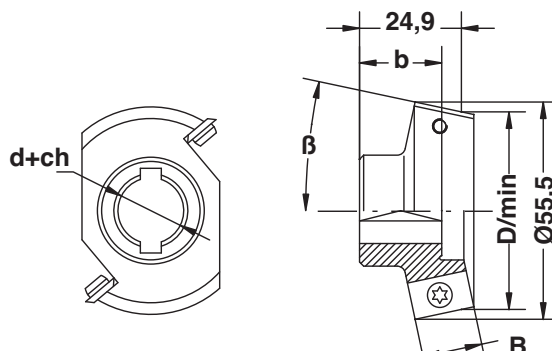


2051

Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.



| D/min | B | d+ch | b | β | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|------|------|----|---------|---|-------------|-----------------|-----------------|
| 48 | 14,6 | 16+2 | 20 | 12° | 2 | SCM-STEFANI | 2051 001 | 2051 002 |
| 48 | 14,6 | 16+2 | 20 | 12° | 3 | SCM-STEFANI | 2051 003 | 2051 004 |



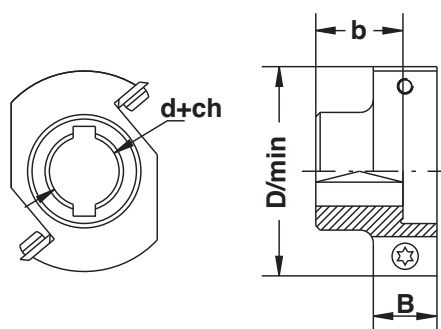
| D/min | B | d+ch | b | - | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|------|------|----|---|---|-------------|-----------------|-----------------|
| 48 | 14,6 | 16+2 | 20 | - | 2 | SCM-STEFANI | 2051 011 | 2051 012 |
| 48 | 14,6 | 16+2 | 20 | - | 3 | SCM-STEFANI | 2051 013 | 2051 014 |

Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

Characteristics

Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000



Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.

2051

| D/min | B | d+ch | b | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|----|-----|---|-------------|-----------------|-----------------|
| 48 | 15 | 16+2 | 20 | 1,0 | 2 | SCM-STEFANI | 2051 021 | 2051 022 |
| 48 | 15 | 16+2 | 20 | 1,5 | 2 | SCM-STEFANI | 2051 023 | 2051 024 |
| 48 | 15 | 16+2 | 20 | 2,0 | 2 | SCM-STEFANI | 2051 025 | 2051 026 |
| 48 | 15 | 16+2 | 20 | 2,5 | 2 | SCM-STEFANI | 2051 027 | 2051 028 |
| 48 | 15 | 16+2 | 20 | 3,0 | 2 | SCM-STEFANI | 2051 029 | 2051 030 |
| 48 | 15 | 16+2 | 20 | 1,0 | 3 | SCM-STEFANI | 2051 031 | 2051 032 |
| 48 | 15 | 16+2 | 20 | 1,5 | 3 | SCM-STEFANI | 2051 033 | 2051 034 |
| 48 | 15 | 16+2 | 20 | 2,0 | 3 | SCM-STEFANI | 2051 035 | 2051 036 |
| 48 | 15 | 16+2 | 20 | 2,5 | 3 | SCM-STEFANI | 2051 037 | 2051 038 |
| 48 | 15 | 16+2 | 20 | 3,0 | 3 | SCM-STEFANI | 2051 039 | 2051 040 |



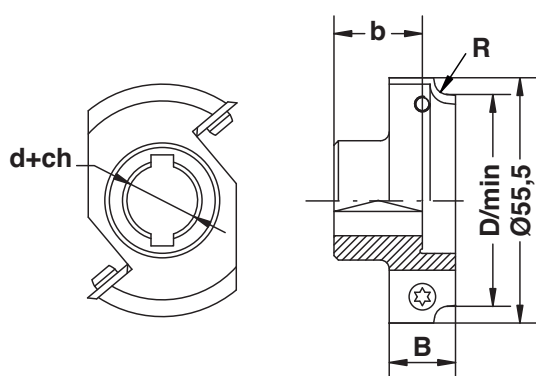
MEC

Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

Characteristics

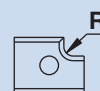
Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000



RICAMBI

| PER ART. | 2051001 ÷ 014 | | 2051021 ÷ 40 | |
|------------|----------------------|-----------------|----------------------------|-----------------|
| Dimensione | COLTELLI 15x9x1,5 | VITI M3,5x6 | COLTELLI-RAGG 15x12x1,5 | VITI M3,5x6 |
| ID nr. | 9506 004 | 9546 025 | 9553 | 9546 025 |

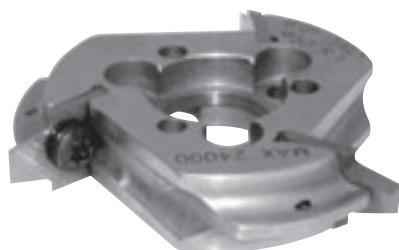
DX



SX

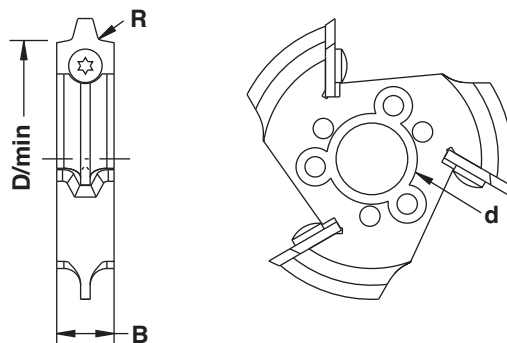


2052



Teste portacoltelli per macchine bordatrici.
Cutterheads for edge-banding machines.
 Têtes porte-couteaux pour machines à border.
Wendeplatten-Kanterköpf.
 Cabezales con cuchillas para máquinas canteadoras.

| D/min | B | d | R | Z | MACCHINA | ID nr. |
|-------|----|--------|-----|---|------------|-----------------|
| 50 | 12 | 19+3+3 | 1,5 | 3 | MORBIDELLI | 2052 003 |
| 50 | 12 | 19+3+3 | 2,0 | 3 | MORBIDELLI | 2052 004 |
| 50 | 12 | 19+3+3 | 3,0 | 3 | MORBIDELLI | 2052 006 |
| 50 | 12 | 19+3+3 | 4,0 | 3 | MORBIDELLI | 2052 008 |
| 50 | 15 | 19+3+3 | 5,0 | 3 | MORBIDELLI | 2052 010 |



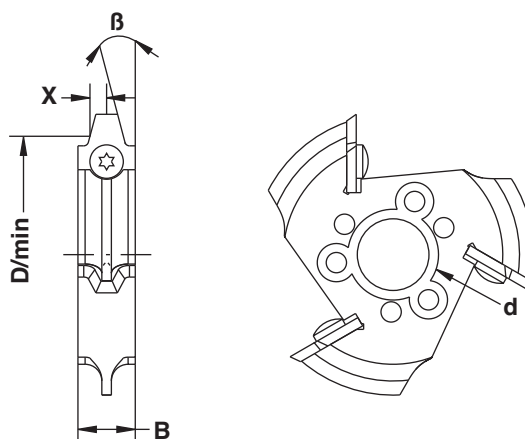
Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

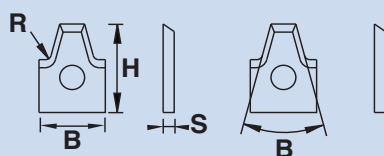
Characteristics

Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000

| D/min | B | d | β | Z | MACCHINA | ID nr. |
|-------|----|--------|---------|---|------------|-----------------|
| 50 | 12 | 19+3+3 | 15° | 3 | MORBIDELLI | 2052 021 |
| 50 | 12 | 19+3+3 | 45° | 3 | MORBIDELLI | 2052 022 |
| 50 | 12 | 19+3+3 | 30° | 3 | MORBIDELLI | 2052 023 |



RICAMBI

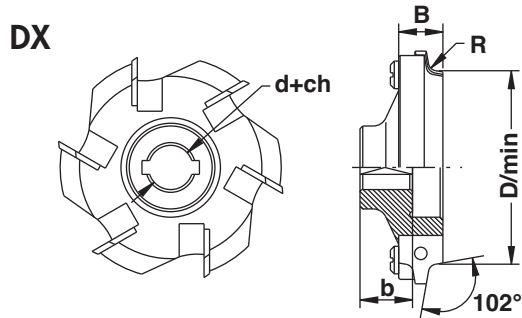


| COLTELLI | BxHxS | ID nr. | COLTELLI | BxHxS | ID nr. |
|----------|---------|-----------------|-------------|---------|-----------------|
| R1,5 | 12x20x2 | 9551 003 | β 30° | 12x20x2 | 9551 021 |
| R2,0 | 12x20x2 | 9551 004 | β 45° | 12x20x2 | 9551 022 |
| R3,0 | 12x20x2 | 9551 006 | β 60° | 12x20x2 | 9551 023 |
| R4,0 | 12x20x2 | 9551 008 | VITI | M3,5x6 | 9546 006 |
| R5,0 | 15x20x2 | 9551 010 | | | |

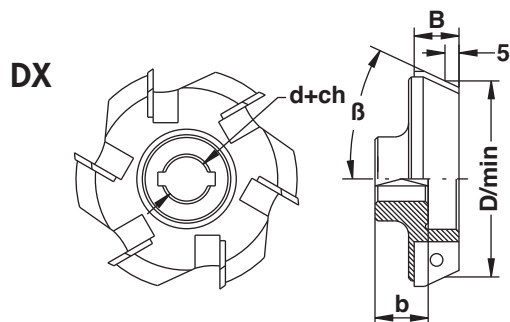
Teste portacoltelli in lega leggera per macchine bordatrici.
Cutterheads in aluminium for edge-banding machines.
 Têtes porte-couteaux en aluminium pour machines à border.
Wendeplatten-Kanterköpfe zu Aluminium.
 Cabezales en aleación ligera con cuchillas para máquinas canteadoras.

2054

| D/min | B | d+ch | b | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|----|-----|---|----------|-----------------|-----------------|
| 70 | 16 | 16+2 | 19 | 1,5 | 6 | BIESSE | 2054 001 | 2054 002 |
| 70 | 16 | 16+2 | 19 | 2,0 | 6 | BIESSE | 2054 003 | 2054 004 |
| 70 | 16 | 16+2 | 19 | 3,0 | 6 | BIESSE | 2054 005 | 2054 006 |
| 70 | 16 | 16+2 | 19 | 4,0 | 6 | BIESSE | 2054 007 | 2054 008 |
| 70 | 16 | 16+2 | 19 | 5,0 | 6 | BIESSE | 2054 009 | 2054 010 |



| D/min | B | d+ch | b | β | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|----|-----|---|----------|-----------------|-----------------|
| 70 | 16 | 16+2 | 19 | 25° | 6 | BIESSE | 2054 021 | 2054 022 |



Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.
 Max rpm 18000

Characteristics

Cutterheads for edged panels in solid wood or various types of laminations.
 Max rpm 18000

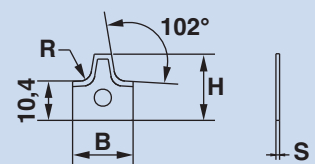
RICAMBI

PER ART. 2054001÷010

| | COLTELLI | LARDONI | VITI |
|------------------|-------------------|-----------------|-----------------|
| Dimensioni BxHxS | 16x17,5x2 | 13x12x6 | M6x12 |
| ID nr. | 9554 001÷5 | 9545 041 | 9546 016 |

PER ART. 2054021÷022

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 16x15,7x2 | 13x12x6 | M6x12 |
| ID nr. DX | 9554 011 | 9545 041 | 9546 016 |
| ID nr. SX | 9554 012 | - | - |



2059



Teste portacoltelli in lega leggera per macchine bordatrici.
Cutterheads in aluminium for edge-banding machines.
 Têtes porte-couteaux en aluminium pour machines à border.
Wendeplatten-Kanterköpfe zu Aluminium.
 Cabezales en aleación ligera con cuchillas para máquinas canteadoras.

| D/min | B | d+ch | b | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|----|---|----------|-----------------|-----------------|
| 70 | 20 | 20+2 | 22 | 6 | BIESSE | 2059 001 | 2059 002 |
| 80 | 20 | 20+2 | 22 | 6 | BIESSE | 2059 003 | 2059 004 |
| 80 | 30 | 20+2 | 22 | 6 | BIESSE | 2059 005 | 2059 006 |



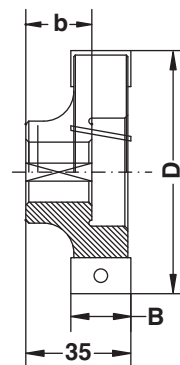
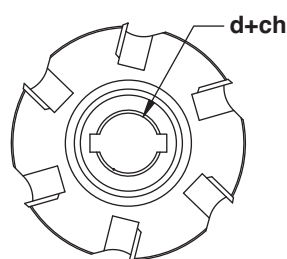
Caratteristiche

Testa con coltelli reversibili in HM per rifilare, spigolare pannelli bordati con legno massiccio o laminati di varie specie per macchine bordatrice semplice o doppia.
 Max rpm 18000

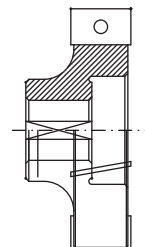
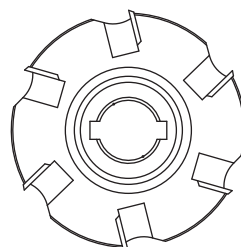
Characteristics

Cutterhead with reversible knives in HM for trimming and chamfering panels edges with solid wood types of laminations, for single or double edge-banding machines.
 Max rpm 18000

DX



SX



RICAMBI

PER ART. 2059001/002/003/004

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 20x12x1,5 | 18x12x7,5 | M6x16 |
| ID nr. | 9503 005 | 9545 005 | 9546 018 |

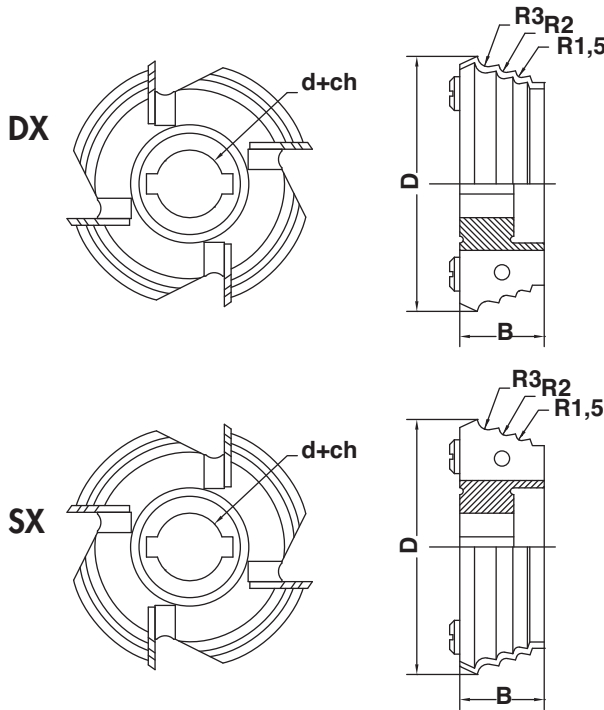
PER ART. 2059005/006

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x12x1,5 | 28x12x7,5 | M6x16 |
| ID nr. | 9503 006 | 9545 006 | 9546 018 |

Testa combinata portacoltelli per macchine bordatrici.
Cutterhead for edge-banding machines.
 Tête port-couteaux pour machines à border.
Messerkopf für Wendeplatten.
 Cabezal combinados con cuchillas para máquinas canteadoras.

2056

| D | B | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|------|------------------|---|----------|-----------------|-----------------|
| 75,50 | 25 | 20+2 | DIR. 1,5-2,0-3,0 | 4 | BIESSE | 2056 011 | 2056 012 |



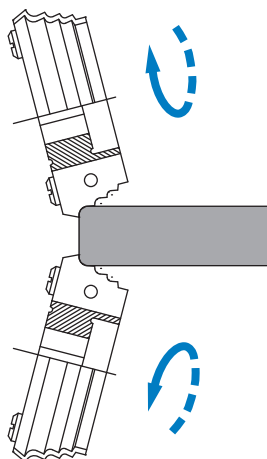
Caratteristiche

Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati, con la possibilità di eseguire diversi raggi senza dovere cambiare utensile.
 Max rpm 18000

Characteristics

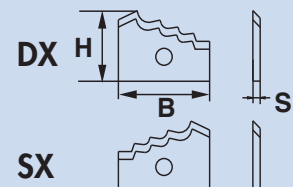
Cutterheads for edged in solid wood or various types of laminations, for execution of different radius without changing the tool.
 Max rpm 18000

ESEMPIO DI LAVORAZIONE



RICAMBI

| | Dimensioni BxHxS | ID nr. DX | ID nr. SX |
|----------|------------------|-----------------|-----------------|
| COLTELLI | 25x18,7x2 | 9556 001 | 9556 002 |
| LARDONI | 23,5x10x7,5 | 9545 071 | |
| VITI | M6x14 | 9546 017 | |



2048



Utensile raschiabordo per macchine bordatrici.

Scraper for edge-banding machines.

Racler pour machine à border.

Schaber für Wendeplatten.

Utensilio rascador de bordes para máquinas canteadoras.

| Denominazione | ID nr. |
|----------------------------------|-----------------|
| RASCHIETTO COMPLETO SENZA SLITTA | 2048 002 |



Caratteristiche

Utensile per macchina bordatrice per togliere spigoli sul pannello.

Viene fornito di placchetta e supporto placchetta (completo di staffa e vite).

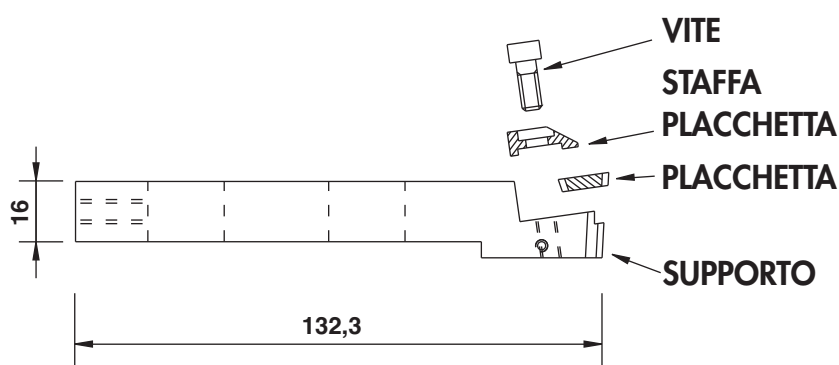
Secondo le necessità viene fornito completo di slitta.

Characteristics

Tool for edge-banding machines to remove edges from the panels.

It is supplied with tool bit and support (complete of bracket and screw).

If it is necessary it is supplied complete of slide.



RICAMBI

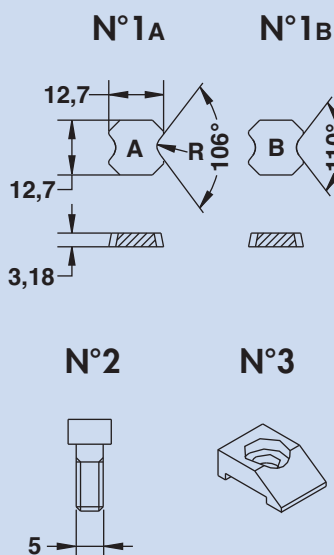
PER MACCHINE SCM

| FIGURA N° 1/A | Placchetta 12,7x12,7x3,18 SAGOMATA 106° | | | |
|---------------|---|-----------------|-----------------|-----------------|
| RAGGIO | 1 | 1,5 | 2 | 3 |
| ID nr. | 9550 001 | 9550 002 | 9550 003 | 9550 004 |

PER MACCHINE BIESSE

| FIGURA N° 1/B | Placchetta 12,7x12,7x3,18 SAGOMATA 110° | | | |
|---------------|---|-----------------|-----------------|-----------------|
| RAGGIO | 1 | 1,5 | 2 | 3 |
| ID nr. | 9550 101 | 9550 102 | 9550 103 | 9550 104 |

| FIGURA N° 2/3 | Denominazione | ID nr. |
|---------------|-------------------|-----------------|
| N° 2 | VITE M5x12 | 2048 052 |
| N° 3 | STAFFA PLACCHETTA | 2048 053 |



Utensile raschiabordo per macchine bordatrici.

Scraper for edge-banding machines.

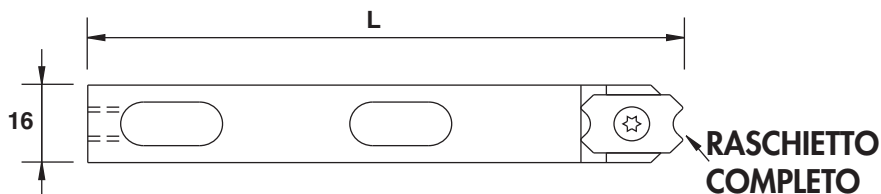
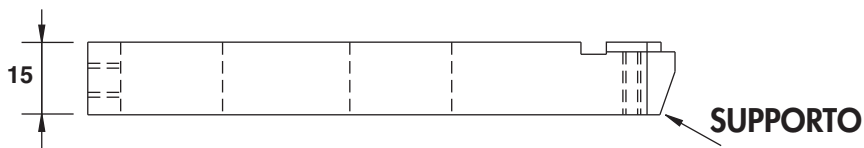
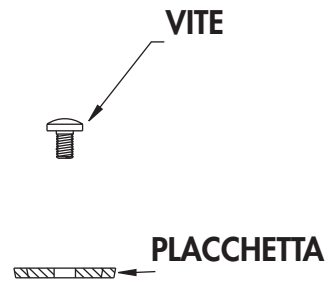
Raclar pour machine à border.

Schaber für Wendeplatten.

Utensilio rascador de bordes para máquinas canteadoras.

2057

| Denominazione | MACCHINA | L | ID nr. |
|---------------------|----------|-----|-----------------|
| RASCHIETTO COMPLETO | HOLZER | 117 | 2057 001 |
| RASCHIETTO COMPLETO | SCM | 133 | 2057 002 |



Caratteristiche

Utensile per macchina bordatrice per togliere spigoli sul pannello. Viene fornito di placchetta e supporto placchetta completo di vite.

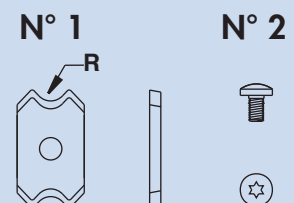
Characteristics

Tool for edge-banding machines to remove edges from the panels. It is supplied with tool bit and support complete of screw.

RICAMBI

| FIGURA N° 1 | PLACCHETTA 20x12x2 SAGOMATA | | | |
|-------------|-----------------------------|-----------------|-----------------|-----------------|
| RAGGIO | 1 | 1,5 | 2 | 3 |
| ID nr. | 9550 201 | 9550 202 | 9550 203 | 9550 204 |

| FIGURA N° 2 | Denominazione | ID nr. |
|-------------|---------------|-----------------|
| N° 2 | VITE M3,5x6 | 9546 006 |



2058

Utensile raschiabordo MULTIRAGGIO per macchine bordatrici.
Scraper MULTIRADIUS for edge-banding machines.
 Racler MULTIRAYON pour machine à border.
 Schaben MULTIRADIUS für Wendeplatten.
 Utensilio rascador de bordes MULTIRADIO para máquinas canteadoras.



Caratteristiche

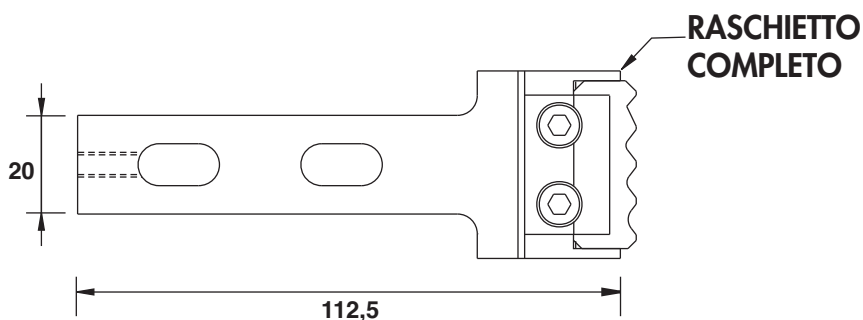
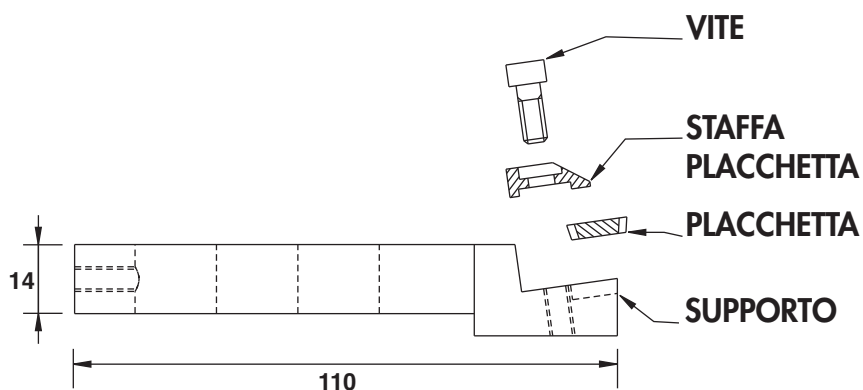
Raschietto per macchina bordatrice per togliere spigoli sul pannello, permette di ottenere diversi tipi di raggi senza cambiare l'utensile.

Viene fornito di placchetta e supporto placchetta completo di staffa e viti.

Characteristics

Scraper for edge-banding machines to remove angels from panels, for execution of different radius without change the tool.
 It is supplied with tool bit and support complete bracket and srew.

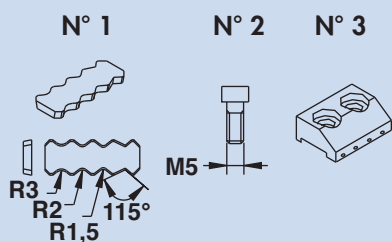
| Denominazione | MACCHINA | ID nr. |
|--------------------------------|----------|-----------------|
| RASCHIETTO MULTIRAGGIOCOMPLETO | SCM | 2058 001 |



RICAMBI

| FIGURA N° 1 | PLACCHETTA 20x12x2 SAGOMATA | | | |
|-------------|-----------------------------|------------------|------------------|------------------|
| RAGGIO | 1,0-2,0-3,0-115° | 1,5-2,0-3,0-115° | 2,0-3,0-5,0-115° | 1,5-2,0-2,5-115° |
| ID nr. | 9550 301 | 9550 302 | 9550 303 | 9550 304 |

| FIGURA N° 2 | Denominazione | ID nr. |
|-------------|-----------------------|-----------------|
| N° 2 | VITE M5x12 | 2048 052 |
| N° 3 | STAFFA PER PLACCHETTA | 2058 051 |




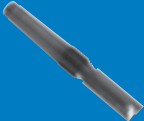





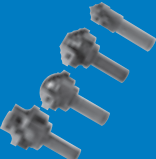




Evolved **Experience**



Frese per Pantografo Profile Routers for Pantograph

Frese per Pantografo Profile Routers for Pantograph

| | | |
|---|---|--------------|
|  | <u>Punte scolpitrici</u> Engraving drills | <u>P 157</u> |
|  | <u>Frese per forare e contornare in HM</u> Cutters in HM for boring and bordering | <u>P 162</u> |
|  | <u>Frese sagomate a disegno</u> Cutters shaped from drawings | <u>P 163</u> |
|  | <u>Frese per forare e contornare in HM integrale</u> Cutters in integral HM for boring and bordering | <u>P 169</u> |
|  | <u>Teste per forare e contornare a coltellini</u> Cutterheads with knives for boring and bordering | <u>P 183</u> |
|  | <u>Teste multiprofilati</u> Multiprofile Cutterheads | <u>P 199</u> |
|  | <u>Teste sagomate a disegno</u> Cutterheads shaped from drawings | <u>P 207</u> |
|  | <u>Teste per antine</u> Cutterheads for cabinet doors | <u>P 211</u> |
|  | <u>Teste a raggiare</u> Radius cutterheads | <u>P 219</u> |
|  | <u>Gruppo per la squadratura di porte Z2.</u> Group for the squaring of doors Z2. | <u>P 230</u> |

Punte in HSS per scolpitrici a testa piana Z1.

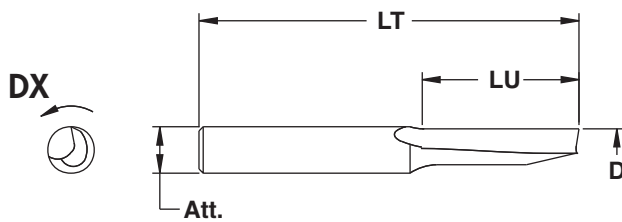
Drills in HSS for carving machines Z1.

Mèches en HSS à sculpter fond plat Z1.

Bohrer HSS für Schintzmaschinen Z1.

Brocas en HSS para copiadora de talla con cabeza plana Z1.

| D | LU | LT | Att. | Z | rpm | ID nr. DX | ID nr. SX |
|----|----|----|--------|---|-------|-----------------|-----------------|
| 2 | 10 | 90 | Ø11x50 | 1 | 24000 | 3001 001 | 3001 002 |
| 3 | 14 | 90 | Ø11x50 | 1 | 24000 | 3001 003 | 3001 004 |
| 4 | 17 | 90 | Ø11x50 | 1 | 24000 | 3001 005 | 3001 006 |
| 5 | 22 | 90 | Ø11x50 | 1 | 24000 | 3001 007 | 3001 008 |
| 6 | 26 | 90 | Ø11x50 | 1 | 24000 | 3001 009 | 3001 010 |
| 8 | 32 | 90 | Ø11x50 | 1 | 24000 | 3001 011 | 3001 012 |
| 10 | 37 | 90 | Ø11x50 | 1 | 24000 | 3001 013 | 3001 014 |
| 12 | 40 | 90 | Ø11x50 | 1 | 24000 | 3001 015 | 3001 016 |
| 14 | 40 | 90 | Ø11x50 | 1 | 24000 | 3001 017 | 3001 018 |
| 16 | 40 | 90 | Ø11x50 | 1 | 24000 | 3001 019 | 3001 020 |



3001



MEC



Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°1 tagliente diritto spogliato eccentricamente.

Characteristics

Execution in HSS for not glued soft and hard woods with N°1 straight cutting edge eccentrically grinded.

3002

Punte in HSS per scolpitrici a testa piana Z2.

Drills in HSS for carving machines Z2.

Mèches en HSS à sculpter fond plat Z2.

Bohrer HSS für Schintzmaschinen Z2.

Brocas en HSS para copiadora de talla con cabeza plana Z2.



| D | LU | LT | Att. | Z | rpm | ID nr. DX | ID nr. SX |
|----|----|----|--------|---|-------|-----------------|-----------------|
| 10 | 37 | 90 | ∅11x50 | 2 | 24000 | 3002 001 | 3002 002 |
| 12 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 003 | 3002 004 |
| 14 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 005 | 3002 006 |
| 16 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 007 | 3002 008 |
| 18 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 009 | 3002 010 |
| 20 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 011 | 3002 012 |
| 22 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 013 | 3002 014 |
| 24 | 40 | 90 | ∅11x50 | 2 | 24000 | 3002 015 | 3002 016 |

MEC

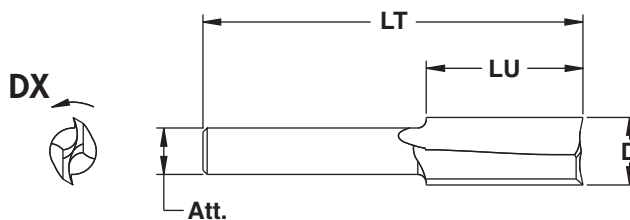


Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°2 taglienti assialmente inclinati con grande scarto sul dorso, per facilitare lo scarico del truciolo.

Characteristics

Execution in HSS for not glued soft and hard woods with N°2 shear angle cutting edges, back grinding for easier chip clearance.



Punte per scolpitrici a testa tonda Z1 in HSS.

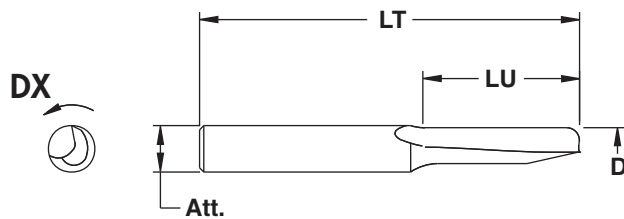
Drills in HSS for carving machines Z1.

Mèches en HSS à sculpter fond arrondi Z1.

Bohrer HSS für Schintzmaschinen Z1.

Brocas en HSS para copiadora de talla con cabeza redonda Z1.

| D | LU | LT | Att. | Z | rpm | ID nr. DX | ID nr. SX |
|----|----|----|--------|---|-------|-----------------|-----------------|
| 2 | 10 | 90 | Ø11x50 | 1 | 24000 | 3003 001 | 3003 002 |
| 3 | 14 | 90 | Ø11x50 | 1 | 24000 | 3003 003 | 3003 004 |
| 4 | 17 | 90 | Ø11x50 | 1 | 24000 | 3003 005 | 3003 006 |
| 5 | 22 | 90 | Ø11x50 | 1 | 24000 | 3003 007 | 3003 008 |
| 6 | 26 | 90 | Ø11x50 | 1 | 24000 | 3003 009 | 3003 010 |
| 8 | 32 | 90 | Ø11x50 | 1 | 24000 | 3003 011 | 3003 012 |
| 10 | 37 | 90 | Ø11x50 | 1 | 24000 | 3003 013 | 3003 014 |
| 12 | 40 | 90 | Ø11x50 | 1 | 24000 | 3003 015 | 3003 016 |
| 14 | 40 | 90 | Ø11x50 | 1 | 24000 | 3003 017 | 3003 018 |
| 16 | 40 | 90 | Ø11x50 | 1 | 24000 | 3003 019 | 3003 020 |



3003



MEC



Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°1 tagliente diritto spogliato eccentricamente.

Characteristics

Execution in HSS for not glued soft and hard woods with N°1 straight cutting edge eccentrically grinded.

3004



Punte per scolpitrici a testa tonda Z2 in HSS.

Drills in HSS for carving machines Z2.

Mèches en HSS à sculpter fond arrondi Z2.

Bohrer HSS für Schintzmaschinen Z2.

Brocas en HSS para copiadora de talla con cabeza redonda Z2.

| D | LU | LT | Att. | Z | rpm | ID nr. DX | ID nr. SX |
|----|----|----|--------|---|-------|-----------------|-----------------|
| 10 | 37 | 90 | Ø11x50 | 2 | 24000 | 3004 001 | 3004 002 |
| 12 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 003 | 3004 004 |
| 14 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 005 | 3004 006 |
| 16 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 007 | 3004 008 |
| 18 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 009 | 3004 010 |
| 20 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 011 | 3004 012 |
| 22 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 013 | 3004 014 |
| 24 | 40 | 90 | Ø11x50 | 2 | 24000 | 3004 015 | 3004 016 |

MEC

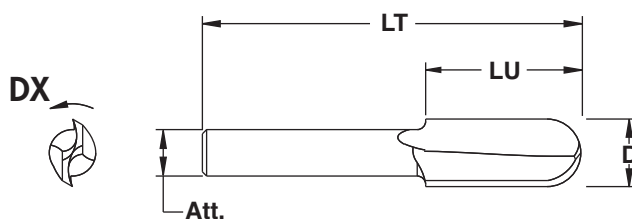


Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°2 taglienti assialmente inclinati con grande scarto sul dorso, per facilitare lo scarico del truciolo.

Characteristics

Execution in HSS for not glued soft and hard woods with N°2 shear angle cutting edges, back grinding for easier chip clearance.



Punte per scolpitrice sagomate in HSS Z2.
Drills in HSS for moulding wood-carving Z2.
 Mèches en HSS façonnage pour sculpture de bois Z2.
Bohrer profilieren und Holschnizer HSS Z2.
 Brocas perfiladas en HSS para copiadora de talla Z2.

3005

| D | LU | LT | Att. | Z | TIPO | rpm | ID nr. DX | ID nr. SX |
|----|----|----|--------|---|------|-------|-----------------|-----------------|
| 20 | 15 | 70 | Ø11x50 | 2 | A1 | 24000 | 3005 001 | 3005 002 |
| 22 | 15 | 70 | Ø11x50 | 2 | A2 | 24000 | 3005 003 | 3005 004 |
| 24 | 15 | 70 | Ø11x50 | 2 | A3 | 24000 | 3005 005 | 3005 006 |
| 20 | 15 | 70 | Ø11x50 | 2 | B1 | 24000 | 3005 007 | 3005 008 |
| 22 | 15 | 70 | Ø11x50 | 2 | B2 | 24000 | 3005 009 | 3005 010 |
| 24 | 15 | 70 | Ø11x50 | 2 | B3 | 24000 | 3005 011 | 3005 012 |

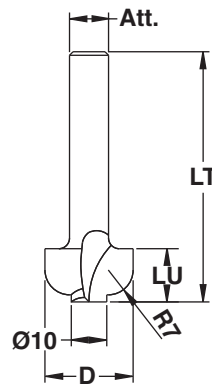
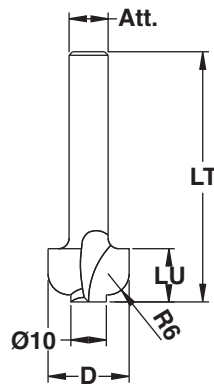
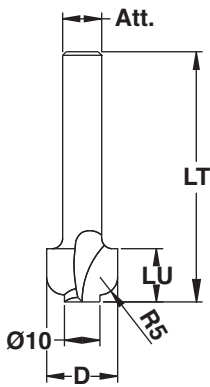


TIPO

A1

A2

A3

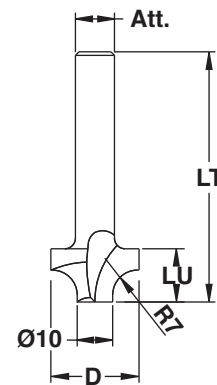
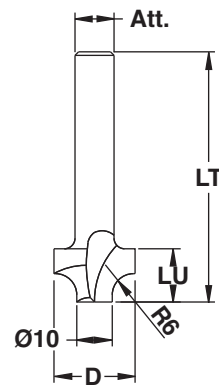
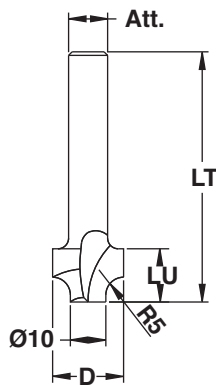


TIPO

B1

B2

B3



MEC



Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°2 taglienti assialmente inclinati con grande scarto sul dorso, per facilitare lo scarico del truciolo.

Characteristics

Execution in HSS for not glued soft and hard woods with N°2 shear angle cutting edges, back grinding for easier chip clearance.

3009



Frese multitaglienti elicoidali saldobrasate per forare e contornare in HM.

Spiral multicut router bits to drill and edge in HM.

Fraises multidentés hélicoïdal à percer et contourner en HM.

Fräser multischneidend schraubenförmig zu HM.

Fresas helicoidales multifilo cortante en HM con dientes soldados para taladrar y contornear.

| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|---|-------|-----------------|
| 20 | 45 | Ø20x50 | 3 | 20000 | 3009 001 |
| 30 | 60 | Ø20x50 | 6 | 20000 | 3009 002 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%

MEC



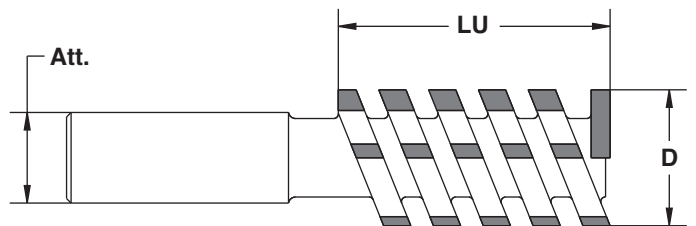
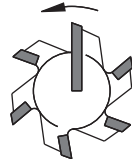
Caratteristiche

Esecuzione in HM riportato che garantisce una notevole diminuzione della rumorosità e dell'assorbimento di energia e permette di aumentare la velocità di avanzamento.

Characteristics

Execution with HM Tips to allow big noise reduction and power consumption, and a great increase of the advancing speed.

DX



Frese sagomate a piacere saldobrasate (profilo semplice).

Profil router (simple profil).

Fraises de defonceuse (profil simple).

Profischafffräser (einfaches Profil).

Fresas en HM perfiladas a gusto con dientes soldados (perfil simple).

| D | B | Att. | Z | rpm | ID nr. |
|-----|----|--------|---|-------|---------|
| 20 | 20 | Ø20x50 | 2 | 24000 | 3012001 |
| 20 | 30 | Ø20x50 | 2 | 24000 | 3012002 |
| 20 | 40 | Ø20x50 | 2 | 24000 | 3012003 |
| 20 | 50 | Ø20x50 | 2 | 24000 | 3012004 |
| 20 | 60 | Ø20x50 | 2 | 24000 | 3012005 |
| 30 | 20 | Ø20x50 | 2 | 20000 | 3012006 |
| 30 | 30 | Ø20x50 | 2 | 20000 | 3012007 |
| 30 | 40 | Ø20x50 | 2 | 20000 | 3012008 |
| 30 | 50 | Ø20x50 | 2 | 20000 | 3012009 |
| 30 | 60 | Ø20x50 | 2 | 20000 | 3012010 |
| 40 | 20 | Ø20x50 | 2 | 18000 | 3012011 |
| 40 | 30 | Ø20x50 | 2 | 18000 | 3012012 |
| 40 | 40 | Ø20x50 | 2 | 18000 | 3012013 |
| 40 | 50 | Ø20x50 | 2 | 18000 | 3012014 |
| 40 | 60 | Ø20x50 | 2 | 18000 | 3012015 |
| 50 | 20 | Ø20x50 | 2 | 18000 | 3012016 |
| 50 | 30 | Ø20x50 | 2 | 18000 | 3012017 |
| 50 | 40 | Ø20x50 | 2 | 18000 | 3012018 |
| 50 | 50 | Ø20x50 | 2 | 18000 | 3012019 |
| 50 | 60 | Ø20x50 | 2 | 18000 | 3012020 |
| 60 | 20 | Ø20x50 | 2 | 18000 | 3012021 |
| 60 | 30 | Ø20x50 | 2 | 18000 | 3012022 |
| 60 | 40 | Ø20x50 | 2 | 18000 | 3012023 |
| 60 | 50 | Ø20x50 | 2 | 18000 | 3012024 |
| 60 | 60 | Ø20x50 | 2 | 18000 | 3012025 |
| 70 | 20 | Ø20x50 | 2 | 18000 | 3012026 |
| 70 | 30 | Ø20x50 | 2 | 18000 | 3012027 |
| 70 | 40 | Ø20x50 | 2 | 18000 | 3012028 |
| 70 | 50 | Ø20x50 | 2 | 18000 | 3012029 |
| 70 | 60 | Ø20x50 | 2 | 18000 | 3012030 |
| 80 | 20 | Ø20x50 | 2 | 16000 | 3012031 |
| 80 | 30 | Ø20x50 | 2 | 16000 | 3012032 |
| 80 | 40 | Ø20x50 | 2 | 16000 | 3012033 |
| 80 | 50 | Ø20x50 | 2 | 16000 | 3012034 |
| 80 | 60 | Ø20x50 | 2 | 16000 | 3012035 |
| 100 | 20 | Ø20x50 | 2 | 14000 | 3012036 |
| 100 | 30 | Ø20x50 | 2 | 14000 | 3012037 |
| 100 | 40 | Ø20x50 | 2 | 14000 | 3012038 |
| 100 | 50 | Ø20x50 | 2 | 14000 | 3012039 |
| 100 | 60 | Ø20x50 | 2 | 14000 | 3012040 |

Attacco CM2 aumento 20%
Shank CM2 increase 20%

3012



Caratteristiche

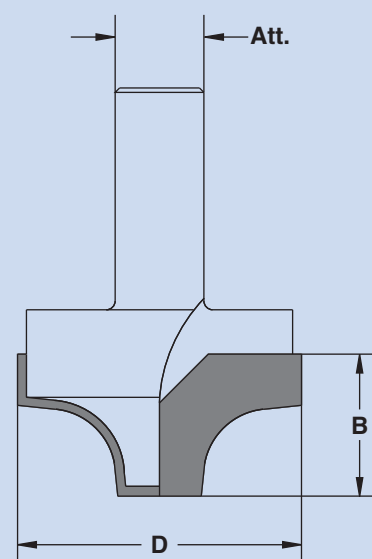
Esecuzione in HM riportato o HSS a seconda delle essenze da lavorare, esecuzione a taglienti diritti o inclinati a seconda del profilo da eseguire:

HM per legni teneri, duri, incollati, compensati, laminati truciolari o altro;
HSS per legni teneri e duri non incollati.

Characteristics

Executed HM or HSS according to different materials to be processed, straight or shear cutting edges according to profile to be executed:

HM for soft, hard, glued woods, plywood laminated, chipboard and more;
HSS for not glued soft and hard woods.



3013



Caratteristiche

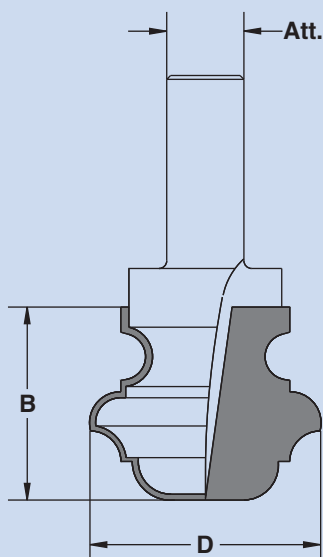
Esecuzione in HM riportato o HSS a seconda delle essenze da lavorare, esecuzione a taglienti diritti o inclinati a seconda del profilo da eseguire:

HM per legni teneri, duri, incollati, compensati, laminati truciolari o altro;
HSS per legni teneri e duri non incollati.

Characteristics

Executed HM or HSS according to different materials to be processed, straight or shear cutting edges according to profile to be executed:

HM for soft, hard, glued woods, plywood laminated, chipboard and more;
HSS for not glued soft and hard woods.



Frese sagomate a piacere saldobrasate (profilo complesso).

Profil router (complex profil).

Fraises de defonceuse (profil complex).

Profischafffräser (komplizierten Profil).

Fresas en HM perfiladas a gusto con dientes soldados (perfil complejo).

| D | B | Att. | Z | rpm | ID nr. |
|-----|----|--------|---|-------|-----------------|
| 20 | 20 | Ø20x50 | 2 | 24000 | 3013 001 |
| 20 | 30 | Ø20x50 | 2 | 24000 | 3013 002 |
| 20 | 40 | Ø20x50 | 2 | 24000 | 3013 003 |
| 20 | 50 | Ø20x50 | 2 | 24000 | 3013 004 |
| 20 | 60 | Ø20x50 | 2 | 24000 | 3013 005 |
| 30 | 20 | Ø20x50 | 2 | 20000 | 3013 006 |
| 30 | 30 | Ø20x50 | 2 | 20000 | 3013 007 |
| 30 | 40 | Ø20x50 | 2 | 20000 | 3013 008 |
| 30 | 50 | Ø20x50 | 2 | 20000 | 3013 009 |
| 30 | 60 | Ø20x50 | 2 | 20000 | 3013 010 |
| 40 | 20 | Ø20x50 | 2 | 18000 | 3013 011 |
| 40 | 30 | Ø20x50 | 2 | 18000 | 3013 012 |
| 40 | 40 | Ø20x50 | 2 | 18000 | 3013 013 |
| 40 | 50 | Ø20x50 | 2 | 18000 | 3013 014 |
| 40 | 60 | Ø20x50 | 2 | 18000 | 3013 015 |
| 50 | 20 | Ø20x50 | 2 | 18000 | 3013 016 |
| 50 | 30 | Ø20x50 | 2 | 18000 | 3013 017 |
| 50 | 40 | Ø20x50 | 2 | 18000 | 3013 018 |
| 50 | 50 | Ø20x50 | 2 | 18000 | 3013 019 |
| 50 | 60 | Ø20x50 | 2 | 18000 | 3013 020 |
| 60 | 20 | Ø20x50 | 2 | 18000 | 3013 021 |
| 60 | 30 | Ø20x50 | 2 | 18000 | 3013 022 |
| 60 | 40 | Ø20x50 | 2 | 18000 | 3013 023 |
| 60 | 50 | Ø20x50 | 2 | 18000 | 3013 024 |
| 60 | 60 | Ø20x50 | 2 | 18000 | 3013 025 |
| 70 | 20 | Ø20x50 | 2 | 18000 | 3013 026 |
| 70 | 30 | Ø20x50 | 2 | 18000 | 3013 027 |
| 70 | 40 | Ø20x50 | 2 | 18000 | 3013 028 |
| 70 | 50 | Ø20x50 | 2 | 18000 | 3013 029 |
| 70 | 60 | Ø20x50 | 2 | 18000 | 3013 030 |
| 80 | 20 | Ø20x50 | 2 | 16000 | 3013 031 |
| 80 | 30 | Ø20x50 | 2 | 16000 | 3013 032 |
| 80 | 40 | Ø20x50 | 2 | 16000 | 3013 033 |
| 80 | 50 | Ø20x50 | 2 | 16000 | 3013 034 |
| 80 | 60 | Ø20x50 | 2 | 16000 | 3013 035 |
| 100 | 20 | Ø20x50 | 2 | 14000 | 3013 036 |
| 100 | 30 | Ø20x50 | 2 | 14000 | 3013 037 |
| 100 | 40 | Ø20x50 | 2 | 14000 | 3013 038 |
| 100 | 50 | Ø20x50 | 2 | 14000 | 3013 039 |
| 100 | 60 | Ø20x50 | 2 | 14000 | 3013 040 |

Attacco CM2 aumento 20%
Shank CM2 increase 20%

Frese per mandrino centrico in HM integrale.

Router bit in HM integral for centric chuck.

Mèches en HM intégral à defoncer pour mandrin centrique.

Oberfräser zu HM integral für zentrischen Spannfutter.

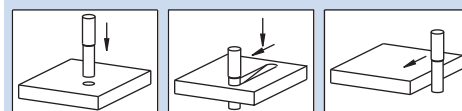
Fresas en HM macizo para mandril concéntrico.

3014

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|----|---------|---|-------|-----------------|
| 3 | 6 | 50 | Ø9,5x22 | 2 | 30000 | 3014 001 |
| 4 | 8 | 50 | Ø9,5x22 | 2 | 30000 | 3014 002 |
| 5 | 10 | 50 | Ø9,5x22 | 2 | 30000 | 3014 003 |
| 6 | 15 | 50 | Ø9,5x22 | 2 | 30000 | 3014 004 |
| 7 | 15 | 50 | Ø9,5x22 | 2 | 30000 | 3014 005 |
| 8 | 22 | 50 | Ø9,5x22 | 2 | 30000 | 3014 006 |
| 9 | 22 | 50 | Ø9,5x22 | 2 | 30000 | 3014 007 |
| 10 | 26 | 50 | Ø9,5x22 | 2 | 30000 | 3014 008 |



MAN



Caratteristiche

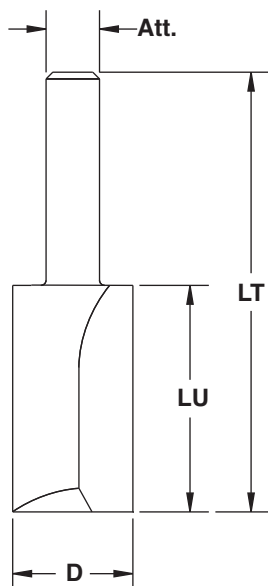
Esecuzione in HM integrale.

Idonea per esecuzione di forature e contornature su tutti i tipi di legno naturale, truciolare, MDF o altro.

Characteristics

Execution in Integral HM.

Suitable for all drilling and edging operations on natural woods, chipboard, MDF and more.



3015

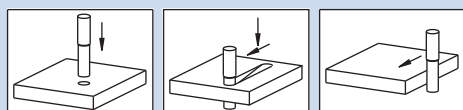
Frese per mandrino centrico saldobrasate Z2+1.

Router bit for centric chuck Z2+1.

Mèches à defoncer pour mandrin centrique Z2+1.

Oberfräser für zentrischen Spannfutter Z2+1.

Fresas con dientes soldados para mandril concéntrico Z2+1.



Caratteristiche

Esecuzione in HM riportato.

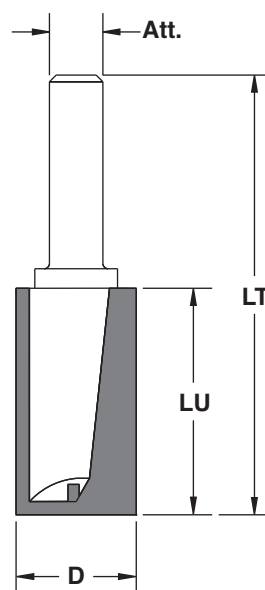
Idonea per esecuzione di forature e contornature su tutti i tipi di legno naturale, truciolare, MDF o altro.

Characteristics

Execution in HM.

Suitable for all drilling and edging operations on natural woods, chipboard, MDF and more.

| D | LU | LT | Att. | Z | rpm | ID nr. | DX |
|----|----|----|---------|-----|-------|---------|----|
| 8 | 30 | 63 | Ø9,5x25 | 2+1 | 30000 | 3015001 | |
| 10 | 35 | 68 | Ø9,5x25 | 2+1 | 30000 | 3015002 | |
| 10 | 40 | 73 | Ø9,5x25 | 2+1 | 30000 | 3015003 | |
| 12 | 25 | 58 | Ø12x25 | 2+1 | 30000 | 3015004 | |
| 12 | 40 | 73 | Ø12x25 | 2+1 | 30000 | 3015005 | |
| 14 | 25 | 58 | Ø12x25 | 2+1 | 28000 | 3015006 | |
| 14 | 40 | 73 | Ø12x25 | 2+1 | 28000 | 3015007 | |
| 15 | 25 | 58 | Ø12x25 | 2+1 | 28000 | 3015008 | |
| 15 | 40 | 73 | Ø12x25 | 2+1 | 28000 | 3015009 | |
| 16 | 25 | 58 | Ø12x25 | 2+1 | 23000 | 3015010 | |
| 16 | 40 | 73 | Ø12x25 | 2+1 | 23000 | 3015011 | |
| 18 | 25 | 58 | Ø12x25 | 2+1 | 23000 | 3015012 | |
| 18 | 40 | 73 | Ø12x25 | 2+1 | 23000 | 3015013 | |
| 20 | 25 | 58 | Ø12x25 | 2+1 | 20000 | 3015014 | |
| 20 | 40 | 73 | Ø12x25 | 2+1 | 20000 | 3015015 | |
| 22 | 25 | 58 | Ø12x25 | 2+1 | 20000 | 3015016 | |
| 22 | 40 | 73 | Ø12x25 | 2+1 | 20000 | 3015017 | |
| 24 | 25 | 58 | Ø12x25 | 2+1 | 20000 | 3015018 | |
| 24 | 40 | 73 | Ø12x25 | 2+1 | 20000 | 3015019 | |
| 25 | 25 | 58 | Ø12x25 | 2+1 | 18000 | 3015020 | |
| 25 | 40 | 73 | Ø12x25 | 2+1 | 18000 | 3015021 | |
| 26 | 25 | 58 | Ø12x25 | 2+1 | 18000 | 3015022 | |
| 26 | 40 | 73 | Ø12x25 | 2+1 | 18000 | 3015023 | |
| 28 | 25 | 58 | Ø12x25 | 2+1 | 16000 | 3015024 | |
| 28 | 40 | 73 | Ø12x25 | 2+1 | 16000 | 3015025 | |
| 30 | 25 | 58 | Ø12x25 | 2+1 | 16000 | 3015026 | |
| 30 | 40 | 73 | Ø12x25 | 2+1 | 16000 | 3015027 | |
| 35 | 25 | 58 | Ø12x25 | 2+1 | 15000 | 3015028 | |
| 35 | 40 | 73 | Ø12x25 | 2+1 | 15000 | 3015029 | |



Frese per mandrino centrico saldobrasate Z2+1.

Router bit for centric chuck Z2+1.

Mèches à defoncer pour mandrin centrique Z2+1.

Oberfräser für zentrischen Spannfutter Z2+1.

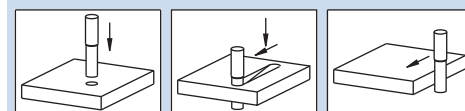
Fresas con dientes soldados para mandril concéntrico Z2+1.

3016

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|----|--------|-----|-------|-----------------|
| 4* | 10 | 65 | Ø10x35 | 2+1 | 30000 | 3016 001 |
| 5* | 10 | 65 | Ø10x35 | 2+1 | 30000 | 3016 002 |
| 6* | 15 | 65 | Ø10x35 | 2+1 | 30000 | 3016 003 |
| 8 | 25 | 70 | Ø10x35 | 2+1 | 30000 | 3016 004 |
| 10 | 25 | 70 | Ø10x35 | 2+1 | 30000 | 3016 005 |
| 12 | 25 | 70 | Ø10x35 | 2+1 | 30000 | 3016 006 |
| 14 | 25 | 70 | Ø10x35 | 2+1 | 28000 | 3016 007 |
| 15 | 25 | 70 | Ø10x35 | 2+1 | 28000 | 3016 008 |
| 16 | 25 | 70 | Ø10x35 | 2+1 | 23000 | 3016 009 |
| 18 | 25 | 70 | Ø10x35 | 2+1 | 23000 | 3016 010 |
| 20 | 25 | 70 | Ø10x35 | 2+1 | 20000 | 3016 011 |
| 22 | 25 | 70 | Ø10x35 | 2+1 | 20000 | 3016 012 |
| 24 | 25 | 70 | Ø10x35 | 2+1 | 20000 | 3016 013 |
| 25 | 25 | 70 | Ø10x35 | 2+1 | 18000 | 3016 014 |
| 26 | 25 | 70 | Ø10x35 | 2+1 | 18000 | 3016 015 |
| 30 | 25 | 70 | Ø10x35 | 2+1 | 16000 | 3016 016 |
| 35 | 25 | 70 | Ø10x35 | 2+1 | 15000 | 3016 017 |

*Hm integrale

*Integral HM



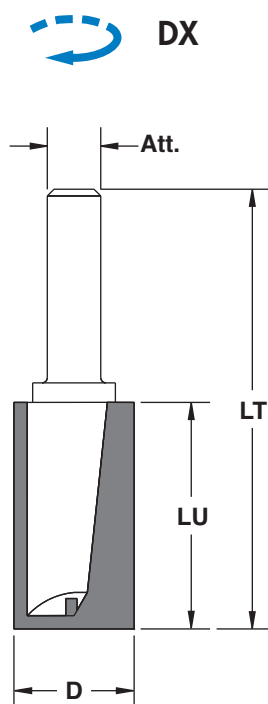
Caratteristiche

HM integrale fino Ø6, dal Ø8 HM riportato.
Idonea per esecuzione di fori e contorni su tutti tipi di legno, truciolare, MDF o altro.

Characteristics

Made Integral HM up to Ø6, from Ø8 Brased HM.

Suitable for all drilling and edging operations on natural woods, chipboard, MDF and more.



3017

Frese per mandrino centrico saldobrasate Z2+1 tipo lungo.

Router long bit for centric chuck Z2+1.

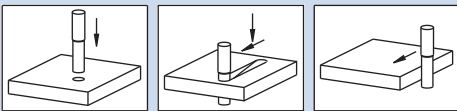
Mèches long à defoncer pour mandrin centrique Z2+1.

Oberfräser für zentrischen Spannfutter Z2+1.

Fresas con dientes soldados para mandril concéntrico Z2+1 tipo largo.



| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|----|--------|-----|-------|-----------------|
| 10 | 40 | 87 | Ø10x35 | 2+1 | 25000 | 3017 001 |
| 12 | 40 | 87 | Ø10x35 | 2+1 | 25000 | 3017 002 |
| 14 | 40 | 87 | Ø10x35 | 2+1 | 23000 | 3017 003 |
| 15 | 40 | 87 | Ø10x35 | 2+1 | 23000 | 3017 004 |
| 16 | 40 | 87 | Ø10x35 | 2+1 | 19000 | 3017 005 |
| 18 | 40 | 87 | Ø10x35 | 2+1 | 19000 | 3017 006 |
| 20 | 40 | 87 | Ø10x35 | 2+1 | 15000 | 3017 007 |



Caratteristiche

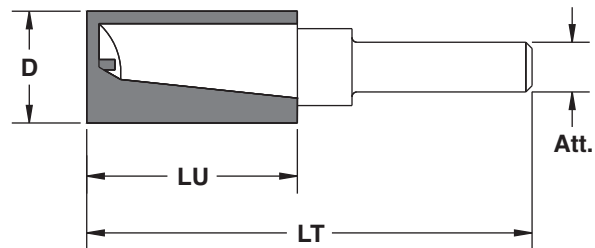
Esecuzione in HM riportato.

Idonea per esecuzione di fori e contorni su tutti i tipi di legno naturale, truciolare, MDF o altro.

Characteristics

Execution in HM.

Suitable for all drilling and edging operations on natural woods, chipboard, MDF and more.



Frese elicoidali Z1 in HM integrale ELICA POSITIVA.

Twist router drills in HM integral Z1 with POSITIVE PROPELLER.

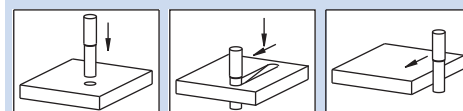
Mèches hélicoidales pour défonceuse en HM intégral Z1 HÉLICE POSITIVE.

Spiralbohrer Oberfräser zu HM integral Z1 mit POSITIV PROPELLER.

Fresas helicoidales Z1 en HM macizo HÉLICE POSITIVA.

3018

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|------|---|-------|-----------------|
| 3 | 12 | 40 | Ø3 | 1 | 30000 | 3018 001 |
| 4 | 12 | 50 | Ø4 | 1 | 30000 | 3018 002 |
| 5 | 17 | 50 | Ø5 | 1 | 30000 | 3018 003 |
| 6 | 17 | 60 | Ø6 | 1 | 30000 | 3018 004 |
| 6 | 27 | 60 | Ø6 | 1 | 30000 | 3018 005 |
| 8 | 22 | 80 | Ø8 | 1 | 30000 | 3018 006 |
| 8 | 32 | 80 | Ø8 | 1 | 30000 | 3018 007 |
| 10 | 32 | 80 | Ø10 | 1 | 30000 | 3018 008 |
| 10 | 42 | 100 | Ø10 | 1 | 30000 | 3018 009 |
| 12 | 32 | 80 | Ø12 | 1 | 30000 | 3018 010 |
| 12 | 42 | 100 | Ø12 | 1 | 30000 | 3018 011 |
| 12 | 52 | 100 | Ø12 | 1 | 30000 | 3018 012 |



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazioni dove è predominante la fase di foratura.

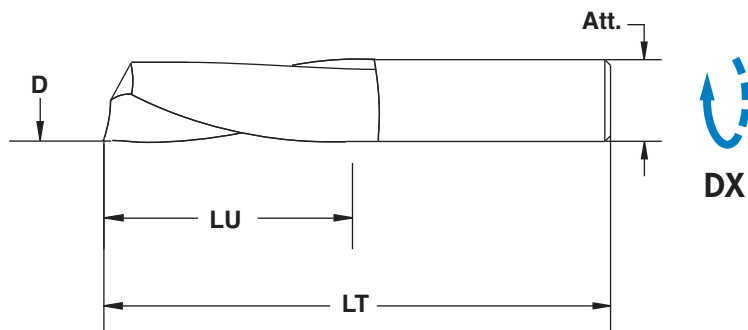
Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

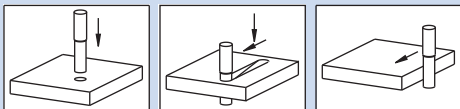
Execution in Integral HM.

Especially recommended for all working where drilling is most important.

Positive propeller: expulsion of the wood-shaving towards the with perfect finish of lower side of panel.



3019



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazioni dove è predominante la fase di foratura.

Elica negativa: espulsione del truciolo verso il basso, ottima finitura lato superiore del pannello.

Characteristics

Execution in Integral HM.

Especially recommended for all working where drilling is most important.

Negative propeller: expulsion of the wood-shaving towards the low with perfect finish of upper side of panel.

Frese elicoidali Z1 in HM integrale ELICA NEGATIVA.

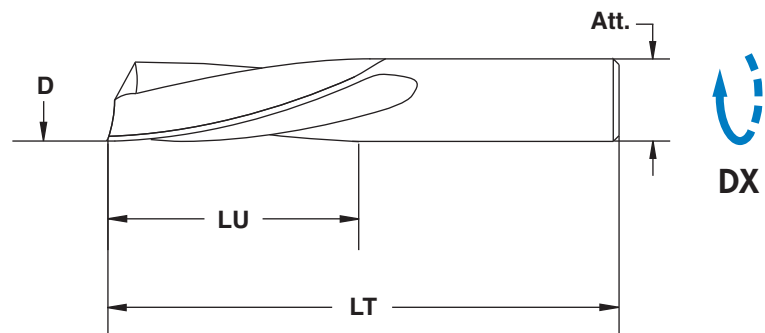
Twist router drills in HM integral Z1 with NEGATIVE PROPELLER.

Mèches hélicoïdales pour défonceuse en HM intégral Z1 HÉLICE NÉGATIVE.

Spiralbohrer Oberfräser zu HM integral Z1 mit NEGATIV PROPELLER.

Fresas helicoidales Z1 en HM macizo HÉLICE NEGATIVA.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|------|---|-------|-----------|
| 3 | 12 | 40 | Ø3 | 1 | 30000 | 3019001 |
| 4 | 12 | 50 | Ø4 | 1 | 30000 | 3019002 |
| 5 | 17 | 50 | Ø5 | 1 | 30000 | 3019003 |
| 6 | 17 | 60 | Ø6 | 1 | 30000 | 3019004 |
| 6 | 27 | 60 | Ø6 | 1 | 30000 | 3019005 |
| 8 | 22 | 80 | Ø8 | 1 | 30000 | 3019006 |
| 8 | 32 | 80 | Ø8 | 1 | 30000 | 3019007 |
| 10 | 32 | 80 | Ø10 | 1 | 30000 | 3019008 |
| 10 | 42 | 100 | Ø10 | 1 | 30000 | 3019009 |
| 12 | 32 | 80 | Ø12 | 1 | 30000 | 3019010 |
| 12 | 42 | 100 | Ø12 | 1 | 30000 | 3019011 |
| 12 | 52 | 100 | Ø12 | 1 | 30000 | 3019012 |



Frese elicoidali Z2 in HM integrale ELICA POSITIVA.

Twist router drills in HM integral Z2 with POSITIVE PROPELLER.

Mèches hélicoïdales pour défonceuse en HM intégral Z2 HÉLICE POSITIVE.

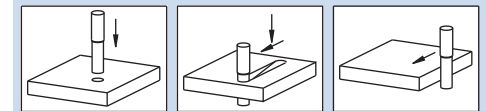
Spiralbohrer Oberfräser zu HM integral Z2 mit POSITIV PROPELLER.

Fresas helicoidales Z2 en HM macizo HÉLICE POSITIVA.

3020



| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------------|
| 3 | 12 | 40 | Ø3 | 2 | 30000 | 3020 001 |
| 4 | 12 | 50 | Ø4 | 2 | 30000 | 3020 002 |
| 5 | 17 | 50 | Ø5 | 2 | 30000 | 3020 003 |
| 6 | 17 | 60 | Ø6 | 2 | 30000 | 3020 004 |
| 6 | 27 | 60 | Ø6 | 2 | 30000 | 3020 005 |
| 8 | 22 | 80 | Ø8 | 2 | 30000 | 3020 006 |
| 8 | 32 | 80 | Ø8 | 2 | 30000 | 3020 007 |
| 10 | 32 | 80 | Ø10 | 2 | 30000 | 3020 008 |
| 10 | 42 | 100 | Ø10 | 2 | 30000 | 3020 009 |
| 12 | 32 | 80 | Ø12 | 2 | 30000 | 3020 010 |
| 12 | 42 | 100 | Ø12 | 2 | 30000 | 3020 011 |
| 12 | 52 | 100 | Ø12 | 2 | 30000 | 3020 012 |
| 14 | 42 | 100 | Ø14 | 2 | 30000 | 3020 013 |
| 14 | 52 | 100 | Ø14 | 2 | 30000 | 3020 014 |
| 16 | 42 | 100 | Ø16 | 2 | 30000 | 3020 015 |
| 16 | 52 | 100 | Ø16 | 2 | 30000 | 3020 016 |
| 16 | 72 | 120 | Ø16 | 2 | 30000 | 3020 017 |
| 18 | 52 | 100 | Ø18 | 2 | 30000 | 3020 018 |
| 18 | 72 | 120 | Ø18 | 2 | 30000 | 3020 019 |
| 20 | 52 | 100 | Ø20 | 2 | 30000 | 3020 020 |
| 20 | 72 | 120 | Ø20 | 2 | 30000 | 3020 021 |
| 20 | 102 | 150 | Ø20 | 2 | 30000 | 3020 022 |



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazioni di foratura e contornatura con buone finiture superficiali su tutti i tipi di legno naturale.

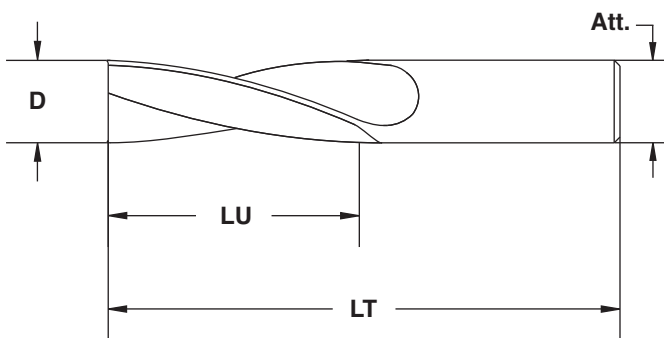
Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

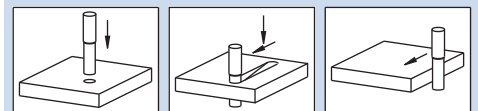
Execution in Integral HM.

Recommended for drilling and edging operations on all natural woods with a good surface quality.

Positive propeller: expulsion of the wood-shaving towards the high with perfect finish of lower side of panel.



3021



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazioni di foratura e contornatura con buone finiture superficiali su tutti i tipi di legno naturale.

Elica negativa: espulsione del truciolo verso il basso, ottima finitura lato superiore del pannello.

Characteristics

Execution in Integral HM.

Recommended for drilling and edging operations on all natural woods with a good surface quality.

Negative propeller: expulsion of the shaving towards the low with perfect finish of upper side of panel.

Frese elicoidali Z2 in HM integrale ELICA NEGATIVA.

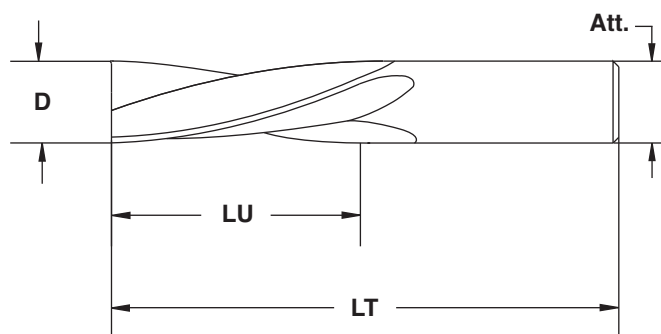
Twist router drills in HM integral Z2 with NEGATIVE PROPELLER.

Mèches hélicoïdales pour défonceuse en HM intégral Z2 HÉLICE NEGATIVE.

Spiralbohrer Oberfräser zu HM integral Z2 mit NEGATIV PROPELLER.

Fresas helicoidales Z2 en HM macizo HÉLICE NEGATIVA.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------|
| 3 | 12 | 40 | Ø3 | 2 | 30000 | 3021001 |
| 4 | 12 | 50 | Ø4 | 2 | 30000 | 3021002 |
| 5 | 17 | 50 | Ø5 | 2 | 30000 | 3021003 |
| 6 | 17 | 60 | Ø6 | 2 | 30000 | 3021004 |
| 6 | 27 | 60 | Ø6 | 2 | 30000 | 3021005 |
| 8 | 22 | 80 | Ø8 | 2 | 30000 | 3021006 |
| 8 | 32 | 80 | Ø8 | 2 | 30000 | 3021007 |
| 10 | 32 | 80 | Ø10 | 2 | 30000 | 3021008 |
| 10 | 42 | 100 | Ø10 | 2 | 30000 | 3021009 |
| 12 | 32 | 80 | Ø12 | 2 | 30000 | 3021010 |
| 12 | 42 | 100 | Ø12 | 2 | 30000 | 3021011 |
| 12 | 52 | 100 | Ø12 | 2 | 30000 | 3021012 |
| 14 | 42 | 100 | Ø14 | 2 | 30000 | 3021013 |
| 14 | 52 | 100 | Ø14 | 2 | 30000 | 3021014 |
| 16 | 42 | 100 | Ø16 | 2 | 30000 | 3021015 |
| 16 | 52 | 100 | Ø16 | 2 | 30000 | 3021016 |
| 16 | 72 | 120 | Ø16 | 2 | 30000 | 3021017 |
| 18 | 52 | 100 | Ø18 | 2 | 30000 | 3021018 |
| 18 | 72 | 120 | Ø18 | 2 | 30000 | 3021019 |
| 20 | 52 | 100 | Ø20 | 2 | 30000 | 3021020 |
| 20 | 72 | 120 | Ø20 | 2 | 30000 | 3021021 |
| 20 | 102 | 150 | Ø20 | 2 | 30000 | 3021022 |



Frese elicoidali Z3 in HM integrale ELICA POSITIVA.

Twist router drills in HM integral Z3 with POSITIVE PROPELLER.

Mèches hélicoïdales Z3 pour défonceuse en HM intégral HÉLICE POSITIVE.

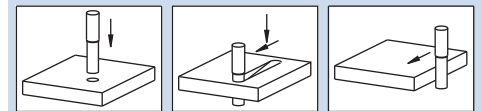
Spiralbohrer Oberfräser zu HM integral Z3 mit POSITIV PROPELLER.

Fresas helicoidales Z3 en HM macizo HÉLICE POSITIVA.

3022



| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------------|
| 8 | 22 | 80 | Ø8 | 3 | 24000 | 3022 001 |
| 8 | 32 | 80 | Ø8 | 3 | 24000 | 3022 002 |
| 10 | 32 | 80 | Ø10 | 3 | 24000 | 3022 003 |
| 10 | 42 | 100 | Ø10 | 3 | 24000 | 3022 004 |
| 12 | 32 | 80 | Ø12 | 3 | 24000 | 3022 005 |
| 12 | 42 | 100 | Ø12 | 3 | 24000 | 3022 006 |
| 12 | 52 | 100 | Ø12 | 3 | 24000 | 3022 007 |
| 14 | 42 | 100 | Ø14 | 3 | 24000 | 3022 008 |
| 14 | 52 | 100 | Ø14 | 3 | 24000 | 3022 009 |
| 16 | 42 | 100 | Ø16 | 3 | 24000 | 3022 010 |
| 16 | 52 | 100 | Ø16 | 3 | 24000 | 3022 011 |
| 16 | 72 | 120 | Ø16 | 3 | 24000 | 3022 012 |
| 18 | 52 | 100 | Ø18 | 3 | 24000 | 3022 013 |
| 18 | 72 | 120 | Ø18 | 3 | 24000 | 3022 014 |
| 20 | 52 | 100 | Ø20 | 3 | 24000 | 3022 015 |
| 20 | 72 | 120 | Ø20 | 3 | 24000 | 3022 016 |
| 20 | 102 | 150 | Ø20 | 3 | 24000 | 3022 017 |



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazioni di foratura e contornatura con buona finitura superficiale ed elevata velocità di avanzamento su tutti i tipi di legno naturale.

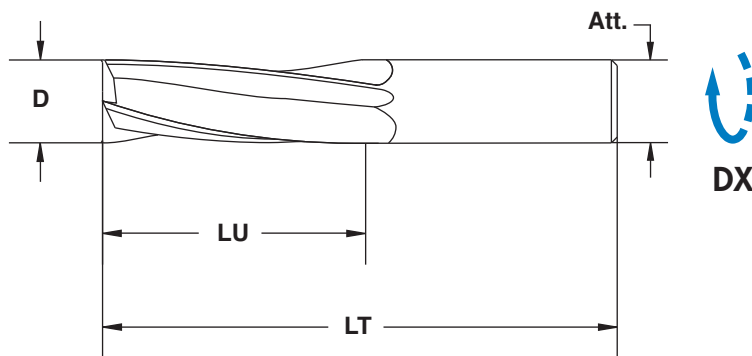
Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

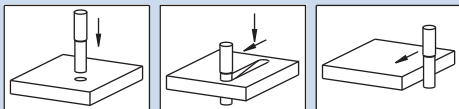
Execution in Integral HM.

Recommended for drilling and edges operations with good surface quality and high advancing speed on all natural woods.

Positive propeller: expulsion of the wood-shaving towards the with perfect finish of lower side of panel.



3023



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazione di foratura e contornatura con buona finitura superficiale ed elevata velocità di avanzamento su tutti i tipi di legno naturale.

Elica negativa: espulsione del truciolo verso il basso, ottima finitura lato superiore del pannello.

Characteristics

Execution in Integral HM.

Recommended for drilling and edges operations with good surface quality and high advancing speed on any kind of natural woods.

Negative propeller: expulsion of the shaving towards the low with perfect finish of upper side of panel.

Frese elicoidali Z3 in HM integrale ELICA NEGATIVA.

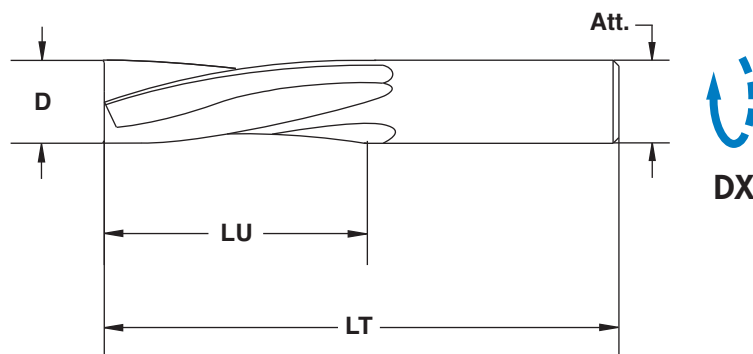
Twist router drills in HM integral Z3 with NEGATIVE PROPELLER.

Mèches hélicoïdales Z3 pour défonceuse en HM intégral HÉLICE NEGATIVE.

Spiralbohrer Oberfräser zu HM integral Z3 mit NEGATIV PROPELLER.

Fresas helicoidales Z3 en HM macizo HÉLICE NEGATIVA.

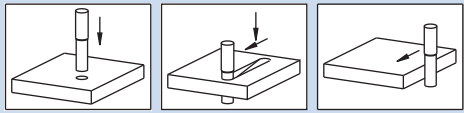
| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------|
| 8 | 22 | 80 | Ø8 | 3 | 24000 | 3023001 |
| 8 | 32 | 80 | Ø8 | 3 | 24000 | 3023002 |
| 10 | 32 | 80 | Ø10 | 3 | 24000 | 3023003 |
| 10 | 42 | 100 | Ø10 | 3 | 24000 | 3023004 |
| 12 | 32 | 80 | Ø12 | 3 | 24000 | 3023005 |
| 12 | 42 | 100 | Ø12 | 3 | 24000 | 3023006 |
| 12 | 52 | 100 | Ø12 | 3 | 24000 | 3023007 |
| 14 | 42 | 100 | Ø14 | 3 | 24000 | 3023008 |
| 14 | 52 | 100 | Ø14 | 3 | 24000 | 3023009 |
| 16 | 42 | 100 | Ø16 | 3 | 24000 | 3023010 |
| 16 | 52 | 100 | Ø16 | 3 | 24000 | 3023011 |
| 16 | 72 | 120 | Ø16 | 3 | 24000 | 3023012 |
| 18 | 52 | 100 | Ø18 | 3 | 24000 | 3023013 |
| 18 | 72 | 120 | Ø18 | 3 | 24000 | 3023014 |
| 20 | 52 | 100 | Ø20 | 3 | 24000 | 3023015 |
| 20 | 72 | 120 | Ø20 | 3 | 24000 | 3023016 |
| 20 | 102 | 150 | Ø20 | 3 | 24000 | 3023017 |



Frese elicoidali Z3 in HM integrale con rompitruciolo ELICA POSITIVA.
 Twist router drills in HM integral with chipbreaker Z3 with POSITIVE PROPELLER.
 Mèches hélicoidales Z3 en HM intégral HÉLICE POSITIVE avec briscopeau.
 Spiralbohrer Oberfräser Spannfutter zu HM integral Z3 mit POSITIV PROPELLER.
 Fresas helicoidales Z3 en HM macizo con rompeviruta HÉLICE POSITIVA.

3024

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------|
| 8 | 22 | 80 | Ø8 | 3 | 24000 | 3024001 |
| 8 | 32 | 80 | Ø8 | 3 | 24000 | 3024002 |
| 10 | 32 | 80 | Ø10 | 3 | 24000 | 3024003 |
| 10 | 42 | 100 | Ø10 | 3 | 24000 | 3024004 |
| 12 | 32 | 80 | Ø12 | 3 | 24000 | 3024005 |
| 12 | 42 | 100 | Ø12 | 3 | 24000 | 3024006 |
| 12 | 52 | 100 | Ø12 | 3 | 24000 | 3024007 |
| 14 | 42 | 100 | Ø14 | 3 | 24000 | 3024008 |
| 14 | 52 | 100 | Ø14 | 3 | 24000 | 3024009 |
| 16 | 42 | 100 | Ø16 | 3 | 24000 | 3024010 |
| 16 | 52 | 100 | Ø16 | 3 | 24000 | 3024011 |
| 16 | 72 | 120 | Ø16 | 3 | 24000 | 3024012 |
| 18 | 52 | 100 | Ø18 | 3 | 24000 | 3024013 |
| 18 | 72 | 120 | Ø18 | 3 | 24000 | 3024014 |
| 20 | 52 | 100 | Ø20 | 3 | 24000 | 3024015 |
| 20 | 72 | 120 | Ø20 | 3 | 24000 | 3024016 |
| 20 | 102 | 150 | Ø20 | 3 | 24000 | 3024017 |

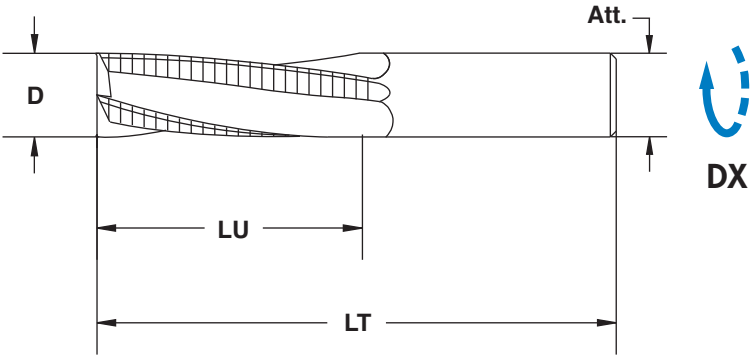


Caratteristiche

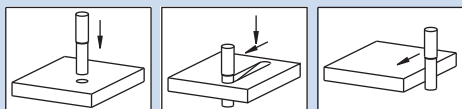
Esecuzione in HM integrale.
 Particolarmente idonea per eseguire lavorazione di foratura e contornatura con buona finitura superficiale ed elevata velocità di avanzamento su tutti i tipi di legno naturale.
 Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

Execution in Integral HM.
 Recommended for drilling and edges operations with good surface quality and high advancing speed on any kind of natural woods.
 Positive propeller: expulsion of the wood-shaving towards the high with perfect finish of lower side of panel.



3025



Caratteristiche

Esecuzione in HM integrale.

Particolarmente idonea per eseguire lavorazione di foratura e contornatura con buona finitura superficiale ed elevata velocità di avanzamento su tutti i tipi di legno naturale.

Elica negativa: espulsione del truciolo verso il basso, ottima finitura lato superiore del pannello.

Characteristics

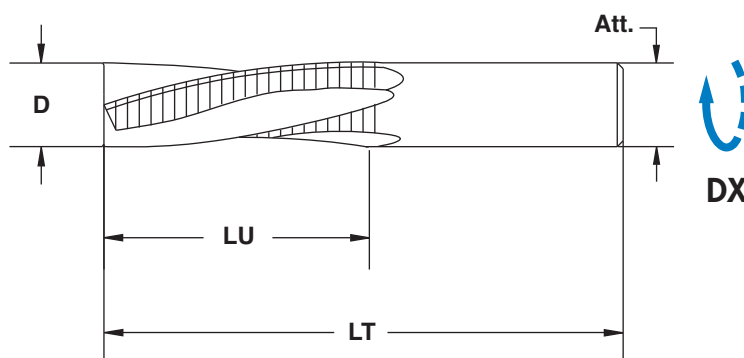
Execution in Integral HM.

Recommended for drilling and edges operations with good surface quality and high advancing speed on all natural woods.

Negative propeller: expulsion of the shaving towards the low with perfect finish of upper side of panel.

Frese elicoidali Z3 in HM integrale con rompitruciolo ELICA NEGATIVA.
Twist router drills in HM integral with chipbreaker Z3 with NEGATIVE PROPELLER.
Mèches hélicoïdales Z3 en HM intégral HÉLICE NEGATIVE avec briscopeau.
Spiralbohrer Oberfräser Spannfutter zu HM integral Z3 mit NEGATIV PROPELLER.
Fresas helicoidales Z3 en HM macizo con rompeviruta HÉLICE NEGATIVA.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|------|---|-------|-----------------|
| 8 | 22 | 80 | Ø8 | 3 | 24000 | 3025 001 |
| 8 | 32 | 80 | Ø8 | 3 | 24000 | 3025 002 |
| 10 | 32 | 80 | Ø10 | 3 | 24000 | 3025 003 |
| 10 | 42 | 100 | Ø10 | 3 | 24000 | 3025 004 |
| 12 | 32 | 80 | Ø12 | 3 | 24000 | 3025 005 |
| 12 | 42 | 100 | Ø12 | 3 | 24000 | 3025 006 |
| 12 | 52 | 100 | Ø12 | 3 | 24000 | 3025 007 |
| 14 | 42 | 100 | Ø14 | 3 | 24000 | 3025 008 |
| 14 | 52 | 100 | Ø14 | 3 | 24000 | 3025 009 |
| 16 | 42 | 100 | Ø16 | 3 | 24000 | 3025 010 |
| 16 | 52 | 100 | Ø16 | 3 | 24000 | 3025 011 |
| 16 | 72 | 120 | Ø16 | 3 | 24000 | 3025 012 |
| 18 | 52 | 100 | Ø18 | 3 | 24000 | 3025 013 |
| 18 | 72 | 120 | Ø18 | 3 | 24000 | 3025 014 |
| 20 | 52 | 100 | Ø20 | 3 | 24000 | 3025 015 |
| 20 | 72 | 120 | Ø20 | 3 | 24000 | 3025 016 |
| 20 | 102 | 150 | Ø20 | 3 | 24000 | 3025 017 |

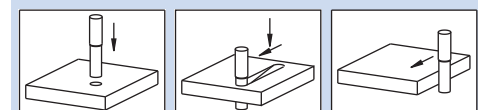
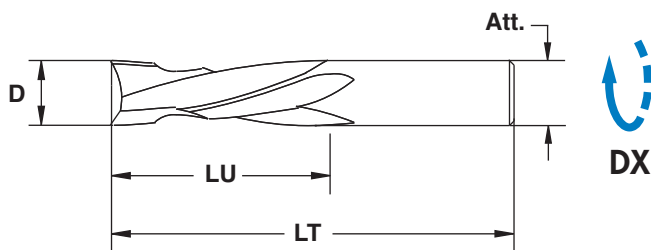


Frese elicoidali doppia elica POSITIVA-NEGATIVA Z2+2 in HM integrale.
Twist router drills in HM integral Z2+2 with double POSITIVE-NEGATIVE propeller.
 Méches hélicoïdales en HM intégral Z2+2 double hélice POSITIVE-NÉGATIVE.
Spiralbohrer Oberfräser zu HM integral Z2+2 mit doppelt Schraube POSITIV-NEGATIV.
 Fresas helicoidales en HM macizo con doble hélice POSITIVA-NEGATIVA Z2+2.

3027

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|------|-----|-------|-----------------|
| 10 | 32 | 80 | Ø10 | 2+2 | 24000 | 3027 004 |
| 10 | 42 | 100 | Ø10 | 2+2 | 24000 | 3027 005 |
| 12 | 42 | 100 | Ø12 | 2+2 | 24000 | 3027 006 |
| 12 | 52 | 100 | Ø12 | 2+2 | 24000 | 3027 007 |
| 14 | 42 | 100 | Ø14 | 2+2 | 24000 | 3027 008 |
| 14 | 52 | 100 | Ø14 | 2+2 | 24000 | 3027 009 |
| 16 | 42 | 100 | Ø16 | 2+2 | 24000 | 3027 010 |
| 16 | 52 | 100 | Ø16 | 2+2 | 24000 | 3027 001 |
| 18 | 52 | 100 | Ø18 | 2+2 | 24000 | 3027 002 |
| 18 | 72 | 120 | Ø18 | 2+2 | 24000 | 3027 011 |
| 20 | 52 | 100 | Ø20 | 2+2 | 24000 | 3027 012 |
| 20 | 72 | 120 | Ø20 | 2+2 | 24000 | 3027 003 |

La doppia elica permette di ottenere un'ottima finitura del pannello su entrambi i lati.
The double propeller let have an excellent finish of panel on both sides.



Caratteristiche

Esecuzione in HM integrale.
 Particolarmente idonea per operazioni di foratura e contornatura con ottima finitura.

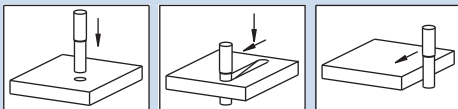
Characteristics

Execution in Integral HM.
 Recommended for plunging and ending operations on both-sides laminated panels.

3068



MEC



Caratteristiche

Esecuzione in HM integrale.
Particolarmente idonea per operazioni di foratura e contornatura con ottima finitura.

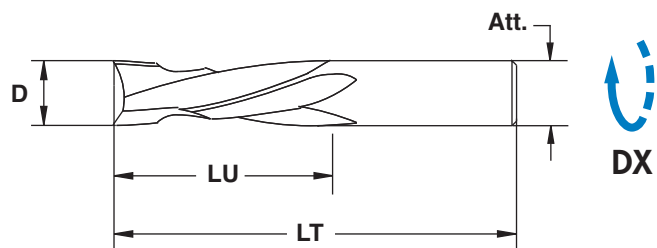
Characteristics

Execution in Integral HM.
Recommended for plunging and endgng operations on both-sides laminated panels.

Frese elicoidali doppia elica POSITIVA-NEGATIVA Z3+3 in HM integrale.
Twist router drills in HM integral Z3+3 with double POSITIVE-NEGATIVE propeller.
Mèches hélicoïdales en HM intégral Z3+3 double hélice POSITIVE-NÉGATIVE.
Spiralbohrer Oberfräser zu HM integral Z3+3 mit doppelt Schraube POSITIV-NEGATIV.
Fresas helicoidales en HM macizo con doble hélice POSITIVA-NEGATIVA Z3+3.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|------|-----|-------|-----------|
| 12 | 42 | 100 | Ø12 | 3+3 | 24000 | 3068001 |
| 12 | 52 | 100 | Ø12 | 3+3 | 24000 | 3068002 |
| 14 | 42 | 100 | Ø14 | 3+3 | 24000 | 3068003 |
| 14 | 52 | 100 | Ø14 | 3+3 | 24000 | 3068004 |
| 16 | 42 | 100 | Ø16 | 3+3 | 24000 | 3068005 |
| 16 | 52 | 100 | Ø16 | 3+3 | 24000 | 3068006 |
| 18 | 52 | 100 | Ø18 | 3+3 | 24000 | 3068007 |
| 18 | 72 | 120 | Ø18 | 3+3 | 24000 | 3068008 |
| 20 | 52 | 100 | Ø20 | 3+3 | 24000 | 3068009 |
| 20 | 72 | 120 | Ø20 | 3+3 | 24000 | 3068010 |

La doppia elica permette di ottenere un'ottima finitura del pannello su entrambi i lati.
The double propeller let have an excellent finish of panel on both sides.



Frese in HM integrale con rompitruciolo per serrature ELICA NEGATIVA.
Twist router drills for locks in HM integral with chipbreaker and NEGATIVE PROPELLER.
 Mèches hélicoïdales pour serrures en HM intégral avec brisecoupeau et HÉLICE NEGATIVE.
Spiralbohrer Oberfräser für Schloss zu HM integral mit Spanbrecher und NEGATIV PROPELLER.
 Fresas para serraduras en HM macizo con rompeviruta y HÉLICE NEGATIVA.

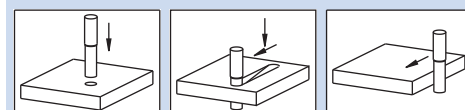
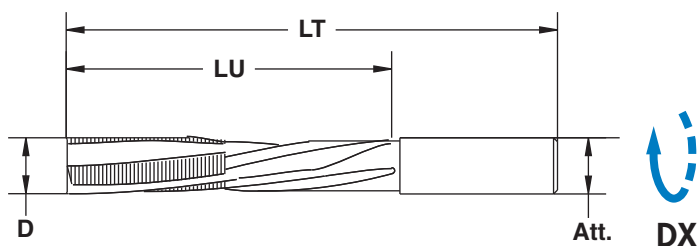
3028

Senza rompitruciolo / Without chipbreaker

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|--------|---|-------|-----------------|
| 16 | 100 | 150 | Ø16x50 | 2 | 20000 | 3028 001 |

Con rompitruciolo / With chipbreaker

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|--------|---|-------|-----------------|
| 14 | 100 | 150 | Ø14x50 | 3 | 20000 | 3028 011 |
| 16 | 100 | 150 | Ø16x50 | 3 | 20000 | 3028 012 |



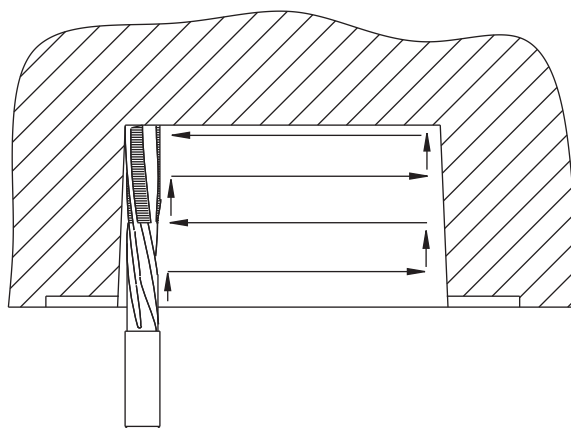
Caratteristiche

Per esecuzione di alloggiamenti per serrature su macchine CNC.
 Elica negativa: espulsione del truciolo in basso.

Characteristics

For execution of locks on CNC machines.
 Negative propeller: expulsion of the wood-shaving towards the low.

ESEMPIO DI LAVORAZIONE



3028



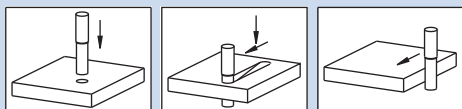
Frese in HM integrale con rompitruciolo per serrature ELICA POSITIVA.
Twist router drills for locks in HM integral with chipbreaker and POSITIVE PROPELLER.
 Mèches hélicoïdales pour serrures en HM intégral avec brisecoupeau et HÉLICE POSITIVE.
Spiralbohrer Oberfräser für Schloss zu HM integral mit Spanbrecher und POSITIV PROPELLER.
 Fresas para serraduras en HM macizo con rompeviruta y HÉLICE POSITIVA.

Senza rompitruciolo / Without chipbreaker

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|--------|---|-------|-----------------|
| 16 | 100 | 150 | Ø16x50 | 2 | 20000 | 3028 021 |

Con rompitruciolo / With chipbreaker

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|-----|--------|---|-------|-----------------|
| 14 | 100 | 150 | Ø14x50 | 3 | 20000 | 3028 031 |
| 16 | 100 | 150 | Ø16x50 | 3 | 20000 | 3028 032 |



Caratteristiche

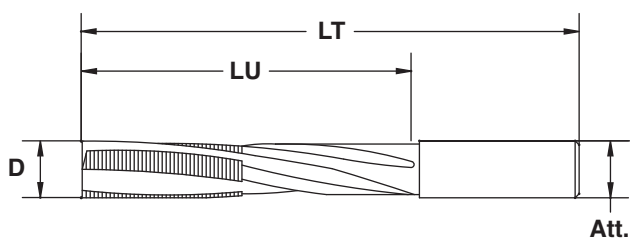
Per esecuzione di alloggiamenti per serrature su macchine CNC.

Elica positiva: espulsione del truciolo verso l'alto.

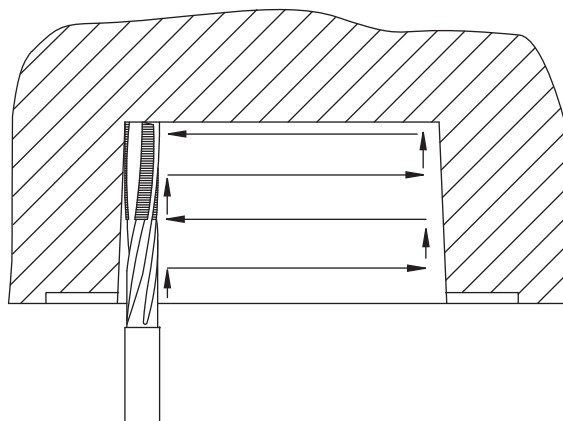
Characteristics

For execution of locks on CNC machines.

Positive propeller: expulsion of the wood-shaving towards the high.



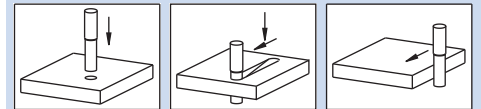
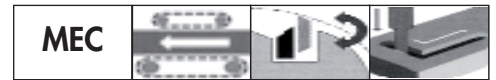
ESEMPIO DI LAVORAZIONE



Fresa a coltellini per serrature.
Cutterhead for locks.
Fraises pour serrures.
Profilfräsen für Schloss.
Fresas con cuchillas para serraduras.

| D | B | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|-----|--------|-----|-------|-----------|
| 16 | 16 | 105 | 150 | Ø16x45 | 2+1 | 12000 | 3073001 |
| | | | | | | | |

3073

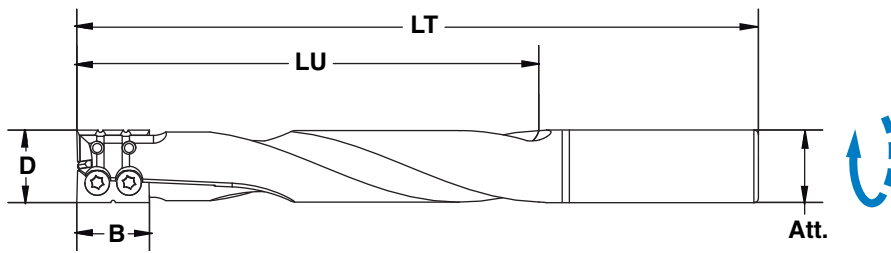


Caratteristiche

Per esecuzione di alloggiamenti per serrature su macchine CNC.
 Corpo costruito con acciaio "DENSIMET".
 Elica positiva: espulsione del truciolo verso l'alto.

Characteristics

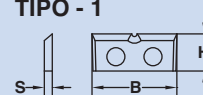
For execution of locks on CNC machines.
 Body produced with "DENSIMET" steel.
 Positive propeller: expulsion of the wood-shaving towards the high.



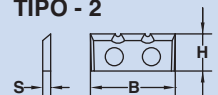
RICAMBI

| | COLTELLI | | VITI |
|------------------|----------|----------|------|
| Dimensioni BxHxS | 16x7x1,5 | 16x7x1,5 | M3x4 |
| ID nr. | 9576001 | 9576002 | 9546 |
| TIPO | 1 | 2 | - |

TIPO - 1



TIPO - 2

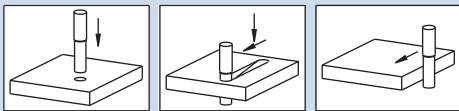


3029



Frese in HM integrale con rompitruciolo per foro spia di porte ELICA POSITIVA.
Twist router drills in HM integral with chipbreaker with POSITIVE PROPELLER for peephole.
Mèches hélicoïdales en HM intégral HÉLICE POSITIVE avec briscopeau pour judas.
Spiralbohrer Oberfräser Spannfutter zu HM integral mit POSITIV PROPELLER für Guckloch.
Fresas en HM macizo con rompeviruta para cerraduras HÉLICE POSITIVA.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|--------|---|-------|-----------|
| 14 | 42 | 100 | Ø14X50 | 3 | 20000 | 3029001 |
| 16 | 52 | 100 | Ø14X50 | 3 | 20000 | 3029002 |



Caratteristiche

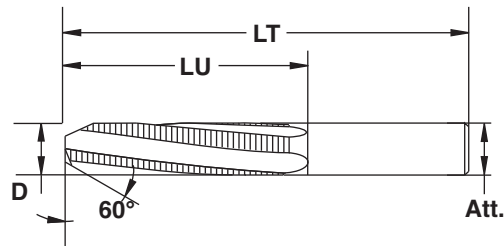
Per esecuzione di fori spia per serrature su macchine CNC.

Elica positiva: espulsione del truciolo verso l'alto.

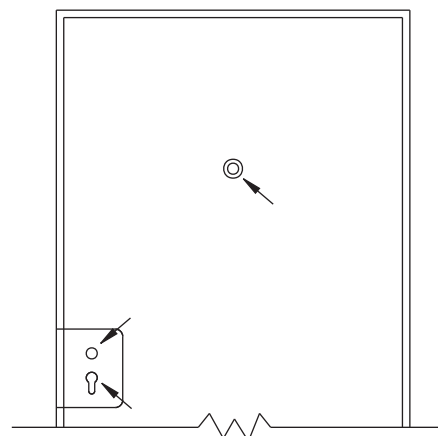
Characteristics

For execution of peephole on CNC machines.

Positive propeller: expulsion of the wood-shaving towards the upper side.



ESEMPIO DI LAVORAZIONE

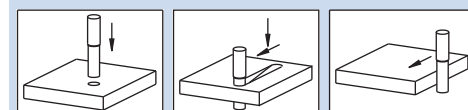


Teste portacoltelli per forare e contornare Z1.
Drilling and edgcutting bits Z1.
 Mèches à percer et contourner Z1.
Wendeplatten nut Schffräser Z1.
 Brocas con cuchillas para taladrar y contornear Z1.

3030

| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|---|-------|-----------------|
| 16 | 30 | Ø20x50 | 1 | 24000 | 3030 005 |
| 16 | 50 | Ø20x50 | 1 | 24000 | 3030 006 |
| 18 | 30 | Ø20x50 | 1 | 24000 | 3030 007 |
| 18 | 50 | Ø20x50 | 1 | 24000 | 3030 001 |
| 20 | 30 | Ø20x50 | 1 | 24000 | 3030 008 |
| 20 | 50 | Ø20x50 | 1 | 24000 | 3030 002 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%

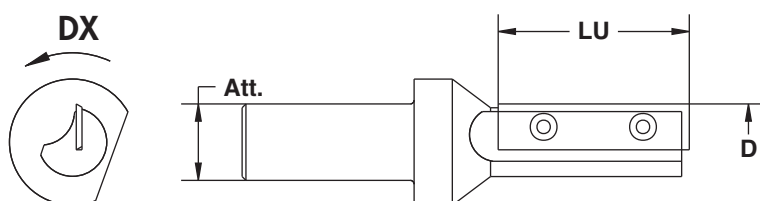


Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 L'ampio scarico frontale rende questa punta particolarmente idonea alla lavorazione di pannelli in truciolare e MDF anche rivestito da ambo i lati.

Characteristics

Execution by HM knives with thickness 1,5mm.
 Its particular execution with a big front room for wood-chip removal, makes this tool particularly indicated on all chipboard and MDF panels also when laminated on both sides.



RICAMBI

| | COLTELLI | | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 50x12x1,5 | M3,5x6 |
| ID nr. | 9514 001 | 9514 002 | 9546 006 |

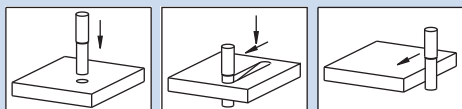
3067



Teste portacoltelli per forare e contornare Z1+1+1.
Drilling and edgecutting bits Z1+1+1.
 Mèches à percer et contourner Z1+1+1.
Wendepplatten nut-Schafffräser Z1+1+1.
 Brocas con cuchillas para taladrar y contornear Z1+1+1.

| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|-------|-------|-----------------|
| 18 | 30 | Ø20x50 | 1+1+1 | 24000 | 3067 001 |
| 20 | 30 | Ø20x50 | 1+1+1 | 24000 | 3067 002 |
| 18 | 50 | Ø20x50 | 1+1+1 | 24000 | 3067 003 |
| 20 | 50 | Ø20x50 | 1+1+1 | 24000 | 3067 004 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%

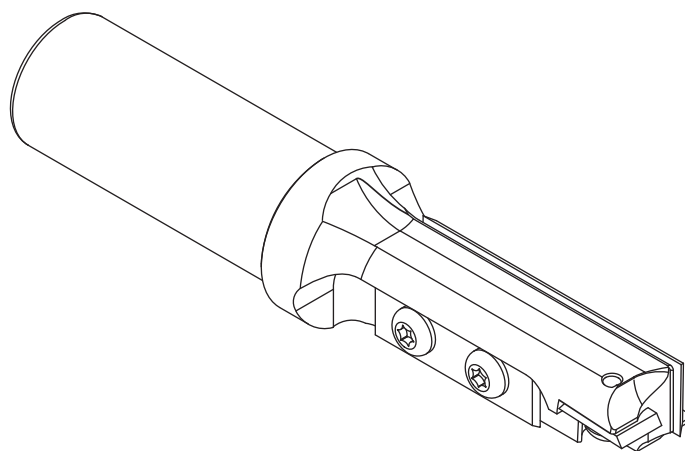
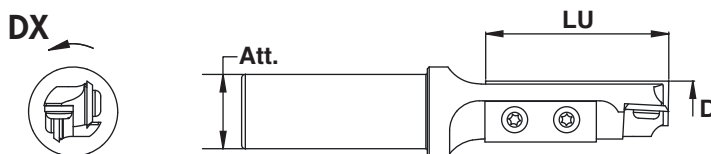


Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 Punta per eseguire lavorazioni di foratura e contornatura particolarmente idonea alla lavorazione di pannelli in truciolare e MDF anche rivestito in ambo i lati.

Characteristics

Execution by HM knives with thickness 1,5mm.
 Tool for drilling and contouring suitable to work MDF panels even if covered in both sides.



RICAMBI

| PER ART. 3067001 | COLTELLI | COLTELLI | COLTELLI | VITI | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 7,65x12x1,5 | 15x12x1,5 | 30x12x1,5 | M3,5x5 | M3,5x6 |
| ID nr. | 9503 001 | 9503 004 | 9514 001 | 9546 029 | 9546 025 |
| PER ART. 3067002 | COLTELLI | COLTELLI | COLTELLI | VITI | VITI |
| Dimensioni | 9,65x12x1,5 | 15x12x1,5 | 30x12x1,5 | M3,5x5 | M3,5x6 |
| ID nr. | 9503 002 | 9503 004 | 9514 001 | 9546 029 | 9546 025 |
| PER ART. 3067003 | COLTELLI | COLTELLI | COLTELLI | VITI | VITI |
| Dimensioni | 7,65x12x1,5 | 30x12x1,5 | 50x12x1,5 | M3,5x5 | M3,5x6 |
| ID nr. | 9503 001 | 9503 006 | 9514 002 | 9546 029 | 9546 025 |
| PER ART. 3067004 | COLTELLI | COLTELLI | COLTELLI | VITI | VITI |
| Dimensioni | 9,65x12x1,5 | 30x12x1,5 | 50x12x1,5 | M3,5x5 | M3,5x6 |
| ID nr. | 9503 002 | 9503 006 | 9514 002 | 9546 029 | 9546 025 |

Teste portacoltelli per forare e contornare Z1+1.

Drilling and edgecutting bits Z1+1.

Mèches à percer et contourner Z1+1.

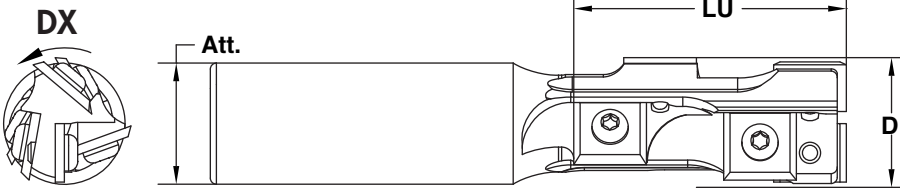
Wendeplatten nut-Schffräser Z1+1.

Brocas con cuchillas para taladrar y contornear Z1+1

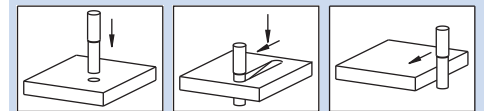
| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|-----|-------|-----------------|
| 22 | 36 | Ø20x50 | 1+1 | 24000 | 3074 001 |
| 22 | 45 | Ø20x50 | 1+1 | 24000 | 3074 002 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%



3074



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm. Particolarmente idonea per esecuzione di foratura e contornatura di legni teneri, duri ed incollati.

E' composta da 1 coltello in testa per la foratura e da coltelli di fianco per la contornatura.

Characteristics

Execution with HM inserts of 1,5mm thickness. Particularly indicated on hard, natural woods, and glued panels.

It is made with 1 bottom insert to drill and inserts to edge.

RICAMBI

| | COLTELLI | COLTELLI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 9,65x12x1,5 | 12x12x1,5 | M3,5x6 |
| ID nr. | 9503 002 | 9503 003 | 9546 025 |

3032



Teste portacoltelli per forare e contornare Z2+1.

Drilling and edgecutting bits Z2+1.

Mèches à percer et contourner Z2+1.

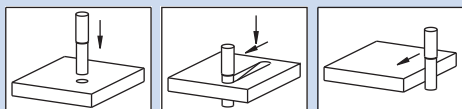
Wendepplatten nut-Schiffräser Z2+1.

Brocas con cuchillas para taladrar y contornear Z2+1.

| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|-----|-------|-----------------|
| 30 | 30 | Ø20x50 | 2+1 | 18000 | 3032 003 |
| 30 | 50 | Ø20x50 | 2+1 | 18000 | 3032 001 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%



Caratteristiche

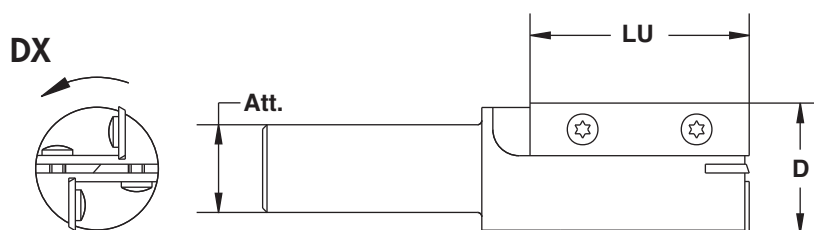
Esecuzione con coltelli in HM spessore 1,5mm. Particolarmente idonea per esecuzione di foratura e contornatura di legni teneri, duri ed incollati.

E' composta da 1 coltello in testa per la foratura e di 2 coltelli di fianco per la contornatura.

Characteristics

Execution by HM knives with thickness 1,5mm. Particularly indicated on hard, natural woods and glued panels.

It is made with 1 bottom knife to drill and 2 knives to edge.



RICAMBI

| | COLTELLI | | COLTELLI A FORARE | VITI |
|------------|-----------------|-----------------|-------------------------|-----------------|
| Dimensioni | 30x12x1,5 | 50x12x1,5 | 15x12x1,5-DOPPIO SCARTO | M3,5x6 |
| ID nr. | 9514 001 | 9514 002 | 3032 051 | 9546 006 |

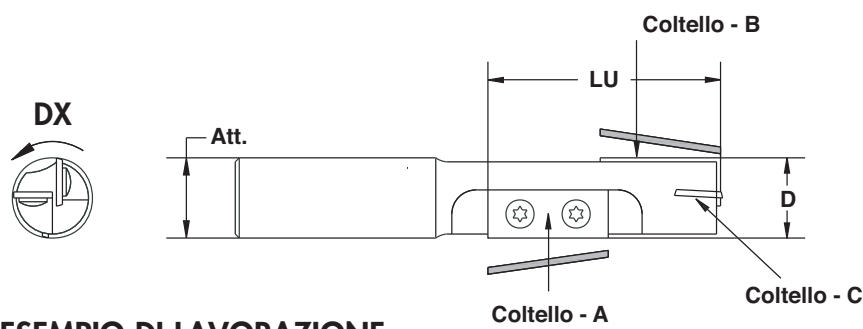
Teste portacoltelli per forare e contornare Z2+1 con tagli sfalsati.
Drilling and edgecutting bits Z2+1 with slanted cuts.
 Mèches à percer et contourner Z2+1 avec coupes inclinés.
Wendepplatten nut-Schafffräser Z2+1 mit schiefe schnitt.
 Brocas con cuchillas alternadas para taladrar y contornear Z2+1.

3033

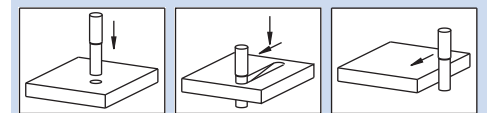
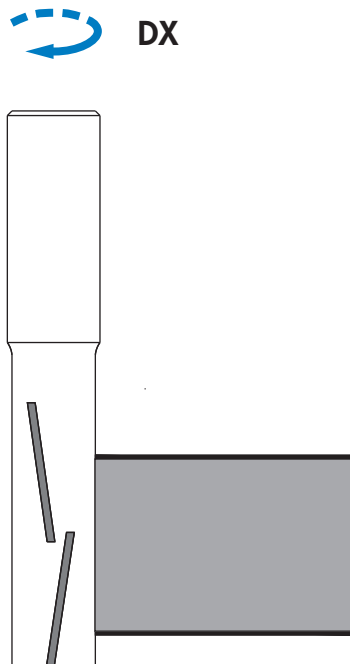


| D | LU | Att. | Z | rpm | ID nr. DX |
|----|----|--------|-----|-------|-----------|
| 20 | 58 | Ø20x50 | 2+1 | 20000 | 3033001 |
| | | | | | |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



ESEMPIO DI LAVORAZIONE



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 Particolarmente idonea per lavorazione di legni duri, incollati, truciolari e MDF non rivestiti con ottima finitura superficiale.

Characteristics

Execution by HM knives with thickness 1,5mm.
 Particularity indicated on non-laminated hard, glued woods, chipboards and MDF with a very good superficial quality.

RICAMBI

| | COLTELLO-A | COLTELLO-B | COLTELLO-C | VITI |
|------------|------------|------------|-------------|---------|
| Dimensioni | 30x12x1,5 | 30x12x1,5 | 9,65x12x1,5 | M3,5x6 |
| ID nr. | 9503006 | 9514001 | 9503002 | 9546006 |

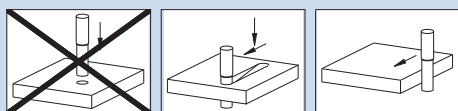
3066



Punte per contornare ambidestre Z2+2 con attacco cilindrico.
Drills for surround ambidextrous Z2+2 with cylindrical shank.
 Méches à contourner ambidextre Z2+2 avec attaque cylindrique.
Boher zu umgeben beidhändig Z2+2 mit Konisch Angriff.
 Brocas bilaterales Z2+2 para contornear con enchufe cilíndrico.

| D | L-DX | L-SX | LT | T | Att. | Z | ID nr. |
|----|------|------|-----|----|--------|-----|-----------------|
| 30 | 30 | 30 | 145 | 45 | Ø25x55 | 2+2 | 3066 001 |
| 30 | 50 | 50 | 185 | 65 | Ø25x55 | 2+2 | 3066 002 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%

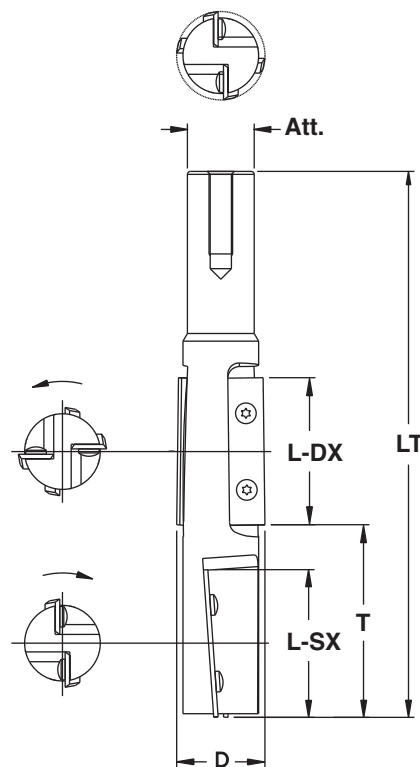


Caratteristiche

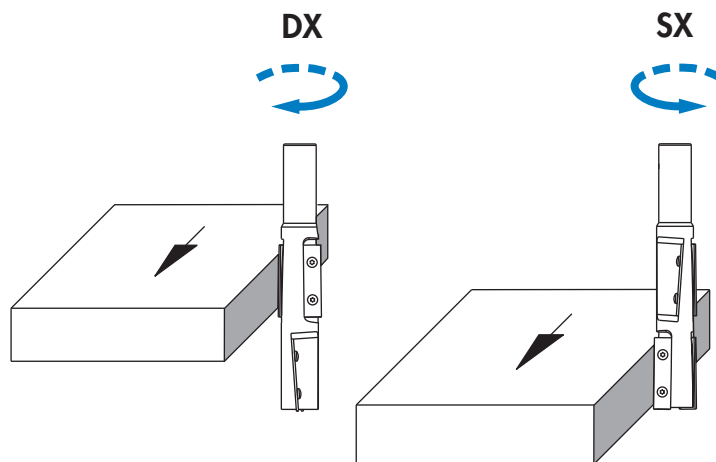
Esecuzione con coltelli in HM spessore 1,5mm.
 Idonea per eseguire squadrate.
 Molto utilizzata su pantografi a CNC in quanto consente di risparmiare tempo sui cambi utensile.
 Particolarmente adatta a lavorare a medie velocità di taglio con ottima finitura della superficie lavorata del pannello.

Characteristics

Execution by HM knives with thickness 1,5mm.
 Indicated for make squares.
 Frequently suitable on CNC pantograph because it gives the possibility to save time in changing.
 Excellent for working at middle speed with perfect finish of panel.



ESEMPI DI LAVORAZIONE



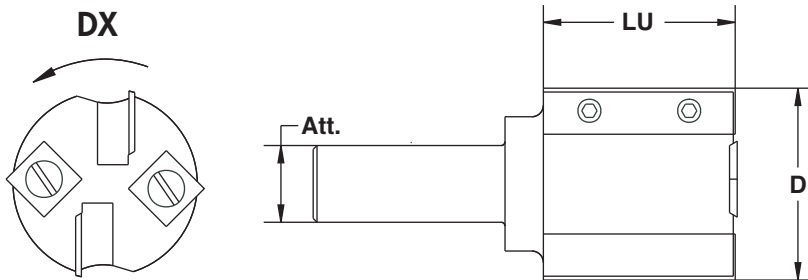
RICAMBI

| | COLTELLI | | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x12x1,5 | 50x12x1,5 | M3,5x6 |
| ID nr. | 9503 006 | 9503 008 | 9546 006 |

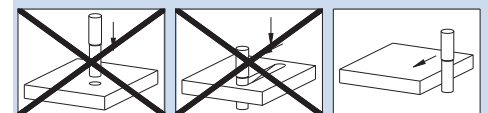
Teste portacoltelli per eseguire battute e contornare Z2+V2.
Cutterheads to execute rebats and countours Z2+V2.
 Têtes porte-couteaux pour faire countours et feillures Z2+V2.
Profilmesserköpf Z2+V2.
 Brocas con cuchillas para galcear y contornear Z2+V2.

| D | LU | Att. | Z | V | rpm | ID nr. DX |
|----|----|--------|---|---|-------|-----------|
| 50 | 50 | Ø20x50 | 2 | 2 | 18000 | 3035001 |
| | | | | | | |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



3035



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 Punta per contornare a taglienti diritti.
 Particolarmente idonea per lavorazione di pannelli in legno tenero, duro, truciolare non rivestiti o altro.

Characteristics

Execution by HM knives with thickness 1,5mm.
 Particularly indicated on soft, hard wood, panels and chipboard and more.

RICAMBI

| | COLTELLI | LARDONI | VITI | RASANTI | VITI |
|------------|-----------|-----------|---------|---------|---------|
| Dimensioni | 50x12x1,5 | 48x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503008 | 9545008 | 9546018 | 9508002 | 9546005 |
| | | | | | |

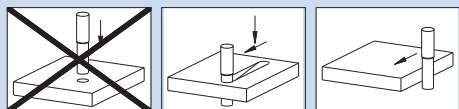
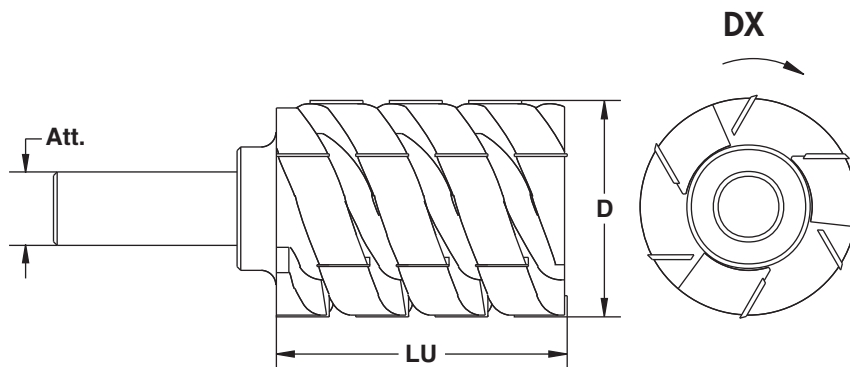
3036

Teste portacoltelli multitaglienti per battute e contornature.
Cutterheads multicuts to execute rebats and contours.
 Têtes porte-couteaux multidentés pour faire contours et feuillures.
Profilmesserköpfe multischneiden.
 Brocas con cuchillas para galgear y contornear.



| D | LU | Att. | n° coltelli | Z | rpm | ID nr. DX |
|----|-----|--------|-------------|---|-------|-----------|
| 50 | 70 | Ø20x50 | 21 | 6 | 20000 | 3036001 |
| 50 | 100 | Ø25x55 | 30 | 6 | 20000 | 3036002 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Caratteristiche

Esecuzione con placchette disposte su sedi ad andamento spiroidale.

Detta esecuzione garantisce una notevole diminuzione della rumorosità e dell'assorbimento di energia, permette di aumentare notevolmente la velocità di avanzamento.

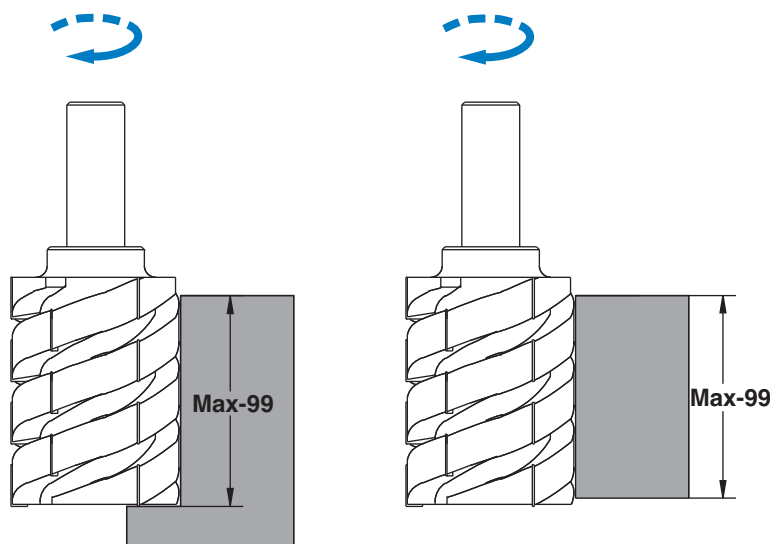
Particolarmente indicata per eseguire lavorazioni di spianature e battenti in fase di sgrossature su legni teneri, duri, truciolari, compensati o altro.

Characteristics

Execution made by tips placed on a spiral design to allow big noise reduction and power consumption together with a great increase of the advancing speed.

Particularly recommended for roughing operation on planing, rebating on soft, hard wood, chipboard and plywood and more.

ESEMPI DI LAVORAZIONE



RICAMBI

| | COLTELLI | VITI |
|------------------|-----------|---------|
| Dimensioni BxHxS | 12x12x1,5 | M3,5x6 |
| ID nr. | 9503003 | 9546006 |

Testa portacoltelli per spianare Z3.

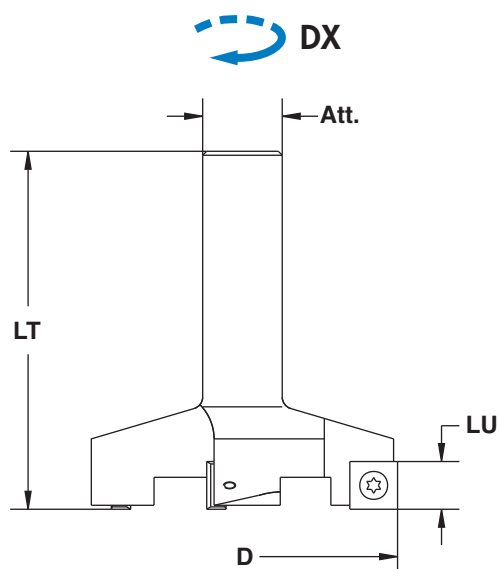
Planer cutterhead Z3.

Tête porte-couteaux pour raboter Z3.

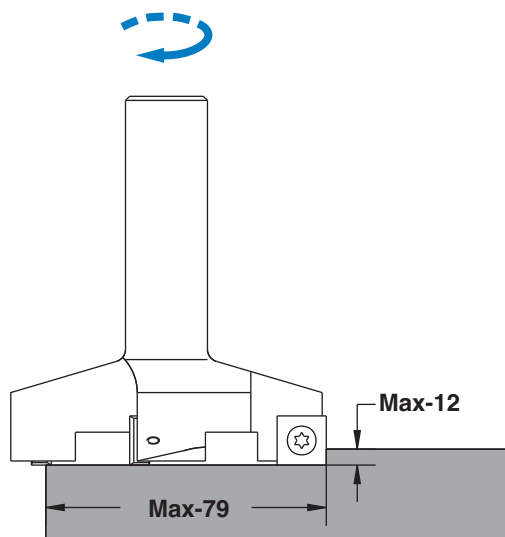
Messerköpf Z3.

Brocas con cuchillas para alisar Z3.

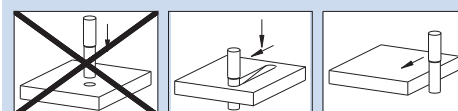
| D | LT | LU | Att. | Z | rpm | ID nr. DX |
|-----|----|----|--------|---|-------|-----------------|
| 80 | 90 | 12 | Ø20x50 | 3 | 12000 | 3037 001 |
| 120 | 90 | 12 | Ø25x55 | 5 | 10500 | 3037 002 |



ESEMPIO DI LAVORAZIONE



3037



Caratteristiche

Impiego per la spianatura di superfici ampie e l'esecuzione di grandi battute in unica passata.

Characteristics

Suitable for flattening large areas and making rebates in just one passage.

RICAMBI

| | COLTELLI | VITI |
|------------------|-----------------|-----------------|
| Dimensioni BxHxS | 12x12x1,5 | M3,5x6 |
| ID nr. | 9503 003 | 9546 006 |

3038

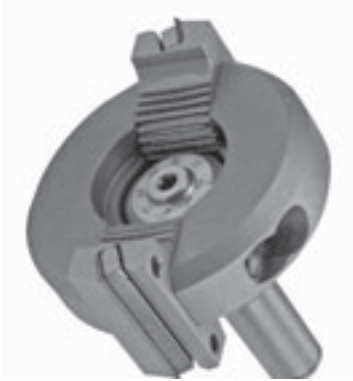
Testa portacoltelli per smussi orientabile da -45° a $+90^\circ$.

Bevelling cutterhead adjustable between -45° and $+90^\circ$.

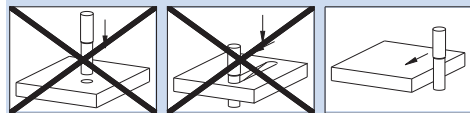
Fraise pour chanfreus réglable de -45° à $+90^\circ$.

Messerköpf verstellbereich von -45° zu $+90^\circ$.

Brocas con cuchillas para cortes inclinados con una orientación de -45° a $+90^\circ$.



| D | B | LT | Att. | rpm | Z | ID nr. DX |
|-----|----|-----|--------|-------|---|-----------------|
| 100 | 50 | 115 | Ø20x50 | 10000 | 2 | 3038 001 |
| | | | | | | |

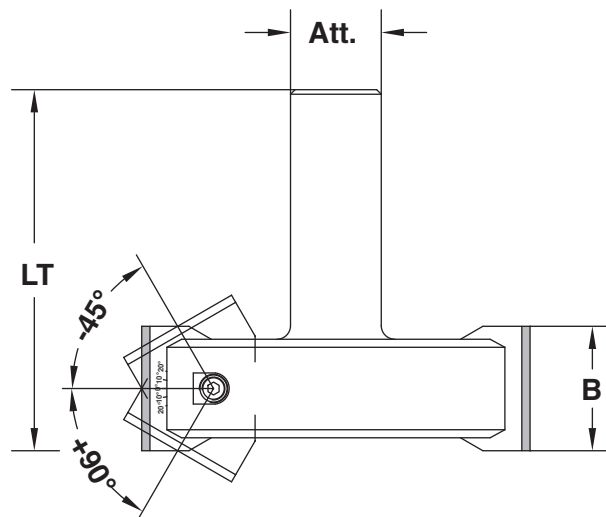
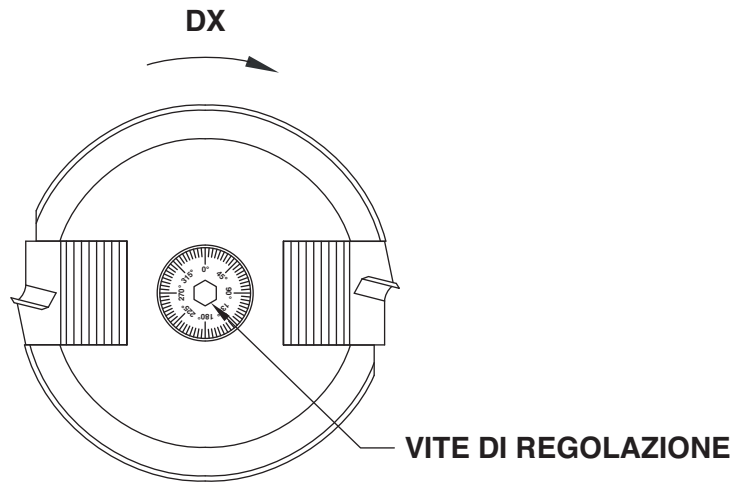


Caratteristiche

Testa portacoltelli per smussi con regolazione manuale dell'angolo di inclinazione (1 tacca= 1°).

Characteristics

Bevelling cutterhead with manually regulation (1 nik= 1°).



RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x12x1,5 | 45x10x5 | M6x6 |
| ID nr. | 9514 053 | 9545 081 | 9546 024 |
| | | | |

Teste portacoltelli ricoperti per forare e contornare Z1 in HM.

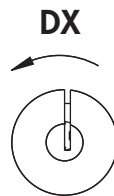
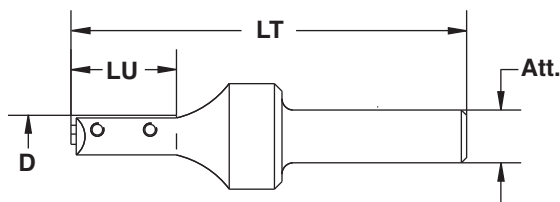
Drilling and edging bits Z1 in HM.

Mèches à percer et à contourner Z1 en HM.

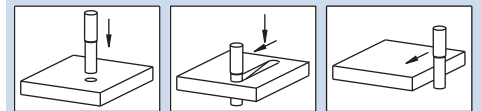
Vielzahn Schruppfräser Z1 zu HM.

Brocas en HM con cuchillas tapadas para taladrar y contornear Z1.

| D | LU | LT | Att. | Z | rpm | ID nr. DX |
|----|----|-----|------|---|-------|-----------------|
| 8 | 20 | 80 | Ø12 | 1 | 30000 | 3039 001 |
| 10 | 20 | 80 | Ø12 | 1 | 30000 | 3039 002 |
| 12 | 20 | 80 | Ø12 | 1 | 30000 | 3039 003 |
| 14 | 30 | 90 | Ø12 | 1 | 30000 | 3039 004 |
| 14 | 50 | 110 | Ø12 | 1 | 30000 | 3039 005 |



3039



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm. Particolarmente idonea per esecuzione di asole di piccola dimensione su legni teneri, duri, incollati, truciolari e MDF.

Characteristics

Execution by HM knives with thickness 1,5mm. Particularity indicated for small buttonhole executions on soft, hard, glued woods, chipboard on MDF.

RICAMBI

| | COLTELLI | | | VITI | CHIAVE |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Per Ø | 8÷12 | 14 | 14 | TUTTI I Ø | ESAGONALE |
| Dimensioni | 20x5,5x1,1 | 30x10x1,5 | 50x10x1,5 | M2,5x2,5 | 1,3 |
| ID nr. | 3039 051 | 3039 052 | 3039 053 | 3039 061 | 3039 071 |

3041



Teste per pantografo per arrotondare spigoli vivi su entrambi i lati del pannello.
Pantograph cutter designed for making rebates with corner bevelling.
Têtes pour pantograph pour executer feuillures avec arrondissement de l'ange.
Fräses für Pantograph zu abschrägen die Kanten.
Brocas para fresadora para redondear cantos en ambos lados del panel.

| D | d/min | LT | Att. | R | Z | rpm | ID nr. DX |
|----|-------|-----|--------|-----|---|-------|-----------------|
| 40 | 27 | 100 | Ø20x50 | 1,5 | 2 | 18000 | 3041 001 |
| 40 | 27 | 100 | Ø20x50 | 2 | 2 | 18000 | 3041 002 |
| 40 | 27 | 100 | Ø20x50 | 3 | 2 | 18000 | 3041 003 |
| 40 | 27 | 100 | Ø20x50 | 4 | 2 | 18000 | 3041 004 |
| 40 | 27 | 100 | Ø20x50 | 5 | 2 | 18000 | 3041 005 |

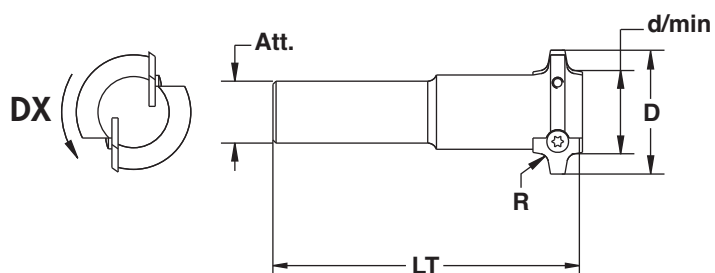


Caratteristiche

Fresa a gambo con coltellini intercambiabili per fresare profili arrotondati diversi, con gruppi portante, particolarmente adatto per eseguire profili con raggi interni piccoli.

Characteristics

Router bits with throwaway knives for milling different profiles, particularly suitable for making profiles with small inside radius.



RICAMBI

| | COLTELLI | VITI |
|------------------|------------------|-----------------|
| IMPIEGO | R1,5-R2-R3-R4-R5 | PER COLTELLI |
| Dimensioni BxHxS | 16x17,5x2 | M3,5x6 |
| ID nr. | 9536 002 | 9546 006 |

Gruppi per arrotondare e smussare in lega leggera per pantografo Z2.

Set of rounding-off and chamfering cutters in aluminium Z2.

Groupe de fraises pour arrondier et biseauter en alluminium Z2.

Fräsergruppe für abrundungen und abkantungen zu Aluminium Z2.

Juego de cabezales en aleación ligera para fresadora para redondear y cantear Z2.

3040

| COMPOSIZIONE A-B | | |
|------------------|----------------------------|--------------------|
| Raggio+Smusso | Sp. Pannello per 1/2 tondo | ID nr. |
| 2-45° | 4 | 3040 001-01 |
| 3-45° | 6 | 3040 001-02 |
| 4-45° | 8 | 3040 001-03 |
| 5-45° | 10 | 3040 001-04 |
| 6-45° | 12 | 3040 001-05 |

| COMPOSIZIONE A-E-B | | |
|--------------------|-------------------------|--------------------|
| Raggio+Smusso | Sp. Pannelli lavorabili | ID nr. |
| 2-45° | 12÷22 | 3040 001-06 |
| 3-45° | 14÷24 | 3040 001-07 |
| 4-45° | 16÷26 | 3040 001-08 |
| 5-45° | 18÷28 | 3040 001-09 |
| 6-45° | 20÷30 | 3040 001-10 |

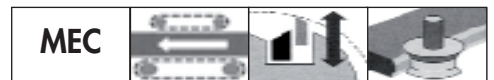
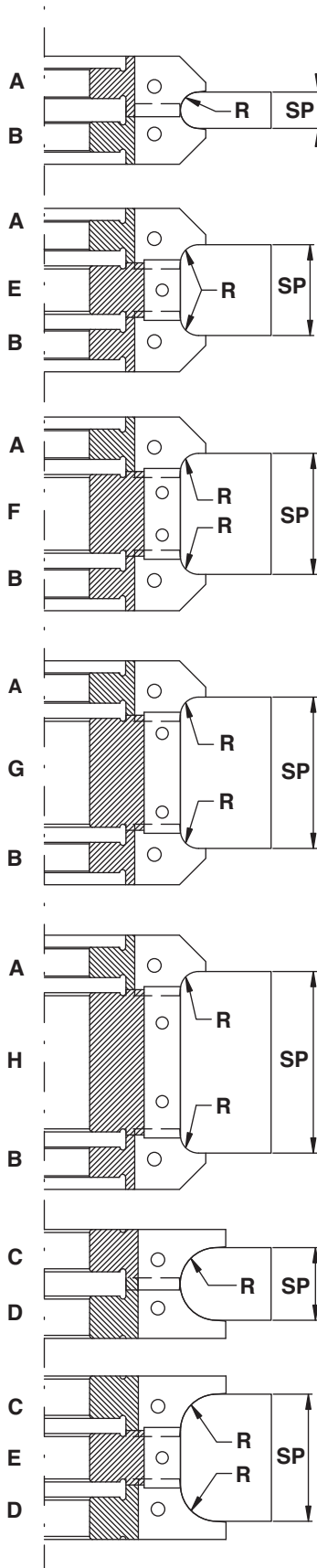
| COMPOSIZIONE A-F-B | | |
|--------------------|-------------------------|--------------------|
| Raggio+Smusso | Sp. Pannelli lavorabili | ID nr. |
| 2-45° | 22÷32 | 3040 001-11 |
| 3-45° | 24÷34 | 3040 001-12 |
| 4-45° | 26÷36 | 3040 001-13 |
| 5-45° | 28÷38 | 3040 001-14 |
| 6-45° | 30÷40 | 3040 001-15 |

| COMPOSIZIONE A-G-B | | |
|--------------------|-------------------------|--------------------|
| Raggio+Smusso | Sp. Pannelli lavorabili | ID nr. |
| 2-45° | 32÷42 | 3040 001-16 |
| 3-45° | 34÷44 | 3040 001-17 |
| 4-45° | 36÷46 | 3040 001-18 |
| 5-45° | 38÷48 | 3040 001-19 |
| 6-45° | 40÷50 | 3040 001-20 |

| COMPOSIZIONE E A-H-B | | |
|----------------------|-------------------------|--------------------|
| Raggio+Smusso | Sp. Pannelli lavorabili | ID nr. |
| 2-45° | 42÷52 | 3040 001-21 |
| 3-45° | 44÷54 | 3040 001-22 |
| 4-45° | 46÷56 | 3040 001-23 |
| 5-45° | 48÷58 | 3040 001-24 |
| 6-45° | 50÷60 | 3040 001-25 |

| COMPOSIZIONE C-D | | |
|------------------|----------------------------|--------------------|
| Raggio | Sp. Pannello per 1/2 tondo | ID nr. |
| 6 | 12 | 3040 002-01 |
| 7 | 14 | 3040 002-02 |
| 8 | 16 | 3040 002-03 |
| 9 | 18 | 3040 002-04 |
| 10 | 20 | 3040 002-05 |
| 11 | 22 | 3040 002-06 |
| 12 | 24 | 3040 002-07 |

| COMPOSIZIONE C-E-D | | |
|--------------------|-------------------------|--------------------|
| Raggio | Sp. Pannelli lavorabili | ID nr. |
| 6 | 20÷30 | 3040 002-08 |
| 7 | 22÷32 | 3040 002-09 |
| 8 | 24÷34 | 3040 002-10 |
| 9 | 26÷36 | 3040 002-11 |
| 10 | 28÷38 | 3040 002-12 |
| 11 | 30÷40 | 3040 002-13 |
| 12 | 32÷42 | 3040 002-14 |



Caratteristiche

La particolarità di questo gruppo consiste nel poter intercambiare fra loro le varie teste, ottenendo così diverse spigolature e diversi spessori del legno. Inoltre invertendo la posizione delle frese sul mandrino, questo gruppo può ruotare sia DX che SX. Il gruppo viene fornito senza attacco. Al momento dell'ordine indicare il tipo di attacco desiderato. Su richiesta, per pannelli con spessori diversi, è possibile creare qualsiasi combinazione.

Characteristics

The particularity of this group is that it is possible to interchange the different cutters, obtaining in this way different radius and thickness. This set is supplied without shank. When ordering specify the shank wanted. For panels with different thickness it is possible to realise many combinations on request.

3040



Caratteristiche

La particolarità di questo gruppo consiste nel poter intercambiare fra loro le varie teste, ottenendo così diverse spigolature e diversi spessori del legno. Inoltre invertendo la posizione delle frese sul mandrino, questo gruppo può ruotare sia DX che SX. Il gruppo viene fornito senza attacco. Al momento dell'ordine indicare il tipo di attacco desiderato. Su richiesta, per pannelli con spessori diversi, è possibile creare qualsiasi combinazione.

Characteristics

The particularity of this group is that it is possible to interchange the different cutters, obtaining in this way different radius and thickness. This set is supplied without shank. When ordering specify the shank wanted. For panels with different thickness it is possible to realise many combinations on request.

Gruppi per arrotondare e smussare in lega leggera per pantografo Z2.

Set of rounding-off and chamfering cutters in aluminium Z2.

Groupe de fraises pour arrondir et biseauter en aluminium Z2.

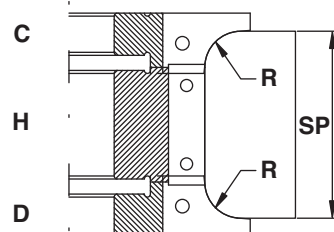
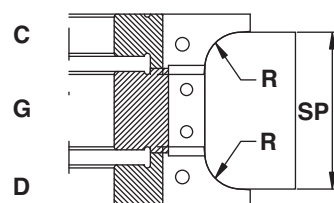
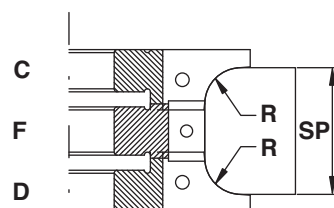
Fräsergruppe für abrundungen und abkantungen zu Aluminium Z2.

Juego de cabezales en aleación ligera para fresadora para redondear y cantear Z2.

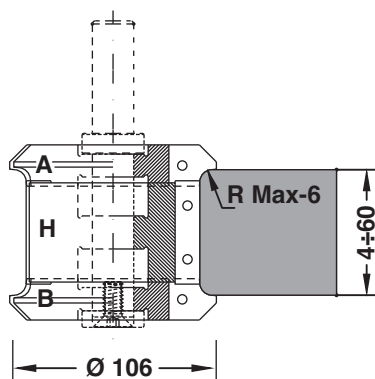
| COMPOSIZIONE C-F-D | | |
|--------------------|-------------------------|--------------------|
| Raggio | Sp. Pannelli lavorabili | ID nr. |
| 6 | 30÷40 | 3040 002-15 |
| 7 | 32÷42 | 3040 002-16 |
| 8 | 34÷44 | 3040 002-17 |
| 9 | 36÷46 | 3040 002-18 |
| 10 | 38÷48 | 3040 002-19 |
| 11 | 40÷50 | 3040 002-20 |
| 12 | 42÷52 | 3040 002-21 |

| COMPOSIZIONE C-G-D | | |
|--------------------|-------------------------|--------------------|
| Raggio | Sp. Pannelli lavorabili | ID nr. |
| 6 | 40÷50 | 3040 002-22 |
| 7 | 42÷52 | 3040 002-23 |
| 8 | 44÷54 | 3040 002-24 |
| 9 | 46÷56 | 3040 002-25 |
| 10 | 48÷58 | 3040 002-26 |
| 11 | 50÷60 | 3040 002-27 |
| 12 | 52÷62 | 3040 002-28 |

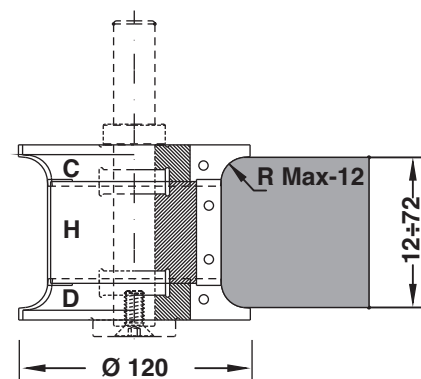
| COMPOSIZIONE C-H-D | | |
|--------------------|-------------------------|--------------------|
| Raggio | Sp. Pannelli lavorabili | ID nr. |
| 6 | 50÷60 | 3040 002-29 |
| 7 | 52÷62 | 3040 002-30 |
| 8 | 54÷64 | 3040 002-31 |
| 9 | 56÷66 | 3040 002-32 |
| 10 | 58÷68 | 3040 002-33 |
| 11 | 60÷70 | 3040 002-34 |
| 12 | 62÷72 | 3040 002-35 |

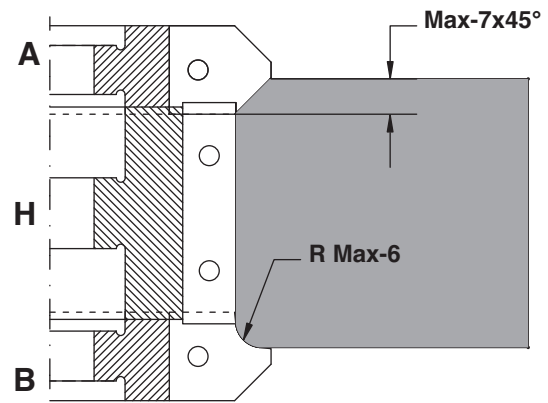
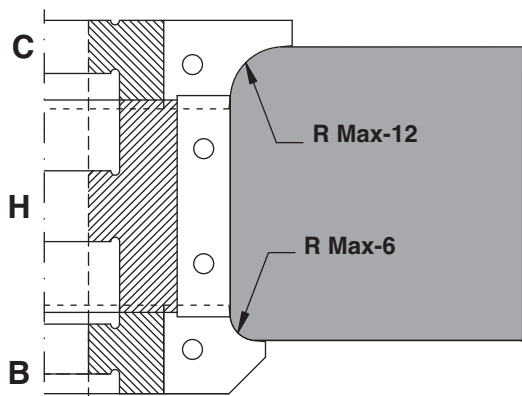
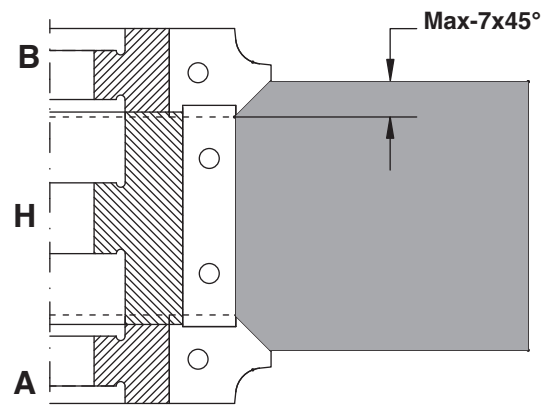
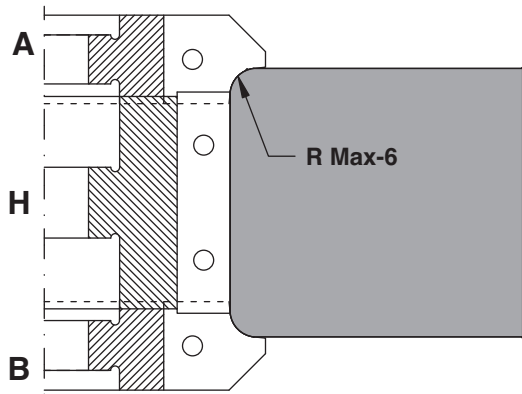


DX



DX





RICAMBI

| | COLTELLI SAGOMATI | | | |
|------------------|--------------------|--------------------|--------------------|--------------------|
| Raggio | 2-45° | 3-45° | 4-45° | 5-45° |
| Dimensioni BxHxS | 20x25x2 | 20x25x2 | 20x25x2 | 20x25x2 |
| ID nr. DX | 9538 001-01 | 9538 001-02 | 9538 001-03 | 9538 001-04 |
| ID nr. SX | 9538 002-01 | 9538 002-02 | 9538 002-03 | 9538 002-04 |
| Raggio | 6-45° | 6 | 7 | 8 |
| Dimensioni BxHxS | 20x25x2 | 20x30x2 | 20x30x2 | 20x30x2 |
| ID nr. DX | 9538 001-05 | 9538 003-01 | 9538 003-02 | 9538 003-03 |
| ID nr. SX | 9538 002-05 | 9538 004-01 | 9538 004-02 | 9538 004-03 |
| Raggio | 9 | 10 | 11 | 12 |
| Dimensioni BxHxS | 20x30x2 | 20x30x2 | 20x30x2 | 20x30x2 |
| ID nr. DX | 9538 003-04 | 9538 003-05 | 9538 003-06 | 9538 003-07 |
| ID nr. SX | 9538 004-04 | 9538 004-05 | 9538 004-06 | 9538 004-07 |

| | COLTELLI STANDARD | | | |
|------------------|-------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 20x12x1,5 | 30x12x1,5 | 40x12x1,5 | 50x12x1,5 |
| ID nr. | 9503 005 | 9503 006 | 9503 007 | 9503 008 |

| | LARDONI PER COLTELLI STANDARD | | | |
|------------|-------------------------------|-----------------|-----------------|-----------------|
| Dimensioni | 18x12x7,5 | 28x12x7,5 | 38x12x7,5 | 48x12x7,5 |
| ID nr. | 9545 005 | 9545 006 | 9545 007 | 9545 008 |

| | LARDONI PER COLTELLI STANDARD | VITI PER LARDONI |
|------------|-------------------------------|------------------|
| Dimensioni | 18x12x7,5 | M6x12 |
| ID nr. | 9545 005 | 9546 016 |

3042



MAN



Caratteristiche

Esecuzione Z1 con angolo assiale. Coltello in HM spessore 1,5mm.

Particolarmente idonea per lavorazioni interne decorative su tutti i tipi di legno MDF e truciolare.

Characteristics

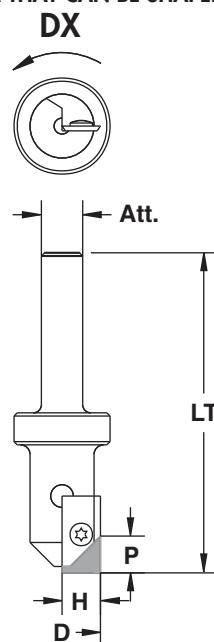
With Z1 shear angle cutting edge and HM profiled knives with thickness 1,5mm.

Particularly indicated for internal decorations on all type of wood, MDF and chipboard.

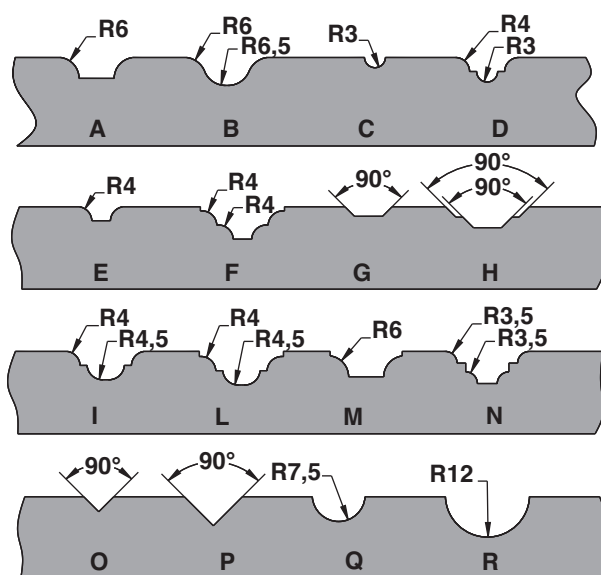
Teste portacoltelli multiprofilati per sagomatura interna di pannelli Z1.
Multiprofiles cutterheads to execute internal shaped of pannels Z1.
 Têtes multiprofilés pour profiler l'intérieur des panneaux Z1.
Multi-profilmesserköpfe Z1.
 Brocas con cuchillas multiperfiles para molduras internas de los paneles Z1.

| D | H | P | LT | Att. | Z | rpm | ID nr. DX |
|----|----|---|-----|--------|---|-------|-----------|
| 24 | 12 | 8 | 100 | Ø12x50 | 1 | 24000 | 3042001 |

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



ESEMPI DI PROFILI ESEGUIBILI



RICAMBI

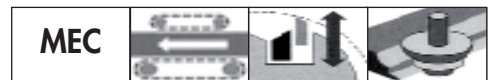
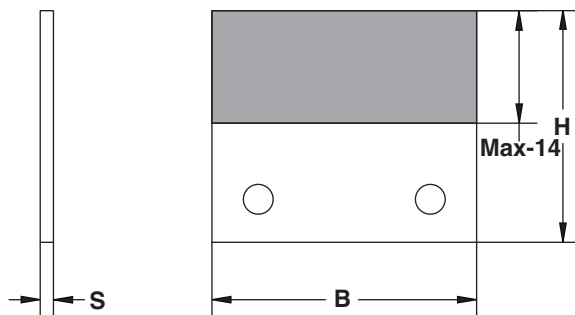
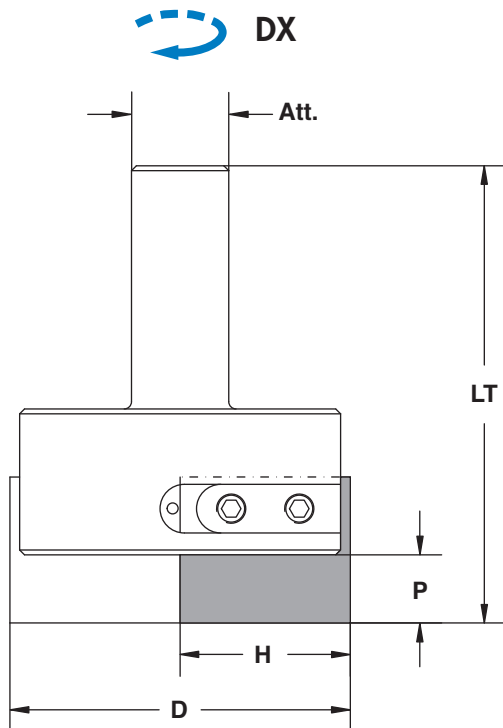
| | COLTELLI | | VITI |
|------------------|-------------|-------------|---------|
| | SAGOMATI | DA SAGOMARE | |
| Dimensioni BxHxS | 27,5x12x1,5 | 27,5x12x1,5 | M3,5x6 |
| ID nr. DX | 3042051 | 3042061 | 9546006 |

Teste multiprofilati per sagomatura interna di pannelli Z2.
Multiprofile cutterheads for making internal profile of pannels Z2.
 Têtes multiprofil pour profiler l'intérieur des panneaux Z2.
Multi-profilemessenköpfe multischneiden Z2.
 Brocas con cuchillas para perfiles multiples Z2.

3043

| D | H | P | LT | Att. | Z | rpm | ID nr. DX |
|----|----|----|-----|--------|---|-------|-----------|
| 65 | 30 | 14 | 110 | Ø20x50 | 2 | 18000 | 3043001 |
| | | | | | | | |

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



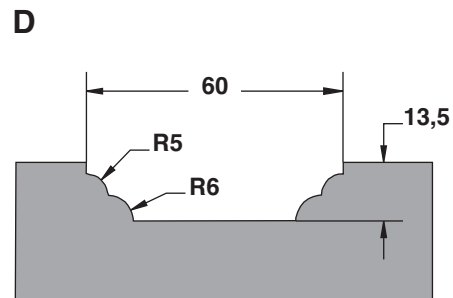
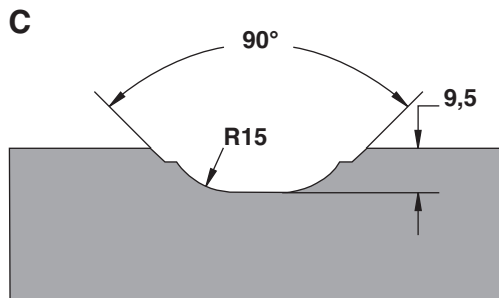
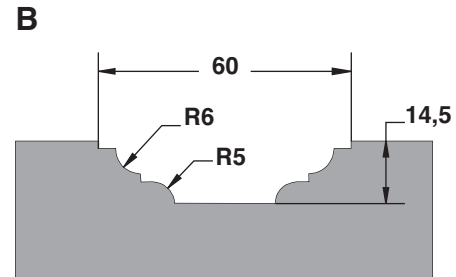
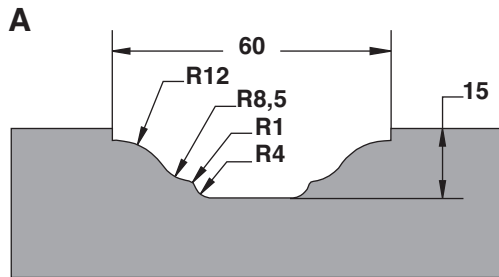
Caratteristiche

Corpo utensile esclusi coltelli e controcoltelli.
 Esecuzione Z2 con coltello in HM Sp =2mm,
 per esecuzione di profili sagomati all'interno
 dell'area H±P.
 Particolarmente idonea per lavorazioni interne
 decorative su tutti i tipi di legno, MDF e
 truciolare.

Characteristics

The tool is supplied without knives and without
 back-knives.
 This cutterhead is with 2 HM knives of
 thickness=2mm for execution of shaped profiles
 inside the area H±P.
 Particularity indicated for internal decorations on
 all type of wood, MDF and chipboard.

ESEMPI DI PROFILI ESEGUIBILI



RICAMBI

Al momento dell'ordine indicare il profilo desiderato
When ordering always specify the profile

| | COLTELLI DA SAGOMARE | COLTELLI SAGOMATI |
|------------------|----------------------|-------------------|
| Dimensioni BxHxS | 35x30x2 | 35x30x2 |
| ID nr. | 3043 101 | 3043 051 |

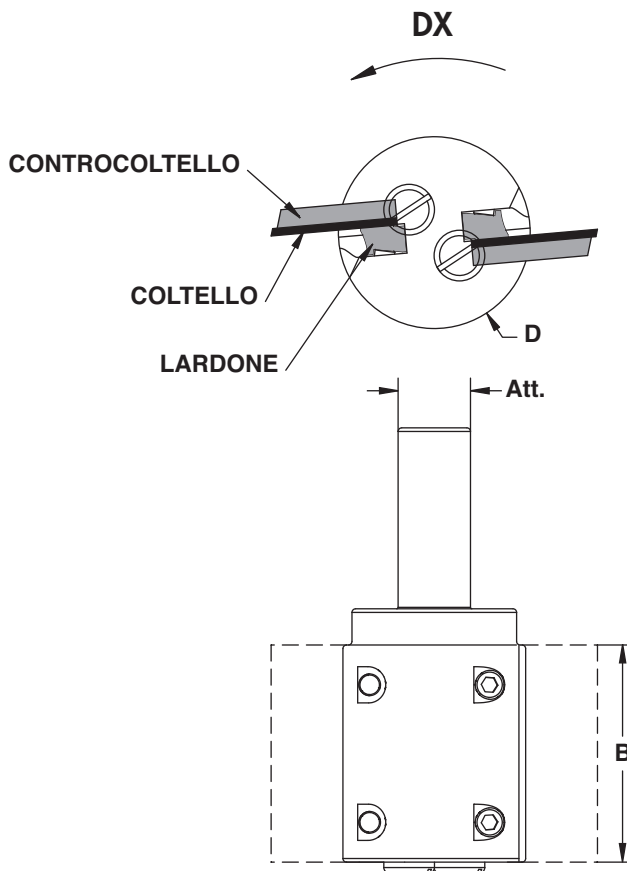
| | CONTROCOLTELLI DA SAGOMARE | CONTROCOLTELLI SAGOMATI |
|------------------|----------------------------|-------------------------|
| Dimensioni BxHxS | 30x27x5 | 30x27x5 |
| ID nr. | 3043 201 | 3043 301 |

| | VITI |
|------------|-----------------|
| Dimensioni | M6x16 |
| ID nr. | 9546 018 |

Teste portacoltelli multiprofilati.
Multiprofile router cutterheads.
 Têtes multiprofil pour defonceuse porte-couteaux.
Multi-profilerkopf für Pantograph.
 Brocas con cuchillas para perfiles multiples.

3044

| D | B | Att. | Z | rpm | ID nr. DX |
|----|----|--------|---|-------|-----------|
| 53 | 40 | Ø20x50 | 2 | 12000 | 3044001 |
| 53 | 60 | Ø20x50 | 2 | 9000 | 3044003 |



Caratteristiche

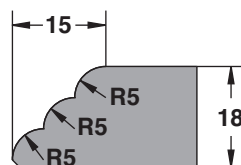
Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 2 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

Characteristics

The tool is supplied without knives and without back-knife.
 This cutterhead is with 2 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used for make differents profiles just changing knives and back-knives.

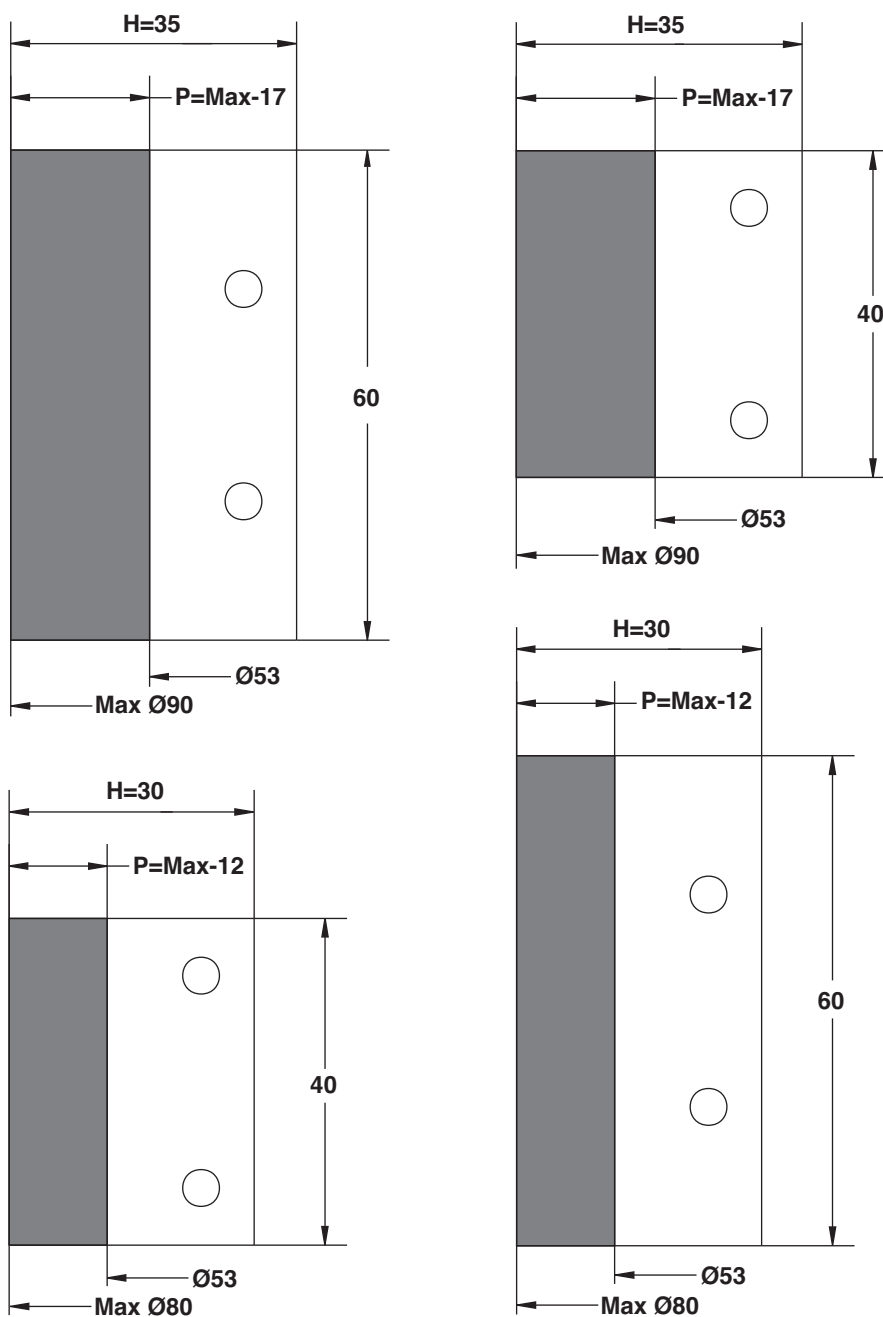
Come determinare il prezzo - ESEMPIO: How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=15 B=18



N°1 Testa portacoltelli + N°2 Coltelli sagomati + N°2 Controcoltelli sagomati
 N°1 Cutterhead + N°2 Shaped knives + N°2 Shaped back-knives
 N°1 ART.3044001 + N°2 ART.9519021 + N°2 ART.9519305

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 120 | 9519 121 | 9519 128 | 9519 129 |

COLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 020 | 9519 021 | 9519 028 | 9519 029 |

CONTROCOLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 204 | 9519 205 | 9519 207 | 9519 208 |

CONTROCOLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 304 | 9519 305 | 9519 307 | 9519 308 |

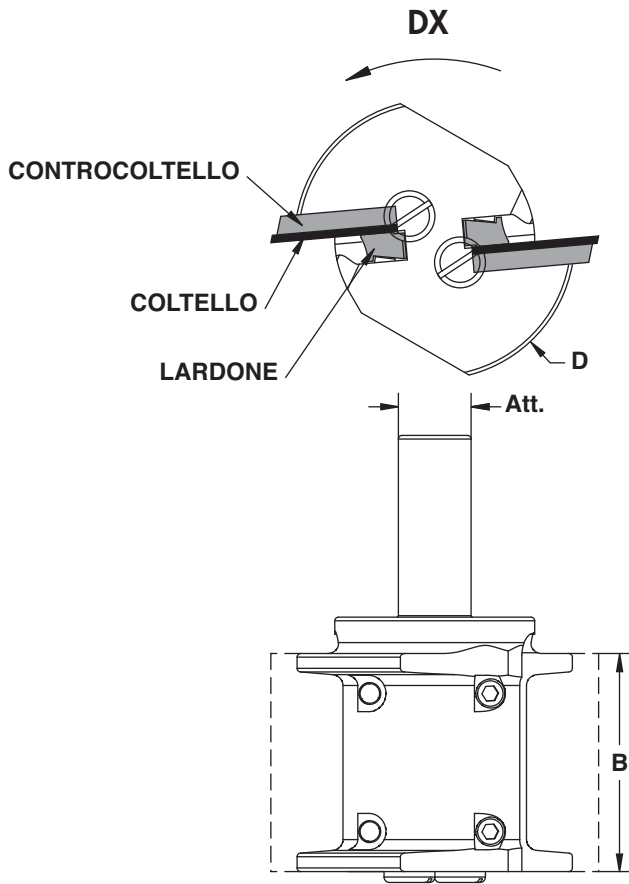
VITTI

| | |
|------------------|-----------------|
| Dimensioni BxHxS | M6x16 |
| ID nr. | 9546 018 |

Teste portacoltelli multiprofilati.
Multiprofile router cutterheads.
 Têtes mltiprofil pour defonceuse porte-couteaux.
Multi-profilerkopf für Pantograph.
 Brocas con cuchillas para perfiles multiples.

| D | B | Att. | Z | rpm | ID nr. DX |
|----|----|--------|---|-------|-----------|
| 77 | 40 | Ø20x50 | 2 | 12000 | 3045001 |
| 77 | 60 | Ø20x50 | 2 | 9000 | 3045003 |

3045



Caratteristiche

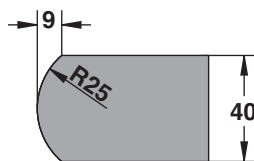
Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 2 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

Characteristics

The tool is supplied without knives and without back-knives.
 This cutterhead is with 2 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used to make different profiles just changing knives and back-knives.

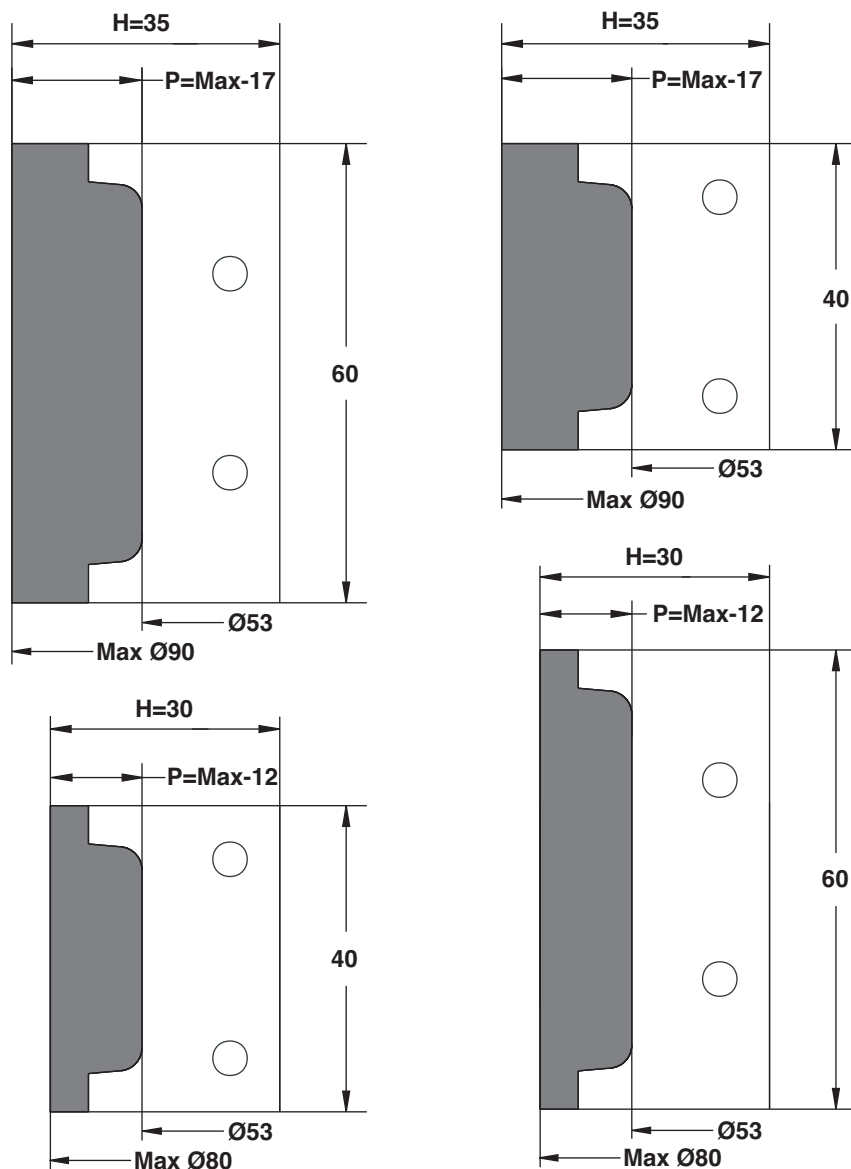
Come determinare il prezzo - ESEMPIO: How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=19 B=40



N°1 Testa portacoltelli + N°2 Coltelli sagomati + N°2 Controcoltelli sagomati
 N°1 Cutterhead + N°2 Shaped knives + N°2 Shaped back-knives
 N°1 ART.3045003 + N°2 ART.9519028 + N°2 ART.9519307

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 120 | 9519 121 | 9519 128 | 9519 129 |

COLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 020 | 9519 021 | 9519 028 | 9519 029 |

CONTROCOLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 204 | 9519 205 | 9519 207 | 9519 208 |

CONTROCOLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 304 | 9519 305 | 9519 307 | 9519 308 |

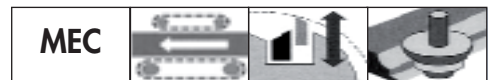
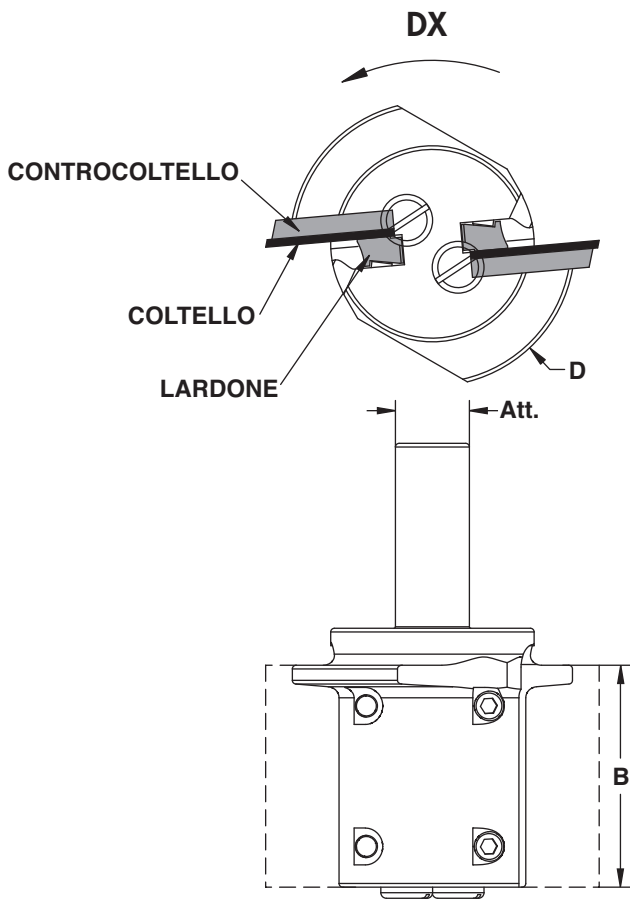
VITTI

| | |
|------------------|-----------------|
| Dimensioni BxHxS | M6x16 |
| ID nr. | 9546 018 |

Teste portacoltelli multiprofilati.
Multiprofile router cutterheads.
 Têtes multiprofil pour defonçeuse porte-couteaux.
Multi-profilerkopf für Pantograph.
 Brocas con cuchillas para perfiles multiples.

3046

| D | B | Att. | Z | rpm | ID nr. DX |
|----|----|--------|---|-------|-----------|
| 77 | 40 | Ø20x50 | 2 | 12000 | 3046001 |
| 77 | 60 | Ø20x50 | 2 | 9000 | 3046003 |



Caratteristiche

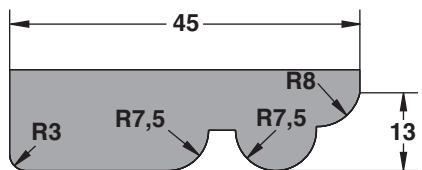
Corpo utensile esclusi coltelli e controcoltelli.
 Testa portacoltelli a 2 taglienti per esecuzione di profili sagomati all'interno dell'area B÷P.
 L'utensile può essere utilizzato per ottenere diversi profili sostituendo solo i coltelli e i controcoltelli.

Characteristics

The tool is supplied without knives and without back-knives.
 This cutterhead is with 2 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used to make different profiles just changing knives and back-knives.

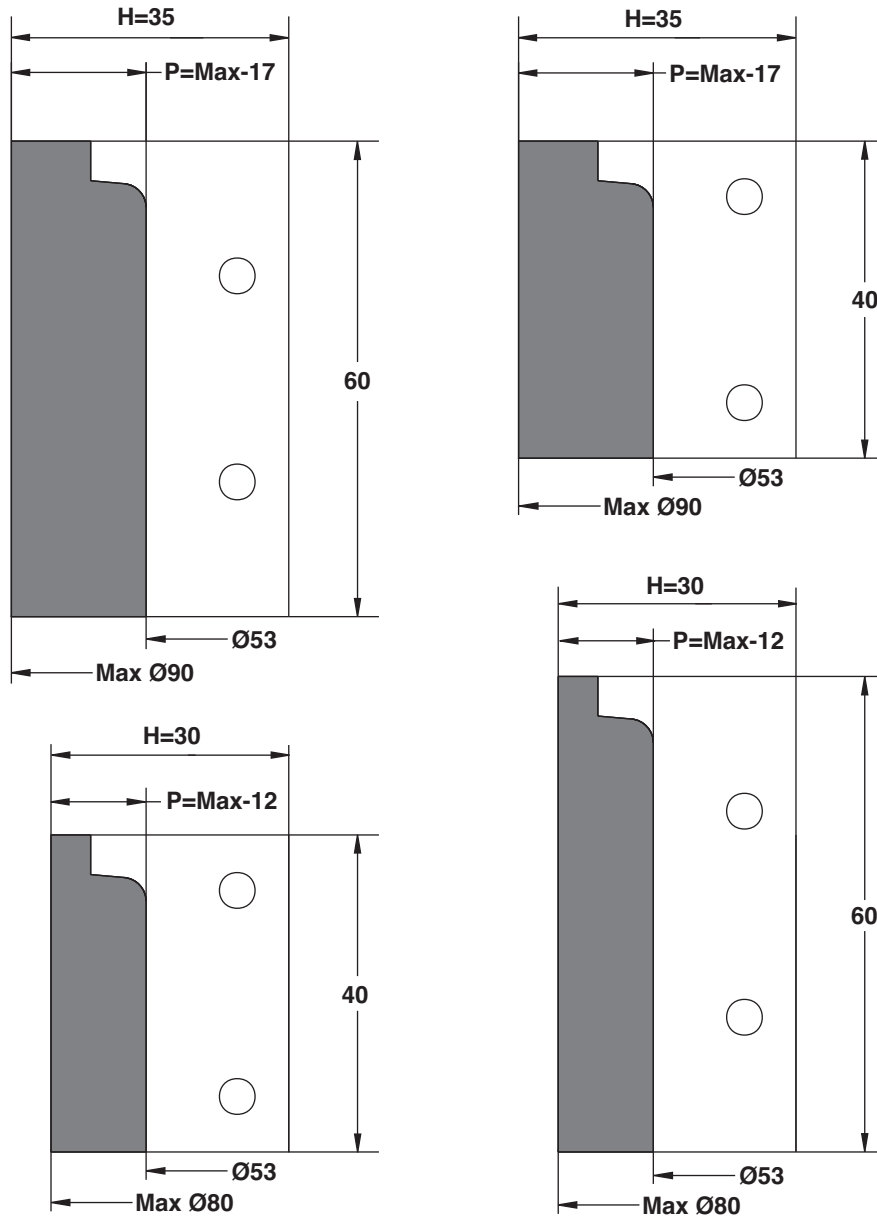
Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

Profilo da eseguire:
 Profil to realise:
 P=13 B=45



N°1 Testa portacoltelli + N°2 Coltelli sagomati + N°2 Controcoltelli sagomati
 N°1 Cutterhead + N°2 Shaped knives + N°2 Shaped back-knives
 N°1 ART.3046003 + N°2 ART.9519028 + N°2 ART.9519307

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 120 | 9519 121 | 9519 128 | 9519 129 |

COLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x30x2 | 40x35x2 | 60x30x2 | 60x35x2 |
| ID nr. | 9519 020 | 9519 021 | 9519 028 | 9519 029 |

CONTROCOLTELLI DA SAGOMARE

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 204 | 9519 205 | 9519 207 | 9519 208 |

CONTROCOLTELLI SAGOMATI

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 40x28x5 | 40x33x5 | 60x28x5 | 60x33x5 |
| ID nr. | 9519 304 | 9519 305 | 9519 307 | 9519 308 |

VITI

| | |
|------------|-----------------|
| Dimensioni | M6x16 |
| ID nr. | 9546 018 |

Frese portacoltelli sagomate a piacere (profilo semplice).

Cutterheads (simple profile).

Fraises (profile simple).

Profilfräsen (einfach-profil).

Fresas con cuchillas perfiladas a gusto (perfil simple).

| D | B | Att. | Z | rpm | ID nr. DX |
|-----|----|--------|---|-------|-----------|
| 30 | 20 | Ø20x50 | 2 | 20000 | 3047001 |
| 30 | 30 | Ø20x50 | 2 | 20000 | 3047002 |
| 30 | 40 | Ø20x50 | 2 | 20000 | 3047003 |
| 30 | 50 | Ø20x50 | 2 | 20000 | 3047004 |
| 30 | 60 | Ø20x50 | 2 | 20000 | 3047005 |
| 40 | 20 | Ø20x50 | 2 | 18000 | 3047006 |
| 40 | 30 | Ø20x50 | 2 | 18000 | 3047007 |
| 40 | 40 | Ø20x50 | 2 | 18000 | 3047008 |
| 40 | 50 | Ø20x50 | 2 | 18000 | 3047009 |
| 40 | 60 | Ø20x50 | 2 | 18000 | 3047010 |
| 50 | 20 | Ø20x50 | 2 | 18000 | 3047011 |
| 50 | 30 | Ø20x50 | 2 | 18000 | 3047012 |
| 50 | 40 | Ø20x50 | 2 | 18000 | 3047013 |
| 50 | 50 | Ø20x50 | 2 | 18000 | 3047014 |
| 50 | 60 | Ø20x50 | 2 | 18000 | 3047015 |
| 60 | 20 | Ø20x50 | 2 | 18000 | 3047016 |
| 60 | 30 | Ø20x50 | 2 | 18000 | 3047017 |
| 60 | 40 | Ø20x50 | 2 | 18000 | 3047018 |
| 60 | 50 | Ø20x50 | 2 | 18000 | 3047019 |
| 60 | 60 | Ø20x50 | 2 | 18000 | 3047020 |
| 70 | 20 | Ø20x50 | 2 | 18000 | 3047021 |
| 70 | 30 | Ø20x50 | 2 | 18000 | 3047022 |
| 70 | 40 | Ø20x50 | 2 | 18000 | 3047023 |
| 70 | 50 | Ø20x50 | 2 | 18000 | 3047024 |
| 70 | 60 | Ø20x50 | 2 | 18000 | 3047025 |
| 80 | 20 | Ø20x50 | 2 | 16000 | 3047026 |
| 80 | 30 | Ø20x50 | 2 | 16000 | 3047027 |
| 80 | 40 | Ø20x50 | 2 | 16000 | 3047028 |
| 80 | 50 | Ø20x50 | 2 | 16000 | 3047029 |
| 80 | 60 | Ø20x50 | 2 | 16000 | 3047030 |
| 100 | 20 | Ø20x50 | 2 | 14000 | 3047031 |
| 100 | 30 | Ø20x50 | 2 | 14000 | 3047032 |
| 100 | 40 | Ø20x50 | 2 | 14000 | 3047033 |
| 100 | 50 | Ø20x50 | 2 | 14000 | 3047034 |
| 100 | 60 | Ø20x50 | 2 | 14000 | 3047035 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%

Per profondità di sagoma superiore a 8mm vedi ART. 3048.

For shape deep bigger than 8mm see ART. 3048.

RICAMBI

| COLTELLI SAGOMATI | |
|-------------------|------|
| ID nr. | 9519 |

3047



MEC



Caratteristiche

Esecuzione Z2 con o senza angolo assiale a seconda del profilo da realizzare, coltello in HM spessore 2mm.

Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF o altro.

Nell'ordine specificare il tipo dell'attacco.

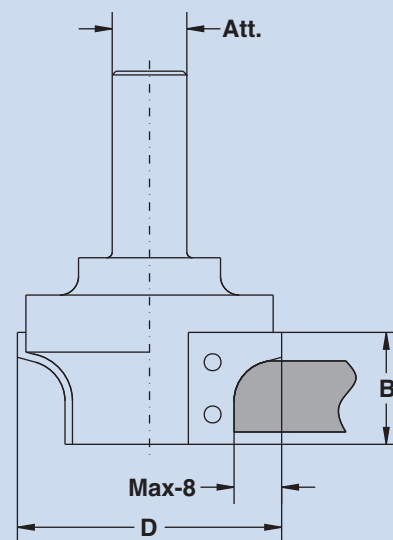
Characteristics

Execution Z2 with or without shear angle according to profile, HM profiled knives with thickness 2mm.

Suitable on all natural woods, chipboard, laminated panels, MDF and more.

When ordering always indicate shank type.

DX



3048



Caratteristiche

Esecuzione Z2 con o senza angolo assiale a seconda del profilo da realizzare, coltello in HM spessore 2mm.

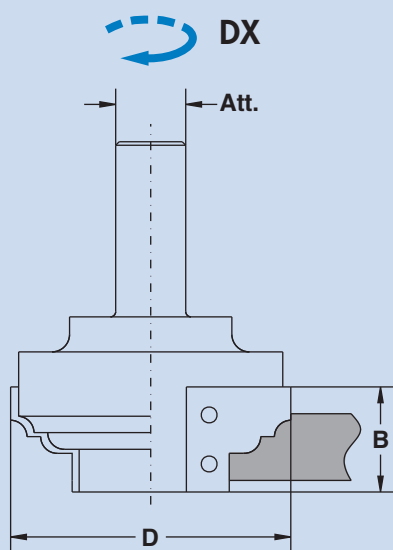
Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF o altro. Nell'ordine specificare il tipo dell'attacco.

Characteristics

Execution Z2 with or without shear angle according to profile, HM profiled knives with thickness 2mm.

Suitable on all natural woods, chipboard, laminated panels, MDF and more.

When ordering always indicate shank type.



Frese portacoltelli sagomate a piacere (profilo complesso).

Cutterheads (complex profile).

Fraises (profile complexe).

Profilfräsen (komplex profil).

Fresas con cuchillas perfiladas a gusto (perfil complejo).

| D | B | Att. | Z | rpm | ID nr. DX |
|-----|----|--------|---|-------|-----------------|
| 30 | 20 | Ø20x50 | 2 | 20000 | 3048 001 |
| 30 | 30 | Ø20x50 | 2 | 20000 | 3048 002 |
| 30 | 40 | Ø20x50 | 2 | 20000 | 3048 003 |
| 30 | 50 | Ø20x50 | 2 | 20000 | 3048 004 |
| 30 | 60 | Ø20x50 | 2 | 20000 | 3048 005 |
| 40 | 20 | Ø20x50 | 2 | 18000 | 3048 006 |
| 40 | 30 | Ø20x50 | 2 | 18000 | 3048 007 |
| 40 | 40 | Ø20x50 | 2 | 18000 | 3048 008 |
| 40 | 50 | Ø20x50 | 2 | 18000 | 3048 009 |
| 40 | 60 | Ø20x50 | 2 | 18000 | 3048 010 |
| 50 | 20 | Ø20x50 | 2 | 18000 | 3048 011 |
| 50 | 30 | Ø20x50 | 2 | 18000 | 3048 012 |
| 50 | 40 | Ø20x50 | 2 | 18000 | 3048 013 |
| 50 | 50 | Ø20x50 | 2 | 18000 | 3048 014 |
| 50 | 60 | Ø20x50 | 2 | 18000 | 3048 015 |
| 60 | 20 | Ø20x50 | 2 | 18000 | 3048 016 |
| 60 | 30 | Ø20x50 | 2 | 18000 | 3048 017 |
| 60 | 40 | Ø20x50 | 2 | 18000 | 3048 018 |
| 60 | 50 | Ø20x50 | 2 | 18000 | 3048 019 |
| 60 | 60 | Ø20x50 | 2 | 18000 | 3048 020 |
| 70 | 20 | Ø20x50 | 2 | 18000 | 3048 021 |
| 70 | 30 | Ø20x50 | 2 | 18000 | 3048 022 |
| 70 | 40 | Ø20x50 | 2 | 18000 | 3048 023 |
| 70 | 50 | Ø20x50 | 2 | 18000 | 3048 024 |
| 70 | 60 | Ø20x50 | 2 | 18000 | 3048 025 |
| 80 | 20 | Ø20x50 | 2 | 16000 | 3048 026 |
| 80 | 30 | Ø20x50 | 2 | 16000 | 3048 027 |
| 80 | 40 | Ø20x50 | 2 | 16000 | 3048 028 |
| 80 | 50 | Ø20x50 | 2 | 16000 | 3048 029 |
| 80 | 60 | Ø20x50 | 2 | 16000 | 3048 030 |
| 100 | 20 | Ø20x50 | 2 | 16000 | 3048 031 |
| 100 | 30 | Ø20x50 | 2 | 16000 | 3048 032 |
| 100 | 40 | Ø20x50 | 2 | 16000 | 3048 033 |
| 100 | 50 | Ø20x50 | 2 | 16000 | 3048 034 |
| 100 | 60 | Ø20x50 | 2 | 16000 | 3048 035 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%

RICAMBI

COLTELLI SAGOMATI

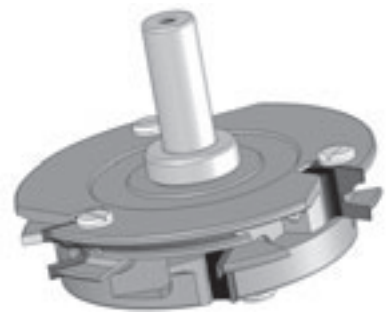
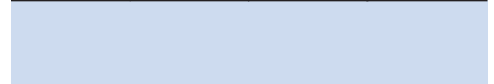
ID nr.

9519

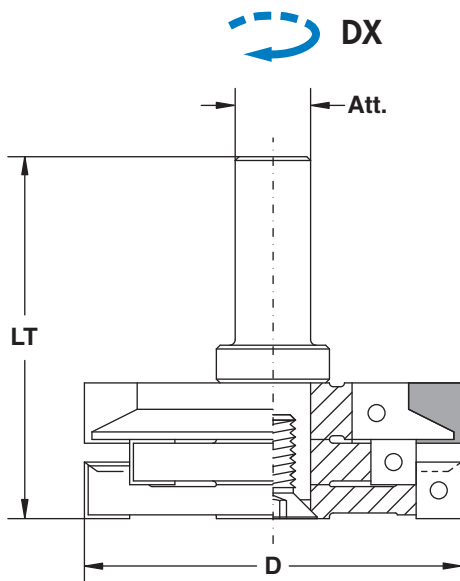
Gruppi multiprofilo per sagoma e controsagoma di ante.
 Set of cutters multiprofiles for profile and counter-profile of cabinets door.
 Groupes de fraises pour profile et contre-profile de portes de meubles.
 Multi-profilfräser für profil und gegenprofil zu Möbeltür.
 Juego de fresas multiperfiles para puertas de muebles.

3049

| D | S | LT | Att. | Z | rpm | ID nr. DX |
|-----|--------|-----|--------|---|-------|-----------|
| 100 | Max-28 | 100 | Ø20x50 | 2 | 14000 | 3049001 |

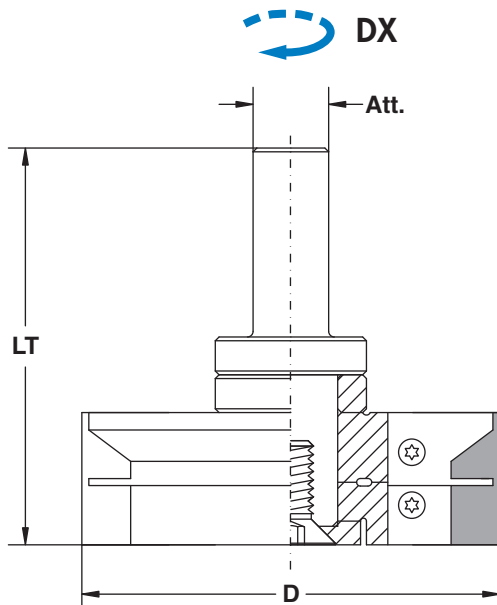


■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



| D | S | LT | Att. | Z | rpm | ID nr. DX |
|-----|--------|-----|--------|-----|-------|-----------|
| 100 | Max-28 | 100 | Ø20x50 | 2+2 | 14000 | 3049003 |

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED



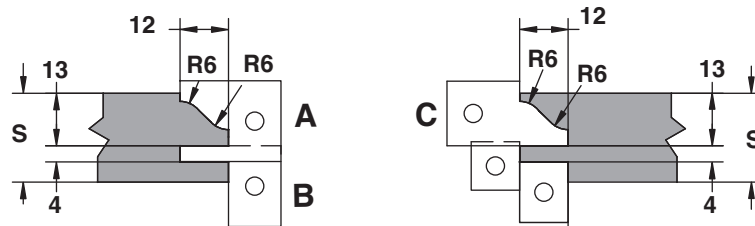
Caratteristiche

Per la fresatura di profili lungo vena e controprofili per ante di mobili con incastro o battuta. Particolarmente idonea per la lavorazione di legni teneri, duri, agglomerati, derivati fibrosi, nobilitati, plastico o impiallacciati (truciolare, MDF o altro).

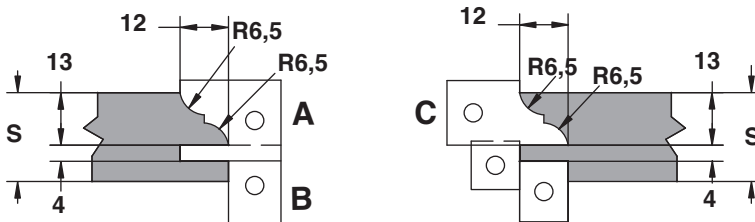
Characteristics

Suitable for make profiles along grain and counter-profiles for cabinets doors. Recommended for working on softwoods, hardwoods, plastic (chipboard, MDF and more).

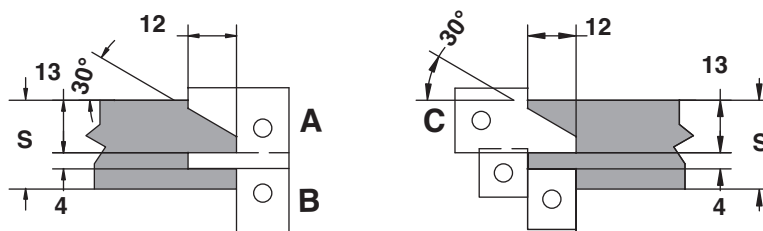
TIPO - 1



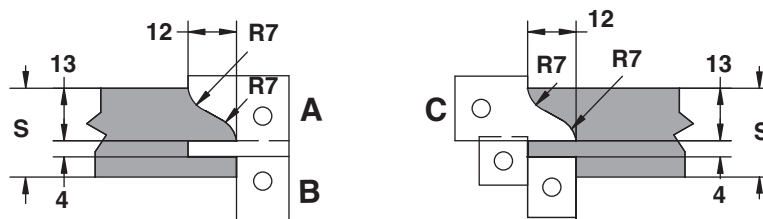
TIPO - 2



TIPO - 3



TIPO - 4



RICAMBI

| PER ART. 3049001 | COLTELLI STANDARD | | | | | | |
|------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | COLTELLI | LARDONI | COLTELLI | LARDONI | VITI | RASANTI | VITI |
| Dimensioni BxHxS | 12x12x1,5 | 10x12x7,5 | 15x12x1,5 | 13x12x7,5 | M6x16 | 14x14x2 | M5x8 |
| ID nr. | 9503 003 | 9545 003 | 9503 004 | 9545 004 | 9546 018 | 9508 002 | 9546 005 |

| PER ART. 3049001 | COLTELLI SAGOMATI | | | | | |
|------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO - C | 1 | 2 | 3 | 4 | LARDONI | VITI |
| Dimensioni BxHxS | 16x30x2 | 16x30x2 | 16x30x2 | 16x30x2 | 13x12x7,5 | M6x16 |
| ID nr. | 9564 001 | 9564 002 | 9564 003 | 9564 004 | 9545 004 | 9546 018 |

| PER ART. 3049003 | COLTELLI SAGOMATI | | | | | |
|------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO - A | 1 | 2 | 3 | 4 | LARDONI | VITI |
| Dimensioni BxHxS | 20x25x2 | 20x25x2 | 20x25x2 | 20x25x2 | 18x12x7,5 | M6x16 |
| ID nr. | 9564 011 | 9564 012 | 9564 013 | 9564 014 | 9545 005 | 9546 018 |
| TIPO - B | 1 | | | | LARDONI | VITI |
| Dimensioni BxHxS | 20x25x2 | 20x25x2 | 20x25x2 | 20x25x2 | 18x12x7,5 | M6x16 |
| ID nr. | 9564 021 | 9564 022 | 9564 023 | 9564 024 | 9545 005 | 9546 018 |

Gruppi di punte accoppiate per sagomatura interna di antine.

Set of drills for shape internal cabinets door.

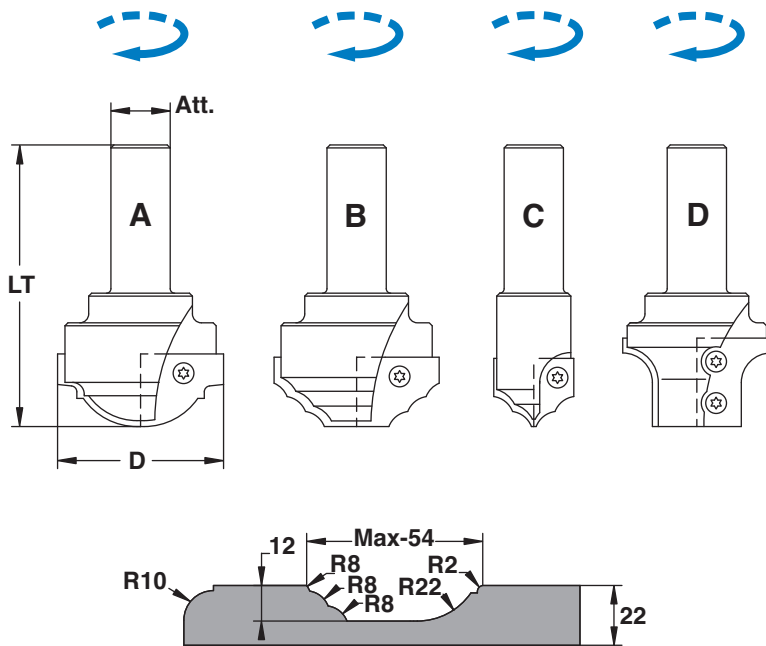
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltüer.

Juego de brocas acopladas para perfilar internamente las puertas de muebles.

3050

| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|----|----|--------|------|---|-------|-----------------|
| 55 | 95 | Ø20x50 | A | 2 | 18000 | 3050 001 |
| 55 | 95 | Ø20x50 | B | 2 | 18000 | 3050 002 |
| 27 | 95 | Ø20x50 | C | 2 | 18000 | 3050 003 |
| 50 | 95 | Ø20x50 | D | 2 | 18000 | 3050 004 |



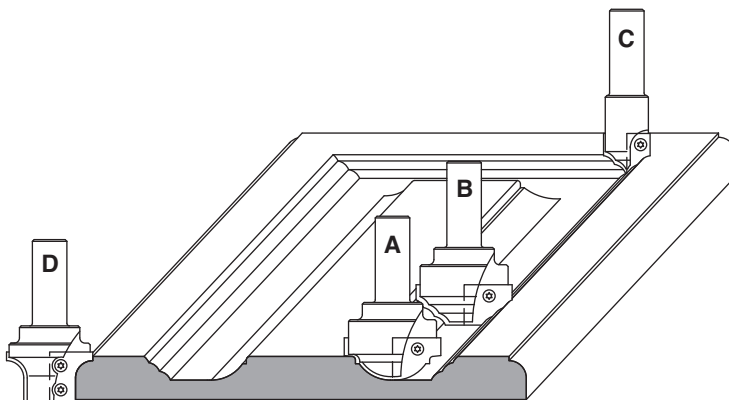
Caratteristiche

Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.

ESEMPIO DI LAVORAZIONE



RICAMBI

| | COLTELLI SAGOMATI | | | | VITI |
|------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | - |
| Dimensioni | 30x25x2 | 30x25x2 | 15x25x2 | 30x25x2 | M3,5x6 |
| ID nr. | 9539 001 | 9539 002 | 9539 003 | 9539 004 | 9546 006 |

3051

Gruppi di punte accoppiate per sagomatura interna di antine.

Set of drills for shape internal cabinets door.

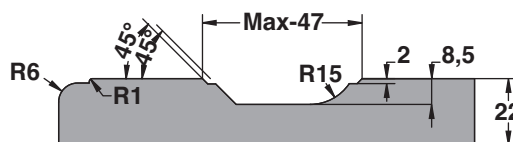
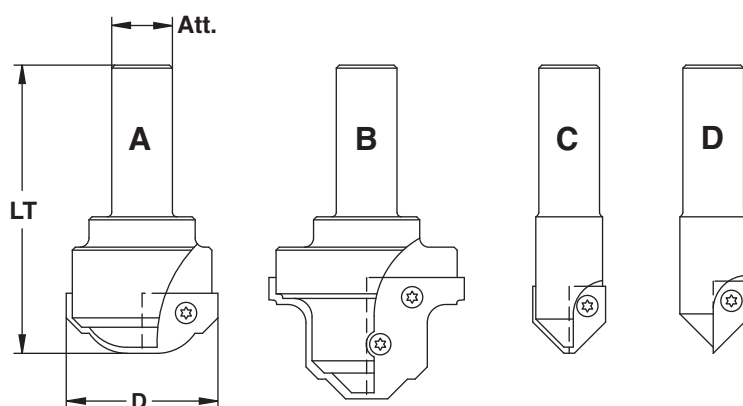
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltüer.

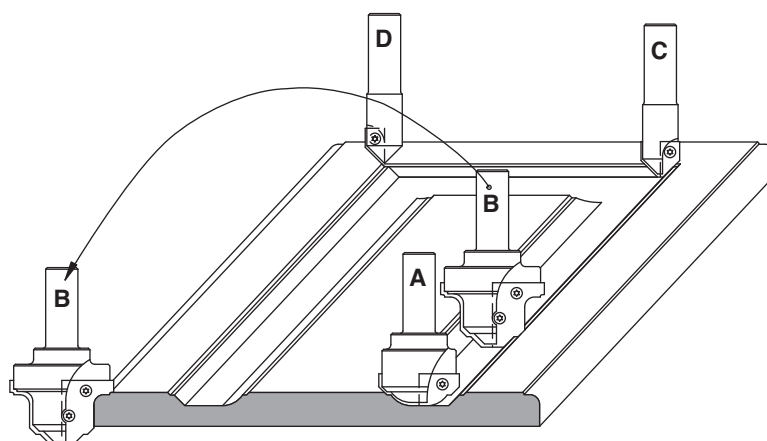
Juego de brocas acopladas para perfilar internamente las puertas de muebles.



| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|----|-----|--------|------|---|-------|-----------------|
| 50 | 95 | Ø20x50 | A | 2 | 18000 | 3051 001 |
| 65 | 110 | Ø20x50 | B | 2 | 16000 | 3051 002 |
| 24 | 95 | Ø20x50 | C | 2 | 20000 | 3051 003 |
| 24 | 95 | Ø20x50 | D | 1 | 20000 | 3051 004 |



ESEMPIO DI LAVORAZIONE



RICAMBI

| | COLTELLI SAGOMATI | | | | VITI |
|------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | - |
| Dimensioni | 25x20x2 | 40x35x2 | 22,4x12x1,5 | 23,8x12x1,5 | M3,5x6 |
| ID nr. | 9540 001 | 9540 002 | 9540 003 | 9540 004 | 9546 006 |

MEC



Caratteristiche

Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

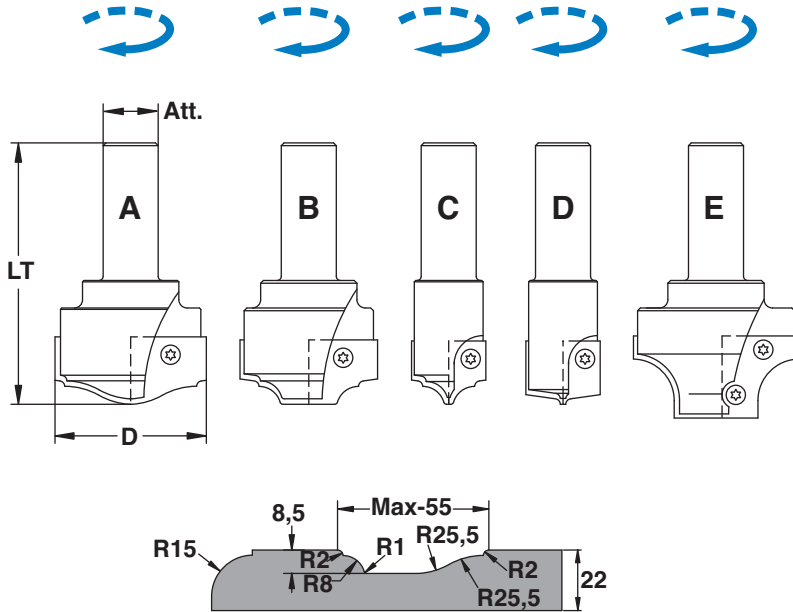
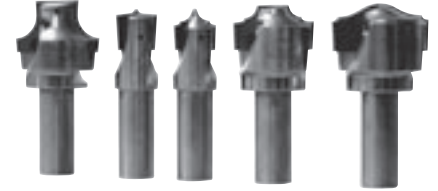
Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.

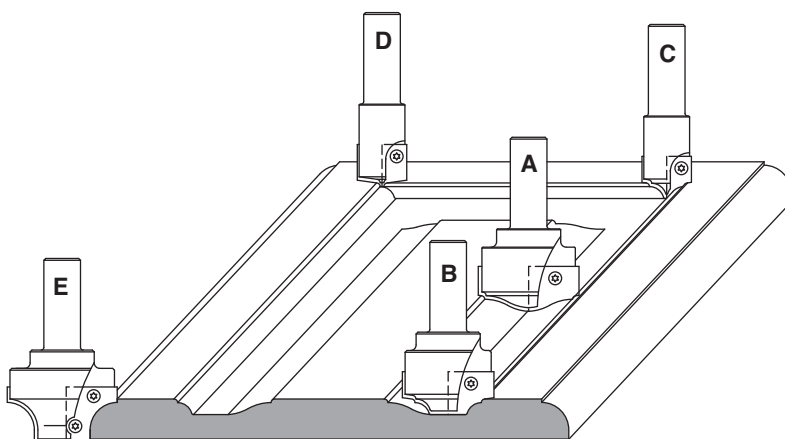
Gruppi di punte accoppiate per sagomatura interna di antine.
Set of drills for shape internal cabinets door.
 Groupes de mèches pour sagomer l'intérieur de portes de meubles.
Spitzengruppe zu Möbeltüer.
 Juego de brocas acopladas para perfilar internamente las puertas de muebles.

3061

| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|------|----|--------|------|---|-------|-----------------|
| 55 | 95 | Ø20x50 | A | 2 | 18000 | 3061 001 |
| 49,5 | 95 | Ø20x50 | B | 2 | 18000 | 3061 002 |
| 27 | 95 | Ø20x50 | C | 2 | 20000 | 3061 003 |
| 27 | 95 | Ø20x50 | D | 2 | 20000 | 3061 004 |
| 60 | 95 | Ø20x50 | E | 2 | 18000 | 3061 005 |



ESEMPIO DI LAVORAZIONE



Caratteristiche

Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.

RICAMBI

| | COLTELLI SAGOMATI | | | | | VITI |
|------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | E | - |
| Dimensioni | 30x25x2 | 25x25x2 | 15x25x2 | 15x25x2 | 30x30x2 | M3,5x6 |
| ID nr. | 9549 001 | 9549 002 | 9549 003 | 9549 004 | 9549 005 | 9546 006 |

3069

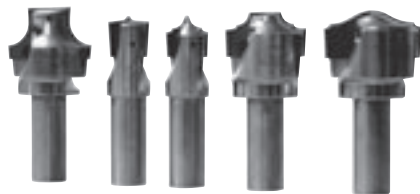
Gruppi di punte accoppiate per sagomatura interna di antine.

Set of drills for shape internal cabinets door.

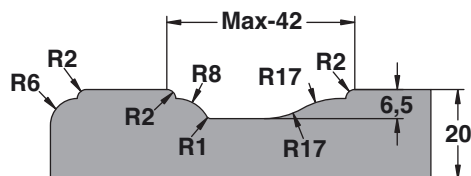
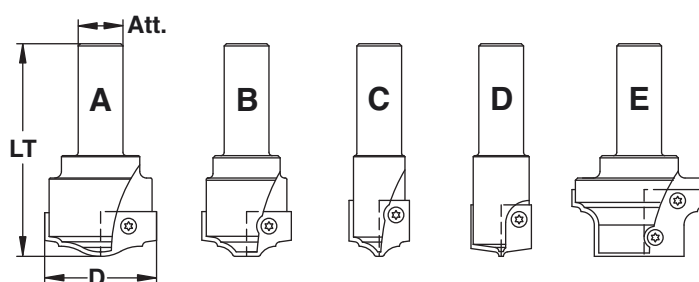
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltüer.

Juego de brocas acopladas para perfilar internamente las puertas de muebles.



| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|----|----|--------|------|---|-------|-----------------|
| 50 | 95 | Ø20x50 | A | 2 | 18000 | 3069 001 |
| 40 | 95 | Ø20x50 | B | 2 | 18000 | 3069 002 |
| 27 | 95 | Ø20x50 | C | 2 | 20000 | 3069 003 |
| 24 | 95 | Ø20x50 | D | 2 | 20000 | 3069 004 |
| 60 | 95 | Ø20x50 | E | 2 | 18000 | 3069 005 |



MEC



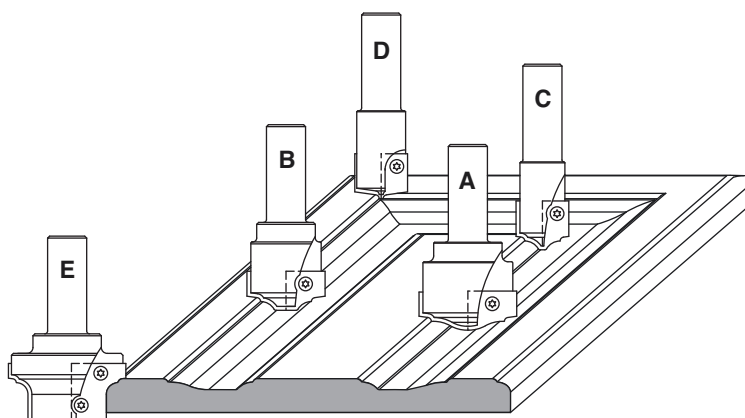
Caratteristiche

Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particulary indicated for internal decorations on any kind of wood, MDF and chipboard.

ESEMPIO DI LAVORAZIONE



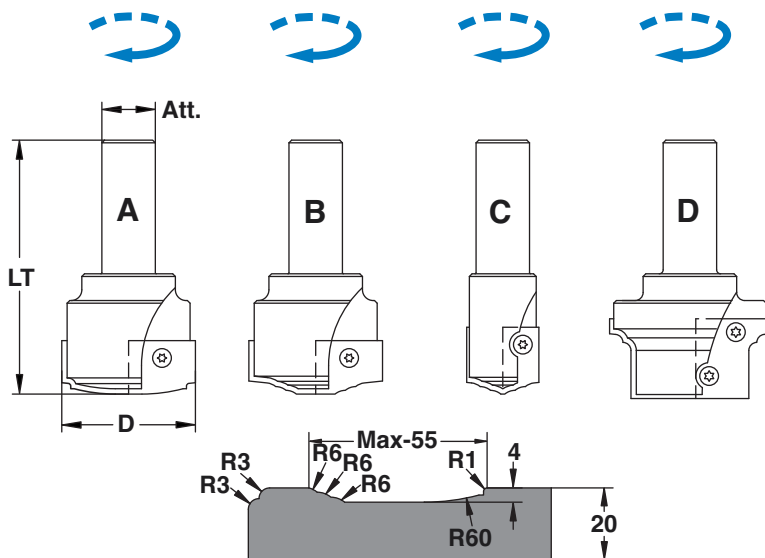
RICAMBI

| | COLTELLI SAGOMATI | | | | | VITI |
|------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | E | - |
| Dimensioni | 25x20x2 | 20x20x2 | 15x25x2 | 15x25x2 | 30x30x2 | M3,5x6 |
| ID nr. | 9566 001 | 9566 002 | 9566 003 | 9566 004 | 9566 005 | 9546 006 |

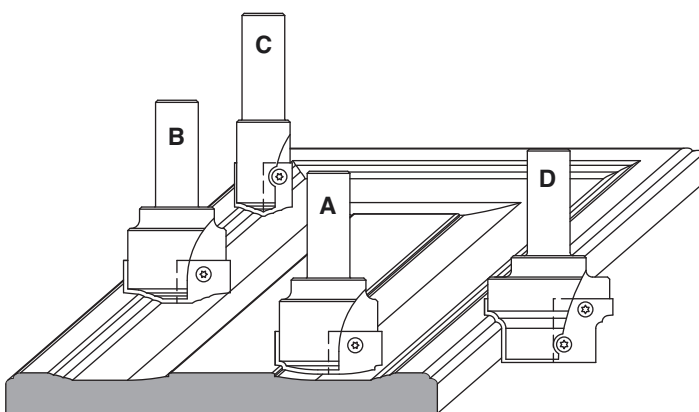
Gruppi di punte accoppiate per sagomatura interna di antine.
Set of drills for shape internal cabinets door.
 Groupes de méches pour sagomer l'intérieur de portes de meubles.
Spitzengruppe zu Möbeltüer.
 Juego de brocas acopladas para perfilar internamente las puertas de muebles.

3070

| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|----|----|--------|------|---|-------|-----------------|
| 50 | 95 | Ø20x50 | A | 2 | 18000 | 3070 001 |
| 50 | 95 | Ø20x50 | B | 2 | 18000 | 3070 002 |
| 27 | 95 | Ø20x50 | C | 2 | 20000 | 3070 003 |
| 60 | 95 | Ø20x50 | D | 2 | 18000 | 3070 004 |



ESEMPIO DI LAVORAZIONE



Caratteristiche

Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.

RICAMBI

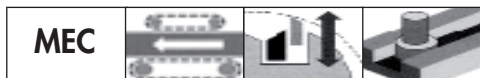
| | COLTELLI SAGOMATI | | | | VITI |
|------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | - |
| Dimensioni | 25x20x2 | 25x20x2 | 15x25x2 | 30x30x2 | M3,5x6 |
| ID nr. | 9567 001 | 9567 002 | 9567 003 | 9567 004 | 9546 006 |

3071

Gruppi di punte accoppiate per sagomatura interna di antine.
Set of drills for shape internal cabinets door.
 Groupes de mèches pour sager l'intérieur de portes de meubles.
Spitzengruppe zu Möbeltür.
 Juego de brocas acopladas para perfilar internamente las puertas de muebles.



| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|-----|-----|--------|------|---|-------|-----------------|
| 100 | 110 | Ø20x50 | A | 2 | 14000 | 3071 001 |
| 60 | 90 | Ø20x50 | B | 2 | 18000 | 3071 002 |

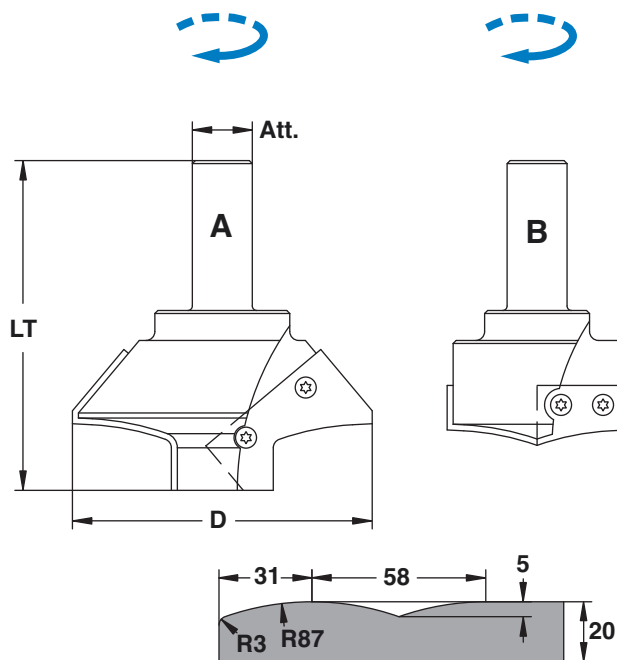


Caratteristiche

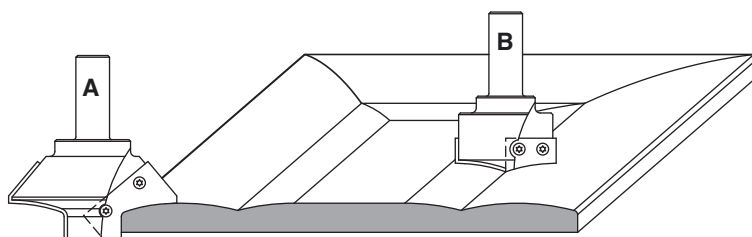
Particolarmente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.



ESEMPIO DI LAVORAZIONE

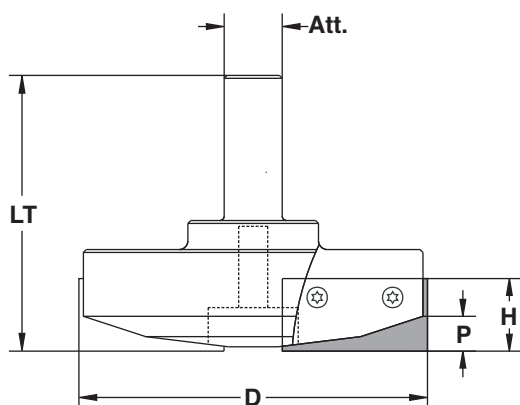


RICAMBI

| | COLTELLI SAGOMATI | | VITI |
|------------|-------------------|-----------------|-----------------|
| TIPO | A | B | - |
| Dimensioni | 50x30x2 | 30x20x2 | M3,5x6 |
| ID nr. | 9568 001 | 9568 002 | 9546 006 |

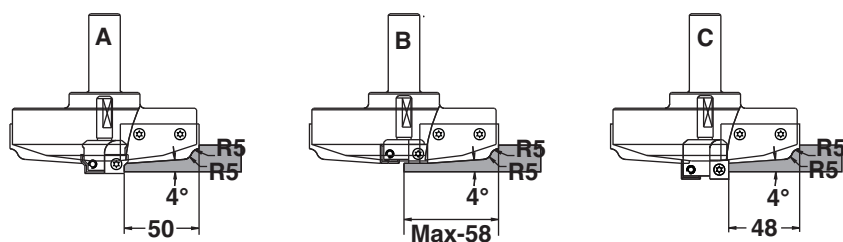
Testa piattabanda multiprofil.
Raising panel cutterhead multiprofiles.
 Tête pour platte-bandes multiprofiles.
Abplatt-Messerköpf.
 Cabezal multiperfil para plafones.

| D | LT | H | P | Att. | Z | rpm | ID nr. DX |
|-----|-----|----|----|--------|---|-------|-----------------|
| 120 | 105 | 25 | 12 | Ø20x50 | 2 | 12500 | 3053 001 |



| D | B | Att. | TIPO | Z | rpm | ID nr. DX |
|----|----|--------|------|---|-------|-----------------|
| 30 | 12 | Ø10x30 | A | 2 | 18000 | 3053 011 |
| 30 | 12 | Ø10x30 | B | 2 | 18000 | 3053 012 |
| 30 | 12 | Ø10x30 | C | 2 | 18000 | 3053 013 |

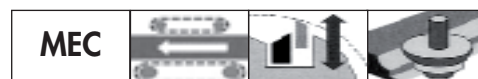
ESEMPI DI LAVORAZIONE



RICAMBI

| Denominazione | Dimensioni BxHxS | ID nr. |
|----------------------|------------------|-----------------|
| COLTELLO SAGOMA - 1 | 50x25x2 | 3053 051 |
| COLTELLO SAGOMA - 2 | 50x25x2 | 3053 052 |
| COLTELLO SAGOMA - 3 | 50x25x2 | 3053 053 |
| COLTELLO SAGOMA - 4 | 50x25x2 | 3053 054 |
| COLTELLO SAGOMA - 5 | 50x25x2 | 3053 055 |
| COLTELLO SAGOMA - 6 | 50x25x2 | 3053 056 |
| COLTELLO SAGOMA - 7 | 50x25x2 | 3053 057 |
| COLTELLO SAGOMA - 8 | 50x25x2 | 3053 058 |
| COLTELLO SAGOMA - 9 | 50x25x2 | 3053 059 |
| COLTELLO SAGOMA - 10 | 50x25x2 | 3053 060 |
| COLTELLO SAGOMA - 11 | 50x25x2 | 3053 061 |
| COLTELLO SAGOMA - 12 | 50x25x2 | 3053 062 |
| VITI | M3,5x6 | 9546 006 |

3053



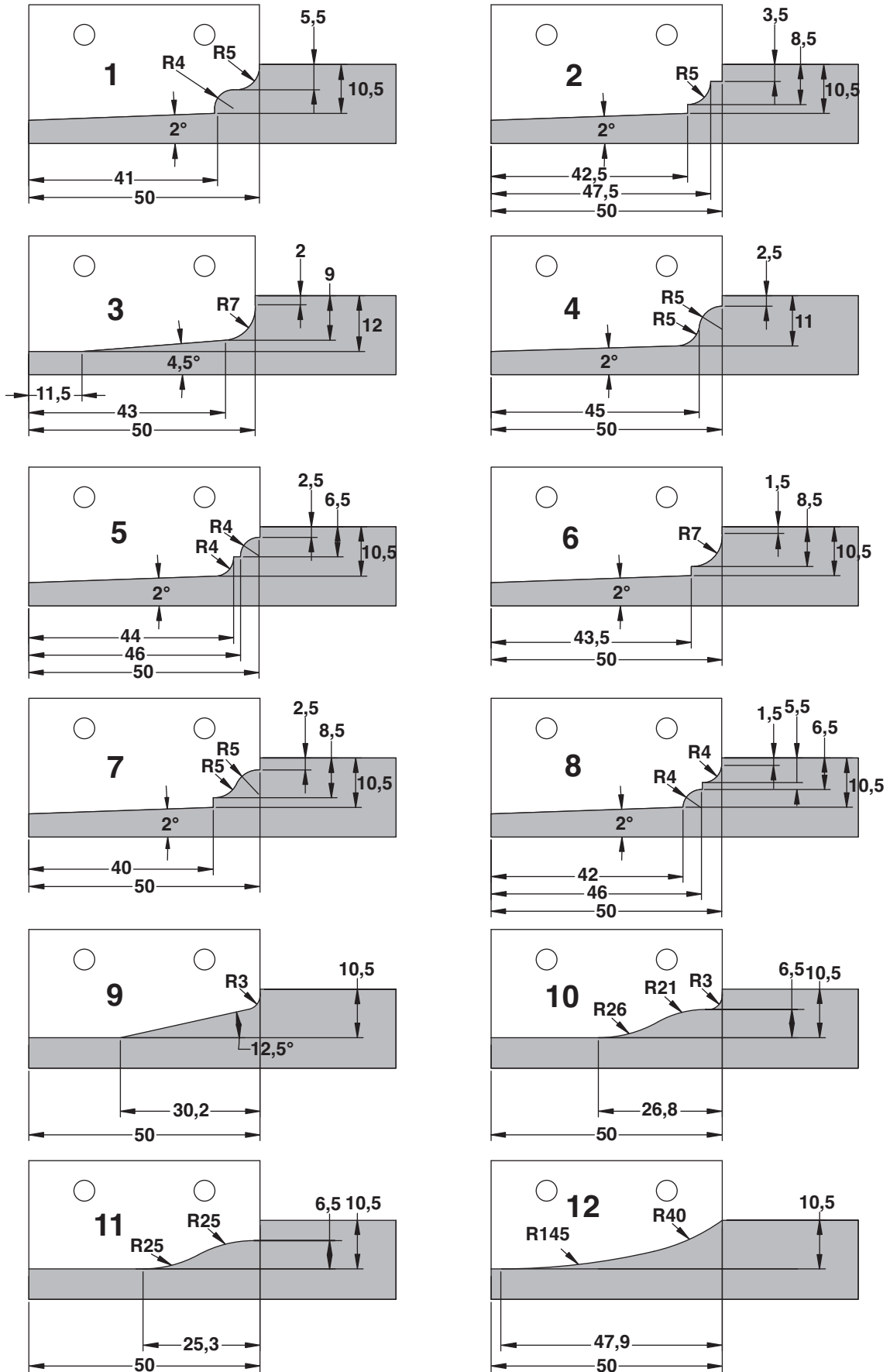
Caratteristiche

Impiegato per eseguire profili e bugne di antine per mobili.
 Particolarmente indicato per lavorazioni su legni teneri.
 La punta viene fornita senza punta centrale.

Characteristics

Particularly suitable for make profiles and ashlars for cabinet doors.
 Recommended for softwoods.
 This tool doesn't include its central additional top.

ESEMPI DI PROFILI ESEGUIBILI



Frese portacoltelli sagomate per mezzi tondi.
 Cutterheads for half circles.
 Fraises porte-outils pour demi-rond.
 Halbstabmesserköpf.
 Fresas perfiladas con cuchillas para barras semicirculares.

3055

| D | B | LT | Att. | Z | rpm | R | ID nr. DX |
|----|----|-----|--------|---|-------|------|-----------------|
| 60 | 25 | 95 | Ø20x50 | 2 | 16000 | 6 | 3055 011 |
| | | | | | | 8 | 3055 012 |
| | | | | | | 9 | 3055 013 |
| 70 | 35 | 105 | Ø20x50 | 2 | 14000 | 10 | 3055 014 |
| | | | | | | 12 | 3055 015 |
| | | | | | | 12,5 | 3055 016 |
| 90 | 50 | 120 | Ø20x50 | 2 | 10500 | 15 | 3055 017 |
| | | | | | | 17,5 | 3055 018 |
| | | | | | | 20 | 3055 019 |
| 90 | 60 | 130 | Ø20x50 | 2 | 10500 | 22,5 | 3055 020 |
| | | | | | | 25 | 3055 021 |

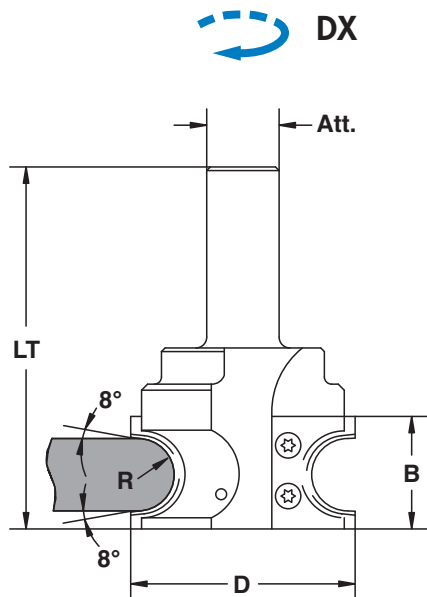


Caratteristiche

Esecuzione Z2 con coltello in HM spessore 2mm.
 Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF o altro.

Characteristics

Execution Z2 with HM profiled knives with thickness 2mm.
 Suitable on all natural woods, chipboard, laminated panels, MDF and more.

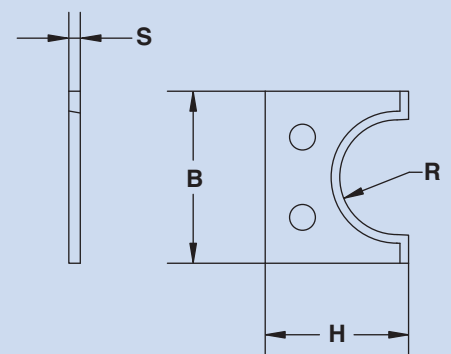


RICAMBI

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| | R6 | R8 | R9 | R10 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 35x30x2 |
| ID nr. | 9542 011 | 9542 012 | 9542 013 | 9542 014 |

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| | R12 | R12,5 | R15 | R17,5 |
| Dimensioni BxHxS | 35x30x2 | 35x30x2 | 50x35x2 | 50x35x2 |
| ID nr. | 9542 015 | 9542 016 | 9542 017 | 9542 018 |

| COLTELLI SAGOMATI | | | | VITI |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| | R20 | R22,5 | R25 | - |
| Dimensioni BxHxS | 50x35x2 | 60x40x2 | 60x40x2 | M3,5x6 |
| ID nr. | 9542 019 | 9542 020 | 9542 021 | 9546 006 |



3056



Caratteristiche

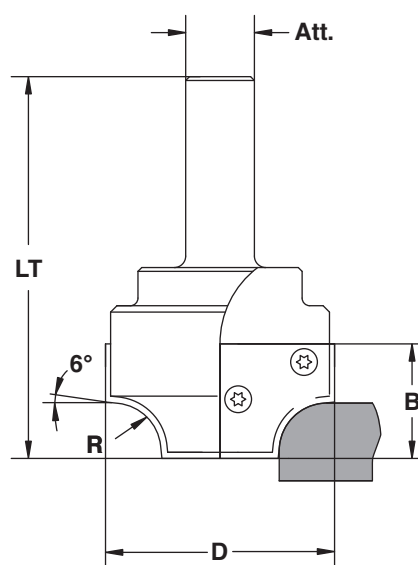
Esecuzione Z2 con coltello in HM spessore 2mm.
Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF o altro.

Characteristics

Execution Z2 with HM profiled knives with thickness 2mm. Suitable on all natural woods, chipboard, laminated panels, MDF and more.

Frese portacoltelli sagomate per quarti di tondo.
Cutterheads for quarter circles.
Fraises porte-outils pour quart de rond.
Viertelstabmesserköpf.
Fresas perfiladas con cuchillas para cuartos de barras.

| D | B | LT | Att. | Z | rpm | R | ID nr. DX |
|----|----|-----|--------|---|------|-------|-----------------|
| 50 | 25 | 95 | Ø20x50 | 2 | 6 | 18000 | 3056 011 |
| | | | | | 8 | 18000 | 3056 012 |
| | | | | | 9 | 18000 | 3056 013 |
| 60 | 30 | 100 | Ø20x50 | 2 | 10 | 18000 | 3056 014 |
| | | | | | 12 | 18000 | 3056 015 |
| | | | | | 12,5 | 18000 | 3056 016 |
| 70 | 35 | 100 | Ø20x50 | 2 | 15 | 16000 | 3056 017 |
| | | | | | 17,5 | 16000 | 3056 018 |
| | | | | | 20 | 16000 | 3056 019 |
| 80 | 40 | 110 | Ø20x50 | 2 | 22,5 | 14000 | 3056 020 |
| | | | | | 25 | 14000 | 3056 021 |



RICAMBI

COLTELLI SAGOMATI

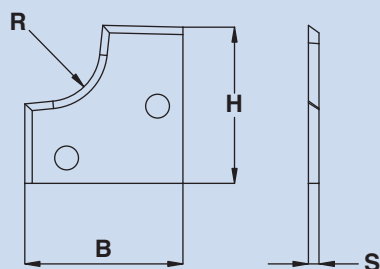
| | R6 | R8 | R9 | R10 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 30x30x2 |
| ID nr. | 9543 011 | 9543 012 | 9543 013 | 9543 014 |

COLTELLI SAGOMATI

| | R12 | R12,5 | R15 | R17,5 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 30x30x2 | 30x30x2 | 35x35x2 | 35x35x2 |
| ID nr. | 9543 015 | 9543 016 | 9543 017 | 9543 018 |

COLTELLI SAGOMATI

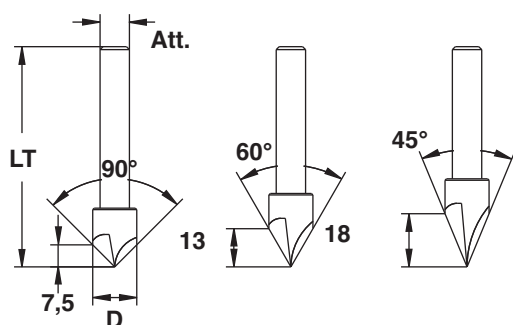
| | R20 | R22,5 | R25 | VITI |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x35x2 | 40x40x2 | 40x40x2 | - |
| ID nr. | 9543 019 | 9543 020 | 9543 021 | 9546 006 |



Punte inclinate per incisioni e smussature di pannelli.
Inclined drills for cuts and for rounding off panels.
 Méches inclinées pour coupes et biseautés de panneaux.
 Schiefe Bohrer für Schnitt und Abstumpfung zu Paneel.
 Brocas inclinadas para cortar y cantear los paneles.

3057

| D | β | LT | Att. | Z | rpm | ID nr. DX |
|----|-----|----|--------|---|-------|-----------------|
| 15 | 45° | 75 | ∅10x45 | 3 | 24000 | 3057 001 |
| 15 | 60° | 75 | ∅10x50 | 3 | 24000 | 3057 002 |
| 15 | 90° | 75 | ∅10x55 | 3 | 24000 | 3057 003 |



MAN



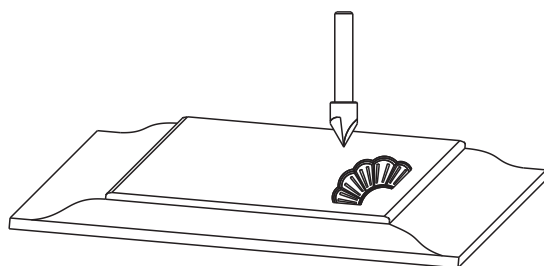
Caratteristiche

Esecuzione in HM integrale.
 Particolarmente idonea per lavorazioni interne decorative su tutti i tipi di legno MDF e truciolare.

Characteristics

Execution in Integral HM.
 Particularly indicated for internal decorations on all type of wood, MDF and chipboard.

ESEMPIO DI LAVORAZIONE



3072

Punte inclinate per incisioni e smussature di pannelli.
Inclined drills for cuts and for rounding off of pannels.
 Méches inclinées pour coupes et biseautés de panneaux.
 Schiefe Bohrer für Schnitt und Abstumpfung zu Paneel.
 Brocas inclinadas para cortar y cantear los paneles.



| D | LT | Att. | TIPO | Z | rpm | ID nr. DX |
|----|-----|--------|------|-----|-------|-----------------|
| 42 | 95 | Ø20x50 | A | 1+1 | 18000 | 3072 001 |
| 71 | 110 | Ø20x50 | B | 1+1 | 18000 | 3072 002 |
| 85 | 125 | Ø25x55 | C | 1+1 | 16000 | 3072 003 |



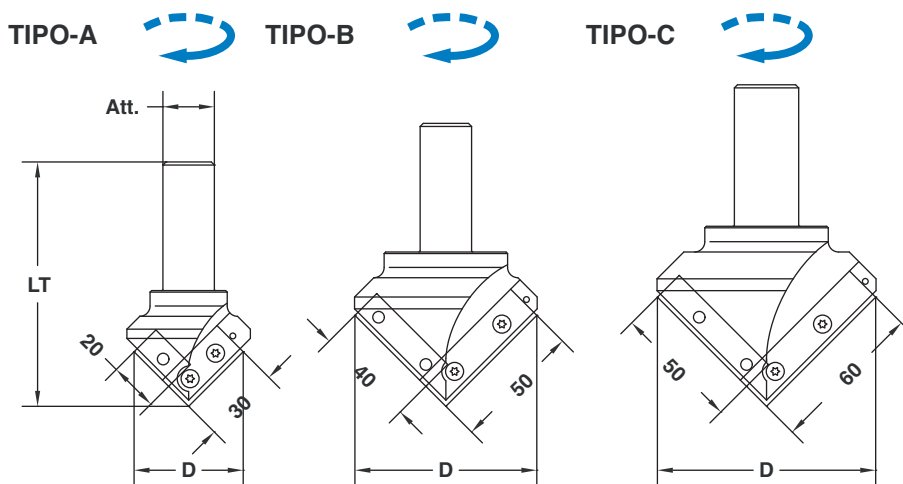
MEC

Caratteristiche

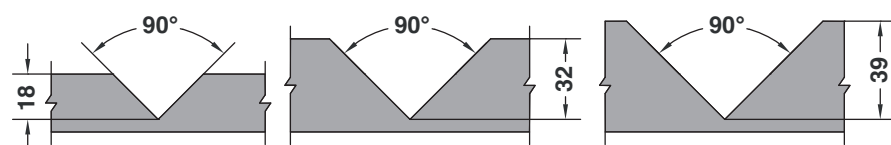
Esecuzione con coltellini a fissaggio meccanico.
 Particolarmente idonea per esecuzioni di smussi e piani inclinati su tutti i tipi di legno, MDF e truciolare.

Characteristics

Execution with knives in mechanical fixing.
 Particularly indicated for rounding off and inclined levels on any kind of wood, MDF and chipboard.



PROFILI ESEGUIBILI



RICAMBI

| | COLTELLI CON TAGLIO IN TESTA | | | VITI |
|------------|------------------------------|-----------------|-----------------|-----------------|
| Dimensioni | 30x12x1,5 | 50x12x1,5 | 60x12x1,5 | M3,5x6 |
| ID nr. | 9514 021 | 9514 022 | 9514 023 | 9546 006 |

| | COLTELLI A STANDARD | | | VITI |
|------------|---------------------|-----------------|-----------------|-----------------|
| Dimensioni | 20x12x1,5 | 40x12x1,5 | 50x12x1,5 | M3,5x6 |
| ID nr. | 9503 005 | 9503 007 | 9503 008 | 9546 006 |

Gruppi per esecuzione di "FINESTRE ad ARCO".
 Groups for execution of "ARCH WINDOWS".
 Groupes pour exécution des "FENÊTRES à ARC".
 Gruppe für Ausführung zu "BOGEN FENSTER".
 Juego de brocas para la realización de "VENTANAS con ARCO".

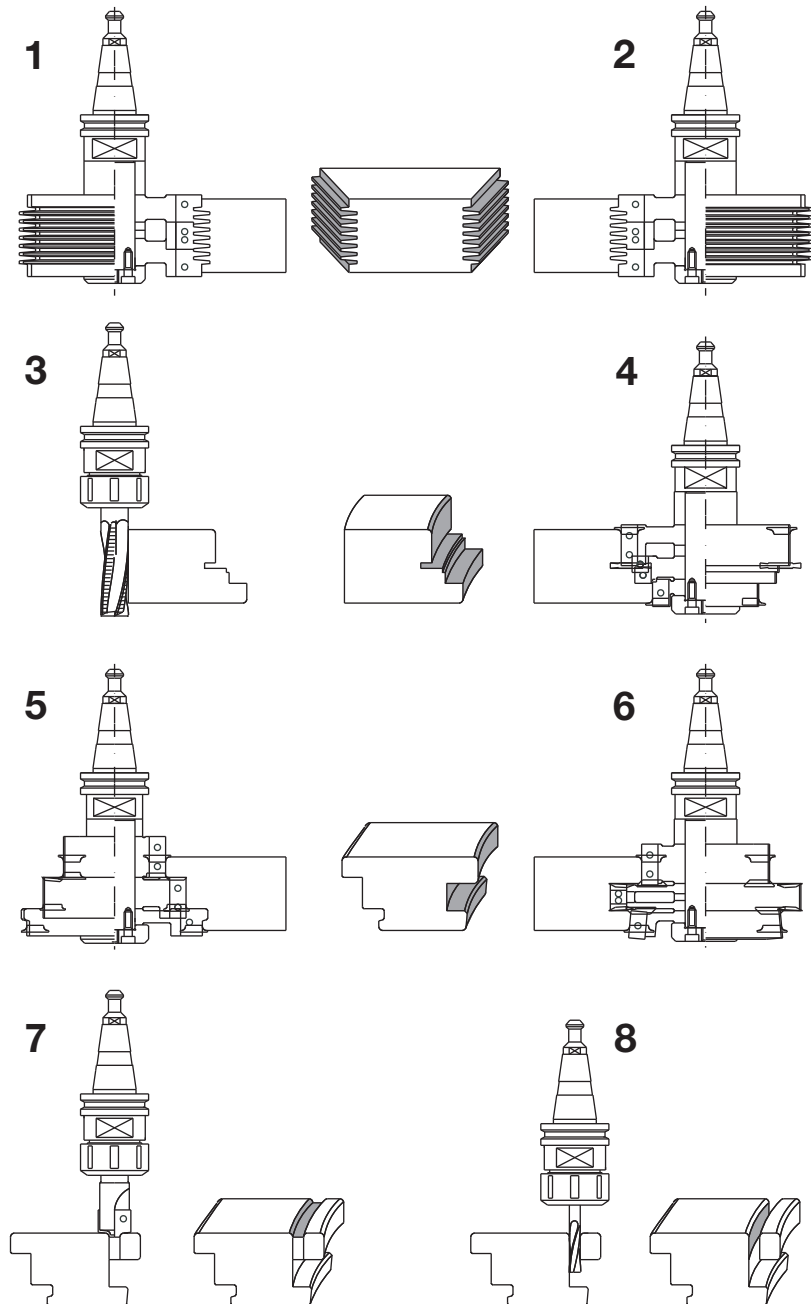
3059

| Denominazione | TIPO | ID nr. |
|---------------------------------|------|-----------------|
| GRUPPO PER GIUNZIONE DX | 1 | 3059 001 |
| GRUPPO PER GIUNZIONE SX | 2 | 3059 002 |
| GRUPPO PER SGROSSATURA | 3 | 3059 003 |
| GRUPPO PER PROFILATURA TELAIO | 4 | 3059 004 |
| GRUPPO PER SQUADRATURA BATTENTE | 5 | 3059 005 |
| GRUPPO PER PROFILATURA BATTENTE | 6 | 3059 006 |
| GRUPPO PER FUGA LISTELLO | 7 | 3059 007 |
| GRUPPO PER RECUPERO LISTELLO | 8 | 3059 008 |



Prezzo escluso attacco
 Price without shank

TIPO



TIPO

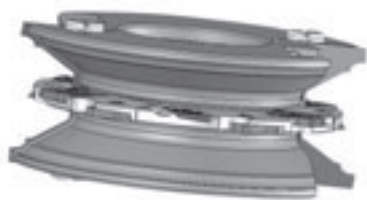
Caratteristiche

Gruppi di teste per l'esecuzione di finestre ad "arco" su macchine CNC.
 Particolarmente adatto per la lavorazione di legni teneri e duri. Possibilità di montaggio su attacco Ø25 - ISO30/ISO40 - HSK.
 I gruppi vengono forniti senza alcun tipo di attacco.
 Prezzo escluso attacco.

Characteristics

Set of cutterheads to realise "arch" windows for CNC machines. Suitable to carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 - HSK.
 This set is supplied without any shank.
 Price without shank.

3060



Caratteristiche

Gruppi di teste per l'esecuzione di porte su macchine CNC.

Particolarmente adatto per la lavorazione di legni teneri e duri. Possibilità di montaggio su attacco Ø25 - ISO30/ISO40 - HSK.

I gruppi vengono forniti senza alcun tipo di attacco.

Prezzo escluso attacco.

Characteristics

Set of cutterheads to realise doors for CNC machines. Suitable for carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 - HSK.

This set is supplied without any shank.

Price without shank.

Gruppi per esecuzione di PORTE.
Groups for execution of DOORS.
 Groupes pour exécution de PORTES.
Gruppe für Ausführung zu TÜREN.
 Juego de brocas para la realización de PUERTAS.

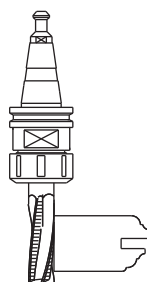
| Denominazione | TIPO | ID nr. |
|----------------------------------|------|-----------------|
| GRUPPO PER SGROSSATURA | 1 | 3060 001 |
| GRUPPO PER GIUNZIONE DX | 2 | 3060 002 |
| GRUPPO PER GIUNZIONE SX | 3 | 3060 003 |
| GRUPPO PER PROFILO INTERNO PORTA | 4 | 3060 004 |
| GRUPPO PER RECUPERO LISTELLO | 5 | 3060 005 |
| GRUPPO PER FUGA LISTELLO | 6 | 3060 006 |
| GRUPPO PER INTESTATURA PORTA | 7 | 3060 007 |
| GRUPPO PER SPECCHIETTI BUGNATI | 8 | 3060 008 |
| GRUPPO PER BATTUTA | 9 | 3060 009 |

Prezzo escluso attacco

Price without shank

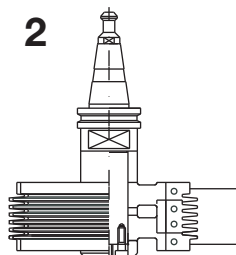
TIPO

1



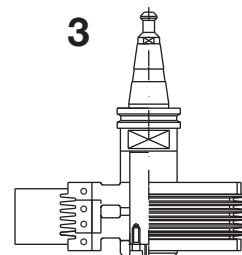
TIPO

2

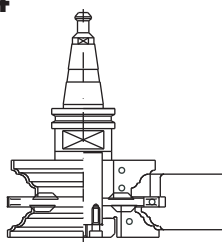


TIPO

3



4



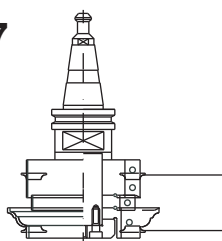
5



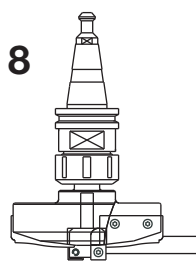
6



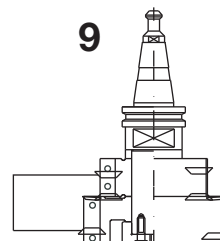
7



8



9



Gruppo per porte.

Groups for executing doors.

Groupes pour l'exécution des portes.

Gruppe für Ausführung zu Türen.

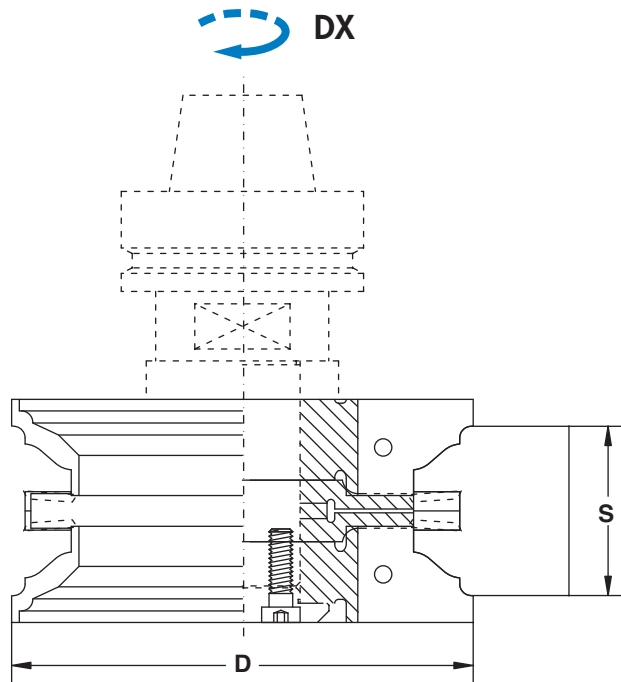
Juego de brocas para la realización de puertas.

3062

SENZA RECUPERO DEL LISTELLO/WITHOUT RECYCLING OF THE SLAT

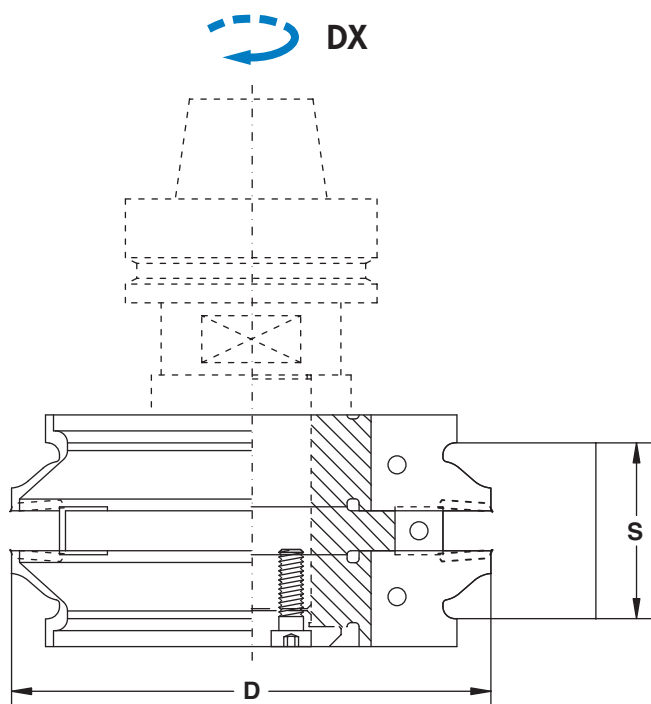
| D | S | Z | rpm | ID nr. DX |
|-----|--------|---|-------|-----------------|
| 120 | Max-44 | 2 | 14000 | 3062 002 |

SAGOMA/PROFILE



| D | S | Z | rpm | ID nr. DX |
|-----|--------|---|-------|-----------------|
| 120 | Max-44 | 2 | 14000 | 3062 001 |

CONTROSAGOMA/COUNTER-PROFILE



Caratteristiche

Gruppi di teste per l'esecuzione di porte su macchine CNC.

Particolarmente adatto per la lavorazione di legni teneri e duri. Possibilità di montaggio su attacco Ø25 - ISO30/ISO40 - HSK.

I gruppi vengono forniti senza alcun tipo di attacco.

Prezzo escluso attacco.

Characteristics

Set of cutterheads to realise doors on CNC machines. Suitable to carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 - HSK.

This set is supplied without any shank.

Price without shank.

3062



Caratteristiche

Gruppi di teste per l'esecuzione di porte su macchine CNC.

Particolarmente adatto per la lavorazione di legni teneri e duri. Possibilità di montaggio su attacco Ø25 - ISO30/ISO40 - HSK.

I gruppi vengono forniti senza alcun tipo di attacco.

Prezzo escluso attacco.

Characteristics

Set of cutterheads to realise doors on CNC machines. Suitable to carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 - HSK.

This set is supplied without any shank.

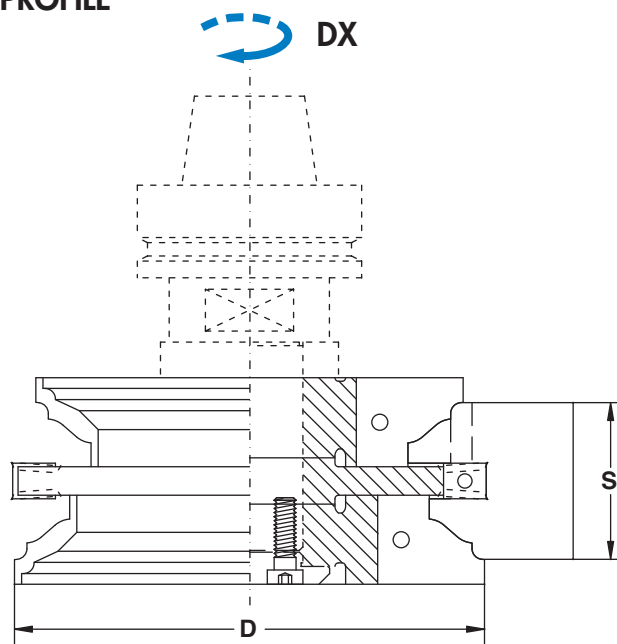
Price without shank.

Gruppo per porte.
Groups for executing doors.
 Groupes pour l'exécution des portes.
Gruppe für Ausführung zu Türen.
 Juego de brocas para la realización de puertas.

CON RECUPERO DEL LISTELLO/WITHOUT RECYCLING OF THE SLAT

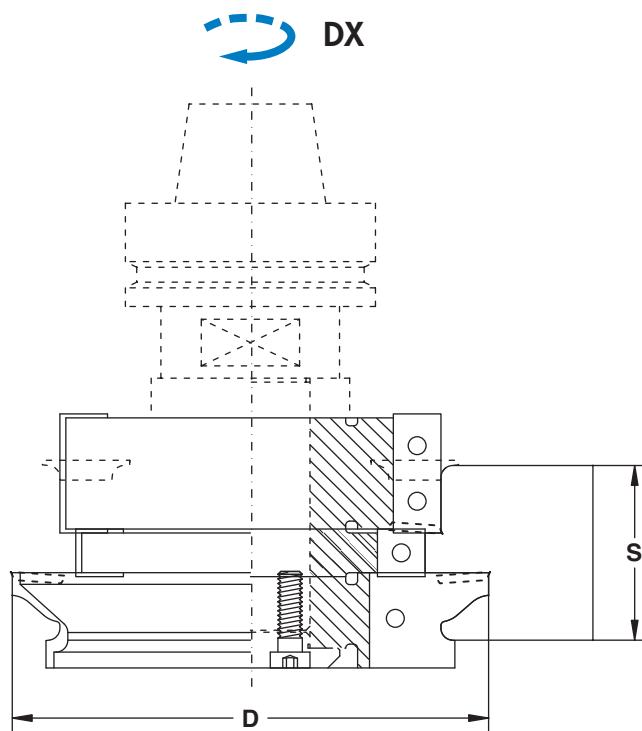
| D | S | Z | rpm | ID nr. DX |
|-----|--------|---|-------|-----------------|
| 132 | Max-44 | 2 | 14000 | 3062 003 |

SAGOMA/PROFILE



| D | S | Z | rpm | ID nr. DX |
|-----|--------|---|-------|-----------------|
| 120 | Max-44 | 2 | 14000 | 3062 004 |

CONTROSAGOMA/COUNTER-PROFILE



Gruppo per porte.

Groups for executing doors.

Groupes pour l'exécution des portes.

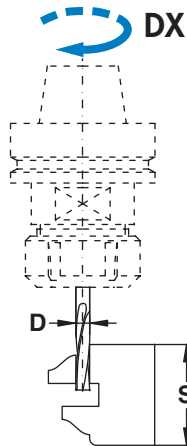
Gruppe für Ausführung zu Türen.

Juego de brocas para la realización de puertas

3062

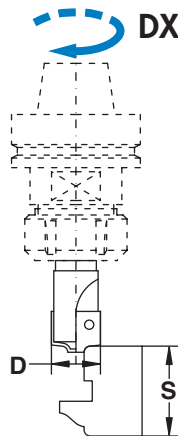
| D | S | Z | rpm | ID nr. DX |
|---|--------|---|-------|-----------------|
| 6 | Max-44 | 2 | 30000 | 3062 005 |

RECUPERO DEL LISTELLO/RECYCLING OF THE SLAT



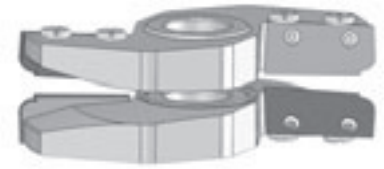
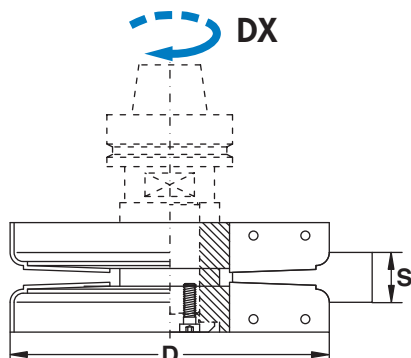
| D | S | Z | rpm | ID nr. DX |
|----|--------|---|-------|-----------------|
| 24 | Max-44 | 2 | 24000 | 3062 006 |

FUGA LISTELLO/PLACING OF THE SLAT



| D | S | Z | rpm | ID nr. DX |
|-----|--------|---|------|-----------------|
| 160 | Max-22 | 2 | 8000 | 3062 007 |

PIATTABANDA DOPPIA/DOUBLE RAISED PANEL HEAD



Caratteristiche

Gruppi di teste per l'esecuzione di porte su macchine CNC.

Particolarmente adatto per la lavorazione di legni teneri e duri. Possibilità di montaggio su attacco Ø25 - ISO30/ISO40 - HSK.

I gruppi vengono forniti senza alcun tipo di attacco.

Prezzo escluso attacco.

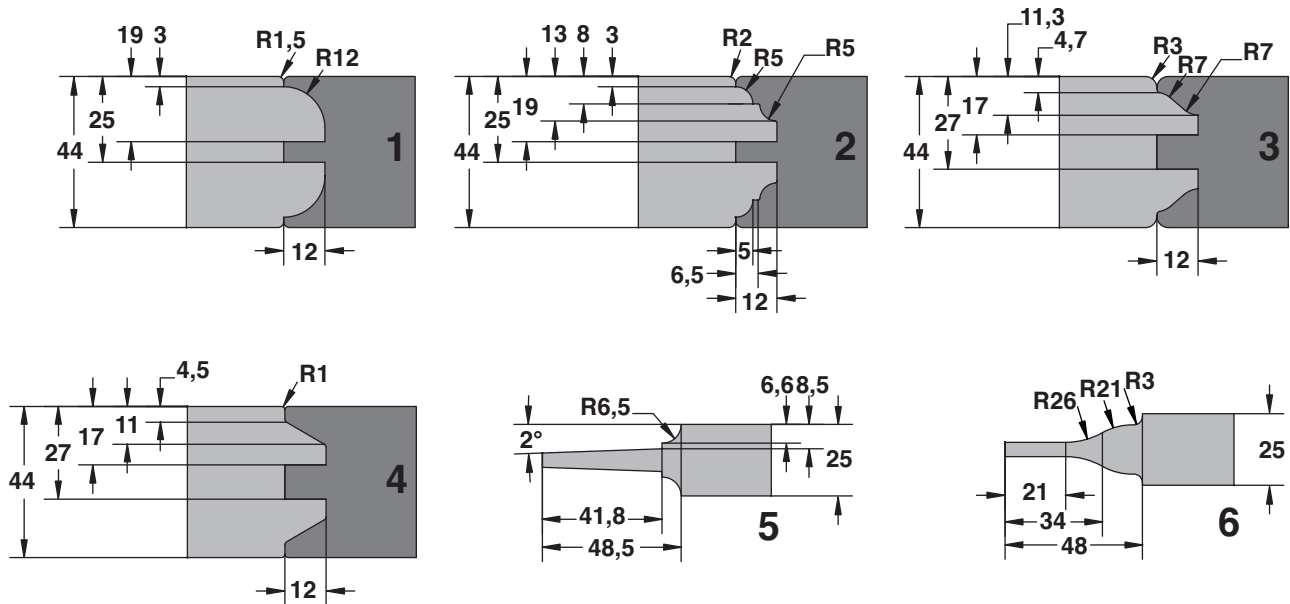
Characteristics

Set of cutterheads to realise doors on CNC machines. Suitable to carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 - HSK.

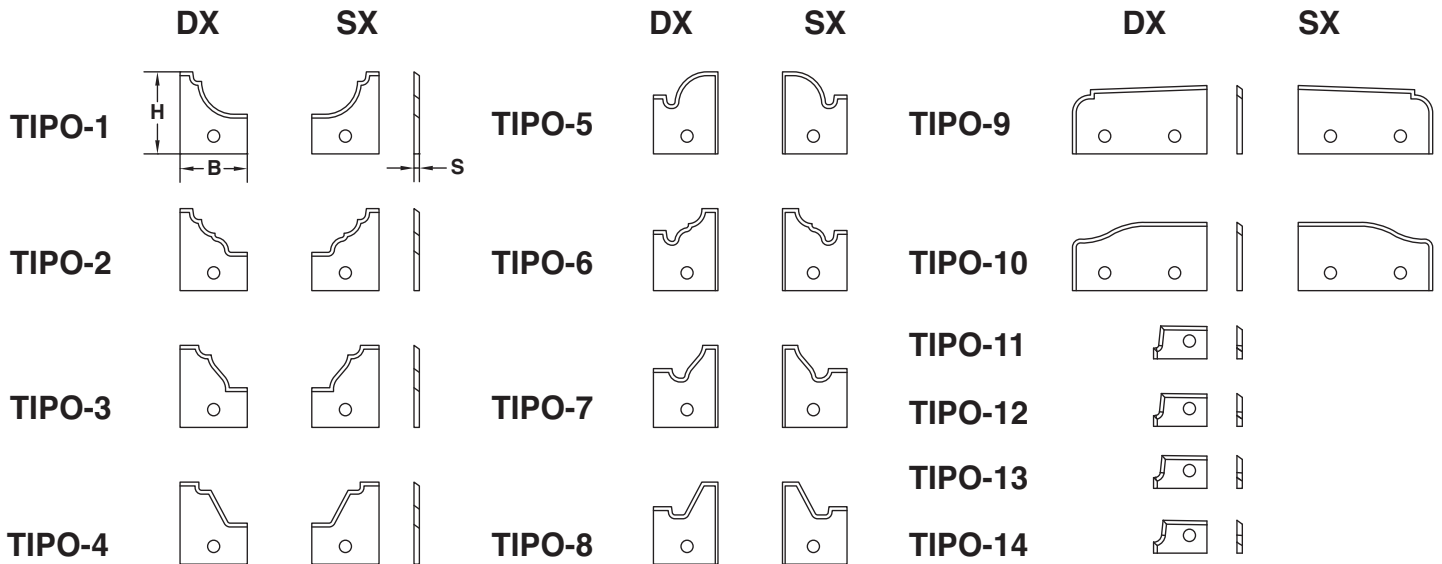
This set is supplied without any shank.

Price without shank.

PROFILI ESEGUIBILI



COLTELLI SAGOMATI DI RICAMBIO



RICAMBI

PER ART. 3062001/002/003/004

COLTELLI SAGOMATI

| TIPO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. DX | 9569 001 | 9569 003 | 9569 005 | 9569 007 | 9569 009 | 9569 011 | 9569 013 | 9569 015 |
| ID nr. SX | 9569 002 | 9569 004 | 9569 006 | 9569 008 | 9569 010 | 9569 012 | 9569 014 | 9569 016 |

PER ART. 3062006/007

COLTELLI SAGOMATI

| TIPO | 9 | 10 | 11 | 12 | 13 | 14 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x25x2 | 50x25x2 | 12x19,85x2 | 12x19,85x2 | 12x19,85x2 | 12x19,85x2 |
| ID nr. DX | 9569 017 | 9569 019 | 9569 021 | 9569 022 | 9569 023 | 9569 024 |
| ID nr. SX | 9569 018 | 9569 020 | - | - | - | - |

COLTELLI STANDARD

RASANTI

ROSETTE

LEVASPIGOLI

| | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 12x12x1,5 | 30x12x1,5 | 14x14x2 | 18x18x2,95 | 16x22x5 |
| ID nr. | 9503 003 | 9503 006 | 9508 002 | 9509 002 | 9510 004 |

LARDONI

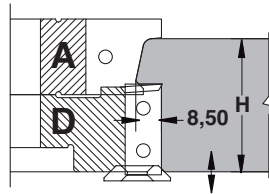
VITI

| | | | | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 18x12x7,5 | 10x12x7,5 | 28x12x7,5 | M8x16 | M5x8 | M4x4 | M4 Ø11,9 | M3,5x6 | M5x10 |
| ID nr. | 9545 005 | 9545 003 | 9545 006 | 9546 020 | 9546 005 | 9546 009 | 9547 002 | 9546 006 | 9546 003 |

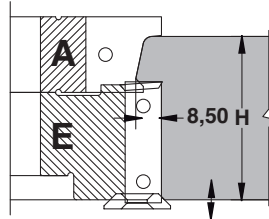
Gruppo per la squadratura di porte Z2.
 Group for the squaring of doors Z2.
 Groupe pour l'équarissage de portes Z2.
 Gruppe für die Abvieren zu Türen Z2.
 Juego de brocas para escuadrar las puertas Z2.

3063

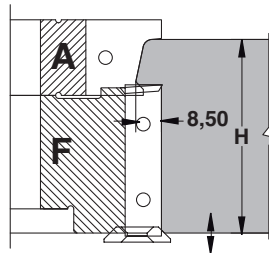
| COMPOSIZIONE A-D BATTUTA 8,50 | | |
|-------------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 1 | 44 | 3063 002 |
| 2 | 44 | 3063 003 |
| 3 | 44 | 3063 004 |
| 4 | 44 | 3063 005 |



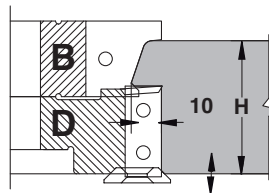
| COMPOSIZIONE A-E BATTUTA 8,50 | | |
|-------------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 1 | 54 | 3063 006 |
| 2 | 54 | 3063 007 |
| 3 | 54 | 3063 008 |
| 4 | 54 | 3063 009 |



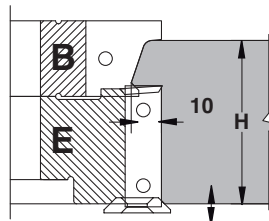
| COMPOSIZIONE A-F BATTUTA 8,50 | | |
|-------------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 1 | 64 | 3063 010 |
| 2 | 64 | 3063 011 |
| 3 | 64 | 3063 012 |
| 4 | 64 | 3063 013 |



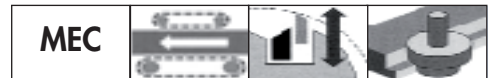
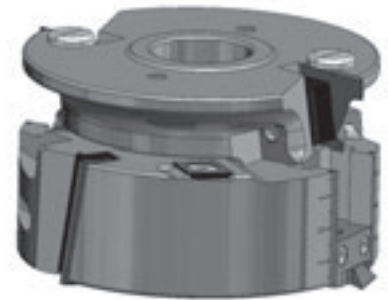
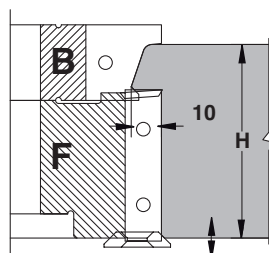
| COMPOSIZIONE B-D BATTUTA 10 | | |
|-----------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 5 | 44 | 3063 014 |
| 6 | 44 | 3063 015 |
| 7 | 44 | 3063 016 |
| 8 | 44 | 3063 017 |



| COMPOSIZIONE B-E BATTUTA 10 | | |
|-----------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 5 | 54 | 3063 018 |
| 6 | 54 | 3063 019 |
| 7 | 54 | 3063 020 |
| 8 | 54 | 3063 021 |



| COMPOSIZIONE B-F BATTUTA 10 | | |
|-----------------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 5 | 64 | 3063 022 |
| 6 | 64 | 3063 023 |
| 7 | 64 | 3063 024 |
| 8 | 64 | 3063 025 |



Caratteristiche

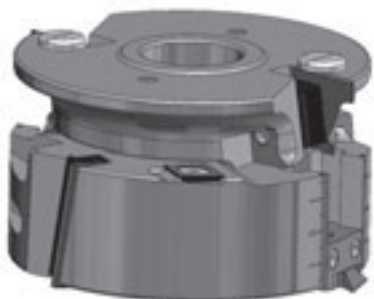
Gruppo per la squadratura di porte su macchine CNC. ØMax 110 in alluminio.
 Particolarmente adatto per la lavorazione di materiali teneri e duri.
 Min rpm 14000.
 Possibilità di montaggio su attacco Ø20/25.
 I gruppi vengono forniti senza alcun tipo di attacco.
 Prezzo escluso attacco.

Characteristics

Set of cutterheads to realise doors fo CNC machines. ØMax 110 in aluminium.
 Suitable to carve both soft and hardwoods.
 Min rpm 14000.
 It can be assembled on a shank Ø20/25.
 This set is supplied without any shank.
 Price without shank.

3063

Gruppo per la squadratura di porte Z2.
 Group for the squaring of doors Z2.
 Groupe pour l'équarissage de portes Z2.
 Gruppe für die Abvieren zu Türen Z2.
 Juego de brocas para escuadrar las puertas Z2.



Caratteristiche

Gruppo per la squadratura di porte su macchine CNC. ØMax 110 in alluminio.
 Particolarmente adatto per la lavorazione di materiali teneri e duri.
 Min rpm 14000.
 Possibilità di montaggio su attacco Ø20/25.
 I gruppi vengono forniti senza alcun tipo di attacco.
 Prezzo escluso attacco.

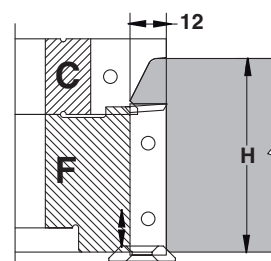
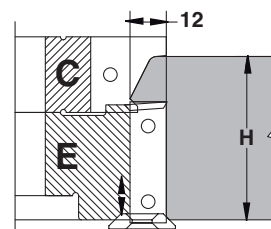
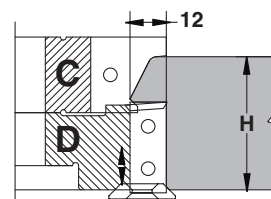
Characteristics

Set of cutterheads to realise doors for CNC machines. ØMax 110 in aluminium.
 Suitable to carve both soft and hardwoods.
 Min rpm 14000.
 It can be assembled on a shank Ø20/25.
 This set is supplied without any shank.
 Price without shank.

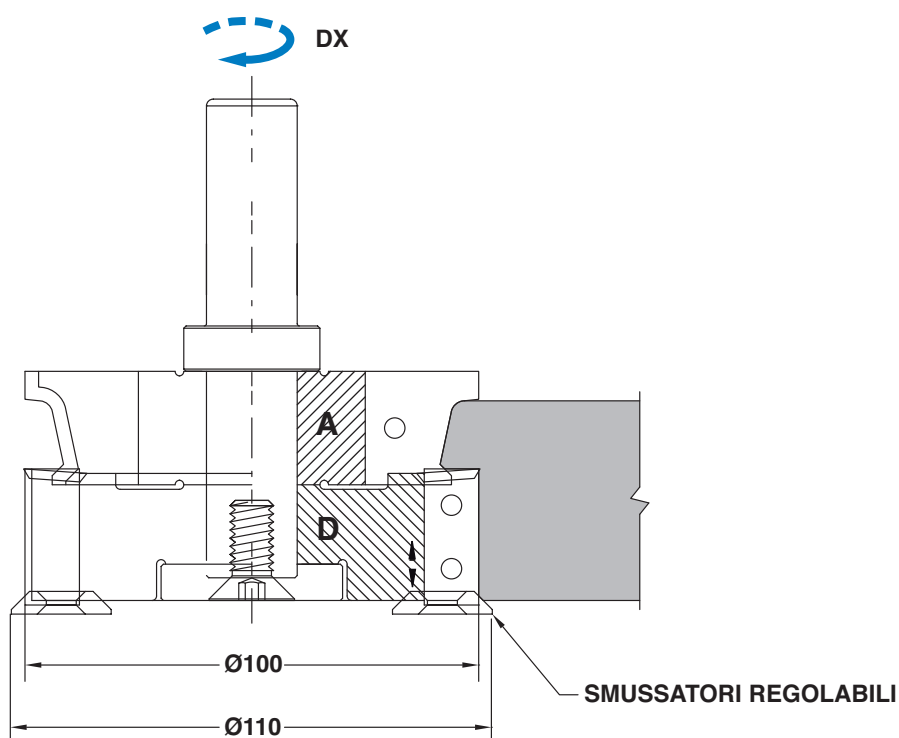
| COMPOSIZIONE C-D | | BATTUTA 8,50 |
|------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 9 | 44 | 3063 026 |
| 10 | 44 | 3063 027 |
| 11 | 44 | 3063 028 |
| 12 | 44 | 3063 029 |

| COMPOSIZIONE C-E | | BATTUTA 8,50 |
|------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 9 | 54 | 3063 030 |
| 10 | 54 | 3063 031 |
| 11 | 54 | 3063 032 |
| 12 | 54 | 3063 033 |

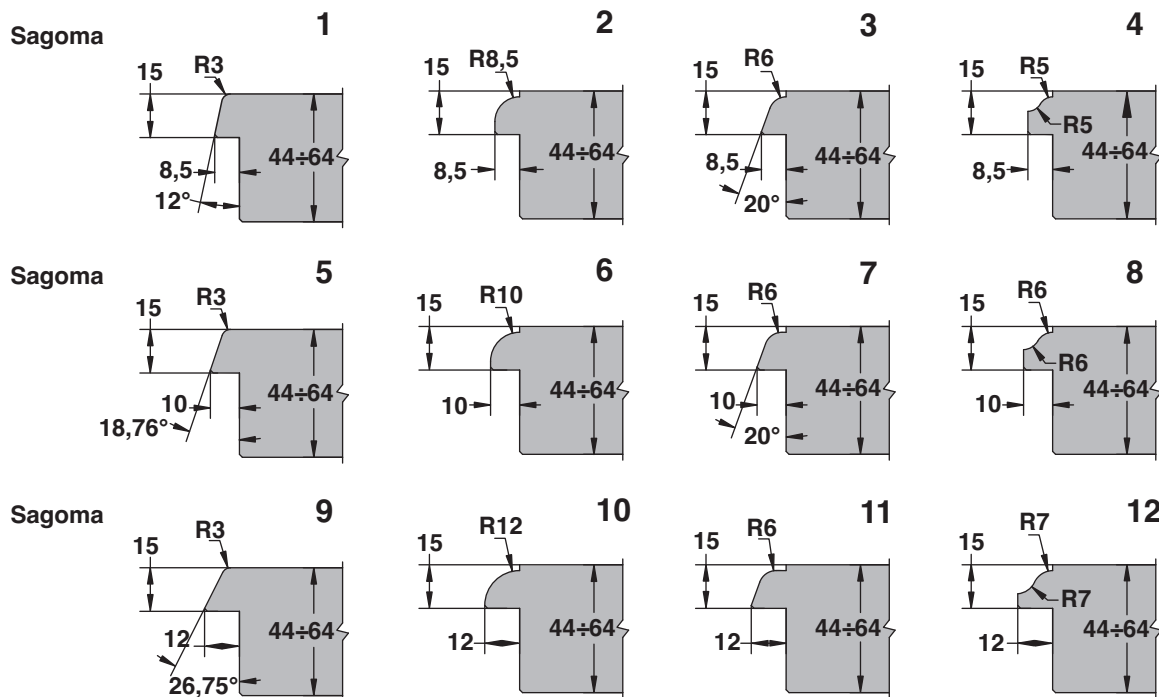
| COMPOSIZIONE C-F | | BATTUTA 8,50 |
|------------------|----|-----------------|
| SAGOMA | H | ID nr. DX |
| 9 | 64 | 3063 034 |
| 10 | 64 | 3063 035 |
| 11 | 64 | 3063 036 |
| 12 | 64 | 3063 037 |



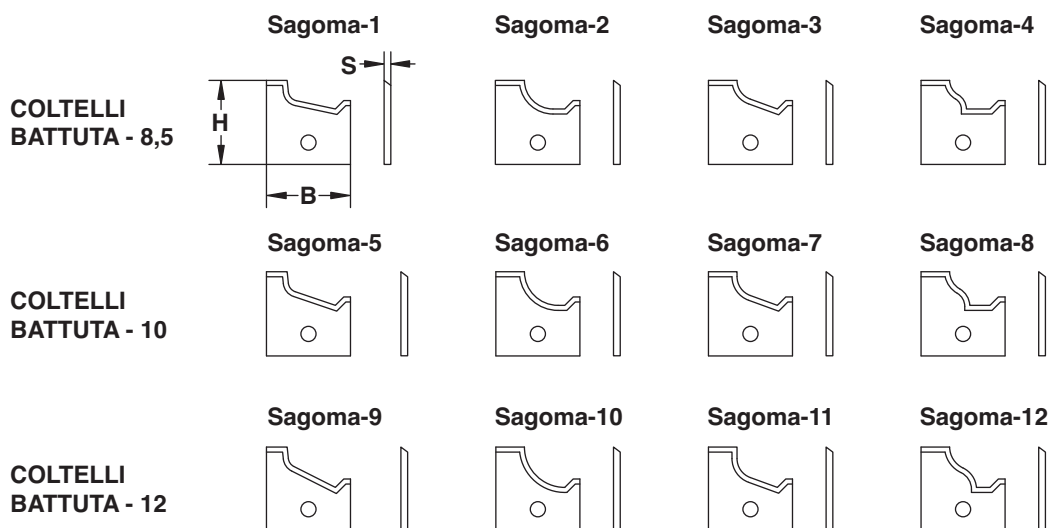
ESEMPIO DI MONTAGGIO



PROFILI ESEGUIBILI



COLTELLI SAGOMATI DI RICAMBIO



RICAMBI

| COLTELLI SAGOMATI | | | | |
|-------------------|------------------------------|------------------------------|------------------------------|-----------------|
| TIPO | BATTUTA - 8,5 | BATTUTA - 10 | BATTUTA - 12 | LARDONI |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 18x12x7,5 |
| ID nr. | 9570 001 ÷ 004 | 9570 011 ÷ 014 | 9570 021 ÷ 024 | 9545 005 |

| STANDARD | | | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| TIPO | COLTELLI | | | LARDONI | | | RASANTI | INSERTI |
| Dimensioni BxHxS | 30x12x1,5 | 40x12x1,5 | 50x12x1,5 | 28x12x7,5 | 38x12x7,5 | 48x12x7,5 | 14x14x2 | 16x32,5x4 |
| ID nr. | 9503 006 | 9503 007 | 9503 008 | 9545 006 | 9545 007 | 9545 008 | 9508 002 | 9513 |

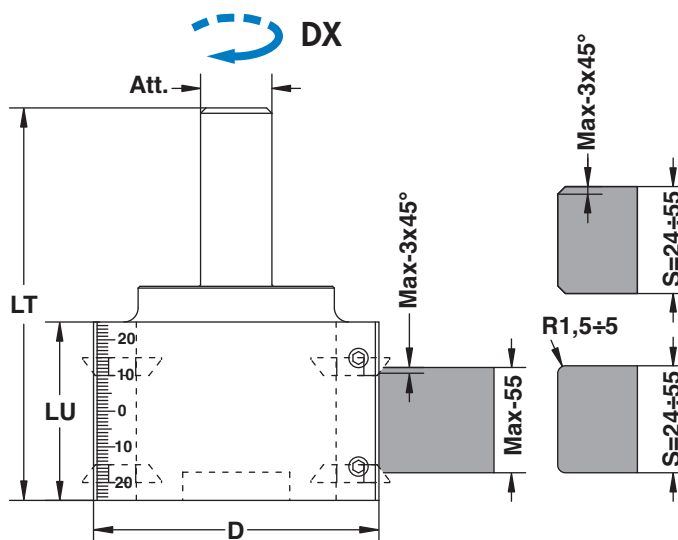
| VITI | | | |
|------------|-----------------|--|-----------------|
| IMPIEGO | PER LARDONI | | PER RASANTI |
| Dimensioni | M6x16 | | M5x8 |
| ID nr. | 9546 018 | | 9546 005 |
| | | | PER INSERTI |
| | | | M5x10 |
| | | | 9546 003 |

3064

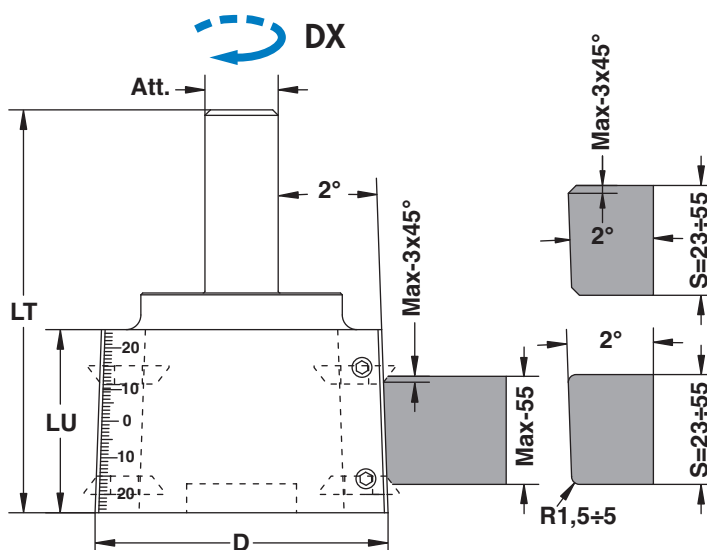


Fresa portacoltelli per contornare e spigolare.
 Cutterhead for surround and for chamfer.
 Fraise porte-outils pour contourner et pour glaner.
 Fräser für umgeben und für stoppeln.
 Fresas con cuchillas para contornear y cantear.

| D | LU | LT | Att. | Z | LEV. | rpm | ID nr. DX |
|----|----|-----|--------|---|------|-------|-----------------|
| 80 | 50 | 110 | Ø20x50 | 2 | 4 | 18000 | 3064 001 |



| D | LU | LT | Att. | Z | LEV. | rpm | ID nr. DX |
|----|----|-----|--------|---|------|-------|-----------------|
| 80 | 50 | 110 | Ø20x50 | 2 | 4 | 18000 | 3064 002 |



MEC



Caratteristiche

Testa con 2 taglianti e 4 levaspigoli a 45° oppure raggianti, regolabili per tutta la lunghezza della punta mediante supporti. Adatta per eseguire contornature con smussatura di pannelli di vario spessore.

Characteristics

Cutter with 2 cuts and 4 inserts at 45° or with radius, adjustable for all the length of the drill by supports. This tool is suitable for surround and for rounding off on panels with different thickness.

RICAMBI

| | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 50x12x1,5 | 48x12x7,5 | M6x16 |
| ID nr. | 9503 008 | 9545 008 | 9546 018 |

| | LEVASPIGOLI | SUP. LEVASP. | VITI |
|------------|-----------------|-----------------|-----------------|
| Dimensioni | 16x22x5 45° | 27x14,5x14 | M5x10 |
| ID nr. | 9510 001 | 9547 007 | 9546 003 |

Testa per esecuzione sede ferramenta su serramenti.

Cutterhead for fitting groove.

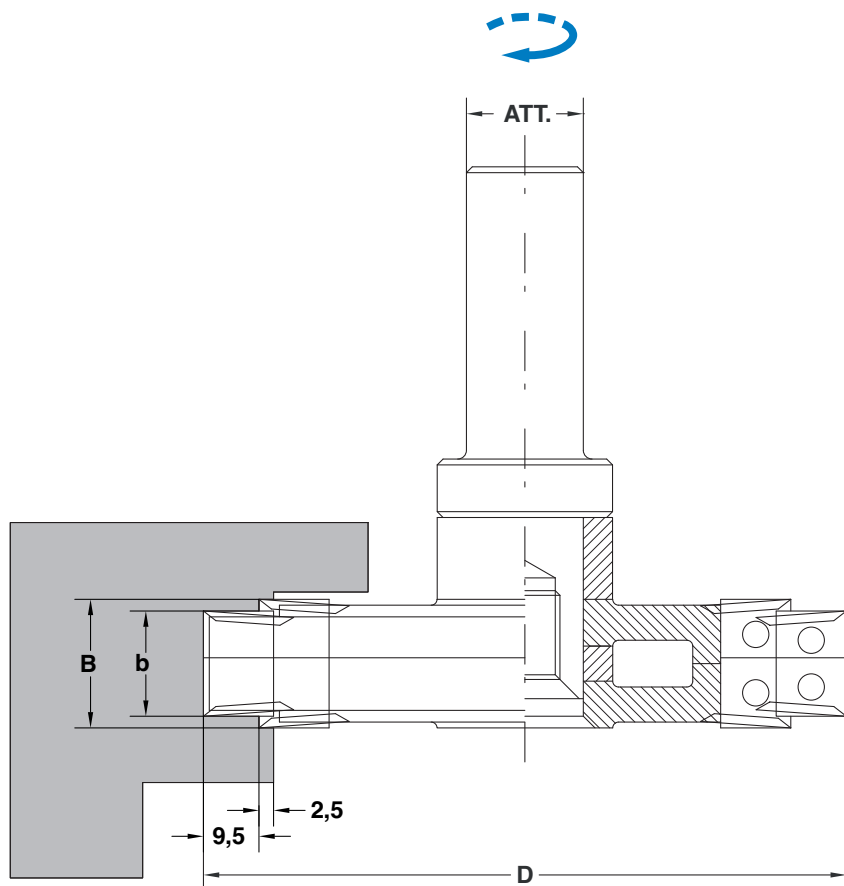
Porte-outil pour cremone.

Messerköpf für Beschlagnut.

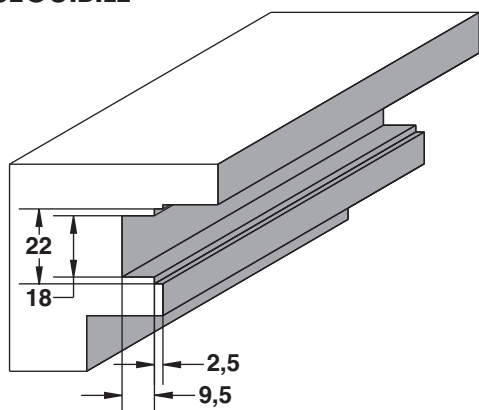
Cabezal para realizar el alojamiento de herramientas de puertas y ventanas.

3065

| D | b | B | Att. | Z+V | rpm | ID nr. DX |
|-----|-------|-------|--------|---------|-------|-----------------|
| 110 | 10÷18 | 14÷22 | ∅20x50 | 4+4+4+4 | 18000 | 3065 001 |



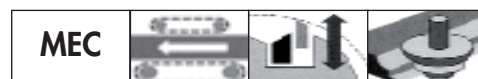
PROFILO ESEGUIBILE



RICAMBI

| | COLTELLI | LARDONI | COLTELLI | LARDONI | VITI |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni | 9,65x12x1,5 | 8,5x12x7,5 | 12x12x1,5 | 10x12x7,5 | M6x16 |
| ID nr. | 9503 002 | 9545 001 | 9503 003 | 9545 003 | 9546 018 |

| | RASANTI | VITI |
|------------|-----------------|-----------------|
| Dimensioni | 14x14x2 | M5x7 |
| ID nr. | 9508 002 | 9546 005 |



Caratteristiche

Testa portacoltelli regolabile con coltellini reversibili, completa di anelli distanziali. Variando lo spessore della testa si ottengono diversi alloggiamenti per diversi tipi di ferramenta.

Characteristics

Adjustable cutterhead with reversible knives and with spacing collars. Changing the thickness of the cutter it is possible to obtain different kind of frame.



Evolved**Experience**



Mandrini per Macchine a CNC

Chucks line for CNC Machines

Mandrini per Macchine a CNC Chucks line for CNC Machines



Mandrini ISO-30
Chucks ISO-30

P 239



Mandrini HSK
Chucks HSK

P 247



Mandrini attacco cilindrico
Chucks with cylindrical shank

P 255



Mandrini attacco conico
Chucks with conical shank

P 257



Pinze elastiche
Spring collets

P 259



Dadi per serraggio mandrino
Spindle locking nuts

P 263

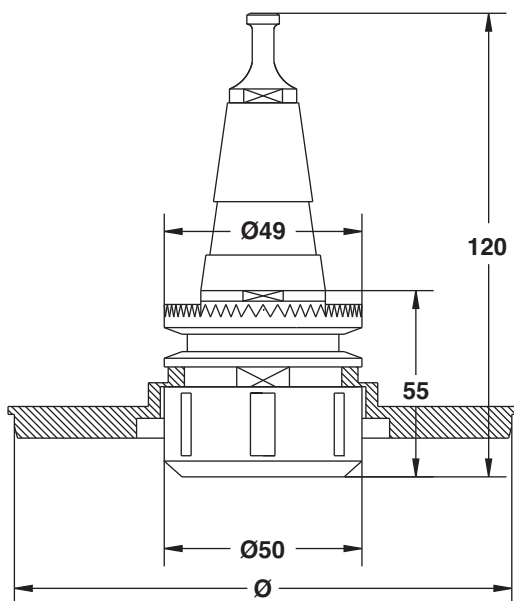
Mandrino attacco ISO-30 porta-pinze ER32 su macchine a CNC.
Chuck ISO-30 for collects ER32 on CNC machines.
 Mandrin ISO-30 pour pinces ER32 pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER32 für CNC Maschinen.
 Mandril portapinzas ER32 con mango ISO-30 para máquinas CNC.

3501

| Att. | ID nr. DX | ID nr. SX |
|--------------------|-----------------|-----------------|
| ISO-30 | 3501 001 | 3501 002 |
| ISO-30 + PIATTELLO | 3501 011 | 3501 012 |

Per macchine MORBIDELLI - SCM
 For MORBIDELLI - SCM machines

N.B.: Il mandrino viene fornito senza pinza.
 ATTENTION: The chuck is supplied without collet.



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.
 Su richiesta con piattello di supporto Ø69-86-106-126 per macchine con porta-utensili STC.

Characteristics

High precision chuck that allows the reduction of tolerances.
 On request it is supplied with support Ø69-86-106-126 on machines with toolholder STC.

RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|-----------|-------|
| ID nr. DX | 9,65x12x1,5 | 12x12x1,5 | 3519 |
| ID nr. SX | 3523 002 | - | - |

3502



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

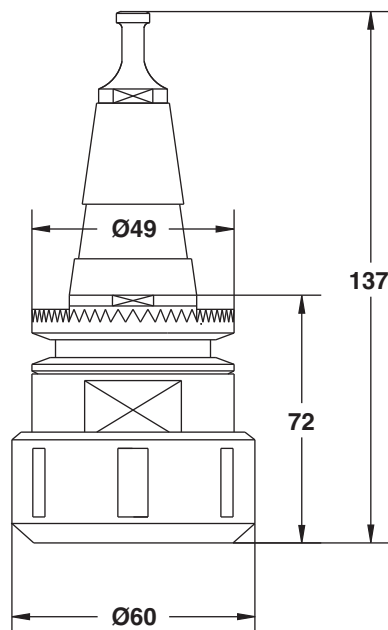
High precision chuck that allows the reduction of tolerances.

Mandrino attacco ISO-30 porta-pinze GRS25 (\varnothing Max-25) su macchine a CNC.
Chuck ISO-30 for collects GRS25 (\varnothing Max-25) on CNC machines.
Mandrin ISO-30 pour pinces GRS25 (\varnothing Max-25) pour CNC machines.
Spannfutter ISO-30 für Spannzangen GRS25 (\varnothing Max-25) für CNC Maschinen.
Mandril portapinzas GRS25 (\varnothing Máx-25) con mango ISO-30 para máquinas CNC.

| Att. | ID nr. DX |
|--------|-----------------|
| ISO-30 | 3502 001 |
| | |

Per macchine MORBIDELLI - SCM
For MORBIDELLI - SCM machines

N.B.: Il mandrino viene fornito senza pinza.
ATTENTION: The chuck is supplied without collet.



RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|-----------------|-------|
| ID nr. DX | 3525 001 | 3527 004 | 3521 |
| | | | |
| | | | |

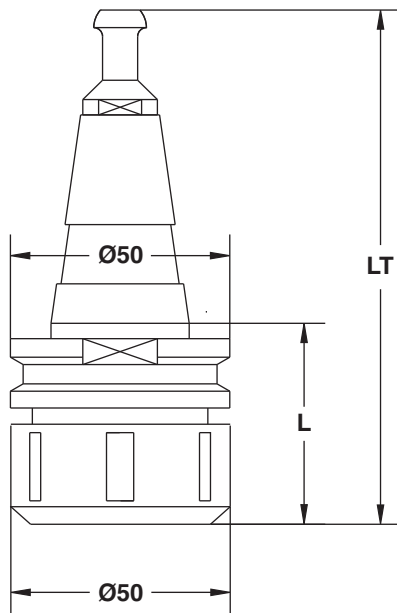
Mandrino attacco ISO-30 porta-pinze ER32 su macchine a CNC.
Chuck ISO-30 for collects ER32 on CNC machines.
 Mandrin ISO-30 pour pinces ER32 pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER32 für CNC Maschinen.
 Mandril portapinzas ER32 con mango ISO-30 para máquinas CNC.

3503

| Att. | L | LT | ID nr. DX | ID nr. SX |
|--------|----|-------|-----------------|-----------------|
| ISO-30 | 42 | 116,5 | 3503 001 | 3503 002 |
| ISO-30 | 63 | 139 | 3503 003 | 3503 004 |

Per macchine ALBERTI-BIESSE-BULLERI-BUSELLATO-CMS-MASTERWOOD (motori HSD/G.C.)
 For machines ALBERTI-BIESSE-BULLERI-BUSELLATO-CMS-MASTERWOOD (HSD/G.C. motors)

N.B.: Il mandrino viene fornito senza pinza.
 ATTENTION: The chuck is supplied without collet.



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.
 Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

High precision chuck that allows the reduction of tolerances.
 Changing the terminal pin, the chuck can be put on different kinds of machines.

RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|---------|-------|
| ID nr. DX | 3523 001 | 3527 | 3519 |
| ID nr. SX | 3523 002 | - | - |

3529

Mandrino attacco ISO-30 porta-pinze ER32 su macchine a CNC.
Chuck ISO-30 for collects ER32 on CNC machines.
Mandrin ISO-30 pour pinces ER32 pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER32 für CNC Maschinen.
Mandril portapinzas ER32 con mango ISO-30 para máquinas CNC.



| Att. | L | LT | ID nr. DX | ID nr. SX |
|--------|----|-------|-----------------|-----------------|
| ISO-30 | 63 | 110,8 | 3529 001 | 3529 002 |
| | | | | |
| | | | | |

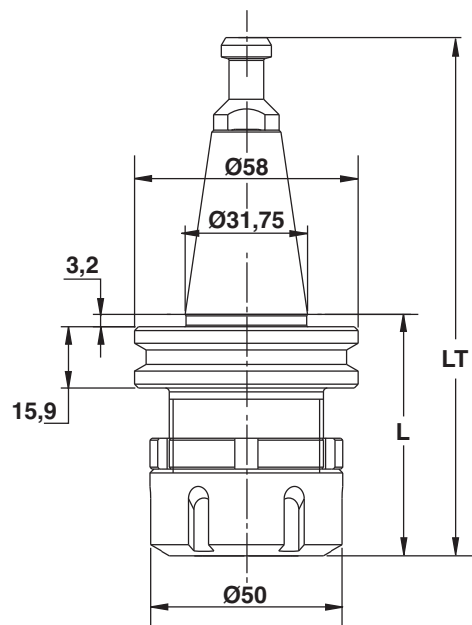
Per macchine UNITEAM-ESSETEAM
For machines UNITEAM-ESSETEAM

Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.
Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

High precision chuck that allows the reduction of tolerances.
Changing the terminal pin, the chuck can be put on different kinds of machines.



RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|-----------------|-------|
| ID nr. DX | 3523 001 | 3527 003 | 3519 |
| ID nr. SX | 3523 002 | - | - |
| | | | |

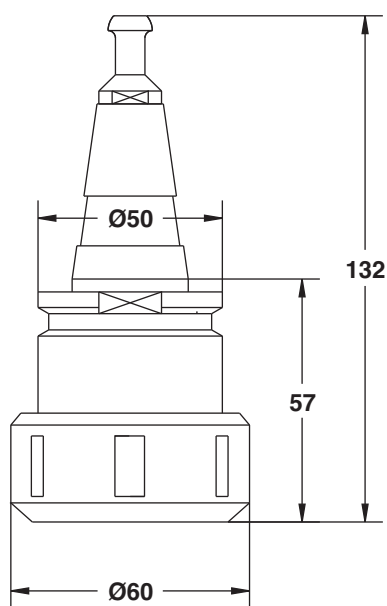
Mandrino attacco ISO-30 porta pinze ER40 (ØMax-25) su macchine a CNC.
Chuck with shank ISO-30 for collects ER40 (ØMax-25) on CNC machines.
 Mandrin avec attaque ISO-30 pour pinces ER40 (ØMax-25) pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER40 (ØMax-25) für CNC Maschinen.
 Mandril portapinzas ER40 (ØMáx-25) con mango ISO-30 para máquinas CNC.

3504

| Att. | ID nr. DX | ID nr. SX |
|--------|-----------------|-----------------|
| ISO-30 | 3504 001 | 3504 002 |
| | | |

Per macchine ALBERTI-BIESSE-BULLERI-CMS-MASTERWOOD (motori HSD/G.C.)
 For machines ALBERTI-BIESSE-BULLERI-CMS-MASTERWOOD (HSD/G.C. motors)

N.B.: Il mandrino viene fornito senza pinza.
 ATTENTION: The chuck is supplied without collet.



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.
 Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

High precision chuck that allows the reduction of tolerances.
 Changing the terminal pin, the chuck can be put on different kinds of machines.

RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|---------|-------|
| ID nr. DX | 3524 001 | 3527 | 3520 |
| ID nr. SX | 3524 002 | - | - |
| | | | |

3530

Mandrino attacco ISO-30 porta-pinze ER40 (ØMax-25) su macchine a CNC.
Chuck with shank ISO-30 for collects ER40 (ØMax-25) on CNC machines.
 Mandrin avec attaque ISO-30 pour pinces ER40 (ØMax-25) pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER40 (ØMax-25) für CNC Maschinen.
 Mandril portapinzas ER40 (ØMáx-25) con mango ISO-30 para máquinas CNC.



| Att. | L | LT | ID nr. DX | ID nr. SX |
|--------|----|-------|-----------------|-----------------|
| ISO-30 | 65 | 112,8 | 3530 001 | 3530 002 |
| | | | | |

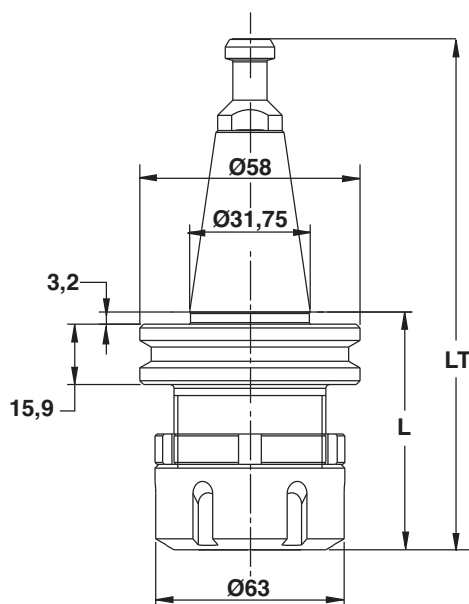
Per macchine UNITEAM - ESSETEAM
 For machines UNITEAM - ESSETEAM

Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.
 Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

High precision chuck that allows the reduction of tolerances.
 Changing the terminal pin, the chuck can be put on different kinds of machines.



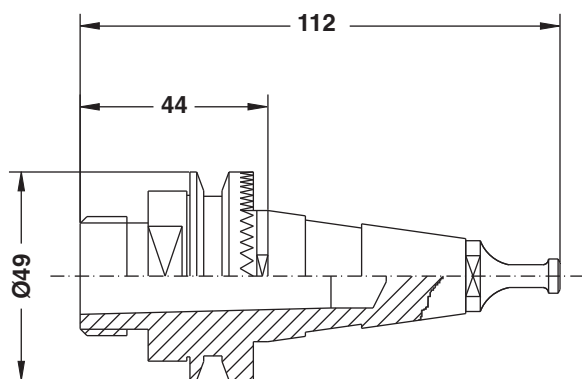
RICAMBI

| | GHIERA | TIRANTE | PINZA |
|-----------|-----------------|-----------------|-------|
| ID nr. DX | 3524 001 | 3527 003 | 3520 |
| ID nr. SX | 3524 002 | - | - |
| | | | |

Mandrino attacco ISO-30 con adattatore CM2 su macchine a CNC.
Chuck with shank ISO-30 with adapter CM2 on CNC machines.
 Mandrin avec attaque ISO-30 avec adaptateur CM2 sur CNC machines.
Spannfutter ISO-30 mit Anpassungsgerät CM2 für CNC Maschinen.
 Mandril con mango ISO-30 y ajuste CM2 para máquinas CNC.

3507

| Att. | MACCHINA | ID nr |
|--------|------------------|-----------------|
| ISO-30 | Morbidelli - SCM | 3507 001 |
| | | |



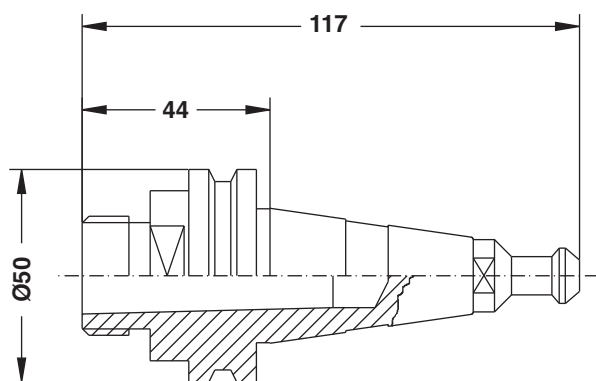
Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità. Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

High precision chuck that allows the reduction of tolerances. Changing the terminal pin, the chuck can be put on different kinds of machines.

| Att. | MACCHINA | ID nr |
|--------|---|-----------------|
| ISO-30 | Alberti - Biesse - Bulleri - Busellato Cosmec - IMA - Masterwood | 3507 002 |



RICAMBI

PER ART. 3507001

| TIRANTE | MACCHINA | ID nr. |
|---------|------------------|-----------------|
| | Morbidelli - SCM | 3527 004 |

PER ART. 3507002

| TIRANTE | MACCHINA | ID nr. |
|---------|--|-------------------|
| | Alberti - Biesse Bulleri - Busellato - Cosmec IMA - Masterwood | 3527 001÷3 |

3508



Caratteristiche

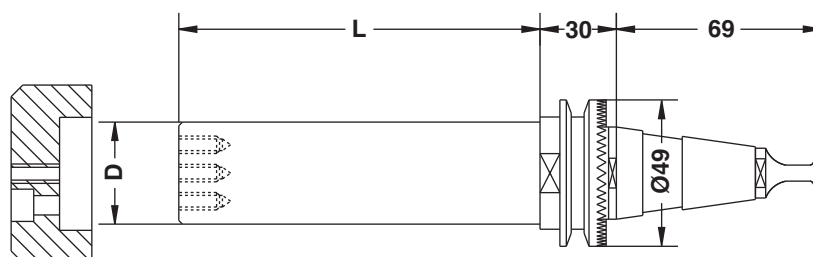
Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità. Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

Characteristics

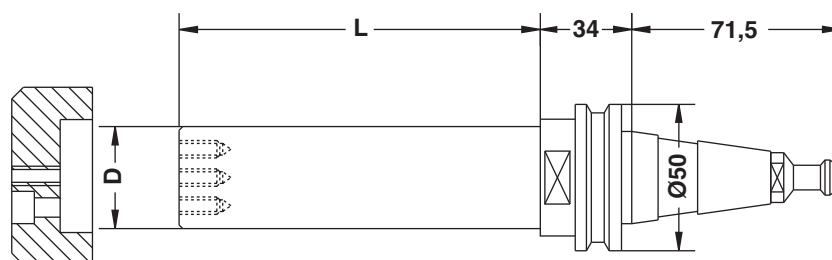
High precision chuck that allows the reduction of tolerances. Changing the terminal pin, the chuck can be put on different kinds of machines.

Mandrino attacco ISO-30 con albero porta-frese su macchine a CNC.
 Chuck with shank ISO-30 carrying drill for CNC machines.
 Mandrin avec attaque ISO-30 porte-fraises pour CNC machines.
 Spannfutter ISO-30 Fräsdorn für CNC Maschinen.
 Mandril con eje portafresas y con mango ISO-30 para máquinas CNC.

| Att. | MACCHINA | D | L | ID nr. |
|--------|------------------|--------|-----|-----------------|
| ISO-30 | Morbidelli - SCM | Max-30 | 70 | 3508 005 |
| ISO-30 | | Max-30 | 80 | 3508 006 |
| ISO-30 | | Max-30 | 100 | 3508 001 |
| ISO-30 | | Max-35 | 70 | 3508 007 |
| ISO-30 | | Max-35 | 80 | 3508 008 |
| ISO-30 | | Max-35 | 100 | 3508 002 |



| Att. | MACCHINA | D | L | ID nr. |
|--------|--|--------|-----|-----------------|
| ISO-30 | Alberti - Biesse - Bulleri Busellato - Cosmec - IMA Masterwood | Max-30 | 70 | 3508 009 |
| ISO-30 | | Max-30 | 80 | 3508 010 |
| ISO-30 | | Max-30 | 100 | 3508 003 |
| ISO-30 | | Max-35 | 70 | 3508 011 |
| ISO-30 | | Max-35 | 80 | 3508 012 |
| ISO-30 | | Max-35 | 100 | 3508 004 |



RICAMBI

PER ART. 3508001

| TIRANTE | MACCHINA | ID nr. |
|---------|------------------|-----------------|
| | Morbidelli - SCM | 3527 004 |

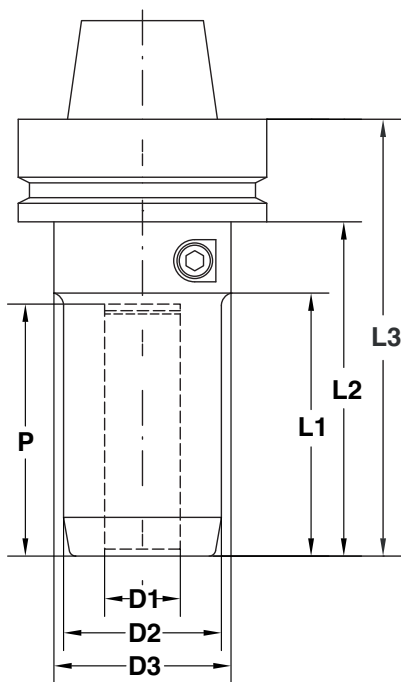
PER ART. 3508002

| TIRANTE | MACCHINA | ID nr. |
|---------|--|-------------------|
| | Alberti - Biesse Bulleri - Busellato - Cosmec IMA - Masterwood | 3527 001÷3 |

Mandrino "HYDRO" attacco HSK-63F su macchine a CNC.
 Chuck "HYDRO" with shank HSK-63F on CNC machines.
 Mandrin "HYDRO" avec attaque HSK-63F pour CNC machines.
 Spannfutter "HYDRO" mit Verbindung HSK-63 für CNC Maschinen.
 Mandril "HYDRO" con mango HSK-63 para máquinas CNC.

3540

| D1 | D2 | D3 | L1 | L2 | L3 | P | ID nr. |
|----|----|----|----|----|-----|----|-----------------|
| 20 | 40 | 50 | 55 | 73 | 99 | 52 | 3540 001 |
| 25 | 45 | 50 | 59 | 77 | 103 | 56 | 3540 002 |



Caratteristiche

Mandrino di precisione con attacco HSK-63F, velocizza e facilita il cambio degli utensili.

Characteristics

High precision chuck with shank HSK-63F, quick and easy tool changes.

3509

Mandrino attacco HSK-63 porta-pinze ER32 su macchine a CNC.
Chuck with shank HSK-63 for collects ER32 on CNC machines.
Mandrin avec attaque HSK-63 pour pinces ER32 pour CNC machines.
Spannfutter mit Verbindung HSK-63 für Zange ER32 für CNC Maschinen.
Mandril portapinzas ER32 con mango HSK-63 para máquinas CNC.



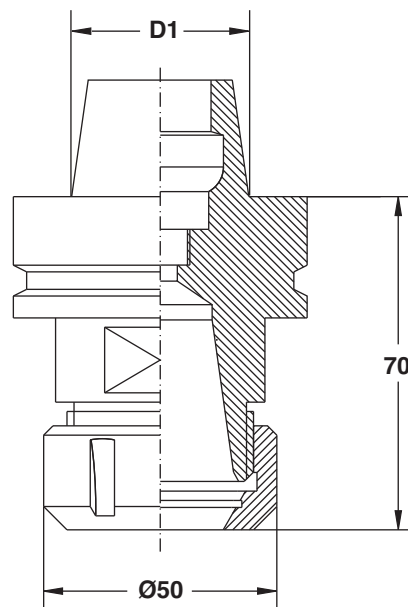
| Att. | D1 | ID nr. DX | ID nr. SX |
|----------|----|-----------------|-----------------|
| HSK-F-63 | 38 | 3509 001 | 3509 002 |
| HSK-F-63 | 48 | 3509 001 | 3509 002 |

Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.



RICAMBI

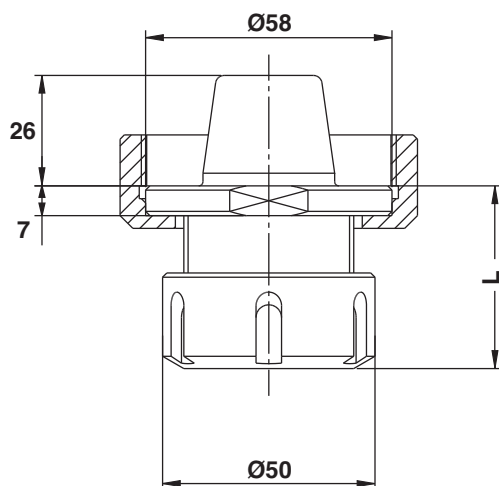
| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3523 001 | 3519 |
| ID nr. SX | 3523 002 | - |

Mandrino attacco HSK porta-pinze ER32 su macchine a CNC.
Chuck with shank HSK for collects ER32 on CNC machines.
 Mandrin avec attaque HSK pour pinces ER32 sur CNC machines.
Spannfutter mit Verbindung HSK für Zange ER32 für CNC Maschinen.
 Mandril portapinzas ER32 con mango HSK para máquinas CNC.

3531

| Aff. | D1 | ID nr. DX | ID nr. SX |
|------|----|-----------------|-----------------|
| HSK | 43 | 3531 001 | 3531 002 |
| | | | |

HSK - Per macchine CMS
 HSK - For machines CMS



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

RICAMBI

| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3524 001 | 3519 |
| ID nr. SX | 3524 002 | - |
| | | |

3510

Mandrino attacco HSK-63 porta-pinze ER40 su macchine a CNC.
Chuck with shank HSK-63 for collects ER40 on CNC machines.
Mandrin avec attaque HSK-63 pour pinces ER40 pour CNC machines.
Spannfutter mit Verbindung HSK-63 für Zange ER40 für CNC Maschinen.
Mandril portapinzas ER40 con mango HSK-63 para máquinas CNC.



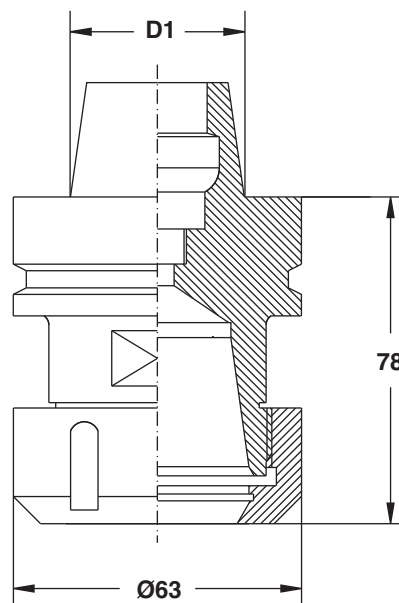
| Att. | D1 | ID nr. DX | ID nr. SX |
|----------|----|-----------------|-----------------|
| HSK-F-63 | 38 | 3510 001 | 3510 003 |
| HSK-E-63 | 48 | 3510 002 | 3510 004 |

Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tollerances.



RICAMBI

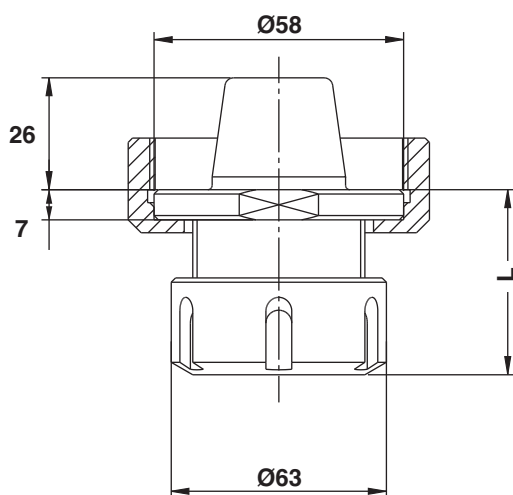
| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3524 001 | 3520 |
| ID nr. SX | 3524 002 | - |

Mandrino attacco HSK porta-pinze ER40 su macchine a CNC.
Chuck with shank HSK for collects ER40 on CNC machines.
 Mandrin avec attaque HSK pour pinces ER40 pour CNC machines.
Spannfutter mit Verbindung HSK für Zange ER40 für CNC Maschinen.
 Mandril portapinzas ER40 con mango HSK para máquinas CNC.

3532

| Att. | D1 | ID nr. DX | ID nr. SX |
|------|----|-----------------|-----------------|
| HSK | 60 | 3532 001 | 3532 002 |
| | | | |

HSK - Per macchine CMS
 HSK - For machines CMS



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

RICAMBI

| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3524 001 | 3520 |
| ID nr. SX | 3524 002 | - |
| | | |

3511

Mandrino attacco HSK-63 con albero porta-frese su macchine a CNC.
Chuck with shank HSK-63 carrying drill for CNC machines.
Mandrin avec attaque HSK-63 porte-fraises pour CNC machines.
Spannfutter mit Verbindung HSK-63 Fräsdorn für CNC Maschinen.
Mandril con eje portafresas y con mango HSK-63 para máquinas CNC.



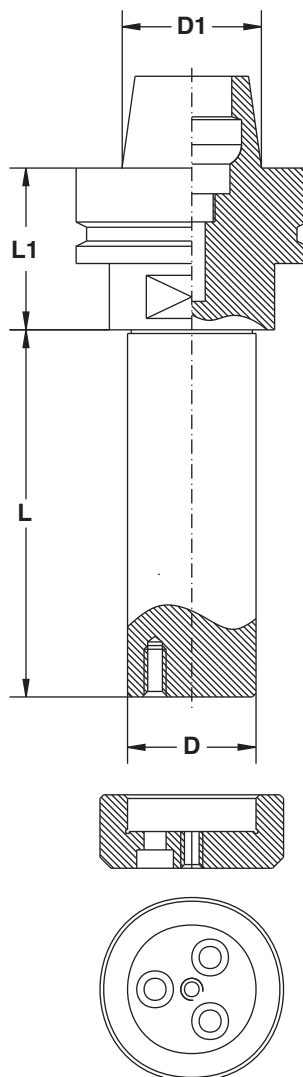
Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

| Att. | D1 | D | L1 | L | ID nr. |
|----------|----|----|----|-----|-----------------|
| HSK-F-63 | 38 | 30 | 33 | 70 | 3511 005 |
| HSK-F-63 | 38 | 30 | 33 | 80 | 3511 006 |
| HSK-F-63 | 38 | 30 | 33 | 100 | 3511 001 |
| HSK-F-63 | 38 | 35 | 33 | 70 | 3511 007 |
| HSK-F-63 | 38 | 35 | 33 | 80 | 3511 008 |
| HSK-F-63 | 38 | 35 | 33 | 100 | 3511 002 |
| HSK-E-63 | 48 | 30 | 42 | 70 | 3511 009 |
| HSK-E-63 | 48 | 30 | 42 | 80 | 3511 010 |
| HSK-E-63 | 48 | 30 | 42 | 100 | 3511 003 |
| HSK-E-63 | 48 | 35 | 42 | 70 | 3511 011 |
| HSK-E-63 | 48 | 35 | 42 | 80 | 3511 012 |
| HSK-E-63 | 48 | 35 | 42 | 100 | 3511 004 |



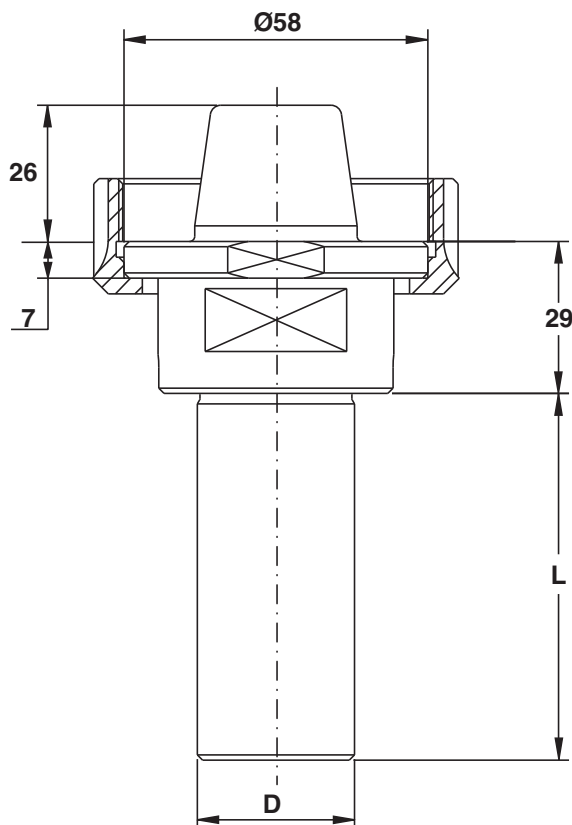
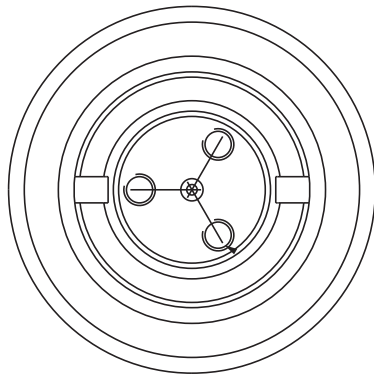
Mandrino attacco HSK con albero porta-frese su macchine a CNC.
Chuck with shank HSK carrying drill for CNC machines.
 Mandrin avec attaque HSK porte-fraises pour CNC machines.
Spannfutter HSK Fräsdorn für CNC Maschinen.
 Mandril con eje portafresas y con mango HSK para máquinas CNC.

3533

| Att. | D | L | ID nr. |
|------|----|-----|-----------------|
| HSK | 30 | 70 | 3533 001 |
| HSK | 30 | 80 | 3533 002 |
| HSK | 30 | 100 | 3533 003 |
| HSK | 35 | 70 | 3533 004 |
| HSK | 35 | 80 | 3533 005 |
| HSK | 35 | 100 | 3533 006 |



HSK - Per macchine CMS
 HSK - For machines CMS



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

3541



Caratteristiche

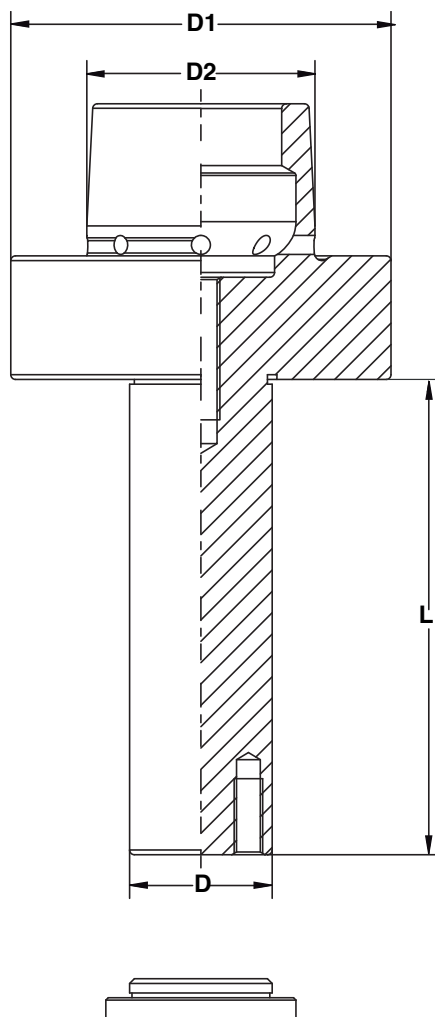
Mandrino di precisione con attacco HSK-63E per macchine Weing, permette di ridurre al minimo le tolleranze di concentricità

Characteristics

High precision chuck with shank HSK-63E, for Weing machines, that allows the reduction of tolerances.

Mandrino attacco HSK-63E con albero porta-frese su macchine Weing.
Chuck with shank HSK-63E carrying drill for Weing machines.
Mandrin avec attaque HSK-63E porte-fraises pour Weing machines.
Spannfutter HSK-63E Fräsdorn für Weing Maschinen.
Mandril con eje portafresas y con mango HSK-63E para máquinas Weing.

| D1 | D2 | D | L | ID nr. |
|----|----|----|-----|-----------------|
| 80 | 48 | 30 | 60 | 3541 001 |
| 80 | 48 | 30 | 80 | 3541 002 |
| 80 | 48 | 30 | 100 | 3541 003 |
| 80 | 48 | 30 | 130 | 3541 004 |
| 80 | 48 | 30 | 150 | 3541 005 |
| 80 | 48 | 30 | 180 | 3541 006 |
| 80 | 48 | 30 | 200 | 3541 007 |
| 80 | 48 | 30 | 230 | 3541 008 |
| 80 | 48 | 30 | 240 | 3541 009 |
| 80 | 48 | 35 | 80 | 3541 010 |
| 80 | 48 | 35 | 100 | 3541 011 |
| 80 | 48 | 35 | 120 | 3541 012 |
| 80 | 48 | 35 | 150 | 3541 013 |
| 80 | 48 | 35 | 200 | 3541 014 |
| 80 | 48 | 40 | 60 | 3541 015 |
| 80 | 48 | 40 | 80 | 3541 016 |
| 80 | 48 | 40 | 100 | 3541 017 |
| 80 | 48 | 40 | 150 | 3541 018 |
| 80 | 48 | 40 | 180 | 3541 019 |
| 80 | 48 | 40 | 200 | 3541 020 |
| 80 | 48 | 40 | 240 | 3541 021 |

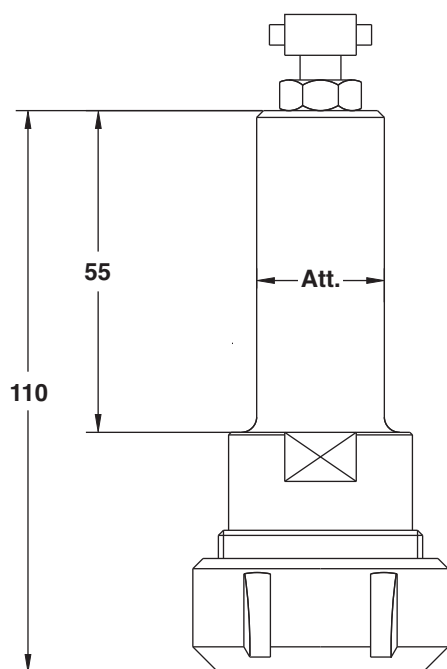


Mandrino con attacco Ø25x55 porta-pinze ER32 per sistema "PS LEUCO".
 Chuck with shank Ø25x55 for collect ER32 for "PS LEUCO" system.
 Mandrin avec attaque Ø25x55 pour pinces ER32 pour "PS LEUCO" système.
 Sindle mit Verbindung Ø25x55 für Zangen ER32 für "PS LEUCO" System.
 Mandril portapinzas ER32 con mango Ø25x55 para el sistema "PS LEUCO".

3512



| Att. | ID nr. DX |
|------|-----------|
| Ø25 | 3512001 |
| | |



Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

RICAMBI

| | GHIERA | PINZA |
|-----------|---------|-------|
| ID nr. DX | 3523001 | 3519 |
| | | |
| | | |

3513



Mandrino con attacco cilindro porta-frese per pantografo.
Chuck with cylindrical shank for pantograph.
 Mandrin avec attaque cylindrique pour pantograph.
Spannfutter mit zylinder Verbindungsstück für Pantograph.
 Mandril con mango cilindrico portafresas para fresadora.

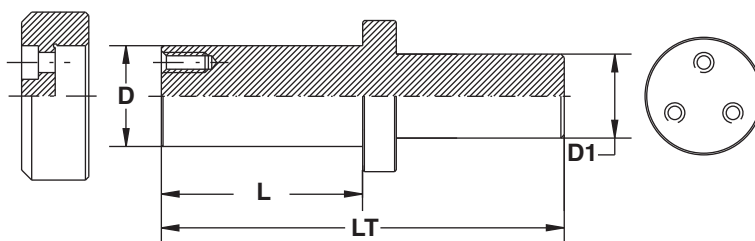
| D1 | D | L | LT | ID nr. DX |
|----|----|----|-----|-----------------|
| 20 | 20 | 50 | 110 | 3513 001 |
| 20 | 30 | 60 | 120 | 3513 002 |
| 25 | 20 | 50 | 115 | 3513 003 |
| 25 | 30 | 60 | 125 | 3513 004 |

Caratteristiche

Per macchine a controllo numerico CNC e non.
 Viene fornito completo di vite di serraggio a testa svasata.

Characteristics

Suitable for CNC machines and not.
 It is supplied with clamping screws.



3514



Mandrino con attacco cilindro porta-lame per pantografo.
Chuck with cylindrical shank for pantograph.
 Mandrin avec attaque cylindrique pour pantograph.
Spannfutter mit zylinder Verbindungsstück für Pantograph.
 Mandril con mango cilindrico portasierras para fresadora.

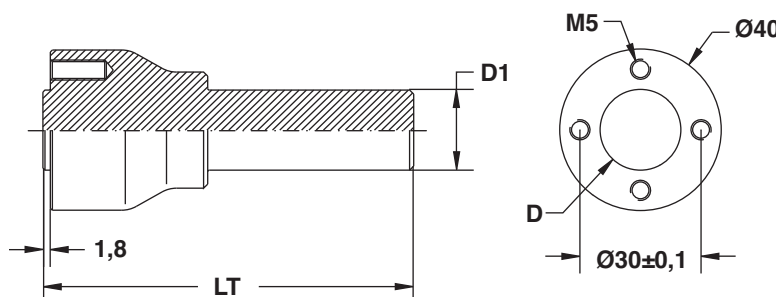
| D1 | D | LT | ID nr. |
|----|----|----|-----------------|
| 20 | 20 | 90 | 3514 001 |

Caratteristiche

Per macchine a controllo numerico CNC e non.
 Viene fornito completo di N°4 vite di serraggio a testa svasata.

Characteristics

Suitable for CNC machines and not.
 It is supplied with N°4 clamping screws.



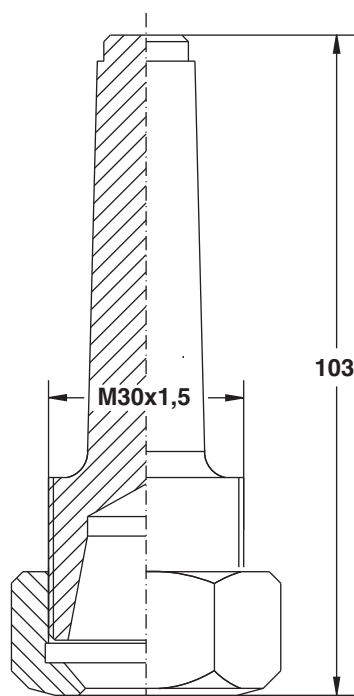
RICAMBI

| D | S | d | Z | ID nr. |
|----------------|---|---|---|--------|
| Vedi cod. 6043 | | | | |

Mandrino centrico porta-pinze con attacco CM2 per pantografo.
Chuck with CM2 shank for pantograph.
 Mandrin avec attaque CM2 pour pantograph.
Spannfutter mit CM2 Verbindungsstück für Pantograph.
 Mandril concéntrico portapinzas con mango CM2 para fresadora.

3515

| Att. | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| CM2 | 3515 001 | 3515 002 |
| | | |



Caratteristiche

Per macchine a controllo numerico CNC e non.
 Il mandrino viene fornito completo di dado stringi-pinza.

Characteristics

Suitable for CNC machines and not.
 The chuck is supplied with nut.

RICAMBI

| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3522 001 | 3518 |
| ID nr. SX | 3522 002 | - |
| | | |

3516



Caratteristiche

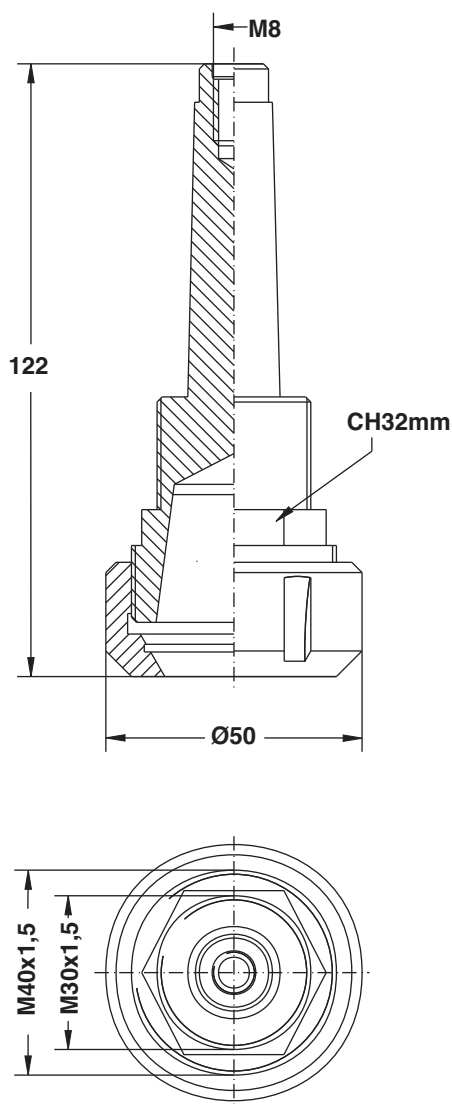
Per macchine a controllo numerico CNC e non.
Il mandrino viene fornito completo di dado stringi-pinza.

Characteristics

Suitable for CNC machines and not.
The chuck is supplied with nut.

Mandrino con attacco CM2 porta-pinze ER32 per pantografo.
Chuck for collects ER32 with CM2 shank for pantograph.
Mandrin avec pinces ER32 attaque CM2 pour pantograph.
Spannfutter mit CM2 Verbindungsstück ER32 für Pantograph.
Mandril portapinzas ER32 con mango CM2 para fresadora.

| Att. | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| CM2 | 3516 001 | 3516 002 |
| | | |



RICAMBI

| | GHIERA | PINZA |
|-----------|-----------------|-------|
| ID nr. DX | 3523 001 | 3519 |
| ID nr. SX | 3523 002 | - |
| | | |

Pinze elastiche di serraggio per mandrino centrico.

Collects for centric chuck.

Pinces élastique pour mandrin concentrique pour defonçeuse.

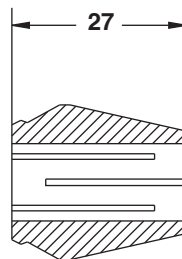
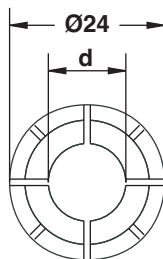
Spannzange.

Pinzas para mandril concéntrico.

3518

| d | ID nr. |
|--------------|-----------------|
| 6 | 3518 001 |
| 6,35 (1/4") | 3518 002 |
| 7,95 (5/16") | 3518 003 |
| 8 | 3518 004 |
| 9,5 (3/8") | 3518 005 |
| 10 | 3518 006 |

| d | ID nr. |
|-------------|-----------------|
| 11 | 3518 007 |
| 12 | 3518 008 |
| 12,7 (1/2") | 3518 009 |
| 13 | 3518 010 |
| 14 | 3518 011 |
| 16 | 3518 012 |



Caratteristiche

Pinza elastica di media precisione di ricambio per ART. 3515.

Characteristics

Rechange collet of middle precision for ART. 3515.

3528



Pinze elastiche di serraggio ER25.

Collects ER25.

Pinces élastique ER25.

Spannzange ER25.

Pinzas ER25.

| d | ID nr. |
|------|-----------------|
| 4-3 | 3528 001 |
| 5-4 | 3528 002 |
| 6-5 | 3528 003 |
| 7-6 | 3528 004 |
| 8-7 | 3528 005 |
| 9-8 | 3528 006 |
| 10-9 | 3528 007 |

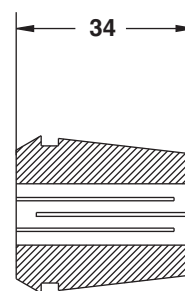
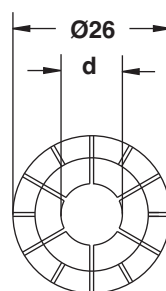
| d | ID nr. |
|-------|-----------------|
| 11-10 | 3528 008 |
| 12-11 | 3528 009 |
| 13-12 | 3528 010 |
| 14-13 | 3528 011 |
| 15-14 | 3528 012 |
| 16-15 | 3528 013 |

Caratteristiche

Pinza elastica di media precisione.

Characteristics

Rechange collet of middle precision.



3519



Pinze elastiche di serraggio ER32.

Collects ER32.

Pinces élastique ER32.

Spannzange ER32.

Pinzas ER32.

| d | ID nr. |
|-------|-----------------|
| 3-2 | 3519 001 |
| 4-3 | 3519 002 |
| 5-4 | 3519 003 |
| 6-5 | 3519 004 |
| 7-6 | 3519 005 |
| 8-7 | 3519 006 |
| 9-8 | 3519 007 |
| 10-9 | 3519 008 |
| 11-10 | 3519 009 |

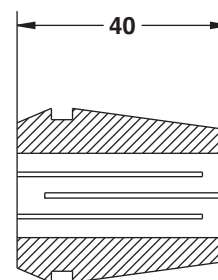
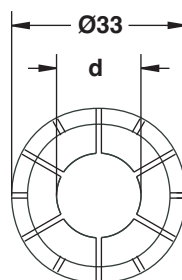
| d | ID nr. |
|-------|-----------------|
| 12-11 | 3519 010 |
| 13-12 | 3519 011 |
| 14-13 | 3519 012 |
| 15-14 | 3519 013 |
| 16-15 | 3519 014 |
| 17-16 | 3519 015 |
| 18-17 | 3519 016 |
| 19-18 | 3519 017 |
| 20-19 | 3519 018 |

Caratteristiche

Pinza ad alta precisione di ricambio per ART. 3501-3503-3509-3512-3516.

Characteristics

Rechange collet of high precision for ART. 3501-3503-3509-3512-3516.



Pinze elastiche di serraggio ER40.

Collects ER40.

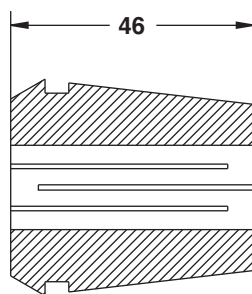
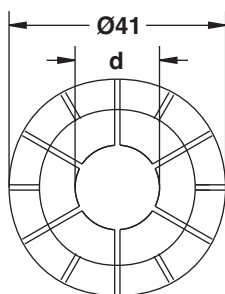
Pinces élastique ER40.

Spannzange ER40.

Pinzas ER40.

| d | ID nr. |
|-------|-----------------|
| 4-3 | 3520 001 |
| 6-5 | 3520 002 |
| 8-7 | 3520 003 |
| 10-9 | 3520 004 |
| 12-11 | 3520 005 |

| d | ID nr. |
|-------|-----------------|
| 14-13 | 3520 006 |
| 16-15 | 3520 007 |
| 18-17 | 3520 008 |
| 20-19 | 3520 009 |
| 25-24 | 3520 010 |



Pinze elastiche di serraggio GRS25.

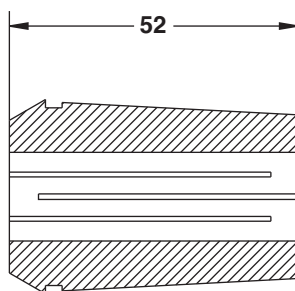
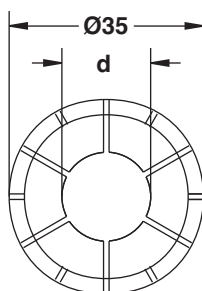
Collects GRS25.

Pinces élastique GRS25.

Spannzange GRS25.

Pinzas GRS25.

| d | ID nr. |
|----|-----------------|
| 25 | 3521 001 |



3520



Caratteristiche

Pinza ad alta precisione di ricambio per ART. 3504-3510.

Characteristics

Rechange collet of high precision for ART. 3504-3510.

3521



Caratteristiche

Pinza ad alta precisione di ricambio per ART. 3504.

Characteristics

Rechange collet of high precision for ART. 3504.

3534



Caratteristiche

Pinza elastica ad alta precisione di ricambio per mandrino ETS.

Characteristics

Rechange collet of high precision for ETS chuck.

Pinze elastiche di serraggio ETS32.

Collects ETS32.

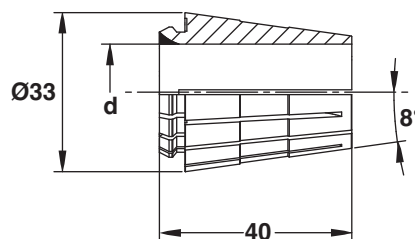
Pinces élastique ETS32.

Spannzange ETS32.

Pinzas ETS32.

| d | ID nr. |
|-------|-----------------|
| 3-2 | 3534 001 |
| 4-3 | 3534 002 |
| 5-4 | 3534 003 |
| 6-5 | 3534 004 |
| 7-6 | 3534 005 |
| 8-7 | 3534 006 |
| 9-8 | 3534 007 |
| 10-9 | 3534 008 |
| 11-10 | 3534 009 |

| d | ID nr. |
|-------|-----------------|
| 12-11 | 3534 010 |
| 13-12 | 3534 011 |
| 14-13 | 3534 012 |
| 15-14 | 3534 013 |
| 16-15 | 3534 014 |
| 17-16 | 3534 015 |
| 18-17 | 3534 016 |
| 19-18 | 3534 017 |
| 20-19 | 3534 018 |



3535



Caratteristiche

Pinza elastica ad alta precisione di ricambio per mandrino ETS.

Characteristics

Rechange collet of high precision for ETS chuck.

Pinze elastiche di serraggio ETS40.

Collects ETS40.

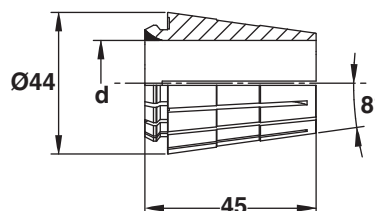
Pinces élastique ETS40.

Spannzange ETS40.

Pinzas ETS40.

| d | ID nr. |
|-------|-----------------|
| 4-3 | 3535 001 |
| 5-4 | 3535 002 |
| 6-5 | 3535 003 |
| 7-6 | 3535 004 |
| 8-7 | 3535 005 |
| 9-8 | 3535 006 |
| 10-9 | 3535 007 |
| 11-10 | 3535 008 |
| 12-11 | 3535 009 |
| 13-12 | 3535 010 |
| 14-13 | 3535 011 |
| 15-14 | 3535 012 |

| d | ID nr. |
|-------|-----------------|
| 16-15 | 3535 013 |
| 17-16 | 3535 014 |
| 18-17 | 3535 015 |
| 19-18 | 3535 016 |
| 20-19 | 3535 017 |
| 21-20 | 3535 018 |
| 22-21 | 3535 019 |
| 23-22 | 3535 020 |
| 24-23 | 3535 021 |
| 25-24 | 3535 022 |
| 26-25 | 3535 023 |



Ghiera per serraggio pinza elastica

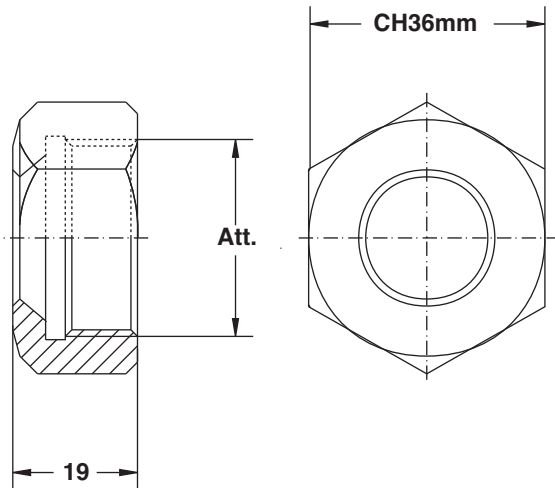
Nuts for collets.

Écrons pour pinces.

Überwurfmutter für Spannzange.

Tuerca para pinzas.

| Att. | ID nr. DX | ID nr. SX |
|---------|-----------------|-----------------|
| M30x1,5 | 3522 001 | 3522 002 |
| | | |



3522



Caratteristiche

Ricambio per ART. 3515-7044.

Characteristics

Spare parts for ART. 3515-7044.

Ghiera per serraggio pinza ER32.

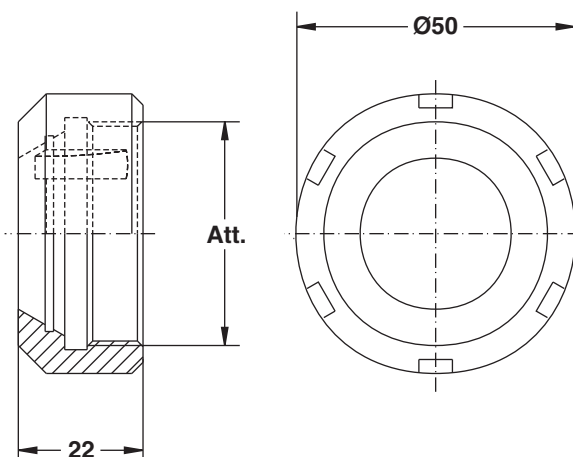
Nuts for collets ER32.

Écrons pour pinces ER32.

Überwurfmutter für Spannzange ER32.

Tuerca para pinzas ER32.

| Att. | ID nr. DX | ID nr. SX |
|---------|-----------------|-----------------|
| M40x1,5 | 3523 001 | 3523 002 |
| | | |



3523



Caratteristiche

Ricambio per
ART. 3501-3503-3509-3512-3516-3529-
3531.

Characteristics

Spare parts for
ART. 3501-3503-3509-3512-3516-3529-
3531.

3536



Caratteristiche

Ricambio per mandrini ETS.

Characteristics

Spare parts for chuck ETS.

3537



Caratteristiche

Ricambio per
ART. 3501-3503-3509-3512-3516-3529-
3531.

Characteristics

Spare parts for
ART. 3501-3503-3509-3512-3516-3529-
3531.

Ghiera per serraggio pinza elastica ETS32.

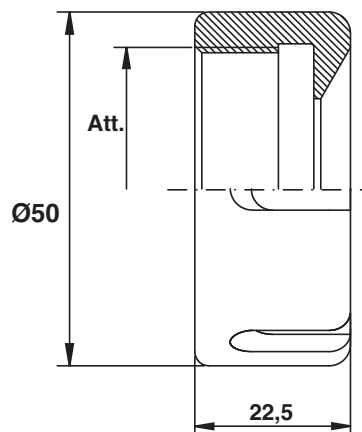
Nuts for collets ETS32.

Écrons pour pinces ETS32.

Überwurfmutter für Spannzange ETS32.

Tuerca para pinzas ETS32.

| Att. | ID nr. DX | ID nr. SX |
|---------|-----------------|-----------------|
| M40x1,5 | 3536 001 | 3536 002 |
| | | |



Ghiera a sfere per serraggio pinza ER32.

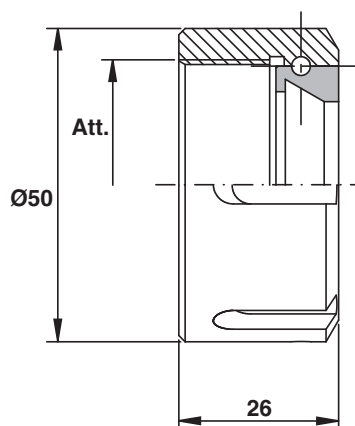
Ballpoints nut for collets ER32.

Écrons à billes pour pinces ER32.

Kugelsüberwurfmutter für Spannzange ER32.

Tuerca con esferas internas para pinzas ER32.

| Att. | ID nr. DX |
|---------|-----------------|
| M40x1,5 | 3537 001 |
| | |



Ghiera per serraggio pinza ER40.

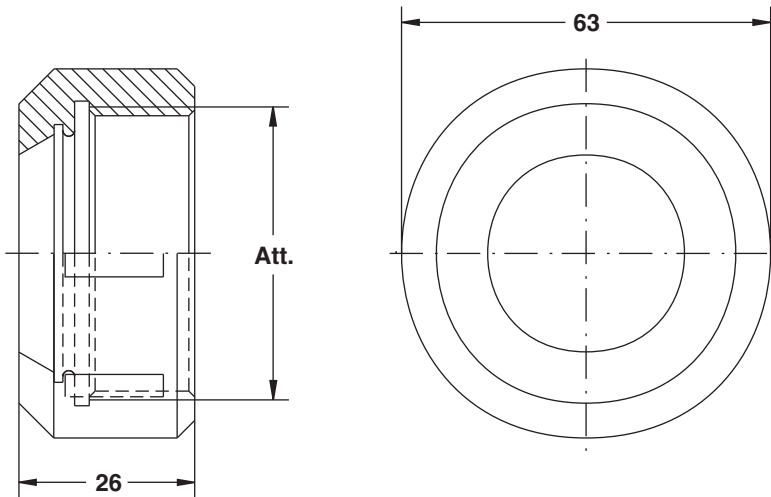
Nuts for collets ER40.

Écrons pour pinces ER40.

Überwurfmutter für Spannzange ER40.

Tuerca para pinzas ER40.

| Att. | ID nr. DX | ID nr. SX |
|---------|-----------|-----------|
| M50x1,5 | 3524001 | 3524002 |
| | | |



3524



Caratteristiche

Ricambio per ART. 3504-3510-3530-3532.

Characteristics

Spare parts for ART. 3504-3510-3530-3532.

Ghiera per serraggio pinza GRS25.

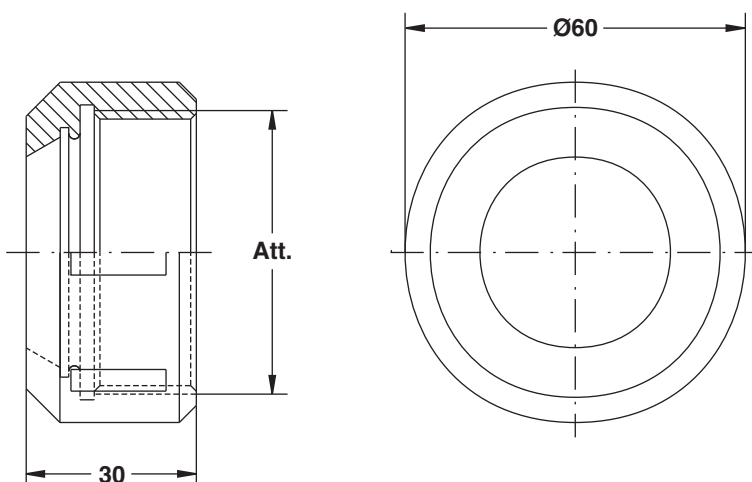
Nuts for collets GRS25.

Écrons pour pinces GRS25.

Überwurfmutter für Spannzange GRS25.

Tuerca para pinzas GRS25.

| Att. | ID nr. DX |
|-------|-----------|
| M48x2 | 3525001 |
| | |



3525



Caratteristiche

Ricambio per ART. 3502.

Characteristics

Spare parts for ART. 3502.

3538



Caratteristiche

Ricambio per mandrini ETS.

Characteristics

Spare parts for chuck ETS.

Ghiera per serraggio pinza elastica ETS40.

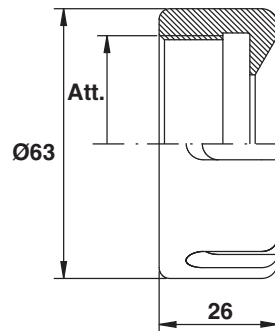
Nuts for collets ETS40.

Écrons pour pinces ETS40.

Überwurfmutter für Spannzange ETS40.

Tuerca para pinzas ETS40.

| Att. | ID nr. DX | ID nr. SX |
|---------|-----------------|-----------------|
| M50x1,5 | 3538 001 | 3538 002 |
| | | |



3539



Caratteristiche

Ricambio per ART. 3504-3510-3530-3532.

Characteristics

Spare parts for ART. 3504-3510-3530-3532.

Ghiera a sfere per serraggio pinza ER40.

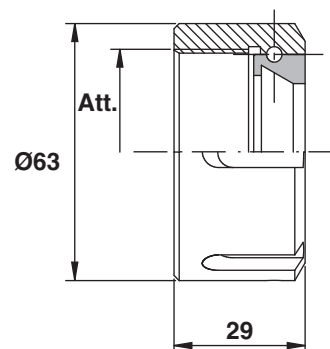
Ballpoints nut for collets ER40.

Écrons à billes pour pinces ER40.

Kugelsüberwurfmutter für Spannzange ER40.

Tuerca con esferas internas para pinzas ER40.

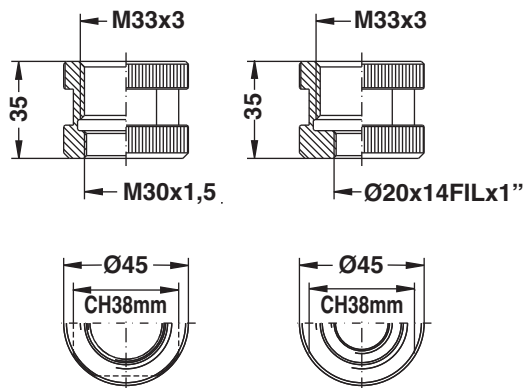
| Att. | ID nr. DX |
|---------|-----------------|
| M50x1,5 | 3539 001 |
| | |



Dadi di fissaggio per pantografo.
Nuts for pantograph.
 Écrous pour mandrin pour défonceuse.
Überwurfmutter für die Oberfräsmaschine.
 Tuercas para fresadoras.

3526

| Aff. MACCHINA | Aff. UTENSILE | ID nr. DX | ID nr. SX |
|---------------|---------------|-----------------|-----------------|
| M33x3 | Ø20x14FILx1" | 3526 001 | 3526 002 |
| M33x3 | M30x1,5 | 3526 003 | 3526 004 |



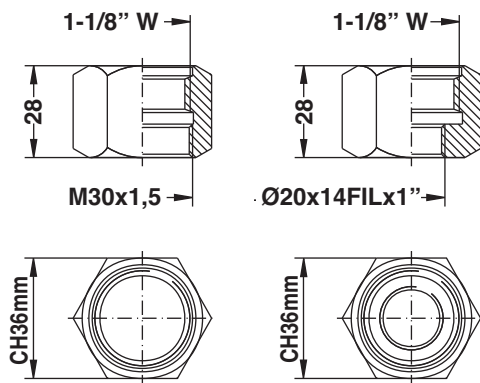
Caratteristiche

Dado di fissaggio utensile su macchina.

Characteristics

Nuts for centric chucks on machine.

| Aff. MACCHINA | Aff. UTENSILE | ID nr. DX | ID nr. SX |
|---------------|---------------|-----------------|-----------------|
| 1-1/8"W | Ø20x14FILx1" | 3526 011 | - |
| 1-1/8"W | M30x1,5 | 3526 013 | 3526 014 |



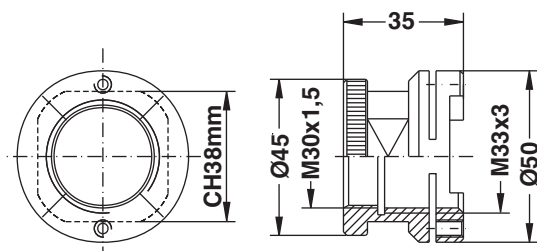
Caratteristiche

Dado di fissaggio utensile su macchina.

Characteristics

Nuts for centric chucks on machine.

| Aff. MACCHINA | Aff. UTENSILE | ID nr. |
|---------------|---------------|-----------------|
| M33x3"DX" | M30x1,5" SX" | 3526 021 |



Caratteristiche

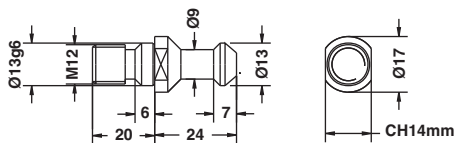
Dado di fissaggio utensile su macchina.

Characteristics

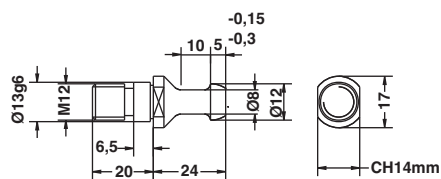
Nuts for centric chucks on machine.

3527

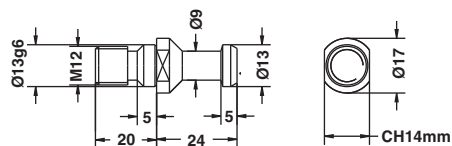
Tiranti per mandrini ISO.
Terminal pin for chuck ISO.
 Tirant pour mandrin ISO.
Spannstange für Spannfutter ISO.
 Tirantes para mandriles ISO.



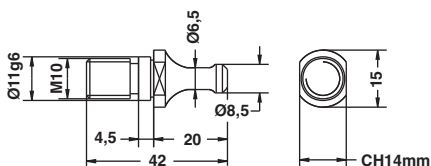
| Att. MACCHINA | TIPO | ID nr. |
|-------------------------------------|------|-----------------|
| Masterwood (motori G.C.) Alberti | A | 3527 001 |



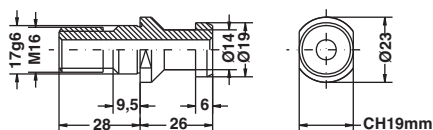
| Att. MACCHINA | TIPO | ID nr. |
|-----------------------------------|------|-----------------|
| Masterwood (motori HSD) Biesse | B | 3527 002 |



| Att. MACCHINA | TIPO | ID nr. |
|--|------|-----------------|
| Busellato - Bulleri IMA - Cosmec - ESSETEAM | C | 3527 003 |



| Att. MACCHINA | TIPO | ID nr. |
|------------------|------|-----------------|
| Morbidelli - SCM | D | 3527 004 |

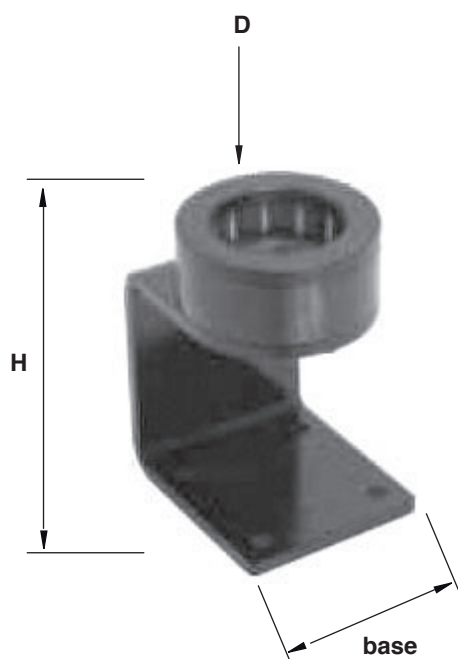


| Att. MACCHINA | TIPO | ID nr. |
|---------------|------|-----------------|
| Bulleri | E | 3527 005 |

Smontaconi a rulli universale.
Clamping device with roller bearing.
Support d'assemblage a rouleaux.
Montage-hilfe mit rollen.
Desarmaconos universal a rodillos.

| D | H | BASE | ID nr. |
|----|-----|------|-----------------|
| 63 | 160 | 100 | 3542 001 |
| | | | |
| | | | |

3542



Caratteristiche

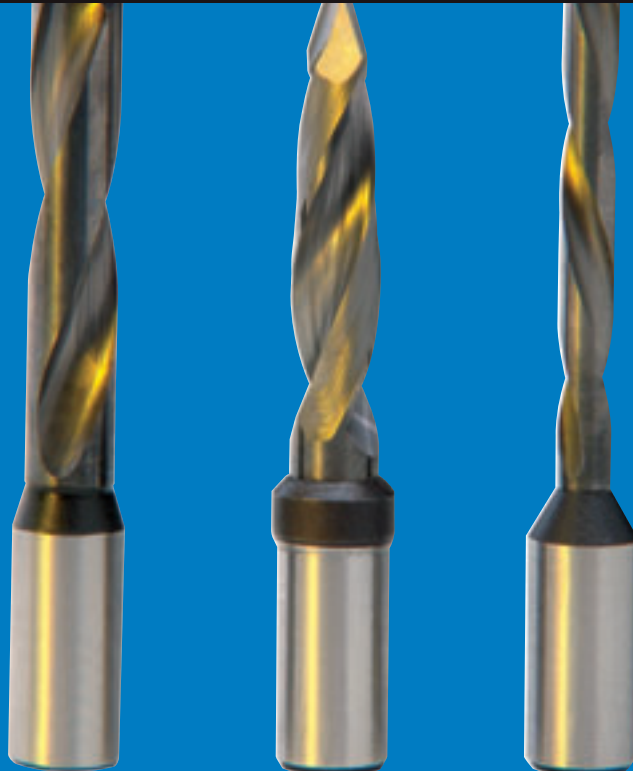
Smontaconi a rulli universale 90 SK40.
Adatto per: BT 40 - HSK 63 - DIN 2080 40
DIN 69871 40.

Characteristics

Clamping device with roller bearing SK40
FL.63.
Suitable for: BT 40 - HSK 63 - DIN 2080 40
DIN 69871 40.

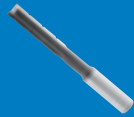


Evolved **Experience**



Punte Drills

Punte Drills



Punte per mortasare
Mortising drills

P 275



Punte foratrici
Boring Drills

P 280



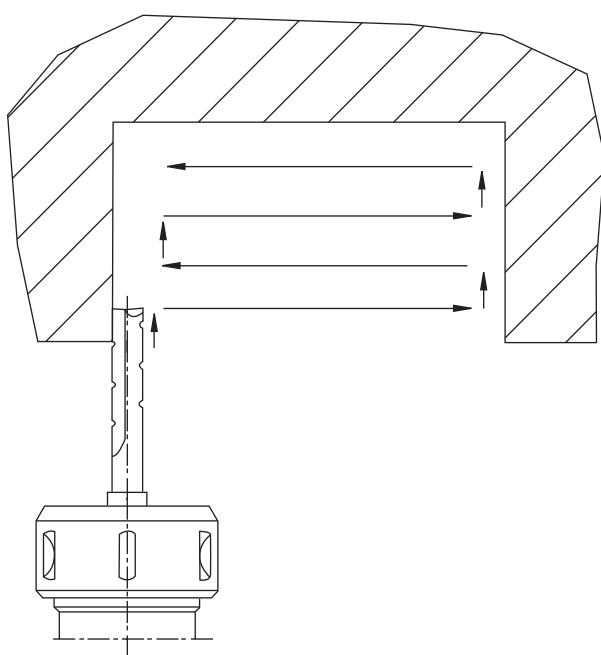
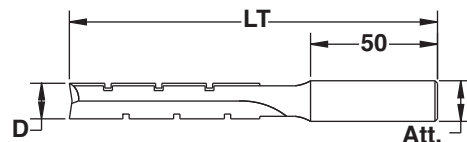
Punte per cavatrici
Drills for T-slotting

P 319

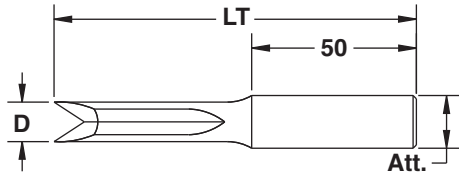
Punte per mortasare a taglienti diritti Z2 in KSS con rompitruciolo.
Mortise tips with straight teeth Z2 in KSS with chipbreaker.
 Mèches à mortaiser à taillants droits Z2 en KSS avec brisecoepau.
Langlochbohrer mit geraden Schneiden Z2 zu KSS mit Spanbrecher.
 Brocas en KSS con cuchillas y rompevirutas para escoplear Z2.

4002

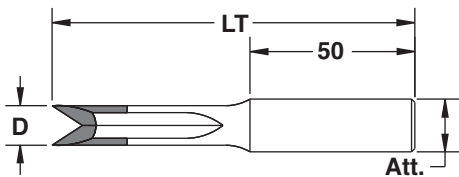
| Att. | D | LT | ID nr. DX | ID nr. SX |
|--------|----|-----|-----------------|-----------------|
| Ø16x50 | 6 | 105 | 4002 001 | 4002 002 |
| Ø16x50 | 7 | 110 | 4002 003 | 4002 004 |
| Ø16x50 | 8 | 115 | 4002 005 | 4002 006 |
| Ø16x50 | 9 | 120 | 4002 007 | 4002 008 |
| Ø16x50 | 10 | 125 | 4002 009 | 4002 010 |
| Ø16x50 | 11 | 130 | 4002 011 | 4002 012 |
| Ø16x50 | 12 | 135 | 4002 013 | 4002 014 |
| Ø16x50 | 13 | 140 | 4002 015 | 4002 016 |
| Ø16x50 | 14 | 145 | 4002 017 | 4002 018 |
| Ø16x50 | 15 | 150 | 4002 019 | 4002 020 |
| Ø16x50 | 16 | 155 | 4002 021 | 4002 022 |
| Ø16x50 | 17 | 160 | 4002 023 | 4002 024 |
| Ø16x50 | 18 | 165 | 4002 025 | 4002 026 |
| Ø16x50 | 19 | 170 | 4002 027 | 4002 028 |
| Ø16x50 | 20 | 175 | 4002 029 | 4002 030 |
| Ø16x50 | 21 | 180 | 4002 031 | 4002 032 |
| Ø16x50 | 22 | 180 | 4002 033 | 4002 034 |
| Ø16x50 | 23 | 180 | 4002 035 | 4002 036 |
| Ø16x50 | 24 | 180 | 4002 037 | 4002 038 |
| Ø16x50 | 25 | 180 | 4002 039 | 4002 040 |



4003



4004



Punte per mortasare a taglienti diritti AMBIDESTRI Z2 in KSS.

Mortise tips with AMBIDEXTER teeth Z2 in KSS.

Mèches à mortaiser à taillants AMBIDEXTER Z2 en KSS.

Pendelschlitzboher Z2 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z2.

| Att. | D | LT | ID nr. |
|--------|----|-----|-----------------|
| Ø16x50 | 6 | 100 | 4003 001 |
| Ø16x50 | 7 | 100 | 4003 002 |
| Ø16x50 | 8 | 100 | 4003 003 |
| Ø16x50 | 9 | 100 | 4003 004 |
| Ø16x50 | 10 | 110 | 4003 005 |
| Ø16x50 | 11 | 110 | 4003 006 |
| Ø16x50 | 12 | 110 | 4003 007 |
| Ø16x50 | 13 | 110 | 4003 008 |
| Ø16x50 | 14 | 110 | 4003 009 |
| Ø16x50 | 15 | 110 | 4003 010 |
| Ø16x50 | 16 | 110 | 4003 011 |
| Ø16x50 | 17 | 110 | 4003 012 |
| Ø16x50 | 18 | 110 | 4003 013 |
| Ø16x50 | 19 | 110 | 4003 014 |
| Ø16x50 | 20 | 110 | 4003 015 |

Punte per mortasare a taglienti diritti AMBIDESTRI Z2 in HM.

Mortise tips with AMBIDEXTER teeth Z2 in HM.

Mèches à mortaiser à taillants AMBIDEXTER Z2 en HM.

Pendelschlitzboher Z2 zu HM.

Brocas en HM con cuchillas BILATERALES para escoplear Z2.

| Att. | D | LT | ID nr. |
|--------|----|-----|-----------------|
| Ø16x50 | 6 | 100 | 4004 001 |
| Ø16x50 | 7 | 100 | 4004 002 |
| Ø16x50 | 8 | 100 | 4004 003 |
| Ø16x50 | 9 | 100 | 4004 004 |
| Ø16x50 | 10 | 110 | 4004 005 |
| Ø16x50 | 11 | 110 | 4004 006 |
| Ø16x50 | 12 | 110 | 4004 007 |
| Ø16x50 | 13 | 110 | 4004 008 |
| Ø16x50 | 14 | 110 | 4004 009 |
| Ø16x50 | 15 | 110 | 4004 010 |
| Ø16x50 | 16 | 110 | 4004 011 |
| Ø16x50 | 17 | 110 | 4004 012 |
| Ø16x50 | 18 | 110 | 4004 013 |
| Ø16x50 | 19 | 110 | 4004 014 |
| Ø16x50 | 20 | 110 | 4004 015 |

Punte per mortasare a taglienti diritti AMBIDESTRI Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z4 in KSS.

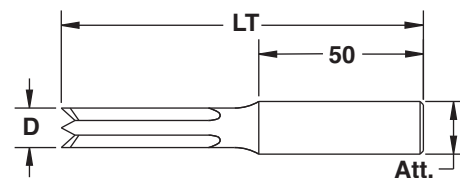
Mèches à mortaiser à taillants AMBIDEXTER Z4 en KSS.

Pendelschlitzboher Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z4.

| Att. | D | LT | ID nr. |
|--------|----|-----|-----------------|
| Ø13x50 | 6 | 100 | 4005 001 |
| Ø13x50 | 7 | 100 | 4005 002 |
| Ø13x50 | 8 | 100 | 4005 003 |
| Ø13x50 | 9 | 100 | 4005 004 |
| Ø13x50 | 10 | 110 | 4005 005 |
| Ø13x50 | 11 | 110 | 4005 006 |
| Ø13x50 | 12 | 110 | 4005 007 |
| Ø13x50 | 13 | 110 | 4005 008 |
| Ø13x50 | 14 | 110 | 4005 009 |
| Ø13x50 | 15 | 110 | 4005 010 |
| Ø13x50 | 16 | 110 | 4005 011 |

4005



Punte per mortasare a taglienti diritti AMBIDESTRI Z2-Z3-Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z2-Z3-Z4 in KSS.

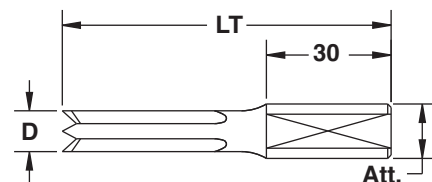
Mèches à mortaiser à taillants AMBIDEXTER Z2-Z3-Z4 en KSS.

Pendelschlitzboher Z2-Z3-Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z2-Z3-Z4.

| Att. | D | Z | LT | ID nr. |
|-----------------|----|---|----|-----------------|
| Ø12x30+pianetto | 6 | 2 | 60 | 4006 001 |
| Ø12x30+pianetto | 7 | 2 | 60 | 4006 002 |
| Ø12x30+pianetto | 8 | 2 | 60 | 4006 003 |
| Ø12x30+pianetto | 9 | 2 | 60 | 4006 004 |
| Ø12x30+pianetto | 10 | 3 | 60 | 4006 005 |
| Ø12x30+pianetto | 11 | 4 | 60 | 4006 006 |
| Ø12x30+pianetto | 12 | 4 | 60 | 4006 007 |
| Ø12x30+pianetto | 13 | 4 | 60 | 4006 008 |
| Ø12x30+pianetto | 14 | 4 | 60 | 4006 009 |
| Ø12x30+pianetto | 15 | 4 | 60 | 4006 010 |
| Ø12x30+pianetto | 16 | 4 | 60 | 4006 011 |

4006



4007

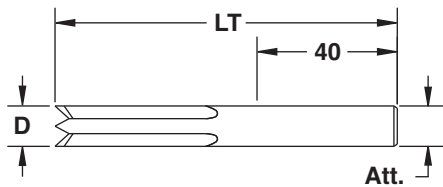
Punte per mortasare a taglienti diritti AMBIDESTRI Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z4 in KSS.

Mèches à mortaiser à taillants AMBIDEXTER Z4 en KSS.

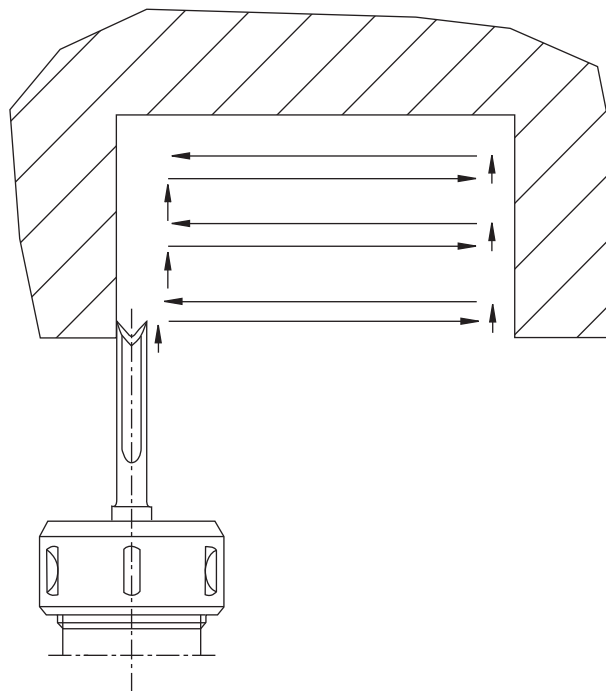
Pendelschlitzboher Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z4.



| Att. | D | LT | ID nr. |
|--------|----|----|-----------------|
| Ø10x40 | 6 | 73 | 4007 001 |
| Ø10x40 | 7 | 73 | 4007 002 |
| Ø10x40 | 8 | 73 | 4007 003 |
| Ø10x40 | 9 | 73 | 4007 004 |
| Ø10x40 | 10 | 73 | 4007 005 |
| Ø10x40 | 11 | 73 | 4007 006 |
| Ø10x40 | 12 | 73 | 4007 007 |
| Ø10x40 | 13 | 73 | 4007 008 |
| Ø10x40 | 14 | 73 | 4007 009 |
| Ø10x40 | 15 | 73 | 4007 010 |
| Ø10x40 | 16 | 73 | 4007 011 |

MAN



Punte per doppi fori in HM.
Double diameter drills in HM.
 Mechas à deux diametres en HM.
Stufenbohrer zu HM.
 Brocas en HM para agujeros dobles.

4011

A

| | |
|-----|--|
| ØS | |
| ØD1 | |
| ØD2 | |
| L1 | |
| L2 | |
| L3 | |
| LT | |

S = 3000

B

| | |
|-----|--|
| ØS | |
| ØD1 | |
| ØD2 | |
| L1 | |
| L2 | |
| L3 | |
| LT | |
| ☞ | |

S = 3000

PREZZO A PREVENTIVO / PRICE TO ESTIMATE

C

| | |
|-----|--|
| ØS | |
| ØD1 | |
| ØD2 | |
| L1 | |
| L2 | |
| L3 | |
| LT | |

S = 3000

D

| | |
|-----|--|
| ØS | |
| ØD1 | |
| ØD2 | |
| L1 | |
| L2 | |
| L3 | |
| LT | |
| ☞ | |

S = 3000

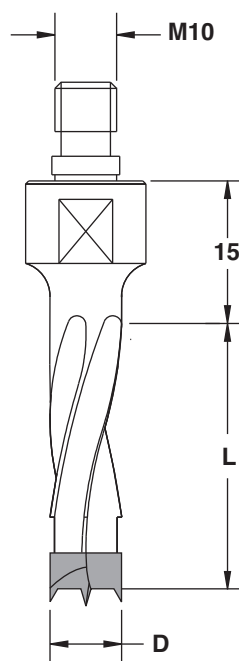
4012

Punte spinatrici senza svasatore in HM.
Dowel drills without countersink in HM.
Mèches sans fraisoir en HM.
Dübelbohrer ohne Senkeransatz zu HM.
Brocas en HM sin avellanador para fresadoras.



| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4012 001 | 4012 002 |
| 6 | 30 | 4012 003 | 4012 004 |
| 8 | 30 | 4012 005 | 4012 006 |
| 10 | 30 | 4012 007 | 4012 008 |
| 12 | 30 | 4012 009 | 4012 010 |
| 14 | 30 | 4012 011 | 4012 012 |
| 5 | 40 | 4012 013 | 4012 014 |
| 6 | 40 | 4012 015 | 4012 016 |
| 8 | 40 | 4012 017 | 4012 018 |
| 10 | 40 | 4012 019 | 4012 020 |
| 12 | 40 | 4012 021 | 4012 022 |
| 14 | 40 | 4012 023 | 4012 024 |
| 5 | 50 | 4012 025 | 4012 026 |
| 6 | 50 | 4012 027 | 4012 028 |
| 8 | 50 | 4012 029 | 4012 030 |
| 10 | 50 | 4012 031 | 4012 032 |
| 12 | 50 | 4012 033 | 4012 034 |
| 14 | 50 | 4012 035 | 4012 036 |

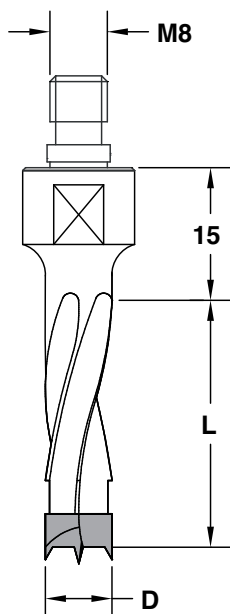
Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



Punte spinatrici senza svasatore in HM.
Dowel drill without countersink in HM.
 Mèches sans fraiseur en HM.
Dübelbohrer ohne Senkeransatz zu HM.
 Brocas en HM sin avellanador para fresadoras.

| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4066 001 | 4066 002 |
| 6 | 30 | 4066 003 | 4066 004 |
| 8 | 30 | 4066 005 | 4066 006 |
| 10 | 30 | 4066 007 | 4066 008 |
| 12 | 30 | 4066 009 | 4066 010 |
| 5 | 40 | 4066 011 | 4066 012 |
| 6 | 40 | 4066 013 | 4066 014 |
| 8 | 40 | 4066 015 | 4066 016 |
| 10 | 40 | 4066 017 | 4066 018 |
| 12 | 40 | 4066 019 | 4066 020 |

Attacco per macchine: Morbidelli, Nottmeyer, Masterwood
 Shank for machines: Morbidelli, Nottmeyer, Masterwood



4066



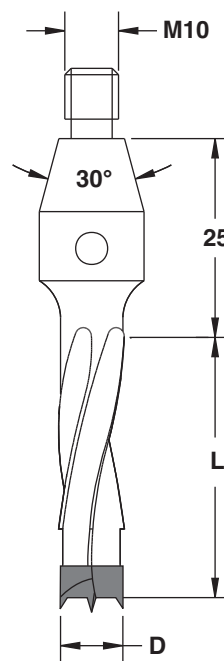
4013



Punte spinatrici senza svasatore in HM.
Dowel drills without countersink in HM.
 Mèches sans fraisoir en HM.
Dübelbohrer ohne Senkeransatz zu HM.
 Brocas en HM sin avellanador para fresadoras.

| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4013 001 | 4013 002 |
| 6 | 30 | 4013 003 | 4013 004 |
| 8 | 30 | 4013 005 | 4013 006 |
| 10 | 30 | 4013 007 | 4013 008 |
| 12 | 30 | 4013 009 | 4013 010 |
| 14 | 30 | 4013 011 | 4013 012 |
| | | | |
| 5 | 40 | 4013 013 | 4013 014 |
| 6 | 40 | 4013 015 | 4013 016 |
| 8 | 40 | 4013 017 | 4013 018 |
| 10 | 40 | 4013 019 | 4013 020 |
| 12 | 40 | 4013 021 | 4013 022 |
| 14 | 40 | 4013 023 | 4013 024 |
| | | | |
| 5 | 50 | 4013 025 | 4013 026 |
| 6 | 50 | 4013 027 | 4013 028 |
| 8 | 50 | 4013 029 | 4013 030 |
| 10 | 50 | 4013 031 | 4013 032 |
| 12 | 50 | 4013 033 | 4013 034 |
| 14 | 50 | 4013 035 | 4013 036 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
 Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Punte spinatrici senza svasatore per esecuzione di fori passanti in HM.

Spiral dowel drills for through bores without countersink in HM.

Mèches pour trous transversants sans fraisoir en HM.

Lochre ihenbohrer zum Einsatz für Durchgangsbohrung ohne Senkeransatz HM.

Brocas en HM para fresadoras sin avellanador para la realización de agujeros pasantes.

4014

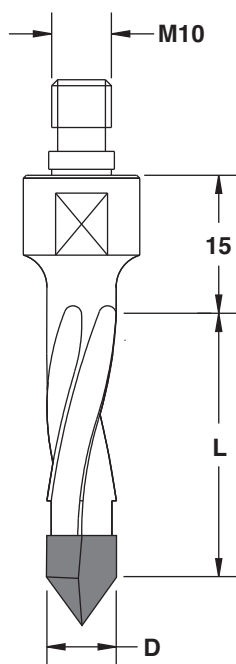


| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4014 001 | 4014 002 |
| 6 | 30 | 4014 003 | 4014 004 |
| 7 | 30 | 4014 005 | 4014 006 |
| 8 | 30 | 4014 007 | 4014 008 |
| 9 | 30 | 4014 009 | 4014 010 |
| 10 | 30 | 4014 011 | 4014 012 |
| 11 | 30 | 4014 013 | 4014 014 |
| 12 | 30 | 4014 015 | 4014 016 |
| | | | |
| 5 | 40 | 4014 017 | 4014 018 |
| 6 | 40 | 4014 019 | 4014 020 |
| 7 | 40 | 4014 021 | 4014 022 |
| 8 | 40 | 4014 023 | 4014 024 |
| 9 | 40 | 4014 025 | 4014 026 |
| 10 | 40 | 4014 027 | 4014 028 |
| 11 | 40 | 4014 029 | 4014 030 |
| 12 | 40 | 4014 031 | 4014 032 |
| | | | |
| 5 | 50 | 4014 033 | 4014 034 |
| 6 | 50 | 4014 035 | 4014 036 |
| 7 | 50 | 4014 037 | 4014 038 |
| 8 | 50 | 4014 039 | 4014 040 |
| 9 | 50 | 4014 041 | 4014 042 |
| 10 | 50 | 4014 043 | 4014 044 |
| 11 | 50 | 4014 045 | 4014 046 |
| 12 | 50 | 4014 047 | 4014 048 |



Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)

Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



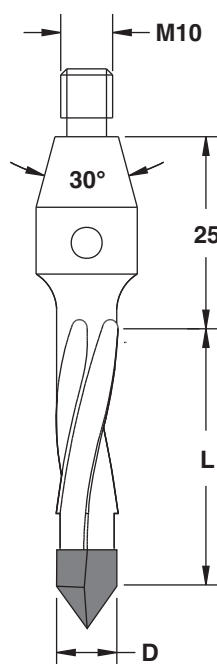
4015



Punte spinatrici senza svasatore per foratrice multipla per fori passanti in HM.
Spiral dowel drills for through bores without countersink in HM.
Mèches pour trous transversants sans fraiseur en HM.
Lochre zum Einsatz für Durchgangsbohrung ohne Senk zu HM.
Brocas en HM para fresadoras sin avellanador para la realización de agujeros pasantes.

| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4015 001 | 4015 002 |
| 6 | 30 | 4015 003 | 4015 004 |
| 7 | 30 | 4015 005 | 4015 006 |
| 8 | 30 | 4015 007 | 4015 008 |
| 9 | 30 | 4015 009 | 4015 010 |
| 10 | 30 | 4015 011 | 4015 012 |
| 11 | 30 | 4015 013 | 4015 014 |
| 12 | 30 | 4015 015 | 4015 016 |
| 5 | 40 | 4015 017 | 4015 018 |
| 6 | 40 | 4015 019 | 4015 020 |
| 7 | 40 | 4015 021 | 4015 022 |
| 8 | 40 | 4015 023 | 4015 024 |
| 9 | 40 | 4015 025 | 4015 026 |
| 10 | 40 | 4015 027 | 4015 028 |
| 11 | 40 | 4015 029 | 4015 030 |
| 12 | 40 | 4015 031 | 4015 032 |
| 5 | 50 | 4015 033 | 4015 034 |
| 6 | 50 | 4015 035 | 4015 036 |
| 7 | 50 | 4015 037 | 4015 038 |
| 8 | 50 | 4015 039 | 4015 040 |
| 9 | 50 | 4015 041 | 4015 042 |
| 10 | 50 | 4015 043 | 4015 044 |
| 11 | 50 | 4015 045 | 4015 046 |
| 12 | 50 | 4015 047 | 4015 048 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Punte spinatrici con svasatore in HM.

Dowel drills with countersink in HM.

Mèches avec fraiseur en HM.

Dübelbohrer mit Senkeransatz zu HM.

Brocas en HM con avellanador para fresadoras.

4016

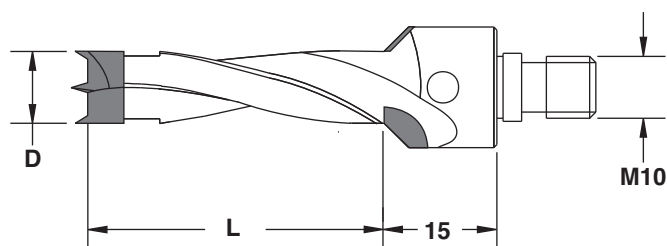
| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4016 001 | 4016 002 |
| 6 | 30 | 4016 003 | 4016 004 |
| 7 | 30 | 4016 005 | 4016 006 |
| 8 | 30 | 4016 007 | 4016 008 |
| 9 | 30 | 4016 009 | 4016 010 |
| 10 | 30 | 4016 011 | 4016 012 |
| 11 | 30 | 4016 013 | 4016 014 |
| 12 | 30 | 4016 015 | 4016 016 |
| 13 | 30 | 4016 017 | 4016 018 |
| 14 | 30 | 4016 019 | 4016 020 |
| 15 | 30 | 4016 021 | 4016 022 |
| 16 | 30 | 4016 023 | 4016 024 |

| | | | |
|----|----|-----------------|-----------------|
| 5 | 40 | 4016 025 | 4016 026 |
| 6 | 40 | 4016 027 | 4016 028 |
| 7 | 40 | 4016 029 | 4016 030 |
| 8 | 40 | 4016 031 | 4016 032 |
| 9 | 40 | 4016 033 | 4016 034 |
| 10 | 40 | 4016 035 | 4016 036 |
| 11 | 40 | 4016 037 | 4016 038 |
| 12 | 40 | 4016 039 | 4016 040 |
| 13 | 40 | 4016 041 | 4016 042 |
| 14 | 40 | 4016 043 | 4016 044 |
| 15 | 40 | 4016 045 | 4016 046 |
| 16 | 40 | 4016 047 | 4016 048 |

| | | | |
|----|----|-----------------|-----------------|
| 5 | 50 | 4016 049 | 4016 050 |
| 6 | 50 | 4016 051 | 4016 052 |
| 7 | 50 | 4016 053 | 4016 054 |
| 8 | 50 | 4016 055 | 4016 056 |
| 9 | 50 | 4016 057 | 4016 058 |
| 10 | 50 | 4016 059 | 4016 060 |
| 11 | 50 | 4016 061 | 4016 062 |
| 12 | 50 | 4016 063 | 4016 064 |
| 13 | 50 | 4016 065 | 4016 066 |
| 14 | 50 | 4016 067 | 4016 068 |
| 15 | 50 | 4016 069 | 4016 070 |
| 16 | 50 | 4016 071 | 4016 072 |

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)

Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



MAN



4017

Punte spinatrici con svasatore in HM.
Dowel drills with countersink in HM.
Mèches avec fraiseur en HM.
Dübelbohrer mit Senkeransatz zu HM.
Brocas en HM con avellanador para fresadoras.

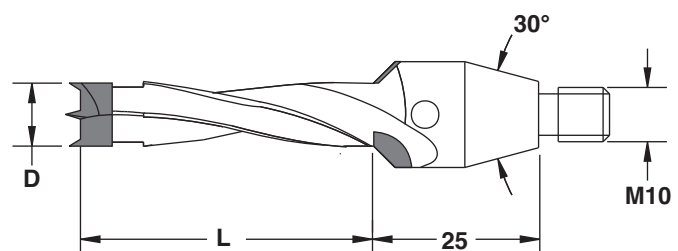


| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4017 001 | 4017 002 |
| 6 | 30 | 4017 003 | 4017 004 |
| 7 | 30 | 4017 005 | 4017 006 |
| 8 | 30 | 4017 007 | 4017 008 |
| 9 | 30 | 4017 009 | 4017 010 |
| 10 | 30 | 4017 011 | 4017 012 |
| 11 | 30 | 4017 013 | 4017 014 |
| 12 | 30 | 4017 015 | 4017 016 |
| 13 | 30 | 4017 017 | 4017 018 |
| 14 | 30 | 4017 019 | 4017 020 |
| 15 | 30 | 4017 021 | 4017 022 |
| 16 | 30 | 4017 023 | 4017 024 |

| | | | |
|----|----|-----------------|-----------------|
| 5 | 40 | 4017 025 | 4017 026 |
| 6 | 40 | 4017 027 | 4017 028 |
| 7 | 40 | 4017 029 | 4017 030 |
| 8 | 40 | 4017 031 | 4017 032 |
| 9 | 40 | 4017 033 | 4017 034 |
| 10 | 40 | 4017 035 | 4017 036 |
| 11 | 40 | 4017 037 | 4017 038 |
| 12 | 40 | 4017 039 | 4017 040 |
| 13 | 40 | 4017 041 | 4017 042 |
| 14 | 40 | 4017 043 | 4017 044 |
| 15 | 40 | 4017 045 | 4017 046 |
| 16 | 40 | 4017 047 | 4017 048 |

| | | | |
|----|----|-----------------|-----------------|
| 5 | 50 | 4017 049 | 4017 050 |
| 6 | 50 | 4017 051 | 4017 052 |
| 7 | 50 | 4017 053 | 4017 054 |
| 8 | 50 | 4017 055 | 4017 056 |
| 9 | 50 | 4017 057 | 4017 058 |
| 10 | 50 | 4017 059 | 4017 060 |
| 11 | 50 | 4017 061 | 4017 062 |
| 12 | 50 | 4017 063 | 4017 064 |
| 13 | 50 | 4017 065 | 4017 066 |
| 14 | 50 | 4017 067 | 4017 068 |
| 15 | 50 | 4017 069 | 4017 070 |
| 16 | 50 | 4017 071 | 4017 072 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Punte spinatrici con svasatore per esecuzione di fori passanti in HM.

Spiral dowel drills for through bores with countersink in HM.

Mèches pour trous transversants avec fraiseur en HM.

Lochre ihenbohrer zum Einsatz für Durchgangsbohrung mit Senkeransatz HM.

Brocas en HM para fresadoras con avellanador para la realización de agujeros pasantes.

4018

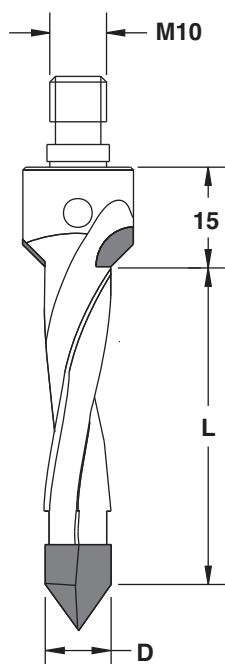


| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4018 001 | 4018 002 |
| 6 | 30 | 4018 003 | 4018 004 |
| 7 | 30 | 4018 005 | 4018 006 |
| 8 | 30 | 4018 007 | 4018 008 |
| 9 | 30 | 4018 009 | 4018 010 |
| 10 | 30 | 4018 011 | 4018 012 |
| 11 | 30 | 4018 013 | 4018 014 |
| 12 | 30 | 4018 015 | 4018 016 |
| | | | |
| 5 | 40 | 4018 017 | 4018 018 |
| 6 | 40 | 4018 019 | 4018 020 |
| 7 | 40 | 4018 021 | 4018 022 |
| 8 | 40 | 4018 023 | 4018 024 |
| 9 | 40 | 4018 025 | 4018 026 |
| 10 | 40 | 4018 027 | 4018 028 |
| 11 | 40 | 4018 029 | 4018 030 |
| 12 | 40 | 4018 031 | 4018 032 |
| | | | |
| 5 | 50 | 4018 033 | 4018 034 |
| 6 | 50 | 4018 035 | 4018 036 |
| 7 | 50 | 4018 037 | 4018 038 |
| 8 | 50 | 4018 039 | 4018 040 |
| 9 | 50 | 4018 041 | 4018 042 |
| 10 | 50 | 4018 043 | 4018 044 |
| 11 | 50 | 4018 045 | 4018 046 |
| 12 | 50 | 4018 047 | 4018 048 |



Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)

Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



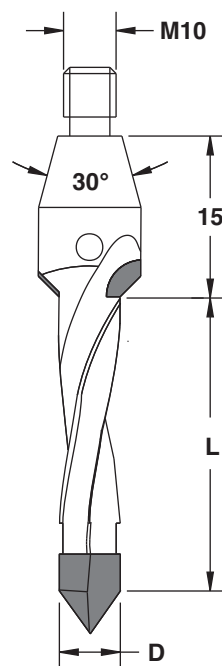
4019



Punte spinatrici con svasatore per esecuzione di fori passanti in HM.
Spiral dowel drills for through bores with countersink in HM.
 Mèches pour trous transversants avec fraiseur en HM.
Lochre ihenbohrer zum Einsatz für Durchgangsbohrung mit Senkeransatz HM.
 Brocas en HM para fresadoras con avellanador para la realización de agujeros pasantes.

| D | L | ID nr. DX | ID nr. SX |
|----|----|-----------------|-----------------|
| 5 | 30 | 4019 001 | 4019 002 |
| 6 | 30 | 4019 003 | 4019 004 |
| 7 | 30 | 4019 005 | 4019 006 |
| 8 | 30 | 4019 007 | 4019 008 |
| 9 | 30 | 4019 009 | 4019 010 |
| 10 | 30 | 4019 011 | 4019 012 |
| 11 | 30 | 4019 013 | 4019 014 |
| 12 | 30 | 4019 015 | 4019 016 |
| | | | |
| 5 | 40 | 4019 017 | 4019 018 |
| 6 | 40 | 4019 019 | 4019 020 |
| 7 | 40 | 4019 021 | 4019 022 |
| 8 | 40 | 4019 023 | 4019 024 |
| 9 | 40 | 4019 025 | 4019 026 |
| 10 | 40 | 4019 027 | 4019 028 |
| 11 | 40 | 4019 029 | 4019 030 |
| 12 | 40 | 4019 031 | 4019 032 |
| | | | |
| 5 | 50 | 4019 033 | 4019 034 |
| 6 | 50 | 4019 035 | 4019 036 |
| 7 | 50 | 4019 037 | 4019 038 |
| 8 | 50 | 4019 039 | 4019 040 |
| 9 | 50 | 4019 041 | 4019 042 |
| 10 | 50 | 4019 043 | 4019 044 |
| 11 | 50 | 4019 045 | 4019 046 |
| 12 | 50 | 4019 047 | 4019 048 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
 Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)

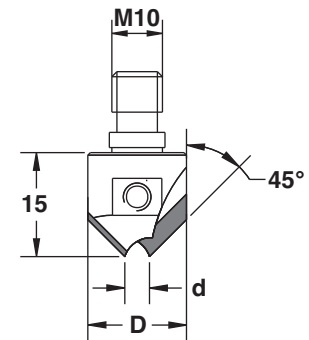


Svasatore porta-punta Z2 in HM.
Countersink cutterhead Z2 in HM.
 Fraisoir porte-mèche Z2 en HM.
Senker oder Bohreranfahmen Z2 zu HM.
 Avellanador portabrocas en HM Z2.

| d | D | ID nr. DX | ID nr. SX |
|-----|----|-----------------|-----------------|
| 3 | 16 | 4020 001 | 4020 002 |
| 3,5 | 16 | 4020 003 | 4020 004 |
| 4 | 16 | 4020 005 | 4020 006 |
| 4,5 | 16 | 4020 007 | 4020 008 |
| 5 | 16 | 4020 009 | 4020 010 |
| 5,5 | 16 | 4020 011 | 4020 012 |

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
 Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)

4020

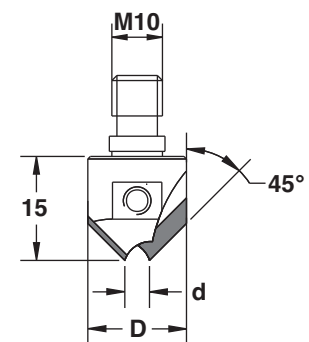


4021

Svasatore porta-punta Z2 in HM.
Countersink cutterhead Z2 in HM.
 Fraisoir porte-mèche Z2 en HM.
Senker oder Bohreranfahmen Z2 zu HM.
 Avellanador portabrocas en HM Z2.

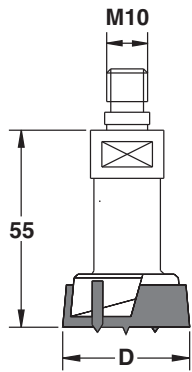
| d | D | ID nr. DX | ID nr. SX |
|-----|----|-----------------|-----------------|
| 3 | 16 | 4021 001 | 4021 002 |
| 3,5 | 16 | 4021 003 | 4021 004 |
| 4 | 16 | 4021 005 | 4021 006 |
| 4,5 | 16 | 4021 007 | 4021 008 |
| 5 | 16 | 4021 009 | 4021 010 |
| 5,5 | 16 | 4021 011 | 4021 012 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
 Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)

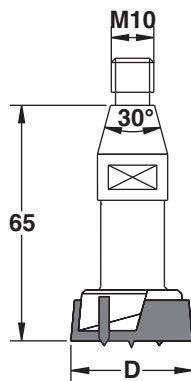


4021

4022



4023



Punte levanoi per macchine foratrici Z2+2 in HM.
Knot correcting tips for boring machines Z2+2 in HM.
Mèches à noeud pour perceuse multiple Z2+2 en HM.
Kunstbohrer für Bohrmaschinen Z2+2 zu HM.
Brocas bisagras en HM para máquinas perforadoras Z2+2.

| D | ID nr. DX | ID nr. SX |
|----|-----------------|-----------------|
| 20 | 4022 001 | 4022 002 |
| 25 | 4022 003 | 4022 004 |
| 26 | 4022 005 | 4022 006 |
| 30 | 4022 007 | 4022 008 |
| 35 | 4022 009 | 4022 010 |
| 40 | 4022 011 | 4022 012 |

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)

Punte levanoi per macchine foratrici Z2+2 in HM.
Knot correcting tips for boring machines Z2+2 in HM.
Mèches à noeud pour perceuse multiple Z2+2 en HM.
Kunstbohrer für Bohrmaschinen Z2+2 z u HM.
Brocas bisagras en HM para máquinas perforadoras Z2+2.

| D | ID nr. DX | ID nr. SX |
|----|-----------------|-----------------|
| 20 | 4023 001 | 4023 002 |
| 25 | 4023 003 | 4023 004 |
| 26 | 4023 005 | 4023 006 |
| 30 | 4023 007 | 4023 008 |
| 35 | 4023 009 | 4023 010 |
| 40 | 4023 011 | 4023 012 |

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)

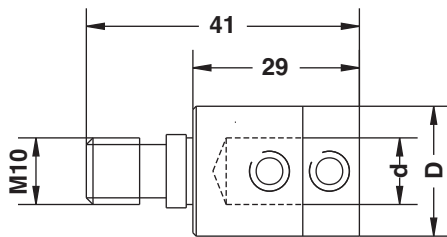
Mandri per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

4024



| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4024 001 | 4024 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Masterwood, Vitap (nuova esecuzione)
Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Masterwood, Vitap (new execution)



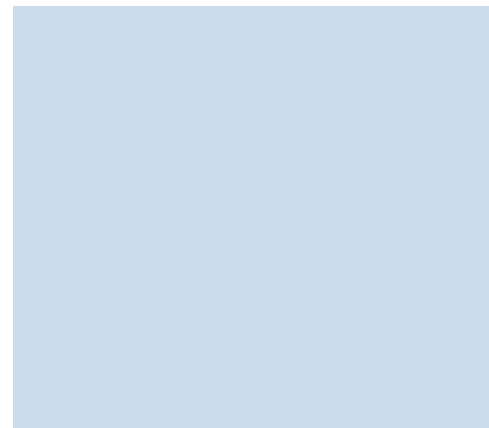
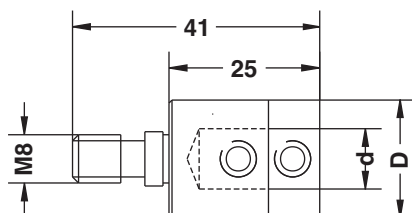
Mandri per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

4025



| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4025 001 | 4025 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

Attacco per macchine: Morbidelli, Masterwood, Nottmeyer (nuova esecuzione)
Shank for machines: Morbidelli, Masterwood, Nottmeyer (new execution)



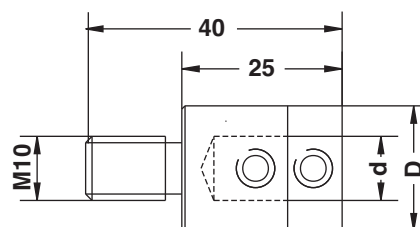
4026



Mandrini per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4026 001 | 4026 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

Attacco per macchine: Ayen, Torwegge, Holzma, Mayer, Knoevenagel
Shank for machines: Ayen, Torwegge, Holzma, Mayer, Knoevenagel



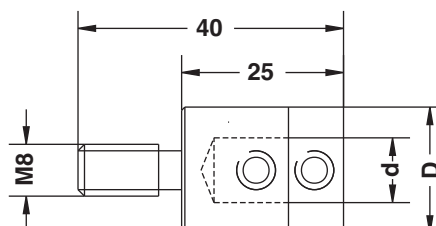
4027



Mandrini per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4027 001 | 4027 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

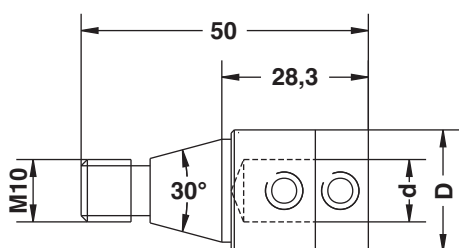
Attacco per macchine: Nottmeyer (precedente esecuzione)
Shank for machines: Nottmeyer (old execution)



Mandri per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4028 001 | 4028 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

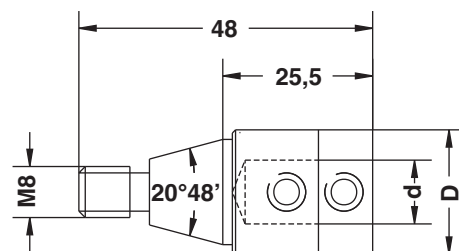
Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Mandri per punte componibili.
Reducing chucks for dowel drills.
Mandrins pour meches à tourillons.
Reduzierfutter für Kombi-Dübelbohrere.
Mandriles para brocas componibles.

| d | D | ID nr. DX | ID nr. SX |
|------------------------|------|-----------------|-----------------|
| 10 | 19,5 | 4029 001 | 4029 002 |
| Vite di fissaggio M6x6 | - | 9546 024 | |
| Chiave esagonale 3mm | - | 9548 003 | |

Attacco per macchine: Bilek, Balestrini
Shank for machines: Bilek, Balestrini



4028



4029



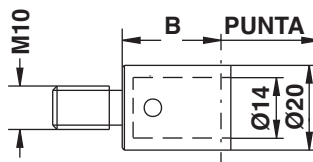
4057

Adattatori "ATTACCO RAPIDO" per macchine con ATTACCO A VITE.
 Adapter "QUICK SHANK" for machines with SHANK ON SCREW.
 Adapteur "ATTAQUE RAPIDE" pour machines avec ATTAQUE À VIS.
 Anpassungsgerät "SCHNELL VERBINDUNG" für Maschine mit VERBINDUNG SCHRAUBE.
 Ajuste "MANGO RÁPIDO" para máquinas con MANGO A TORNILLO.



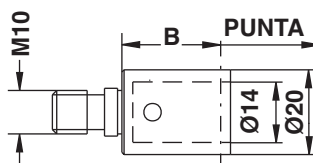
Per machine/For machines: AYEN, HOLZMA

| B | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| 22,5 | 4057 001 | 4057 002 |



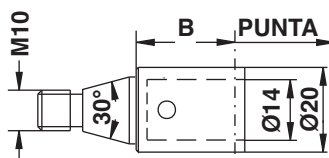
Per machine/For machines: MORBIDELLI, BIESSE, WEEKE, BUSELLATO, TORWEGGE

| B | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| 22,5 | 4057 003 | 4057 004 |



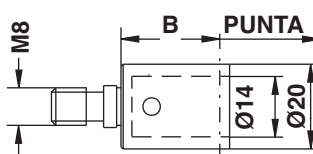
Per machine/For machines: VITAP, ALBERTI

| B | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| 22,5 | 4057 005 | 4057 006 |



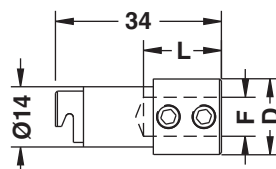
Per machine/For machines: NOTTEMAYER

| B | ID nr. DX | ID nr. SX |
|------|-----------------|-----------------|
| 22,5 | 4057 007 | 4057 008 |



PORTA PUNTA/CARRYING DRILL

| F | D | L | ID nr. |
|----|----|------|-----------------|
| 10 | 18 | 17,5 | 4057 011 |

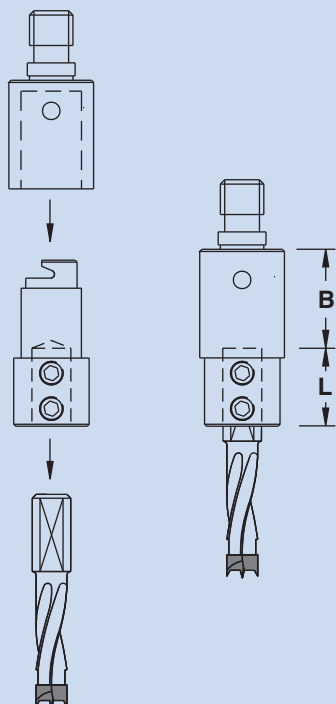


Caratteristiche

Set di adattatori "ATTACCO RAPIDO" da applicare su macchine tradizionali, sostituendo il tradizionale mandrino portapunta con l'adattatore non si avranno più lunghi tempi morti dovuti alla sostituzione delle punte. Si otterrà un notevole aumento della produttività.

Characteristics

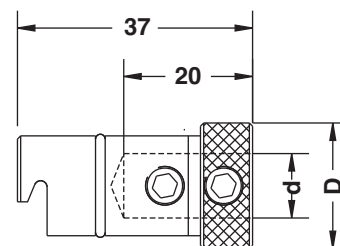
Set of adapters "QUICK SHANK" to set on traditional machines, in changing the standard reducing chucks into the adapter, the long times for the change of drills, will disappear. This will increase considerably the productivity.



Mandrini per punte componibili per "ATTACCO RAPIDO" BIESSE.
Reducing chucks for dowel drills with BIESSE "QUICK SHANK".
 Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" BIESSE.
Reduzierfutter für Kombi-Dübelbohrere mit BIESSE "VERBINDUNGSSTÜCK".
 Mandril para brocas componibles con "MANGO RÁPIDO" tipo BIESSE.

4030

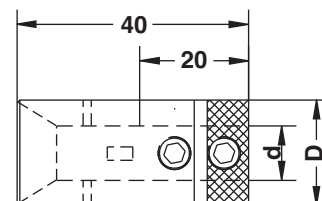
| d | D | ID nr. |
|------------------------|----|-----------------|
| 10 | 20 | 4030 001 |
| Vite di fissaggio M6x6 | - | 9546 024 |
| Chiave esagonale 3mm | - | 9548 003 |



Mandrini per punte componibili per "ATTACCO RAPIDO" MASTERWOOD, MAGGI, GRIGGIO.
Reducing chucks for dowel drills with MASTERWOOD, MAGGI, GRIGGIO "QUICK SHANK".
 Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" MASTERWOOD, MAGGI, GRIGGIO.
Reduzierfutter für Kombi-Dübelbohrere mit MASTERWOOD, MAGGI, GRIGGIO "VERBINDUNGSSTÜCK".
 Mandril para brocas componibles con "MANGO RÁPIDO" tipo MASTERWOOD, MAGGI, GRIGGIO.

4058

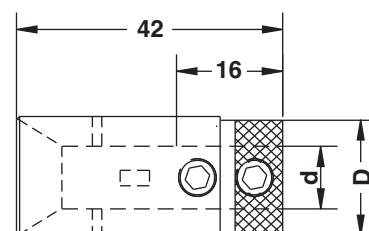
| d | D | ID nr. |
|------------------------|----|-----------------|
| 10 | 20 | 4058 001 |
| Vite di fissaggio M6x6 | - | 9546 024 |
| Chiave esagonale 3mm | - | 9548 003 |



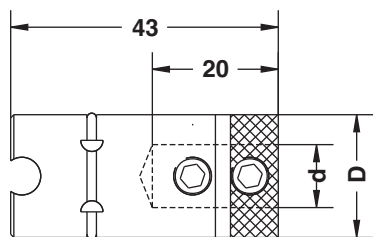
Mandrini per punte componibili per "ATTACCO RAPIDO" VITAP.
Reducing chucks for dowel drills with VITAP "QUICK SHANK".
 Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" VITAP.
Reduzierfutter für Kombi-Dübelbohrere mit VITAP "VERBINDUNGSSTÜCK".
 Mandril para brocas componibles con "MANGO RÁPIDO" tipo VITAP.

4062

| d | D | ID nr. |
|------------------------|----|-----------------|
| 10 | 18 | 4062 001 |
| Vite di fissaggio M6x6 | - | 9546 024 |
| Chiave esagonale 3mm | - | 9548 003 |



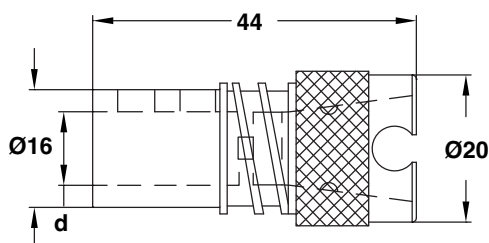
4031



Mandrini per punte componibili per "ATTACCO RAPIDO" MORBIDELLI.
Reducing chucks for dowel drills with MORBIDELLI "QUICK SHANK".
Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" MORBIDELLI.
Reduzierfutter für Kombi-Dübelbohrere mit MORBIDELLI "VERBINDUNGSSTÜCK".
Mandril para brocas componibles con "MANGO RÁPIDO" tipo MORBIDELLI.

| d | D | ID nr. |
|------------------------|----|-----------------|
| 10 | 20 | 4031 001 |
| Vite di fissaggio M6x6 | - | 9546 024 |
| Chiave esagonale 3mm | - | 9548 003 |

4067

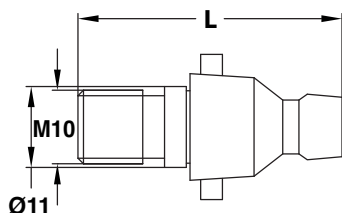


Mandrini porta-punte per cambio rapido per macchine MORBIDELLI
Drill holder for rapid change for MORBIDELLI machines.
Mandrins porte-mèche avec "ATTAQUE RAPIDE" pour MORBIDELLI machines.
Reduziermutter für Dübelbohrere mit MORBIDELLI "VERBINDUNGSSTÜCK".
Mandril para brocas con "MANGO RÁPIDO" tipo MORBIDELLI.

| d | D | ID nr. |
|-------------------------|----|-----------------|
| 10 | 16 | 4067 001 |
| Vite di fissaggio M5x5 | - | 9546 030 |
| Chiave esagonale 2,5 mm | - | 9548 011 |

Art. fornito con molla di estrazione
Item supplied with spring extraction

4068



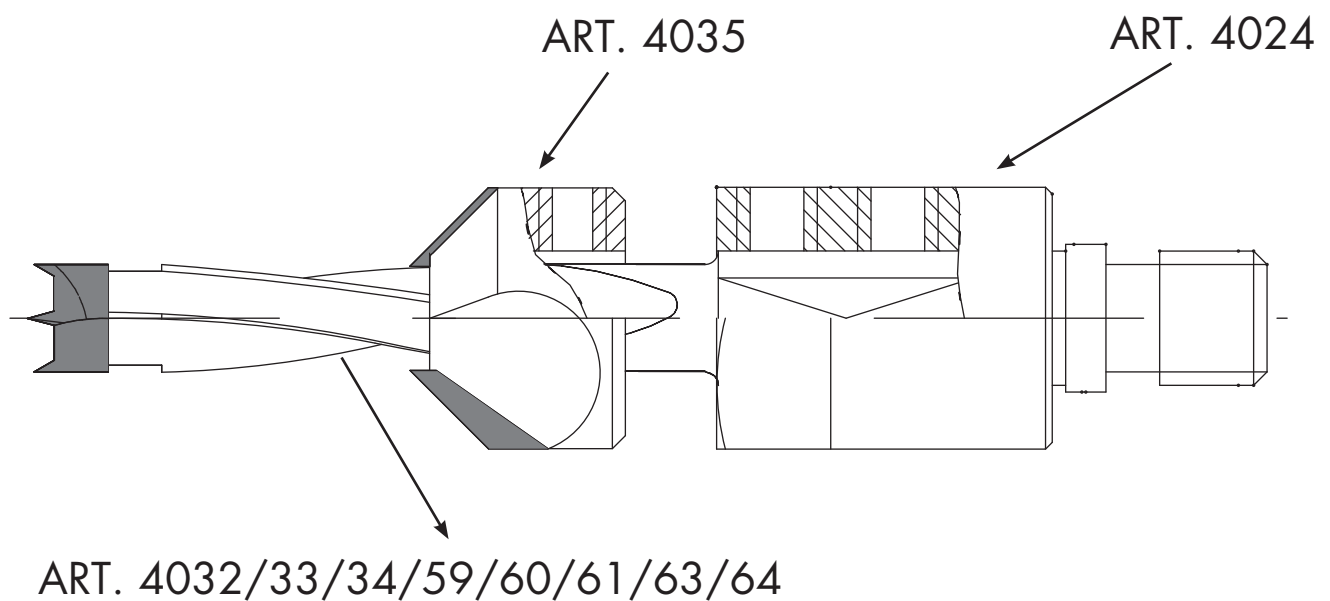
Adattatore per mandrini porta punta per cambio rapido per macchine MORBIDELLI.
Adapter for drill holder for rapid change for MORBIDELLI machines.
Adaptateur pour mandrins porte-mèche avec "ATTAQUE RAPIDE" pour MORBIDELLI machines.
Reduziermutter für Dübelbohrere mit MORBIDELLI "VERBINDUNGSSTÜCK".
Ajuste para mandril para brocas con "MANGO RÁPIDO" tipo MORBIDELLI.

| L | ID nr. DX | ID nr. SX |
|----|-----------------|-----------------|
| 41 | 4068 001 | 4068 002 |

Esempi di montaggio - Assembling Examples

Le punte componibili si dividono principalmente in due gruppi facendo riferimento al montaggio:

- In questa parte tratteremo quelle punte componibili in cui lo svasatore viene montato e regolato direttamente sull'elica della punta stessa, vedi figura.



Referring to the assembling, our drills are mainly divided in two groups:

- *This chapter of our catalogue deals with the drills that have a countersink assembled and adjusted directly on their own propeller, see the following picture.*

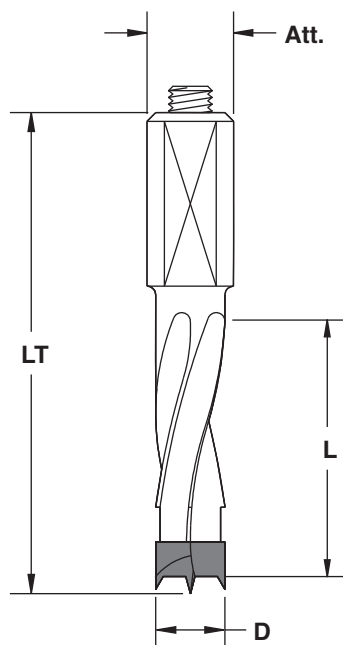
4032

Punte componibili in HM.
 Dowel drills in HM.
 Mèches à tourillons en HM.
 Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.



| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|------|-----------------|-----------------|
| Ø10x20* | 4(5/32") | 30 | 57,5 | 4032 001 | 4032 002 |
| Ø10x20* | 5 | 30 | 57,5 | 4032 003 | 4032 004 |
| Ø10x20* | 6 | 30 | 57,5 | 4032 005 | 4032 006 |
| Ø10x20* | 6,35(1/4") | 30 | 57,5 | 4032 007 | 4032 008 |
| Ø10x20* | 7 | 30 | 57,5 | 4032 009 | 4032 010 |
| Ø10x20* | 8 | 30 | 57,5 | 4032 011 | 4032 012 |
| Ø10x20* | 9 | 30 | 57,5 | 4032 013 | 4032 014 |
| Ø10x20* | 9,5 | 30 | 57,5 | 4032 015 | 4032 016 |
| Ø10x20* | 10 | 30 | 57,5 | 4032 017 | 4032 018 |
| Ø10x20* | 11 | 30 | 57,5 | 4032 019 | 4032 020 |
| Ø10x20* | 12 | 30 | 57,5 | 4032 021 | 4032 022 |
| Ø10x20* | 12,7(1/2") | 30 | 57,5 | 4032 023 | 4032 024 |
| Ø10x20* | 13 | 30 | 57,5 | 4032 025 | 4032 026 |
| Ø10x20* | 14 | 30 | 57,5 | 4032 027 | 4032 028 |
| Ø10x20* | 15 | 30 | 57,5 | 4032 029 | 4032 030 |
| Ø10x20* | 16 | 30 | 57,5 | 4032 031 | 4032 032 |

*Con pianetto e vite di regolazione
 *With driving flat and length adjustable screw

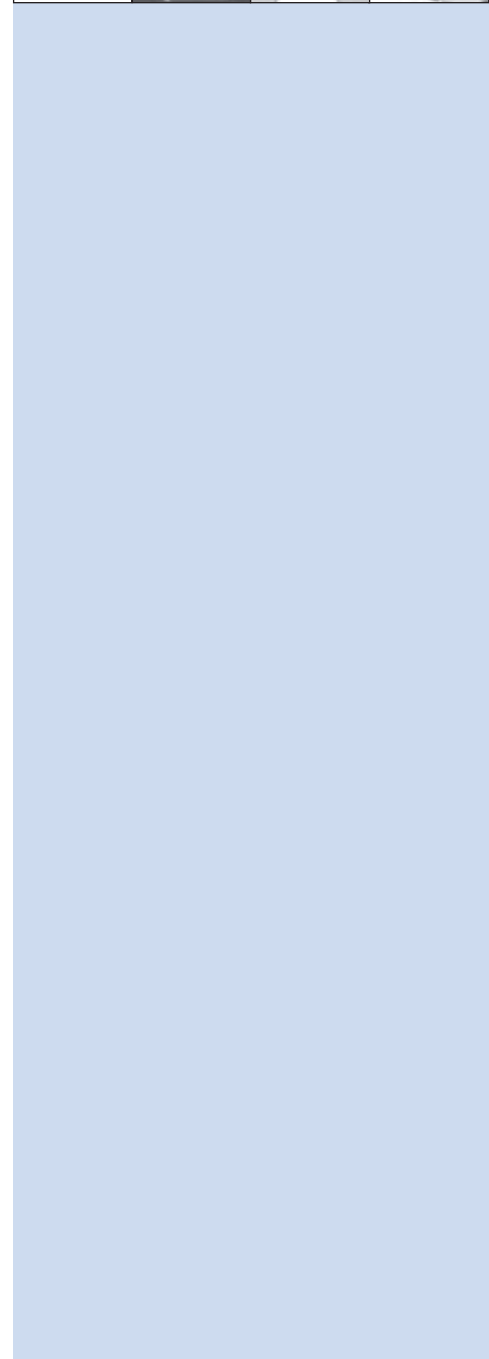
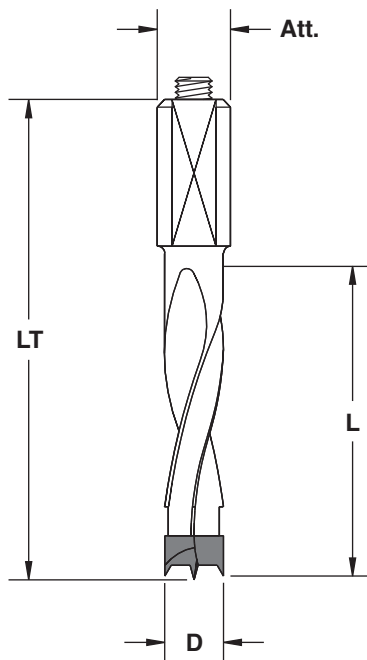


Punte componibili in HM.
 Dowel drills in HM.
 Mèches à tourillons en HM.
 Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.

4033

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|----|-----------------|-----------------|
| Ø10x20* | 4(5/32") | 43 | 70 | 4033 001 | 4033 002 |
| Ø10x20* | 5 | 43 | 70 | 4033 003 | 4033 004 |
| Ø10x20* | 6 | 43 | 70 | 4033 005 | 4033 006 |
| Ø10x20* | 6,35(1/4") | 43 | 70 | 4033 007 | 4033 008 |
| Ø10x20* | 7 | 43 | 70 | 4033 009 | 4033 010 |
| Ø10x20* | 8 | 43 | 70 | 4033 011 | 4033 012 |
| Ø10x20* | 9 | 43 | 70 | 4033 013 | 4033 014 |
| Ø10x20* | 9,5 | 43 | 70 | 4033 015 | 4033 016 |
| Ø10x20* | 10 | 43 | 70 | 4033 017 | 4033 018 |
| Ø10x20* | 11 | 43 | 70 | 4033 019 | 4033 020 |
| Ø10x20* | 12 | 43 | 70 | 4033 021 | 4033 022 |
| Ø10x20* | 12,7(1/2") | 43 | 70 | 4033 023 | 4033 024 |
| Ø10x20* | 13 | 43 | 70 | 4033 025 | 4033 026 |
| Ø10x20* | 14 | 43 | 70 | 4033 027 | 4033 028 |
| Ø10x20* | 15 | 43 | 70 | 4033 029 | 4033 030 |
| Ø10x20* | 16 | 43 | 70 | 4033 031 | 4033 032 |

*Con pianetto e vite di regolazione
 *With driving flat and length adjustable screw



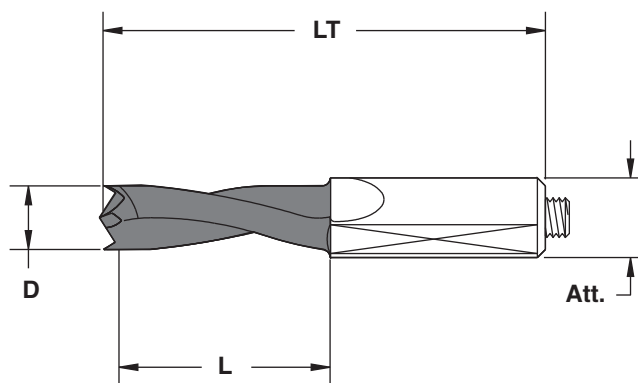
4059



Punte componibili in HM INTEGRALE tipo "PLUS".
 Dowel drills in HM INTEGRAL - "PLUS".
 Mèches à tourillons en HM INTÉGRAL - "PLUS".
 Kombi-Dübelbohrer zu HM INTEGRAL - "PLUS".
 Brocas componibles en HM MACIZO tipo "PLUS".

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|---|----|------|-----------------|-----------------|
| Ø10x30* | 3 | 20 | 57,5 | 4059 001 | 4059 002 |
| Ø10x30* | 4 | 27 | 57,5 | 4059 003 | 4059 004 |
| Ø10x30* | 5 | 27 | 57,5 | 4059 005 | 4059 006 |
| Ø10x30* | 6 | 27 | 57,5 | 4059 007 | 4059 008 |
| Ø10x30* | 8 | 27 | 57,5 | 4059 009 | 4059 010 |

*Con pianetto e vite di regolazione
 *With driving flat and length adjustable screw



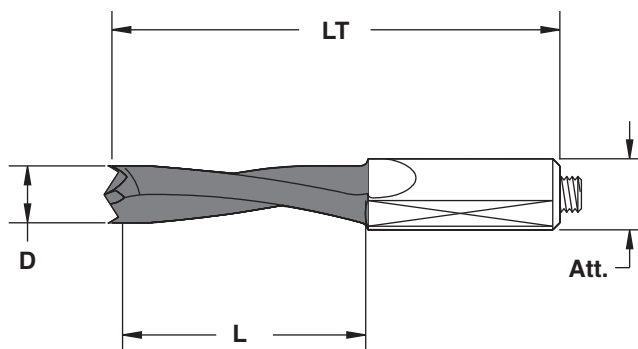
4060



Punte componibili in HM INTEGRALE tipo "PLUS".
 Dowel drills in HM INTEGRAL - "PLUS".
 Mèches à tourillons en HM INTÉGRAL - "PLUS".
 Kombi-Dübelbohrer zu HM INTEGRAL - "PLUS".
 Brocas componibles en HM MACIZO tipo "PLUS".

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|---|----|----|-----------------|-----------------|
| Ø10x30* | 4 | 35 | 70 | 4060 001 | 4060 002 |
| Ø10x30* | 5 | 35 | 70 | 4060 003 | 4060 004 |
| Ø10x30* | 6 | 35 | 70 | 4060 005 | 4060 006 |
| Ø10x30* | 8 | 35 | 70 | 4060 007 | 4060 008 |

*Con pianetto e vite di regolazione
 *With driving flat and length adjustable screw



Punte componibili in HM attacco acciaio affilatura "TAL-CUT".

Dowel drills in HM steel shank - "TAL-CUT".

Mèches à tourillons en HM attaque acier - "TAL-CUT".

Kombi-Dübelbohrer zu HM Stahl Angriff - "TAL-CUT".

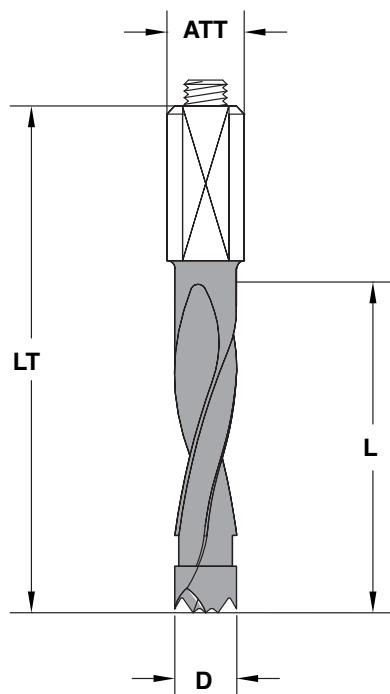
Brocas componibles en HM enchufe acero tipo "TAL-CUT".

4069

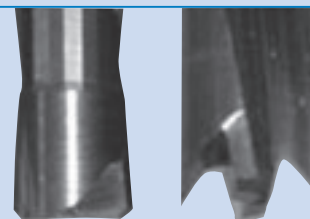
| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|---|----|------|-----------------|-----------------|
| Ø10x30* | 4 | 27 | 57,5 | 4069 001 | 4069 002 |
| Ø10x30* | 5 | 27 | 57,5 | 4069 003 | 4069 004 |
| Ø10x30* | 6 | 27 | 57,5 | 4069 005 | 4069 006 |
| Ø10x30* | 7 | 27 | 57,5 | 4069 007 | 4069 008 |
| Ø10x30* | 8 | 27 | 57,5 | 4069 009 | 4069 010 |
| Ø10x30* | 4 | 35 | 70 | 4069 011 | 4069 012 |
| Ø10x30* | 5 | 35 | 70 | 4069 013 | 4069 014 |
| Ø10x30* | 6 | 35 | 70 | 4069 015 | 4069 016 |
| Ø10x30* | 7 | 35 | 70 | 4069 017 | 4069 018 |
| Ø10x30* | 8 | 35 | 70 | 4069 019 | 4069 020 |

* Con pianetto e vite di regolazione

* With driving flat and lenght adjustable screw



PARTICOLARI AFFILATURA "TAL-CUT"



4070



Punte componibili in HM INTEGRALE affilatura "TAL-CUT".

Dowel drills in HM INTEGRAL - "TAL-CUT".

Mèches à tourillons en HM INTÉGRAL - "TAL-CUT".

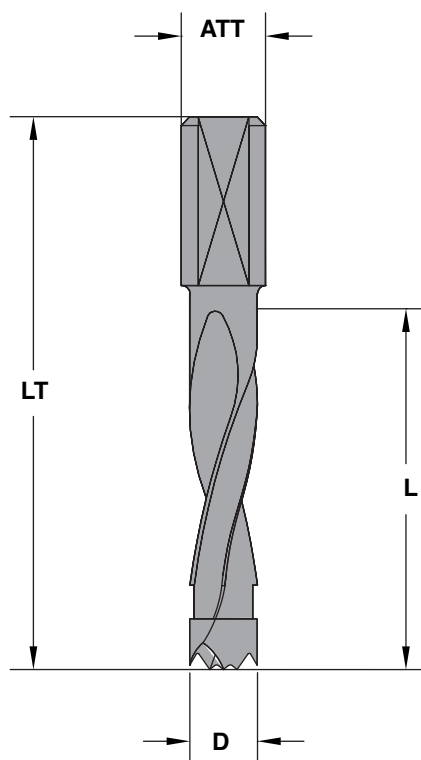
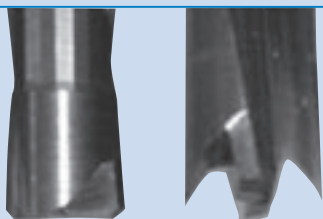
Kombi-Dübelbohrer zu HM INTEGRAL - "TAL-CUT".

Brocas componibles en HM MACIZO tipo "TAL-CUT".

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|--------|----|----|----|-----------------|-----------------|
| Ø10x30 | 10 | 35 | 70 | 4070 001 | 4070 002 |
| Ø10x30 | 12 | 35 | 70 | 4070 003 | 4070 004 |
| Ø10x30 | 14 | 35 | 70 | 4070 005 | 4070 006 |
| Ø10x30 | 16 | 35 | 70 | 4070 007 | 4070 008 |



PARTICOLARI AFFILATURA "TAL-CUT"



Punte componibili in HM INTEGRALE a lancia.

Through-hole drills in HM INTEGRAL.

Mèches pour trous dépassantes en HM INTÉGRAL.

Kombi-Dübelbohrer für Durchgangslöcher zu HM INTEGRAL.

Brocas componibles con punta a lanza en HM MACIZO.

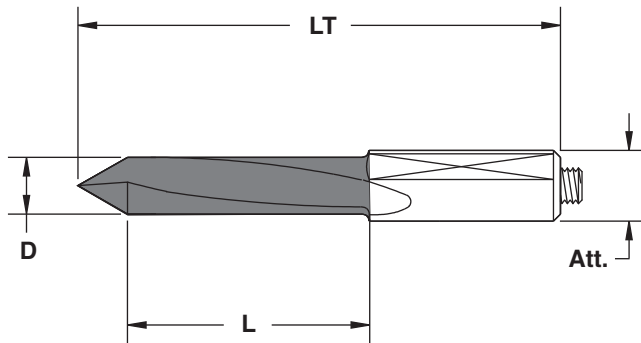
4061



| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|---|----|----|-----------------|-----------------|
| Ø10x30* | 5 | 35 | 70 | 4061 001 | 4061 002 |
| Ø10x30* | 6 | 35 | 70 | 4061 003 | 4061 004 |
| Ø10x30* | 8 | 35 | 70 | 4061 005 | 4061 006 |

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



Punte componibili per fori passanti in HM.

Through-hole drills in HM.

Mèches pour trous dépassants en HM.

Komb-Dübelbohrer für Durchgangslöcher zu HM.

Brocas componibles en HM para la realización de agujeros pasantes.

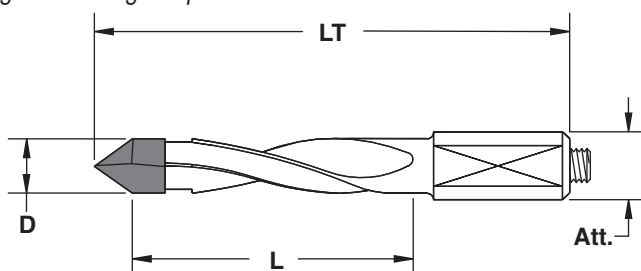
4034



| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|----|-----------------|-----------------|
| Ø10x20* | 4 | 40 | 70 | 4034 019 | 4034 020 |
| Ø10x20* | 5 | 40 | 70 | 4034 001 | 4034 002 |
| Ø10x20* | 6 | 40 | 70 | 4034 003 | 4034 004 |
| Ø10x20* | 6,35(1/4") | 40 | 70 | 4034 005 | 4034 006 |
| Ø10x20* | 7 | 40 | 70 | 4034 007 | 4034 008 |
| Ø10x20* | 8 | 40 | 70 | 4034 009 | 4034 010 |
| Ø10x20* | 9 | 40 | 70 | 4034 011 | 4034 012 |
| Ø10x20* | 10 | 40 | 70 | 4034 013 | 4034 014 |
| Ø10x20* | 11 | 40 | 70 | 4034 015 | 4034 016 |
| Ø10x20* | 12 | 40 | 70 | 4034 017 | 4034 018 |

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



4063



4064



Punte componibili in HM INTEGRALE a lancia "SPECIAL".

"SPECIAL" through-hole drills in HM INTEGRAL.

Mèches pour trous dépassantes en HM INTÉGRAL "SPECIAL".

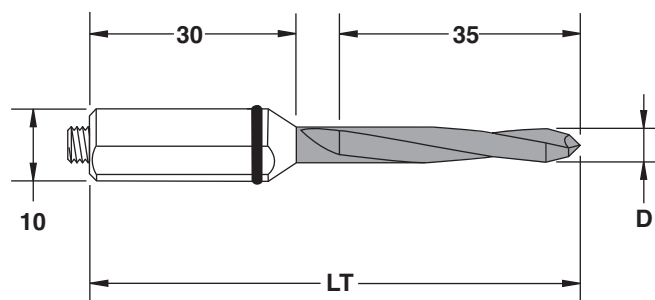
Kombi-Duebelbohrer für Durchgangslöcher zu HM INTEGRAL "SPEZIAL".

Brocas componibles con punta a lanza en HM MACIZO "ESPECIAL".

| D | LT | ID nr. DX | ID nr. SX |
|---|----|-----------------|-----------------|
| 5 | 70 | 4063 001 | 4063 002 |
| 6 | 70 | 4063 003 | 4063 004 |
| 8 | 70 | 4063 005 | 4063 006 |

* Con pianetto e vite di regolazione

* With driving flat and length adjustable screw



Punte componibili in HM a lancia "SPECIAL".

"SPECIAL" through-hole drills in HM.

Mèches pour trous dépassantes en HM "SPECIAL".

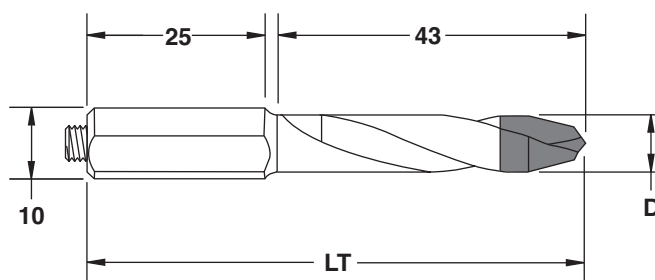
Kombi-Duebelbohrer für Durchgangslöcher zu HM "SPEZIAL".

Brocas componibles con punta a lanza en HM "ESPECIAL".

| D | LT | ID nr. DX | ID nr. SX |
|---|----|-----------------|-----------------|
| 5 | 70 | 4064 001 | 4064 002 |
| 6 | 70 | 4064 003 | 4064 004 |
| 8 | 70 | 4064 005 | 4064 006 |

* Con pianetto e vite di regolazione

* With driving flat and length adjustable screw



Punte componibili in HM INTEGRALE a lancia AMBIDESTRE.

Through-hole drills in HM INTEGRAL AMBIDEXTROUS.

Mèches pour trous de passantes en HM INTÉGRAL AMBIDEXTRE.

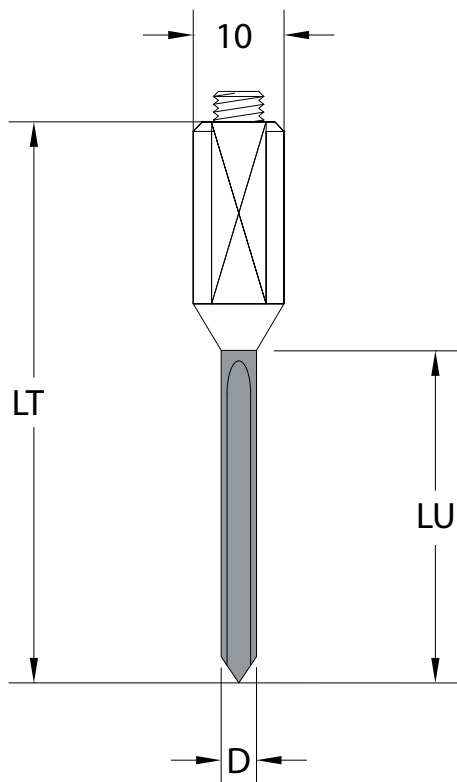
Kombi-Duebelbohrer für Durchgangslöcher zu HM INTEGRAL BEIDHÄNDIG.

Brocas componibles con punta a lanza en HM MACIZO BILATERALES.

| D | LU | LT | ID nr. |
|-----|----|----|-----------------|
| 1,2 | 8 | 70 | 4071 001 |
| 2 | 10 | 70 | 4071 002 |
| 3 | 10 | 70 | 4071 003 |

* Con pianetto e vite di regolazione

* With driving flat and length adjustable screw



4071



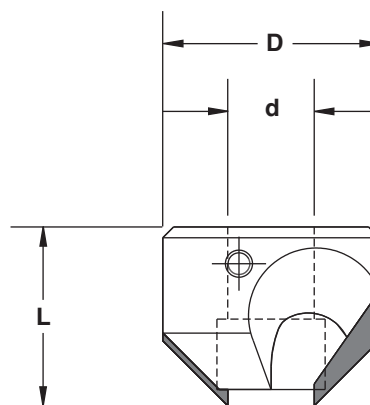
4035

Svasatore per punte componibili Z2 in HM.
Countersink for dowel drills Z2 in HM.
Fraisoir pour mèches à tourillon Z2 en HM.
Aufsteckversenken für Kombi-Dübelbohrere Z2 zu HM.
Avellanador para brocas componibles en HM Z2.



| d | D | L | ID nr. DX | ID nr. SX |
|------------|----|----|-----------------|-----------------|
| 4(5/32") | 14 | 12 | 4035 001 | 4035 002 |
| 5 | 14 | 12 | 4035 003 | 4035 004 |
| 6 | 16 | 14 | 4035 005 | 4035 006 |
| 6,35(1/4") | 16 | 14 | 4035 007 | 4035 008 |
| 7 | 16 | 14 | 4035 009 | 4035 010 |
| 8 | 16 | 16 | 4035 011 | 4035 012 |
| 9 | 18 | 16 | 4035 013 | 4035 014 |
| 9,5 | 20 | 16 | 4035 015 | 4035 016 |
| 10 | 20 | 18 | 4035 017 | 4035 018 |
| 11 | 20 | 18 | 4035 019 | 4035 020 |
| 12 | 20 | 18 | 4035 021 | 4035 022 |
| 12,7(1/2") | 20 | 18 | 4035 023 | 4035 024 |
| 13 | 24 | 18 | 4035 025 | 4035 026 |
| 14 | 24 | 19 | 4035 027 | 4035 028 |
| 15 | 24 | 19 | 4035 029 | 4035 030 |
| 16 | 24 | 19 | 4035 031 | 4035 032 |

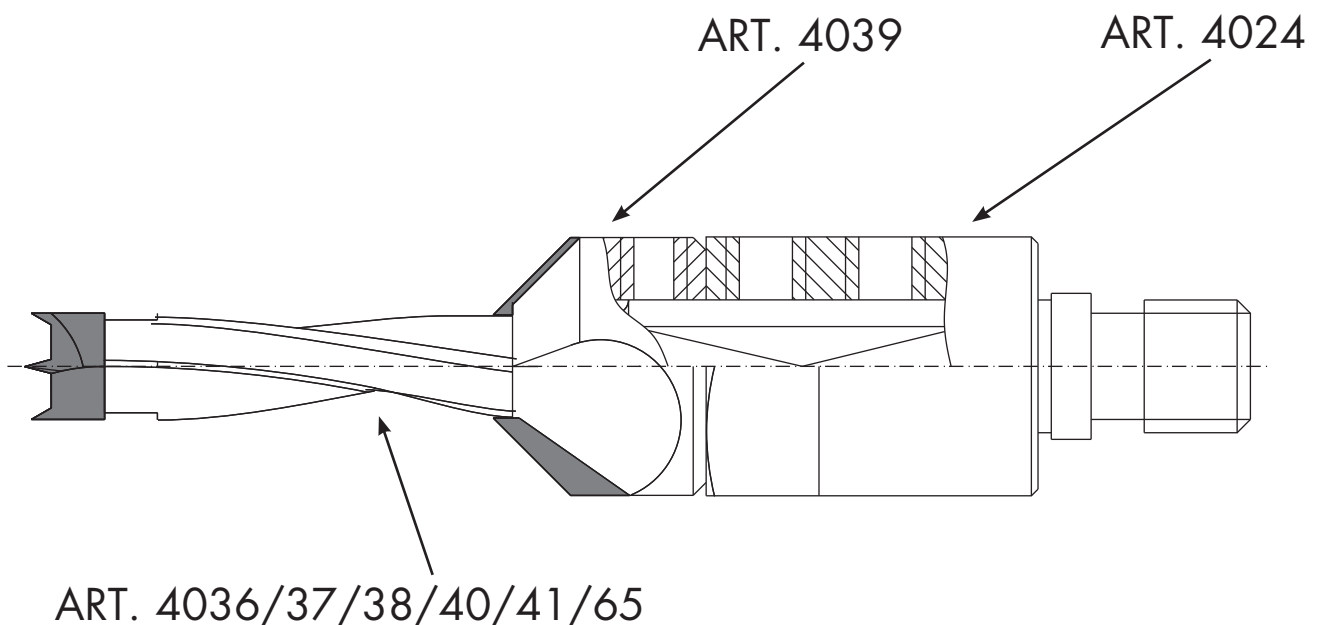
Da impiegare su art. 4032 - 4033 - 4034
To be utilized on art. 4032 - 4033 - 4034



Esempi di montaggio - Assembling Examples

Le punte componibili si dividono principalmente in due gruppi facendo riferimento al montaggio:

- In questa parte tratteremo quelle punte componibili in cui lo svasatore viene montato e regolato direttamente su gambo cilindrico della punta stessa, vedi figura.



Referring to the assembling, our drills are mainly divided in two groups:

- *This chapter of our catalogue deals with the drills that have a countersink assembled and adjusted directly on their own shank, see the following picture.*

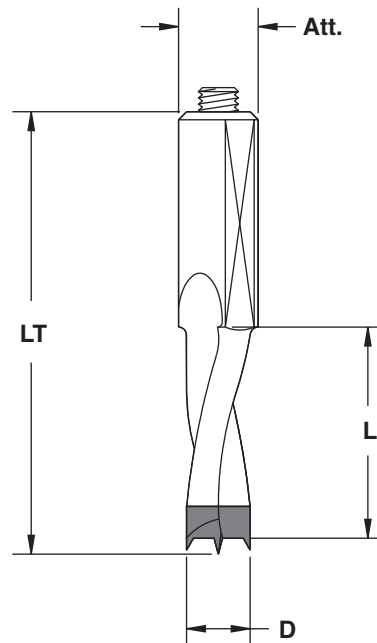
4036

Punte componibili in HM.
Dowel drills in HM.
Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
Brocas componibles en HM.



| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|------|-----------------|-----------------|
| Ø10x27* | 4(5/32") | 27 | 57,5 | 4036 001 | 4036 002 |
| Ø10x27* | 5 | 27 | 57,5 | 4036 003 | 4036 004 |
| Ø10x27* | 6 | 27 | 57,5 | 4036 005 | 4036 006 |
| Ø10x27* | 6,35(1/4") | 27 | 57,5 | 4036 007 | 4036 008 |
| Ø10x27* | 7 | 27 | 57,5 | 4036 009 | 4036 010 |
| Ø10x27* | 8 | 27 | 57,5 | 4036 011 | 4036 012 |
| Ø10x27* | 9 | 27 | 57,5 | 4036 013 | 4036 014 |
| Ø10x27* | 9,5 | 27 | 57,5 | 4036 015 | 4036 016 |
| Ø10x27* | 10 | 27 | 57,5 | 4036 017 | 4036 018 |
| Ø10x27* | 11 | 27 | 57,5 | 4036 019 | 4036 020 |
| Ø10x27* | 12 | 27 | 57,5 | 4036 021 | 4036 022 |
| Ø10x27* | 12,7(1/2") | 27 | 57,5 | 4036 023 | 4036 024 |
| Ø10x27* | 13 | 27 | 57,5 | 4036 025 | 4036 026 |
| Ø10x27* | 14 | 27 | 57,5 | 4036 027 | 4036 028 |
| Ø10x27* | 15 | 27 | 57,5 | 4036 029 | 4036 030 |
| Ø10x27* | 16 | 27 | 57,5 | 4036 031 | 4036 032 |

*Con pianetto e vite di regolazione
*With driving flat and length adjustable screw

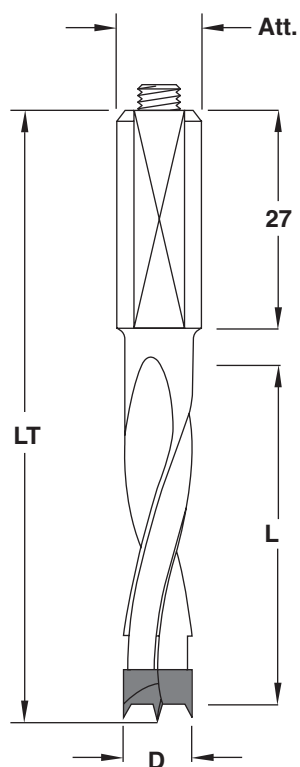


Punte componibili in HM.
 Dowel drills in HM.
 Mèches à tourillons en HM.
 Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.

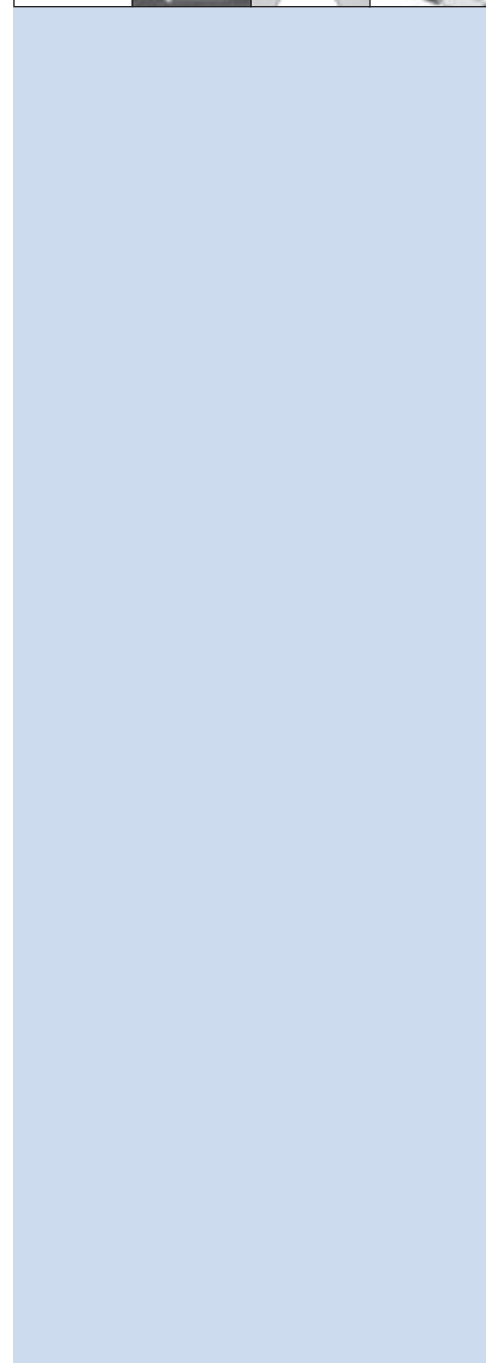
| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|----|----|----|-----------------|-----------------|
| Ø10x27* | 5 | 50 | 85 | 4065 001 | 4065 002 |
| Ø10x27* | 6 | 50 | 85 | 4065 003 | 4065 004 |
| Ø10x27* | 8 | 50 | 85 | 4065 005 | 4065 006 |
| Ø10x27* | 10 | 50 | 85 | 4065 007 | 4065 008 |
| Ø10x27* | 12 | 50 | 85 | 4065 009 | 4065 010 |

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



4065



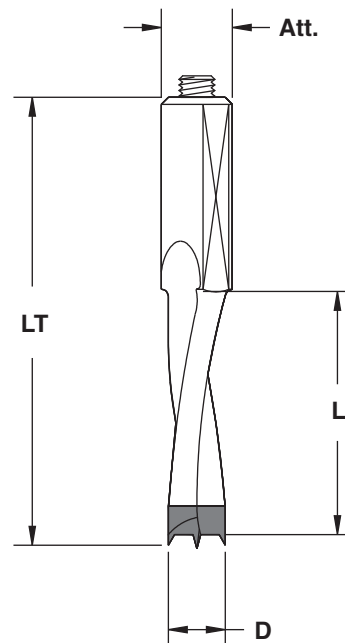
4037

Punte componibili in HM.
Dowel drills in HM.
Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
Brocas componibles en HM.



| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|----|-----------------|-----------------|
| Ø10x30* | 4(5/32") | 35 | 70 | 4037 001 | 4037 002 |
| Ø10x30* | 5 | 35 | 70 | 4037 003 | 4037 004 |
| Ø10x30* | 6 | 35 | 70 | 4037 005 | 4037 006 |
| Ø10x30* | 6,35(1/4") | 35 | 70 | 4037 007 | 4037 008 |
| Ø10x30* | 7 | 35 | 70 | 4037 009 | 4037 010 |
| Ø10x30* | 8 | 35 | 70 | 4037 011 | 4037 012 |
| Ø10x30* | 9 | 35 | 70 | 4037 013 | 4037 014 |
| Ø10x30* | 9,5 | 35 | 70 | 4037 015 | 4037 016 |
| Ø10x30* | 10 | 35 | 70 | 4037 017 | 4037 018 |
| Ø10x30* | 11 | 35 | 70 | 4037 019 | 4037 020 |
| Ø10x30* | 12 | 35 | 70 | 4037 021 | 4037 022 |
| Ø10x30* | 12,7(1/2") | 35 | 70 | 4037 023 | 4037 024 |
| Ø10x30* | 13 | 35 | 70 | 4037 025 | 4037 026 |
| Ø10x30* | 14 | 35 | 70 | 4037 027 | 4037 028 |
| Ø10x30* | 15 | 35 | 70 | 4037 029 | 4037 030 |
| Ø10x30* | 16 | 35 | 70 | 4037 031 | 4037 032 |

*Con pianetto e vite di regolazione
*With driving flat and length adjustable screw



Punte componibili per fori passanti in HM.

Through-hole drills in HM.

Mèches pour trous dépassants en HM.

Kombi-Dübelbohrer für Durchgangslöcher zu HM.

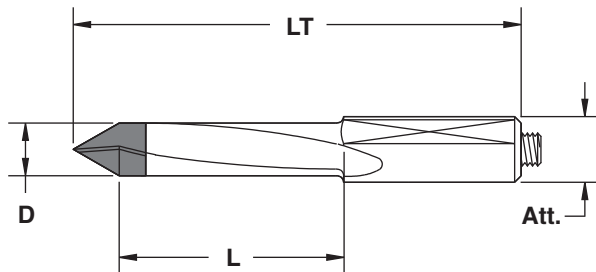
Brocas componibles en HM para la realización de agujeros pasantes.

4038

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|------------|----|----|-----------------|-----------------|
| Ø10x25* | 4(5/32") | 35 | 70 | 4038 001 | 4038 002 |
| Ø10x25* | 5 | 35 | 70 | 4038 003 | 4038 004 |
| Ø10x25* | 6 | 35 | 70 | 4038 005 | 4038 006 |
| Ø10x25* | 6,35(1/4") | 35 | 70 | 4038 007 | 4038 008 |
| Ø10x25* | 7 | 35 | 70 | 4038 009 | 4038 010 |
| Ø10x25* | 8 | 35 | 70 | 4038 011 | 4038 012 |
| Ø10x25* | 9 | 35 | 70 | 4038 013 | 4038 014 |
| Ø10x25* | 10 | 35 | 70 | 4038 015 | 4038 016 |
| Ø10x25* | 11 | 35 | 70 | 4038 017 | 4038 018 |
| Ø10x25* | 12 | 35 | 70 | 4038 019 | 4038 020 |

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



Svasatore per punte componibili Z2 in HM.

Countersink for dowel drills Z2 in HM.

Fraisoir pour mèches à tourillon Z2 en HM.

Aufsteckversenken für Kombi-Dübelbohrere Z2 zu HM.

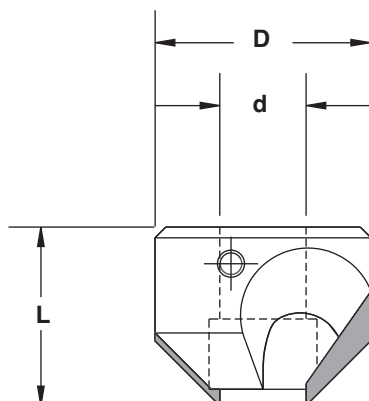
Avellanador para brocas componibles en HM Z2.

4039

| d | D | L | ID nr. DX | ID nr. SX |
|-------|----|----|-----------------|-----------------|
| 4÷10 | 20 | 15 | 4039 001 | 4039 002 |
| 11÷12 | 22 | 16 | 4039 011 | 4039 012 |

Da impiegare su ART. 4036 - 4037 - 4038

To be utilized on ART. 4036 - 4037 - 4038



4040



Caratteristiche

Queste punte hanno un'affilatura speciale grazie alla quale si ottiene un'ottima finitura del foro ed una durata superiore sino al 60%.

Characteristics

These drills have a special sharpening and with this it is possible to have an excellent finish and a life longer than 60%.

4041



Caratteristiche

Queste punte hanno un'affilatura speciale grazie alla quale si ottiene un'ottima finitura del foro ed una durata superiore sino al 60%.

Characteristics

These drills have a special sharpening and with this it is possible to have an excellent finish and a life longer than 60%.

Punte componibili saldobrasate in HM tipo "PLUS".

Dowel brased drills in HM - "PLUS".

Mèches brasées à tourillons en HM - "PLUS".

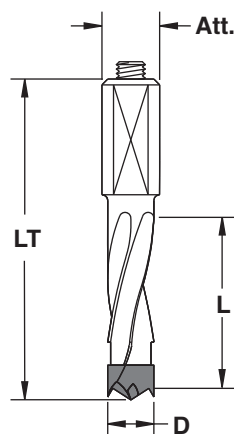
Kombi-Dübelbohrer zu HM - "PLUS".

Brocas componibles en HM con dientes soldados tipo "PLUS".

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|----|----|------|-----------------|-----------------|
| Ø10x30* | 5 | 27 | 57,5 | 4040 001 | 4040 002 |
| Ø10x30* | 6 | 27 | 57,5 | 4040 003 | 4040 004 |
| Ø10x30* | 8 | 27 | 57,5 | 4040 005 | 4040 006 |
| Ø10x30* | 10 | 27 | 57,5 | 4040 007 | 4040 008 |
| Ø10x30* | 12 | 27 | 57,5 | 4040 009 | 4040 010 |

*Con pianetto e vite di regolazione

**With driving flat and lenght adjustable screw*



Punte componibili saldobrasate in HM tipo "PLUS".

Dowel brased drills in HM - "PLUS".

Mèches brasées à tourillons en HM - "PLUS".

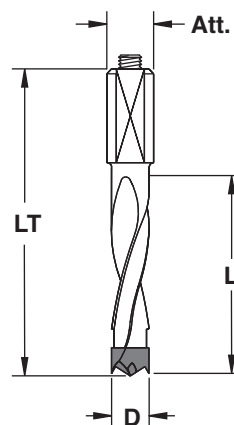
Kombi-Dübelbohrer zu HM - "PLUS".

Brocas componibles en HM con dientes soldados tipo "PLUS".

| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|---------|----|----|----|-----------------|-----------------|
| Ø10x30* | 5 | 35 | 70 | 4041 001 | 4041 002 |
| Ø10x30* | 6 | 35 | 70 | 4041 003 | 4041 004 |
| Ø10x30* | 8 | 35 | 70 | 4041 005 | 4041 006 |
| Ø10x30* | 10 | 35 | 70 | 4041 007 | 4041 008 |
| Ø10x30* | 12 | 35 | 70 | 4041 009 | 4041 010 |

*Con pianetto e vite di regolazione

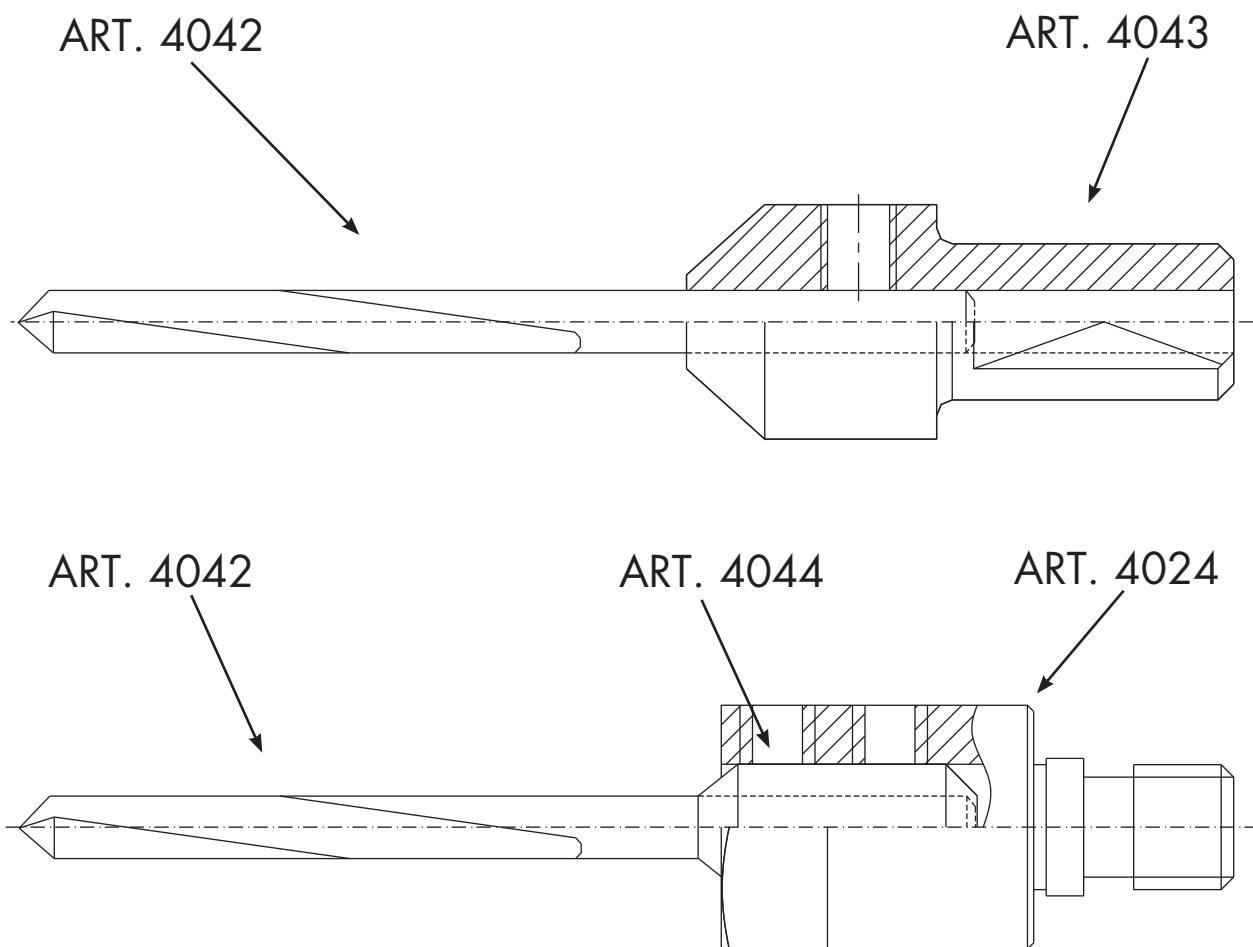
**With driving flat and lenght adjustable screw*



Esempi di montaggio - Assembling Examples

Le punte componibili si dividono principalmente in due gruppi facendo riferimento al montaggio:

- In questa parte tratteremo quelle punte componibili in cui lo svasatore viene montato e regolato sul gambo cilindrico della punta stessa, vedi figura.



Referring to the assembling, our drills are mainly divided in two groups:

- *This chapter of our catalogue deals with the drills that have a countersink assembled and adjusted directly on their own shank, see the following picture.*

4042



Punte elicoidali per piccoli fori Z2 in HM INTEGRALE.

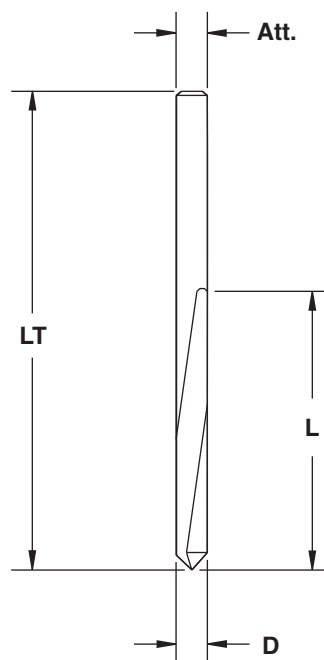
Twist drills for through bores Z2 in HM INTEGRAL.

Mèches hélicoïdales en carbure monobloc pour trous transversants Z2 en HM INTÉGRAL.

Spiralbohrer für durchgangsbohrung Z2 zu HM INTEGRAL.

Brocas helicoidales en HM MACIZO para la realización de pequeños agujeros Z2.

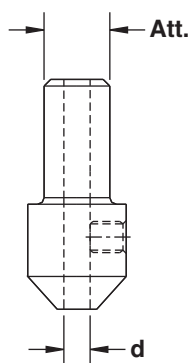
| Att. | D | L | LT | ID nr. DX | ID nr. SX |
|------|-----|----|----|-----------------|-----------------|
| Ø2 | 2 | 16 | 49 | 4042 001 | 4042 002 |
| Ø2,5 | 2,5 | 27 | 55 | 4042 003 | 4042 004 |
| Ø3 | 3 | 27 | 55 | 4042 005 | 4042 006 |
| Ø3,2 | 3,2 | 27 | 55 | 4042 007 | 4042 008 |
| Ø3,5 | 3,5 | 27 | 55 | 4042 009 | 4042 010 |
| Ø4 | 4 | 27 | 55 | 4042 011 | 4042 012 |
| Ø5 | 5 | 27 | 55 | 4042 013 | 4042 014 |



Mandrino porta-punte elicoidali.
Bushing and chucks for jobber drills.
Mandrins pour mèches à percer.
Futter für spiralbohrer.
Mandril portabrocas helicoidales.

| Att. | d | ID nr. |
|------------------------|-----|-----------------|
| Ø10x25 | 2 | 4043 001 |
| Ø10x25 | 2,5 | 4043 003 |
| Ø10x25 | 3 | 4043 005 |
| Ø10x25 | 3,2 | 4043 007 |
| Ø10x25 | 3,5 | 4043 009 |
| Ø10x25 | 4 | 4043 011 |
| Ø10x25 | 5 | 4043 013 |
| Vite di fissaggio M6x6 | | 9546 024 |
| Chiave esagonale 3mm | | 9548 003 |

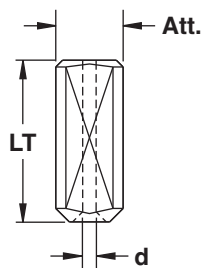
Materiale di costruzione: Acciaio
Material: Steel



Boccola porta-punte elicoidali.
Adaptor bushing for small diameter drill bits.
Douille adaptable pour mèches hélicoidales.
Buchse ampabglied für spitze für kleines loch.
Adaptador portabrocas helicoidales.

| Att. | d | LT | ID nr. |
|--------|-----|----|-----------------|
| Ø10x23 | 2 | 25 | 4044 001 |
| Ø10x23 | 2,5 | 25 | 4044 003 |
| Ø10x23 | 3 | 25 | 4044 005 |
| Ø10x23 | 3,2 | 25 | 4044 007 |
| Ø10x23 | 3,5 | 25 | 4044 009 |
| Ø10x23 | 4 | 25 | 4044 011 |
| Ø10x23 | 5 | 25 | 4044 013 |

Materiale di costruzione: Acciaio
Material: Steel



4043



4044



4045



Punte levanoi a coltellini Z2+2.

Knot correcting bit Z2+2.

Mèches à façonner Z2+2.

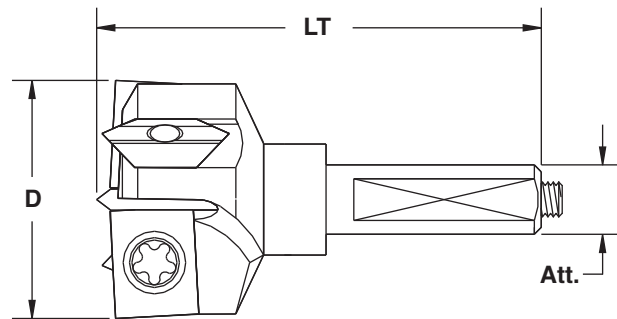
Kunstbohrer Z2+2.

Brocas bisagras con cuchillas Z2+2.

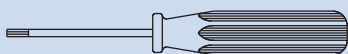
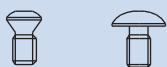
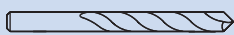
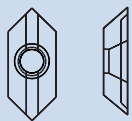
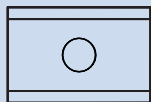
| Att. | D | LT | ID nr. DX | ID nr. SX |
|---------|----|------|-----------------|-----------------|
| Ø10x26* | 25 | 57,5 | 4045 001 | 4045 002 |
| Ø10x26* | 26 | 57,5 | 4045 003 | 4045 004 |
| Ø10x26* | 30 | 57,5 | 4045 005 | 4045 006 |
| Ø10x26* | 35 | 57,5 | 4045 007 | 4045 008 |
| Ø10x26* | 40 | 57,5 | 4045 009 | 4045 010 |

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



RICAMBI



| COLTELLINI | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| PER Ø | 25 | 26 | 30 | 35 | 40 |
| Dimensioni | 10,5x12x1,5 | 11x12x1,5 | 13x12x1,5 | 15,7x12x1,5 | 18x12x1,5 |
| ID nr. | 4045 051 | 4045 052 | 4045 053 | 4045 054 | 4045 055 |

| INCISORI | | | | | |
|------------|-----------------|----|----|----|----|
| PER Ø | 25 | 26 | 30 | 35 | 40 |
| Dimensioni | 18x8x4 | | | | |
| ID nr. | 4045 061 | | | | |

| PUNTA CENTRALE | | | | | |
|----------------|-----------------|----|----|----|----|
| PER Ø | 25 | 26 | 30 | 35 | 40 |
| Dimensioni | Ø3 | | | | |
| ID nr. DX | 4045 071 | | | | |
| ID nr. SX | 4045 072 | | | | |

| VITI DI FISSAGGIO | | | |
|-------------------|-----------------|-----------------|-----------------|
| PER | COLTELLINI | INCISORI | PUNTA CENTRALE |
| Dimensioni | M4 | M4 | M6 |
| ID nr. | 4045 081 | 4045 082 | 4045 083 |

| CHIAVE TORX | |
|-------------|----------------------|
| PER | COLTELLINI - RASANTI |
| Dimensioni | CHIAVE TORX T15 |
| ID nr. | 9548 002 |

Punte levanoi Z2+2 in HM.
Knot correcting bit Z2+2 in HM.
 Mèches à façonner Z2+2 en HM.
Kunstbohrer Z2+2 zu HM.
 Brocas bisagras en HM Z2+2.

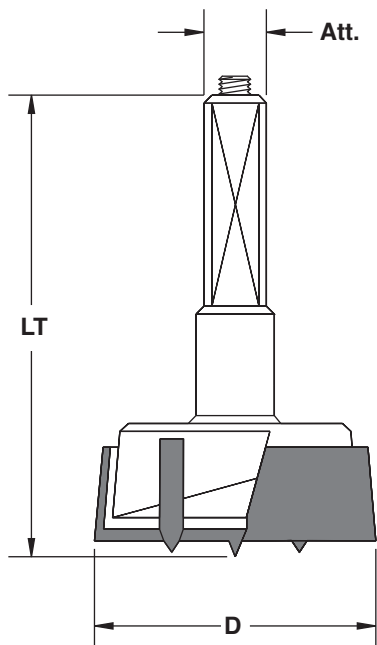
4046



| Att. | D | LT | ID nr. DX | ID nr. SX |
|---------|----|------|-----------------|-----------------|
| Ø10x25* | 15 | 57,5 | 4046 001 | 4046 002 |
| Ø10x25* | 16 | 57,5 | 4046 003 | 4046 004 |
| Ø10x25* | 18 | 57,5 | 4046 005 | 4046 006 |
| Ø10x25* | 20 | 57,5 | 4046 007 | 4046 008 |
| Ø10x25* | 22 | 57,5 | 4046 009 | 4046 010 |
| Ø10x25* | 24 | 57,5 | 4046 011 | 4046 012 |
| Ø10x25* | 25 | 57,5 | 4046 013 | 4046 014 |
| Ø10x25* | 26 | 57,5 | 4046 015 | 4046 016 |
| Ø10x25* | 28 | 57,5 | 4046 017 | 4046 018 |
| Ø10x25* | 30 | 57,5 | 4046 019 | 4046 020 |
| Ø10x25* | 32 | 57,5 | 4046 021 | 4046 022 |
| Ø10x25* | 34 | 57,5 | 4046 023 | 4046 024 |
| Ø10x25* | 35 | 57,5 | 4046 025 | 4046 026 |
| Ø10x25* | 36 | 57,5 | 4046 027 | 4046 028 |
| Ø10x25* | 38 | 57,5 | 4046 029 | 4046 030 |
| Ø10x25* | 40 | 57,5 | 4046 031 | 4046 032 |



*Con pianetto e vite di regolazione
 *With driving flat and length adjustable screw



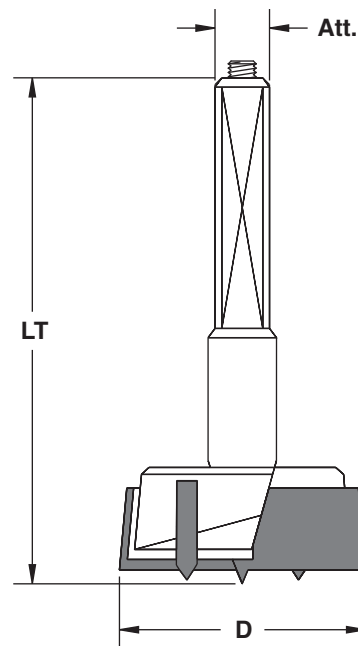
4047

Punte levanoi Z2+2 in HM.
Knot correcting bit Z2+2 in HM.
Mèches à façonner Z2+2 en HM.
Kunstbohrer Z2+2 zu HM.
Brocas bisagras en HM Z2+2.



| Att. | D | LT | ID nr. DX | ID nr. SX |
|---------|----|----|-----------------|-----------------|
| Ø10x38* | 15 | 70 | 4047 001 | 4047 002 |
| Ø10x38* | 16 | 70 | 4047 003 | 4047 004 |
| Ø10x38* | 20 | 70 | 4047 005 | 4047 006 |
| Ø10x38* | 25 | 70 | 4047 007 | 4047 008 |
| Ø10x38* | 26 | 70 | 4047 009 | 4047 010 |
| Ø10x38* | 30 | 70 | 4047 011 | 4047 012 |
| Ø10x38* | 35 | 70 | 4047 013 | 4047 014 |

*Con pianetto e vite di regolazione
*With driving flat and length adjustable screw



Punte per cavitrici per sede piastrina con attacco filettato internamente Z2.

Drills for making the seating of lock plates with threaded shank Z2.

Mèches pour les logements de serrures avec queue fileté Z2.

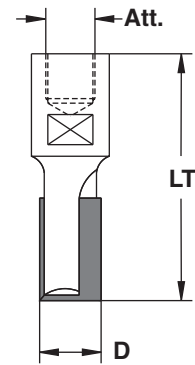
Schafffräser mit Gewindschaft Z2.

Brocas para ranuras donde poner la herramienta con mango con rosca interna Z2.

4052

Con taglienti in HM / With cutting edge in HM

| Att. | D | LT | ID nr. DX |
|-------|----|----|-----------------|
| M12x1 | 18 | 60 | 4052 001 |
| M12x1 | 20 | 60 | 4052 002 |
| M12x1 | 22 | 60 | 4052 003 |
| M12x1 | 24 | 60 | 4052 004 |



Con taglienti in KSS / With cutting edge in KSS

| Att. | D | LT | ID nr. DX |
|-------|----|----|-----------------|
| M12x1 | 18 | 60 | 4052 005 |
| M12x1 | 20 | 60 | 4052 006 |
| M12x1 | 22 | 60 | 4052 007 |
| M12x1 | 24 | 60 | 4052 008 |



Punte per cavitrici per eseguire cave con attacco filettato internamente Z2.

Drills for making the slots with threaded shank Z2.

Mèches pour l'exécution de creux avec queue fileté Z2.

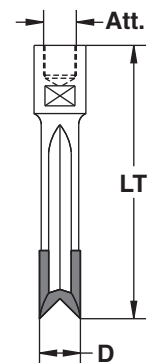
Schafffräser mit Gewindschaft Z2.

Brocas para ranuras con mango con rosca interna Z2.

4053

Con taglienti in HM / With cutting edge in HM

| Att. | D | LT | ID nr. DX |
|-------|----|-----|-----------------|
| M12x1 | 12 | 100 | 4053 001 |
| M12x1 | 14 | 100 | 4053 002 |
| M12x1 | 15 | 100 | 4053 003 |
| M12x1 | 16 | 100 | 4053 004 |
| M12x1 | 17 | 100 | 4053 005 |
| M12x1 | 18 | 100 | 4053 006 |

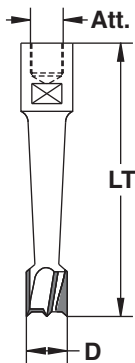


Con taglienti in KSS / With cutting edge in KSS

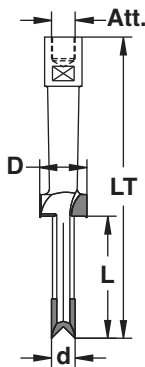
| Att. | D | LT | ID nr. DX |
|-------|----|-----|-----------------|
| M12x1 | 12 | 100 | 4053 007 |
| M12x1 | 14 | 100 | 4053 008 |
| M12x1 | 15 | 100 | 4053 009 |
| M12x1 | 16 | 100 | 4053 010 |
| M12x1 | 17 | 100 | 4053 011 |
| M12x1 | 18 | 100 | 4053 012 |



4054



4055



Punte per cavitrici per eseguire foro con attacco filettato internamente Z2.
Drills for making only holes with threaded shank Z2.
 Mèches pour obtenir le trou de la poignée avec queue filetée Z2.
Schafffräser mit Gewindschaft Z2.
 Brocas para ranurar y realizar agujeros con mango con rosca interna Z2.

Con taglienti in HM / With cutting edge in HM

| Att. | D | LT | ID nr. DX |
|-------|----|-----|-----------------|
| M12x1 | 15 | 100 | 4054 001 |
| M12x1 | 18 | 100 | 4054 002 |
| M12x1 | 20 | 100 | 4054 003 |
| M12x1 | 22 | 100 | 4054 004 |
| M12x1 | 24 | 100 | 4054 005 |

Con taglienti in KSS / With cutting edge in KSS

| Att. | D | LT | ID nr. DX |
|-------|----|-----|-----------------|
| M12x1 | 15 | 100 | 4054 006 |
| M12x1 | 18 | 100 | 4054 007 |
| M12x1 | 20 | 100 | 4054 008 |
| M12x1 | 22 | 100 | 4054 009 |
| M12x1 | 24 | 100 | 4054 010 |

Punte per cavitrici per eseguire asola e foro, attacco filettato internamente Z2.
Drills for making only holes and slots with threaded shank Z2.
 Mèches pour mortaiser et percer avec queue filetée Z2.
Schafffräser mit Gewindschaft Z2.

Brocas para ranurar y realizar fori-combi y agujeros con mango con rosca interna Z2.

Con taglienti in HM / With cutting edge in HM

| Att. | d | D | L | LT | ID nr. DX |
|-------|----|----|----|-----|-----------------|
| M12x1 | 10 | 18 | 62 | 155 | 4055 001 |
| M12x1 | 10 | 20 | 62 | 155 | 4055 002 |
| M12x1 | 10 | 22 | 62 | 155 | 4055 003 |
| M12x1 | 11 | 19 | 62 | 155 | 4055 004 |
| M12x1 | 11 | 22 | 62 | 155 | 4055 005 |
| M12x1 | 12 | 19 | 62 | 155 | 4055 006 |
| M12x1 | 12 | 24 | 62 | 155 | 4055 007 |

Con taglienti in KSS / With cutting edge in KSS

| Att. | d | D | L | LT | ID nr. DX |
|-------|----|----|----|-----|-----------------|
| M12x1 | 10 | 18 | 62 | 155 | 4055 008 |
| M12x1 | 10 | 20 | 62 | 155 | 4055 009 |
| M12x1 | 10 | 22 | 62 | 155 | 4055 010 |
| M12x1 | 11 | 19 | 62 | 155 | 4055 011 |
| M12x1 | 11 | 22 | 62 | 155 | 4055 012 |
| M12x1 | 12 | 19 | 62 | 155 | 4055 013 |
| M12x1 | 12 | 24 | 62 | 155 | 4055 014 |

Punte per anuba.

Drills for anuba.

Mèches pour fiches anuba.

Bohrer für anuba bänder.

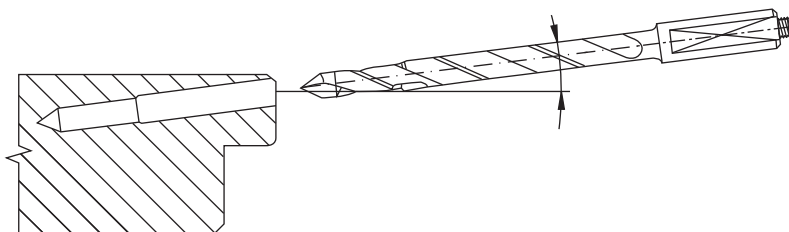
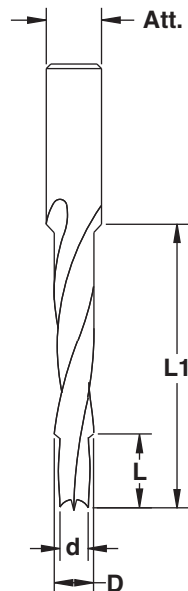
Brocas para anuba.

4056

| Att. | ANUBA | d | D | L | L1 | ID nr. DX |
|---------|-------|-----|-----|----|----|-----------------|
| Ø10x35* | 9 | 3,8 | 5 | 20 | 40 | 4056 001 |
| Ø10x35* | 11 | 4,2 | 5,7 | 20 | 45 | 4056 002 |
| Ø10x35* | 13 | 5,2 | 6,5 | 15 | 40 | 4056 003 |
| Ø10x35* | 14 | 5,5 | 7 | 15 | 55 | 4056 004 |
| Ø10x35* | 16 | 6 | 7,7 | 15 | 60 | 4056 005 |
| Ø10x35* | 18 | 6,5 | 8,2 | 20 | 70 | 4056 006 |
| Ø10x35* | 20 | 7,2 | 8,7 | 20 | 80 | 4056 007 |

*Con pianetto

*With driving flat



MAN



Caratteristiche

Punta da montare su macchina anubatrice per sede anuba.

Characteristics

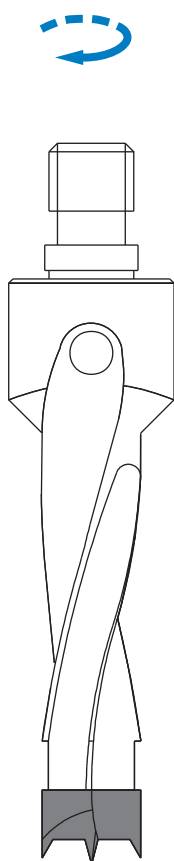
Drill to be mounted on boring machines for anuba holes.

Dati necessari per le ordinazioni

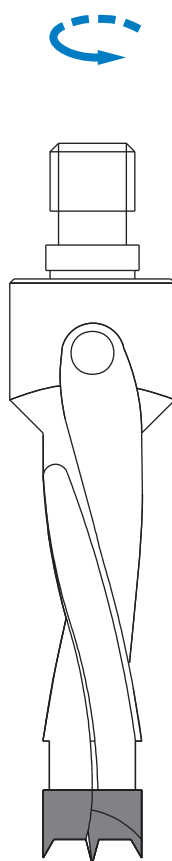
- Numero dell'articolo
- Diametro
- Attacco
- Senso di rotazione
- Materiale da lavorare

Order details to be specified

- Article number
- Diameter
- Type of shank
- Rotation
- Material to be worked



ROTAZIONE DESTRA
Right hand rotation



ROTAZIONE SINISTRA
Left hand rotation

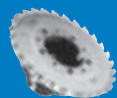


Evolved**Experience**



Utensili in Diamante Diamond Line

Utensili in Diamante Diamond Line



Truciolatori
Hogging sets

P 327



Lame incisori
Scoring sawblades

P 331



Lame universali
Universal sawblades

P 335



Lame per sezionatrici
Panel sizing sawblades

P 337



Frese regolabili per canali
Adjustable cutters for grooving

P 343



Gruppi per spianare
Flatter units

P 349



Frese bordatrici
Cutterheads for edge banding

P 353



Utensili per post-pre forming
Post-pre forming tools

P 362



Frese per pantografo a forare e contornare
Boring and bordering cutters for routers

P 371



Punte levanodi
Knot removing bits

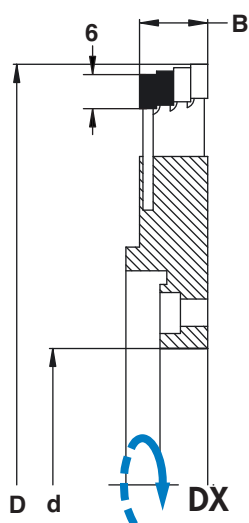
P 380

Truciolatori a settori dentati (con i primi due denti in diamante) senza lama.
Hogging sets with sector gears (two teeth in diamond) without sawblade.
 Dechiqueteurs à secteurs dentés (premier deux dents en diamant) sans lame.
Besänzspanner (erste zwei Zähne aus Diamant) ohne Säge.
 Desmenuzador con segmentos con dientes (los primeros dos dientes en diamante) pero sin sierra.

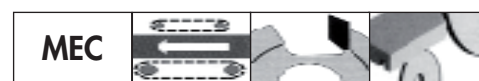
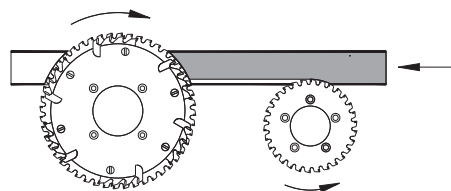
5001

| D | B | d | N° Settori | ID nr. DX | ID nr. SX |
|-----|----|----|------------|-----------------|-----------------|
| 250 | 18 | 80 | 6 | 5001 003 | 5001 004 |
| | | | | | |

Prezzo lama e mozzo esclusi
 Price for sawblade and sleeve not included



ESEMPIO DI LAVORAZIONE



Caratteristiche

Truciolatori portalama a settori dentati Z4 (2 in Diamante, 2 in HM) da montare su mozzo.
 Come ricambio vengono forniti settori con 2÷4 denti in Diamante per una maggiore durata di taglio.
 Altezza diamante 6mm.

Characteristics

Hogging set for sawblades with sector gears Z4 (2 in Diamond and 2 in HM) for assembling on sleeve.
 The spare parts are sectors with 2÷4 teeth in diamond for a longer life.
 Diamond height 6mm.

RICAMBI

LAME IN DIAMANTE/DIAMOND SAWBLADES

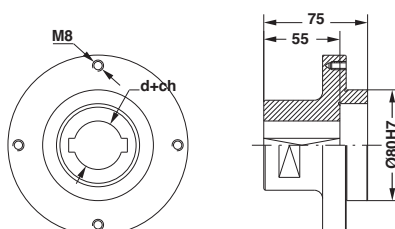
| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|-----|-------|----|-----------------|-----------------|
| 250 | 4,1 | 100+6 | 48 | 5001 061 | 5001 062 |
| 250 | 4,1 | 100+6 | 60 | 5001 063 | 5001 064 |
| 250 | 4,1 | 100+6 | 72 | 5001 065 | 5001 066 |
| | | | | | |

SETTORI IN DIAMANTE/DIAMOND SECTORS

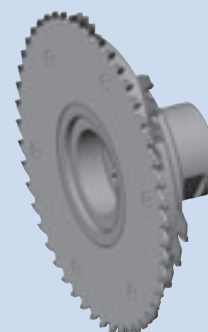
| Z | N° Denti in DIAMANTE | N° Denti in HM | ID nr. DX | ID nr. SX |
|---|----------------------|----------------|-----------------|-----------------|
| 4 | 2 | 2 | 5001 101 | 5001 102 |
| 4 | 4 | - | 5001 103 | 5001 104 |
| | | | | |

MOZZO PORTA TRUCIOLATORE SLEEVE FOR HOGGING UNIT

| d+ch | ID nr. |
|------|-----------------|
| 35+2 | 5001 201 |
| 40+2 | 5001 202 |
| | |



ESEMPIO DI MONTAGGIO



5069

Truciolatori piani ad alto rendimento a corpo unico.
Flat hogging units in one body with high efficiency.
Plat dechiqueteus en un corps à haut rendement.
Flach Zerspänner in eine Korper Hochleistung.
Desmenzador plano con cuerpo único perdurable.



| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|----|-------|-----------------|-----------------|
| 250 | 16 | 80 | 30+30 | 5069 001 | 5069 002 |
| | | | | | |

MEC

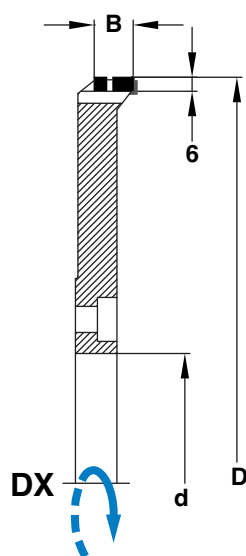


Caratteristiche

Truciolatori piani da montare su mozzo
Fisso, Regolabile, Hydro Grip.
Vedi ART. 5045 - 5047.
Altezza diamante 6mm.

Characteristics

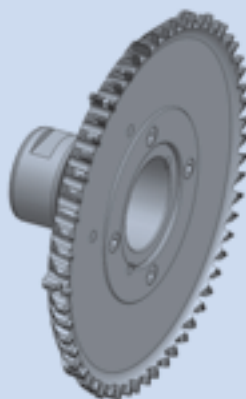
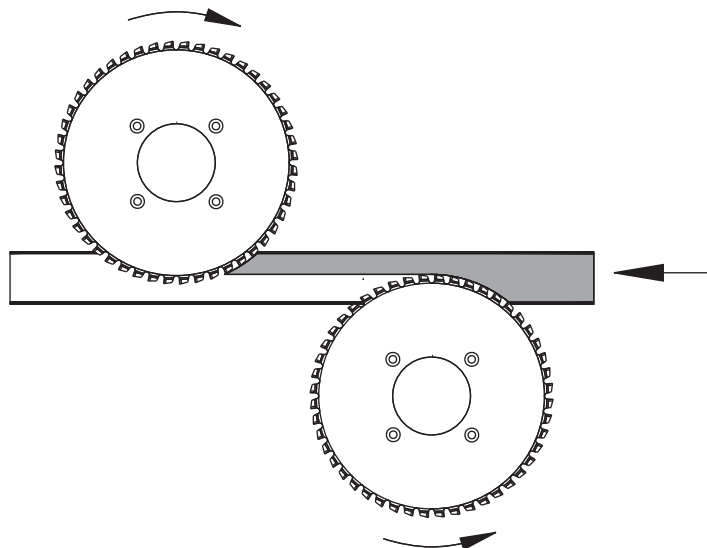
Sides round hogging units for assembling
on Fixed, Adjustable or Hydro Grip sleeve.
See ART. 5045 - 5047.
Diamond height 6mm.



ESEMPIO DI MONTAGGIO



ESEMPIO DI LAVORAZIONE

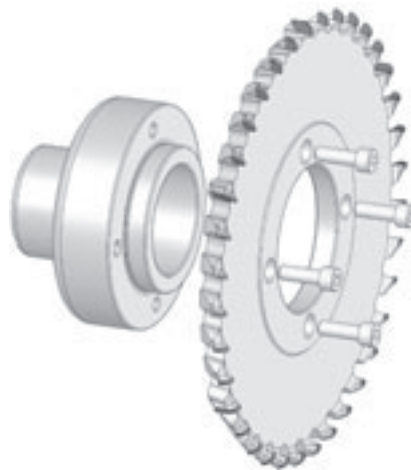
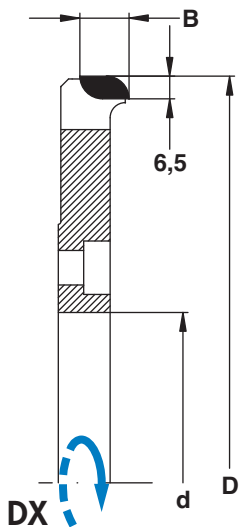


Truciolatori raggiati ad alto rendimento a corpo unico.
Sides round hogging units in one body with high efficiency.
 Arrondit dechiqueteus en un corps à haut rendement.
Radiussschneiden Zerspanner in eine Korpe Hochleistung.
 Desmenzador con rayas y cuerpo único perdurable.

5002

| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|----|------|-----------------|-----------------|
| 215 | 13 | 80 | 20+4 | 5002 001 | 5002 002 |
| 215 | 13 | 80 | 28+4 | 5002 003 | 5002 004 |
| 215 | 13 | 80 | 36+6 | 5002 005 | 5002 006 |

ESEMPIO DI MONTAGGIO



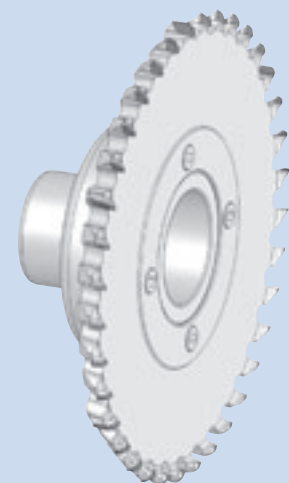
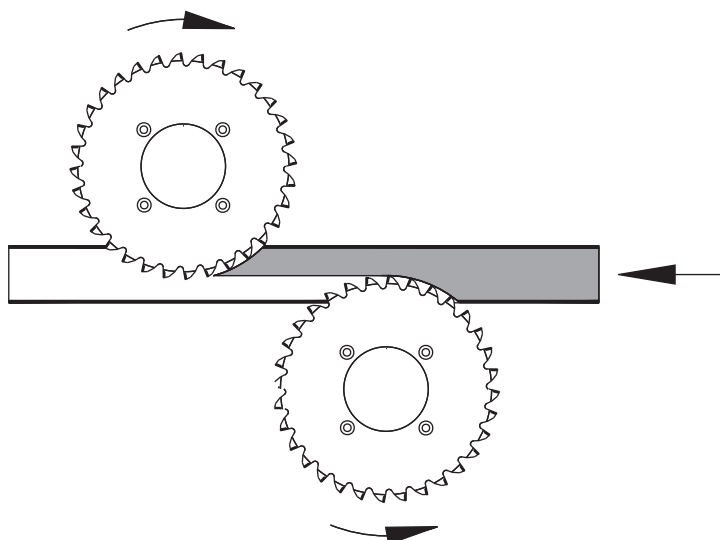
Caratteristiche

Truciolatori raggiati da montare su mozzo Fisso, Regolabile, Hydro Grip.
 Vedi ART. 5045 - 5047.
 Altezza diamante 6,5mm.

Characteristics

Sides round hogging units for assembling on Fixed, Adjustable or Hydro Grip sleeve.
 See ART. 5045 - 5047.
 Diamond height 6,5mm.

ESEMPIO DI LAVORAZIONE



5003

Truciolatori piani ad alto rendimento a corpo unico.
Flat hogging units in one body with high efficiency.
 Plat dechiqueteus en un corps à haut rendement.
Flach Zerspanner in eine Körper Hochleistung.
 Desmenzador plano con cuerpo único perdurable.



| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|------|----|------|-----------------|-----------------|
| 215 | 12,5 | 80 | 36+6 | 5003 051 | 5003 052 |
| 215 | 12,5 | 80 | 48+6 | 5003 053 | 5003 054 |
| 250 | 12,5 | 80 | 36+6 | 5003 055 | 5003 056 |
| 250 | 12,5 | 80 | 48+6 | 5003 057 | 5003 058 |
| 250 | 12,5 | 80 | 60+6 | 5003 059 | 5003 060 |

MEC

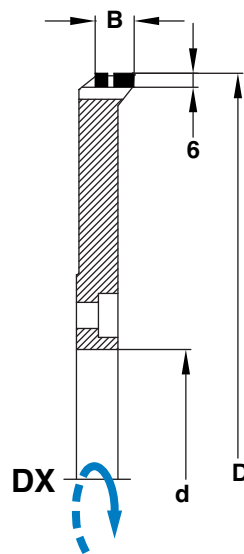


Caratteristiche

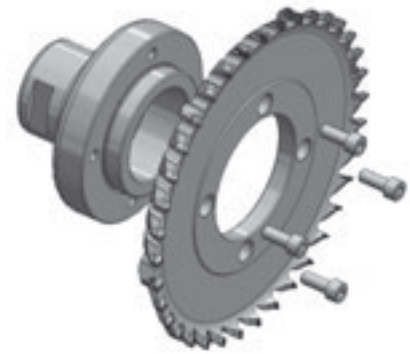
Truciolatori piani da montare su mozzo
 Fisso, Regolabile, Hydro Grip.
 Vedi ART. 5045 - 5047.
 Altezza diamante 6mm.

Characteristics

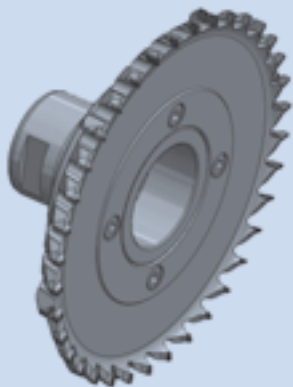
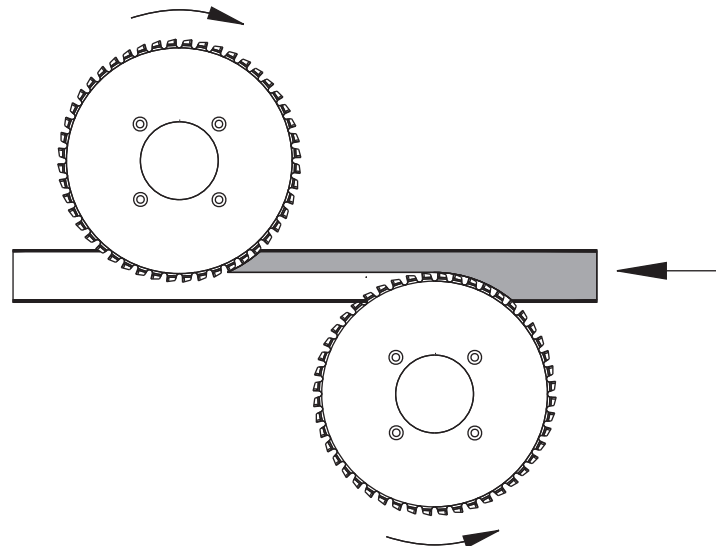
Sides round hogging units for assembling
 on Fixed, Adjustable or Hydro Grip sleeve.
 See ART. 5045 - 5047.
 Diamond height 6mm.



ESEMPIO DI MONTAGGIO



ESEMPIO DI LAVORAZIONE



Incisori per squadratrici.

Scoring blades for squaring machines.

Inciseuses pour machines à équarrir.

Vorschneid Kreissägeblatt für Kantenmaschinen.

Incisores para escuadradoras.

5004

| D | B | b | d | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|----|----|---------|-----------------|-----------------|
| 150 | 3,2 | 2,2 | 55 | 24 | 10 | 5004 019 | 5004 020 |
| 150 | 3,2 | 2,2 | 60 | 24 | 10 | 5004 021 | 5004 022 |
| 150 | 3,2 | 2,2 | 55 | 30 | 10 | 5004 023 | 5004 024 |
| 150 | 3,2 | 2,2 | 60 | 30 | 10 | 5004 025 | 5004 026 |
| 150 | 3,2 | 2,2 | 55 | 36 | 10 | 5004 027 | 5004 028 |
| 150 | 3,2 | 2,2 | 60 | 36 | 10 | 5004 053 | 5004 054 |
| 180 | 3,2 | 2,2 | 55 | 30 | 10 | 5004 029 | 5004 030 |
| 180 | 3,2 | 2,2 | 60 | 30 | 10 | 5004 031 | 5004 032 |
| 180 | 3,2 | 2,2 | 55 | 36 | 10 | 5004 033 | 5004 034 |
| 180 | 3,2 | 2,2 | 60 | 36 | 10 | 5004 035 | 5004 036 |
| 180 | 3,2 | 2,2 | 55 | 42 | 10 | 5004 037 | 5004 038 |
| 180 | 3,2 | 2,2 | 60 | 42 | 10 | 5004 039 | 5004 040 |
| 200 | 3,2 | 2,2 | 55 | 30 | 10 | 5004 041 | 5004 042 |
| 200 | 3,2 | 2,2 | 60 | 30 | 10 | 5004 043 | 5004 044 |
| 200 | 3,2 | 2,2 | 55 | 36 | 10 | 5004 045 | 5004 046 |
| 200 | 3,2 | 2,2 | 60 | 36 | 10 | 5004 047 | 5004 048 |
| 200 | 3,2 | 2,2 | 55 | 48 | 10 | 5004 049 | 5004 050 |
| 200 | 3,2 | 2,2 | 60 | 48 | 10 | 5004 051 | 5004 052 |



Caratteristiche

Incisori per squadratrici a dente unilaterale con smusso, per eseguire l'incisione di pannelli rivestiti.

Altezza diamante 6mm.

A richiesta montate su mozzo ART. 5046.

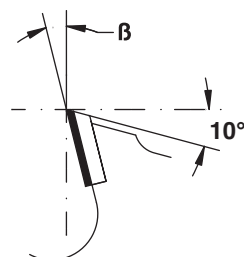
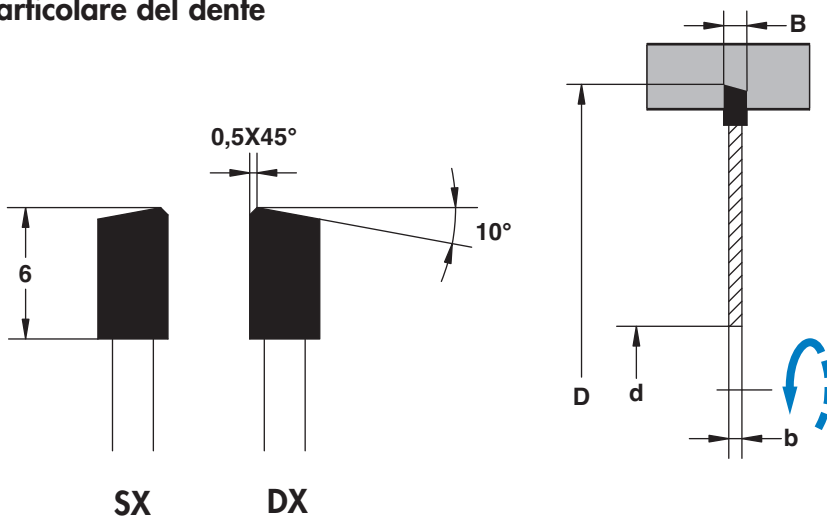
Characteristics

Scoring blades with unilateral teeth with bevel, for making the cut on coated panels.

Diamond height 6mm.

On request set on sleeve ART. 5046.

Particolare del dente



5006



MEC

Caratteristiche

Incisori per sezionatrici a dente conico, per eseguire l'incisione di pannelli rivestiti con materiale plastico o altro.
Altezza diamante 6mm.

Characteristics

Scoring blades with conical teeth, for making the cut on panels coated with plastic material and more.
Diamond height 6mm.

* Vedi "Tabella di riferimento per sezionatrici" pagg. 338-339.

* See "Reference table for panel saws" pages 338-339.

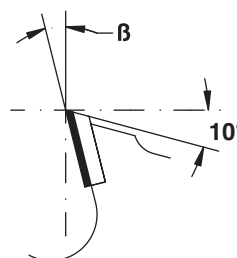
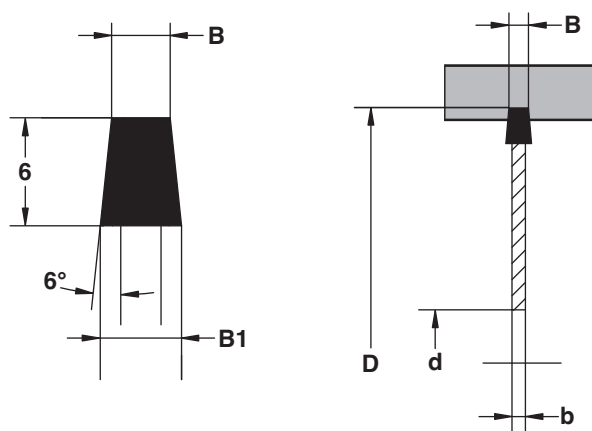
Per forature PH vedi "Disegni di riferimento per forature" pagg. 340-341.

PH holes see "Reference drawings for standard pin holes" pages 340-341.

Incisori conici per sezionatrici.
Conical scoring blades for panel sizing.
Inciseuses coniques pour débit des panneaux.
Konisch Vorschneid Kreissägeblatt.
Incisores cónicos para seccionadoras.

| D | B/B1 | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|---------|-----|----|----|-----------|----|---|-----------------|
| 80 | 3,2/4,4 | 2,2 | 20 | - | Casadei | 12 | 6 | 5006 001 |
| 80 | 3,2/4,4 | 2,2 | 22 | - | - | 12 | 6 | 5006 016 |
| 90 | 3,2/4,4 | 2,2 | 20 | - | - | 12 | 6 | 5006 002 |
| 90 | 3,2/4,4 | 2,2 | 22 | - | - | 12 | 6 | 5006 017 |
| 100 | 3,2/4,4 | 2,2 | 20 | - | Schelling | 20 | 6 | 5006 003 |
| 100 | 3,2/4,4 | 2,2 | 22 | - | - | 20 | 6 | 5006 018 |
| 115 | 3,2/4,4 | 2,2 | 20 | - | - | 24 | 6 | 5006 004 |
| 120 | 3,2/4,4 | 2,2 | 20 | - | - | 24 | 6 | 5006 005 |
| 120 | 3,2/4,4 | 2,2 | 22 | - | - | 24 | 6 | 5006 019 |
| 125 | 3,2/4,4 | 2,2 | 20 | - | Panhans | 24 | 6 | 5006 020 |
| 125 | 3,2/4,4 | 2,2 | 22 | - | Martin | 24 | 6 | 5006 021 |
| 120 | 3,5/4,7 | 2,2 | 20 | - | SCM | 24 | 6 | 5006 045 |
| 125 | 3,5/4,7 | 2,2 | 20 | - | - | 24 | 6 | 5006 006 |
| 150 | 3,5/4,7 | 2,2 | 30 | - | - | 24 | 6 | 5006 009 |
| 150 | 3,5/4,7 | 2,2 | 30 | - | - | 30 | 6 | 5006 011 |

Particolare del dente



Incisori conici per sezionatrici.

Conical scoring blades for panel sizing.

Inciseuses coniques pour debit des panneaux.

Konisch Vorschneid Kreissägeblatt.

Incisores cónicos para seccionadoras.

5006



| D | B/B1 | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|---------|-----|----|------|-------------------|----|---------|-----------------|
| 125 | 4,4/5,6 | 3,2 | 20 | - | Panhans-Schelling | 24 | 6 | 5006 007 |
| 125 | 4,4/5,6 | 3,2 | 45 | 3 | Giben-Homag | 24 | 6 | 5006 022 |
| 150 | 4,4/5,6 | 3,2 | 30 | - | SCM | 24 | 6 | 5006 010 |
| 150 | 4,4/5,6 | 3,2 | 30 | - | SCM | 30 | 6 | 5006 012 |
| 150 | 4,4/5,6 | 3,2 | 45 | 4 | Euromac | 36 | 6 | 5006 023 |
| 160 | 4,4/5,6 | 3,2 | 45 | 3 | Giben | 36 | 6 | 5006 013 |
| 160 | 4,4/5,6 | 3,2 | 55 | 3+3 | Gabbiani-MacMazza | 36 | 6 | 5006 024 |
| 180 | 4,4/5,6 | 3,2 | 30 | - | Panhans | 36 | 6 | 5006 025 |
| 180 | 4,4/5,6 | 3,2 | 45 | - | Holzma | 36 | 6 | 5006 026 |
| 180 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 36 | 6 | 5006 027 |
| 180 | 4,4/5,6 | 3,2 | 55 | 3 | Gabbiani | 36 | 6 | 5006 028 |
| 200 | 4,4/5,6 | 3,2 | 20 | - | Schelling | 36 | 6 | 5006 014 |
| 200 | 4,4/5,6 | 3,2 | 30 | - | Scheer | 36 | 6 | 5006 029 |
| 200 | 4,4/5,6 | 3,2 | 45 | - | - | 36 | 6 | 5006 030 |
| 200 | 4,4/5,6 | 3,2 | 65 | PH05 | Selco | 36 | 6 | 5006 031 |
| 200 | 4,4/5,6 | 3,2 | 80 | 2 | Gabbiani | 36 | 6 | 5006 032 |
| 215 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 42 | 6 | 5006 015 |
| 280 | 4,4/5,6 | 3,2 | 55 | 3 | MacMazza | 40 | 6 | 5006 033 |
| 300 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 48 | 6 | 5006 034 |
| 300 | 4,4/5,6 | 3,2 | 65 | PH05 | Selco | 48 | 6 | 5006 035 |
| 300 | 4,4/5,6 | 3,2 | 80 | 2 | Gabbiani | 48 | 6 | 5006 036 |
| 300 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 72 | 6 | 5006 037 |
| 300 | 4,4/5,6 | 3,2 | 65 | PH05 | Selco | 72 | 6 | 5006 038 |
| 300 | 4,4/5,6 | 3,2 | 80 | 2 | Gabbiani | 72 | 6 | 5006 039 |
| | | | | | | | | |
| 180 | 4,8/6,0 | 3,5 | 45 | - | Holzma | 36 | 6 | 5006 040 |
| 200 | 4,8/6,0 | 3,5 | 45 | - | Holzma | 36 | 6 | 5006 041 |
| | | | | | | | | |
| 180 | 5,2/6,4 | 3,5 | 55 | 3 | Gabbiani | 36 | 6 | 5006 042 |
| 200 | 5,2/6,4 | 3,5 | 65 | PH05 | Selco | 36 | 6 | 5006 043 |
| | | | | | | | | |
| 200 | 5,8/7,0 | 4,0 | 45 | - | Holzma | 36 | 6 | 5006 044 |



Caratteristiche

Incisori per sezionatrici a dente conico, per eseguire l'incisione di pannelli rivestiti con materiale plastico o altro.
Altezza diamante 6mm.

Characteristics

Scoring blades with conical theet, for making the cut on panels coated with plastic material and more.
Diamond height 6mm.

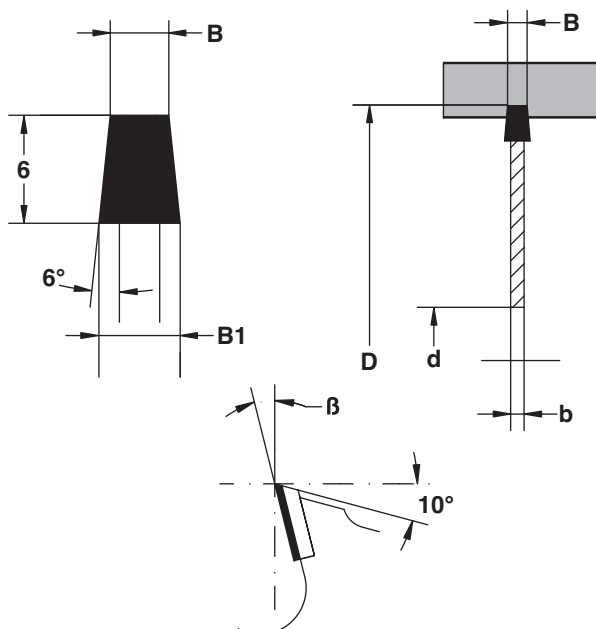
* Vedi "Tabella di riferimento per sezionatrici" pagg. 338-339.

* See "Reference table for panel saws" pages 338-339.

Per forature PH vedi "Disegni di riferimento per forature" pagg. 340-341

PH holes see "Reference drawings for standard pin holes" pages 340-341.

Particolare del dente



5008

Incisori doppi regolabili completi di distanziali.

Adjustable double scoring blades complete with spacing collars.

Lames descie incisiveuses doubles avec des bagues épaisées.

Kreissägeblätter zweiteilig mit Abstandsringe.

Incisores dobles regulables completos de anillos distanciadores.



MEC

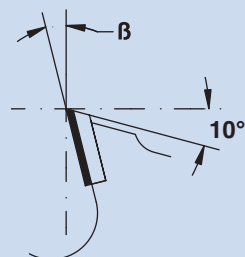
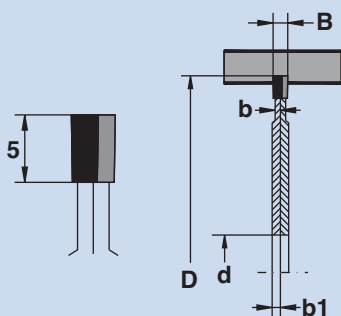
Caratteristiche

Incisori per sezionatrici a spessore variabile mediante distanziali con dente piano, per eseguire l'incisione di pannelli rivestiti con materiale plastico o altro. Altezza diamante 5mm.

Characteristics

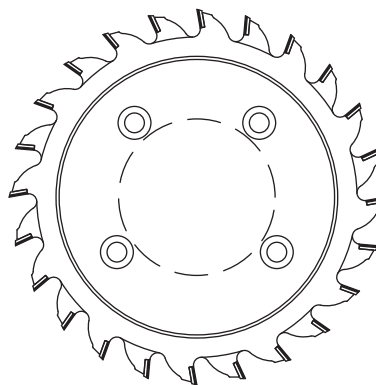
Adjustable double scoring blades complete with spacing collars and flat teeth, to cut panels coated by plastic material and more. Diamond height 5mm.

Particolare del dente

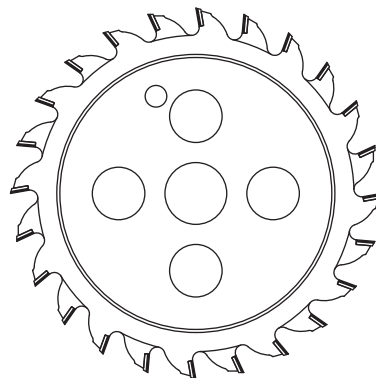


| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|-----|---------|---------|----|----|--------------------|-------|----|-----------------|
| 70 | 2,8÷3,6 | 1,1/2,2 | 20 | - | PUTSH-MENICONI | 9+9 | 10 | 5008 017 |
| 80 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Felder | 12+12 | 10 | 5008 001 |
| 90 | 2,8÷3,6 | 1,1/2,2 | 20 | - | - | 12+12 | 10 | 5008 002 |
| 100 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Panhans-Schelling | 12+12 | 10 | 5008 003 |
| 100 | 2,8÷3,6 | 1,1/2,2 | 22 | - | Altendorf-Striebig | 12+12 | 10 | 5008 009 |
| 110 | 2,8÷3,6 | 1,1/2,2 | 20 | - | GMC | 12+12 | 10 | 5008 010 |
| 120 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Holz Her-SCM | 12+12 | 10 | 5008 004 |
| 120 | 2,8÷3,6 | 1,1/2,2 | 22 | - | Altendorf-Martin | 12+12 | 10 | 5008 011 |
| 125 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Paoloni | 12+12 | 10 | 5008 005 |
| 125 | 2,8÷3,6 | 1,1/2,2 | 22 | - | - | 12+12 | 10 | 5008 014 |
| 125 | 3,8÷4,6 | 1,4/2,2 | 20 | - | - | 12+12 | 10 | 5008 006 |
| 180 | 4,4÷5,6 | 1,8/2,2 | 45 | - | Holzma | 20+20 | 10 | 5008 015 |
| 200 | 4,3÷5,2 | 1,8/2,2 | 20 | - | - | 30+30 | 10 | 5008 007 |
| 250 | 4,2÷5,2 | 1,6/2,2 | 30 | - | Casadei | 36+36 | 10 | 5008 008 |
| 250 | 4,2÷5,2 | 1,6/2,2 | 50 | - | Giben | 36+36 | 10 | 5008 016 |

| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|------|---------|---------|----|----|--------------------------|-------|----|-----------------|
| 120* | 2,8÷3,6 | 1,1/2,2 | 50 | 4 | Altendorf-SCM GRIGGIO | 12+12 | 10 | 5008 012 |



| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|------|---------|---------|----|-----|----------|-------|----|-----------------|
| 125* | 4,0÷4,7 | 1,6/2,2 | 20 | 4+1 | Paoloni | 20+20 | 10 | 5008 013 |



*La regolazione dello spessore viene fatta in macchina, senza l'uso di anelli distanziali
*Thickness adjustment controlled by the machines, no spacers required

Lame circolari universali.
Universal circular sawblades.
 Lames circulares universelles.
Universal Kreissägeblatt.
 Discos de sierra universales.

5010

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|---------|-----------------|
| 200 | 3,2 | 2,2 | 30 | PH03 | 24 | 10 | 5010 001 |
| 200 | 3,2 | 2,2 | 30 | PH03 | 36 | 10 | 5010 002 |
| 200 | 3,2 | 2,2 | 30 | PH03 | 48 | 10 | 5010 003 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 36 | 10 | 5010 004 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 48 | 10 | 5010 005 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | 10 | 5010 006 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 48 | 10 | 5010 007 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 60 | 10 | 5010 008 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | 10 | 5010 009 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 84 | 10 | 5010 010 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 54 | 10 | 5010 011 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 72 | 10 | 5010 012 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | 10 | 5010 013 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 96 | 10 | 5010 014 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 60 | 10 | 5010 015 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 72 | 10 | 5010 016 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 84 | 10 | 5010 017 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 96 | 10 | 5010 018 |



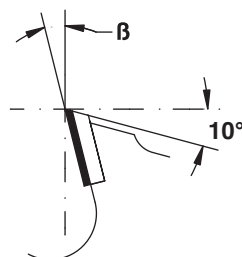
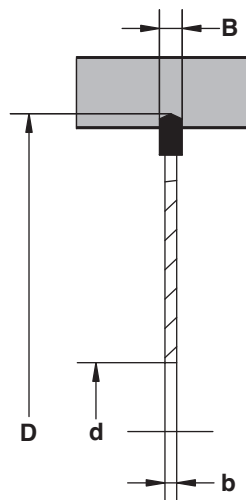
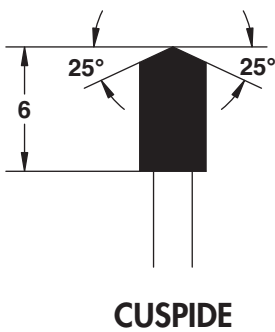
Caratteristiche

Lame universali a dente cuspidato, per eseguire il taglio di pannelli disposti in pacco o singolarmente, grezzi o rivestiti con materiale plastico o altro.
 Altezza diamante 6mm.

Characteristics

Universal sawblades with inverted V theet, for cutting raw and coated panels even on stacks.
 Diamond height 6mm.

Particolare del dente



Per forature PH vedi "Disegni di riferimento per forature" pagg. 340-341.
 PH holes see "Reference drawings for standard pin holes" pages 340-341.

5012



MEC

Caratteristiche

Lame per sezionatrici con dente TP, per eseguire il taglio di pannelli disposti in pacco o singolarmente, grezzi o rivestiti con materiale plastico o altro.
Altezza diamante 6mm.

Characteristics

Sawblades with TP, for cutting raw and coated panels even on stacks.
Diamond height 6mm.

* Vedi "Tabella di riferimento per sezionatrici" pagg. 338-339.

* See "Reference table for panel saws" pages 338-339.

Per forature PH vedi "Disegni di riferimento per forature" pagg. 340-341.

PH holes see "Reference drawings for standard pin holes" pages 340-341.

Lame circolari per sezionatrici.
Circular sawblades for panel sizing.
Lames circulaires pour debit des panneaux.
Kreissägeblatt für Vorschneid.
Discos de sierra universales.

| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|----|------|----------|----|----|-----------------|
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 48 | 14 | 5012 001 |
| 300 | 4,4 | 3,0 | 65 | PH05 | Selco | 48 | 14 | 5012 019 |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 48 | 14 | 5012 020 |
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 60 | 14 | 5012 002 |
| 300 | 4,4 | 3,0 | 65 | PH05 | Selco | 60 | 14 | 5012 021 |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 60 | 14 | 5012 022 |
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 72 | 14 | 5012 003 |
| 300 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 14 | 5012 023 |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 5012 024 |
| 320 | 4,4 | 3,0 | 65 | PH05 | Selco | 60 | 14 | 5012 025 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 54 | 14 | 5012 004 |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 54 | 14 | 5012 026 |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 54 | 14 | 5012 027 |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 54 | 14 | 5012 028 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 14 | 5012 029 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 5012 005 |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 72 | 14 | 5012 030 |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 72 | 14 | 5012 031 |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 5012 032 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 5012 033 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 84 | 14 | 5012 006 |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 84 | 14 | 5012 034 |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 84 | 14 | 5012 035 |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 84 | 14 | 5012 036 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 84 | 14 | 5012 037 |
| 360 | 4,4 | 3,0 | 65 | PH05 | Selco | 54 | 14 | 5012 038 |
| 360 | 4,4 | 3,0 | 75 | PH02 | * | 54 | 14 | 5012 039 |
| 360 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 14 | 5012 040 |
| 360 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 5012 041 |
| 380 | 4,4 | 3,0 | 30 | PH03 | * | 54 | 14 | 5012 042 |
| 380 | 4,4 | 3,0 | 50 | 4 | Giben | 54 | 14 | 5012 043 |
| 380 | 4,4 | 3,0 | 60 | PH04 | Holzma | 54 | 14 | 5012 044 |
| 380 | 4,4 | 3,0 | 75 | PH02 | * | 54 | 14 | 5012 045 |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 14 | 5012 046 |
| 380 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 5012 047 |
| 380 | 4,4 | 3,0 | 50 | 4 | Giben | 72 | 14 | 5012 048 |
| 380 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 5012 049 |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 5012 050 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 60 | 14 | 5012 008 |
| 400 | 4,4 | 3,2 | 60 | PH04 | Holzma | 60 | 14 | 5012 051 |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 60 | 14 | 5012 052 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 14 | 5012 053 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 14 | 5012 009 |
| 400 | 4,4 | 3,2 | 60 | PH04 | Holzma | 72 | 14 | 5012 054 |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 14 | 5012 055 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 14 | 5012 056 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 84 | 14 | 5012 010 |
| 400 | 4,4 | 3,2 | 60 | PH04 | Holzma | 84 | 14 | 5012 057 |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 84 | 14 | 5012 058 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 84 | 14 | 5012 059 |
| 420 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 14 | 5012 060 |

Lame circolari per sezionatrici.

Circular sawblades for panel sizing.

Lames circulaires pour debit des panneaux.

Kreissägeblatt für Vorschneid.

Discos de sierra universales.

5012



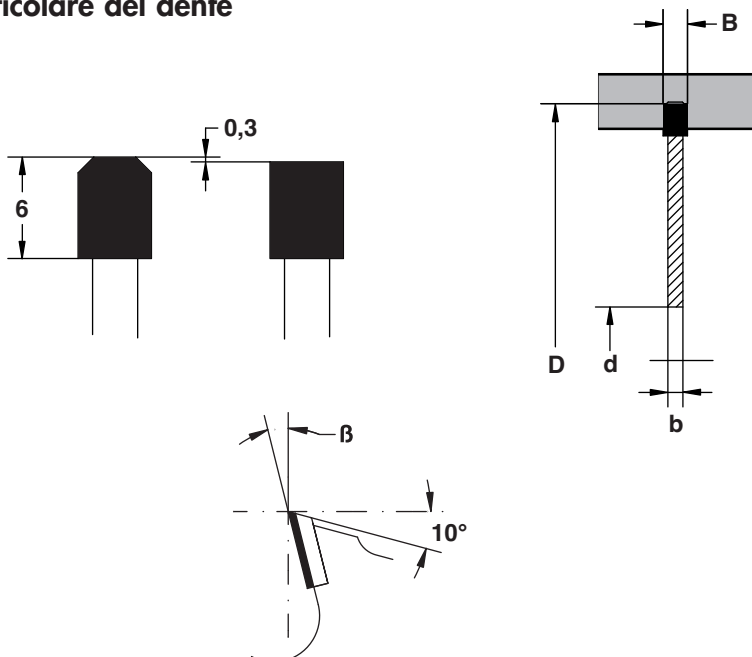
| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|----|------|----------|----|----|-----------------|
| 420 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 14 | 5012 061 |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 54 | 14 | 5012 011 |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 54 | 14 | 5012 062 |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 14 | 5012 012 |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 14 | 5012 063 |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 84 | 14 | 5012 013 |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 84 | 14 | 5012 064 |
| 470 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 14 | 5012 065 |
| 480 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 14 | 5012 066 |

| | | | | | | | | |
|-----|-----|-----|----|------|----------|----|----|-----------------|
| 380 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 14 | 5012 067 |
| 420 | 4,8 | 3,5 | 60 | PH04 | Holzma | 60 | 14 | 5012 068 |
| 420 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 14 | 5012 069 |
| 450 | 4,8 | 3,5 | 60 | PH04 | Holzma | 54 | 14 | 5012 070 |
| 450 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 14 | 5012 071 |
| 450 | 4,8 | 3,5 | 60 | PH04 | Holzma | 84 | 14 | 5012 072 |
| 500 | 4,8 | 3,5 | 30 | PH03 | * | 60 | 14 | 5012 014 |
| 500 | 4,8 | 3,5 | 60 | PH04 | Holzma | 60 | 14 | 5012 073 |
| 500 | 4,8 | 3,5 | 80 | PH01 | * | 60 | 14 | 5012 074 |
| 500 | 4,8 | 3,5 | 30 | 2 | Gabbiani | 72 | 14 | 5012 015 |
| 500 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 14 | 5012 075 |
| 500 | 4,8 | 3,5 | 80 | PH01 | * | 72 | 14 | 5012 076 |
| 500 | 4,8 | 3,5 | 30 | 2 | Gabbiani | 84 | 14 | 5012 016 |
| 500 | 4,8 | 3,5 | 60 | PH04 | Holzma | 84 | 14 | 5012 077 |
| 500 | 4,8 | 3,5 | 80 | PH01 | * | 84 | 14 | 5012 078 |

| | | | | | | | | |
|-----|-----|-----|-----|------|-------|----|----|-----------------|
| 480 | 5,2 | 3,5 | 80 | PH01 | * | 72 | 14 | 5012 082 |
| 550 | 5,2 | 3,5 | 80 | PH01 | * | 72 | 14 | 5012 017 |
| 565 | 5,2 | 3,5 | 100 | - | Giben | 48 | 14 | 5012 079 |
| 565 | 5,2 | 3,5 | 100 | - | Giben | 72 | 14 | 5012 018 |
| 570 | 5,2 | 3,5 | 100 | - | Giben | 48 | 14 | 5012 080 |

| | | | | | | | | |
|-----|-----|-----|----|------|--------|----|----|-----------------|
| 600 | 5,8 | 4,0 | 60 | PH04 | Holzma | 60 | 14 | 5012 081 |
|-----|-----|-----|----|------|--------|----|----|-----------------|

Particolare del dente



MEC



Caratteristiche

Lame per sezionatrici con dente TP, per eseguire il taglio di pannelli disposti in pacco o singolarmente, grezzi o rivestiti con materiale plastico o altro.
Altezza diamante 6mm.

Characteristics

Sawblades with TP, for cutting raw and coated panels even on stacks.
Diamond height 6mm.

* Vedi "Tabella di riferimento per sezionatrici" pagg. 338-339.

* See "Reference table for panel saws" pages 338-339.

Per forature PH vedi "Disegni di riferimento per forature" pagg. 340-341.

PH holes see "Reference drawings for standard pin holes" pages 340-341.

TABELLA DI RIFERIMENTO PER SEZIONATRICI/REFERENCE TABLE FOR PANEL SAWS

LAMA/MAIN BLADE

INCISORE/SCORING BLADE

CASADEI

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|----|--------|----|-----------------|-----|---------|----|--------|----|-----------------|
| 350 | 4,4 | 30 | - | 54 | 5012 004 | 80 | 3,2/4,4 | 20 | - | 12 | 5006 001 |
| 350 | 4,4 | 30 | - | 72 | 5012 005 | 125 | 4,4/5,6 | 20 | - | 24 | 5006 007 |
| 350 | 4,4 | 30 | - | 84 | 5012 006 | | | | | | |

EUROMAC

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|------|--------|----|-----------------|-----|---------|------|------------|----|-----------------|
| 350 | 4,4 | 75+2 | 11-100 | 72 | 5012 032 | 150 | 4,4/5,6 | 45+4 | 9-58/11-70 | 36 | 5006 023 |
| 400 | 4,4 | 75+2 | 11-100 | 60 | 5012 052 | | | | | | |

GABBIANI

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|------|-----------|----|-----------------|-----|---------|--------|--------|----|-----------------|
| 300 | 4,4 | 30+2 | 7-82 | 48 | 5012 001 | 160 | 4,4/5,6 | 55+3+3 | 7-66 | 36 | 5006 024 |
| 300 | 4,4 | 30+2 | 7-82 | 72 | 5012 003 | 200 | 4,4/5,6 | 80+2 | 14-110 | 36 | 5006 032 |
| 300 | 4,4 | 80+2 | 14-110 | 48 | 5012 020 | | | | | | |
| 300 | 4,4 | 80+2 | 14-110 | 72 | 5012 024 | | | | | | |
| 380 | 4,4 | 80+2 | 14-110 | 72 | 5012 050 | | | | | | |
| 350 | 4,4 | 80+8 | | 54 | 5012 029 | | | | | | |
| 350 | 4,4 | 80+8 | | 72 | 5012 033 | | | | | | |
| 380 | 4,4 | 80+8 | | 54 | 5012 046 | | | | | | |
| 400 | 4,4 | 80+8 | | 60 | 5012 053 | | | | | | |
| 400 | 4,4 | 80+8 | 2/7-110 | 72 | 5012 056 | | | | | | |
| 420 | 4,4 | 80+8 | 2/14-110 | 60 | 5012 060 | | | | | | |
| 450 | 4,4 | 80+8 | 4/8,5-100 | 72 | 5012 063 | | | | | | |
| 480 | 4,4 | 80+8 | | 72 | 5012 066 | | | | | | |
| 500 | 4,8 | 80+8 | | 60 | 5012 074 | | | | | | |
| 500 | 4,8 | 80+8 | | 72 | 5012 076 | | | | | | |
| 550 | 5,2 | 80+8 | | 72 | 5012 017 | | | | | | |

GIBEN

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|------|--------|----|-----------------|-----|---------|------|--------|----|-----------------|
| 350 | 4,4 | 75+4 | 15-105 | 54 | 5012 028 | 125 | 4,4/5,6 | 45+3 | 11-70 | 24 | 5006 022 |
| 350 | 4,4 | 75+4 | 15-105 | 72 | 5012 032 | 160 | 4,4/5,6 | 45+3 | 11-70 | 36 | 5006 013 |
| 400 | 4,4 | 75+4 | 15-105 | 60 | 5012 052 | 215 | 4,4/5,6 | 50+3 | 15-80 | 42 | 5006 015 |
| 400 | 4,4 | 75+4 | 15-105 | 72 | 5012 055 | 300 | 4,4/5,6 | 50+3 | 15-80 | 72 | 5006 037 |
| 470 | 4,4 | 75+4 | 15-105 | 72 | 5012 065 | | | | | | |
| 565 | 5,2 | 100 | - | 48 | 5012 079 | | | | | | |
| 570 | 5,2 | 100 | - | 48 | 5012 080 | | | | | | |

TABELLA DI RIFERIMENTO PER SEZIONATRICI/REFERENCE TABLE FOR PANEL SAWS

LAMA/MAIN BLADE

INCISORE/SCORING BLADE

HOLZMA

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|--------|-------------------|----|-----------------|-----|---------|----|--------|----|-----------------|
| 350 | 4,4 | 60+2 | 14-100 | 54 | 5012 026 | 180 | 4,4/5,6 | 45 | - | 36 | 5006 026 |
| 380 | 4,4 | 60+2 | 14-100 | 54 | 5012 044 | 180 | 4,8/6,0 | 45 | - | 36 | 5006 040 |
| 400 | 4,4 | 60 | - | 60 | 5012 051 | 200 | 4,8/6,0 | 45 | - | 36 | 5006 041 |
| 420 | 4,8 | 60 | - | 72 | 5012 069 | 200 | 5,8/7,0 | 45 | - | 36 | 5006 044 |
| 450 | 4,8 | 60+2 | 14-125 | 72 | 5012 071 | | | | | | |
| 500 | 4,8 | 60+2 | 11-115 | 60 | 5012 073 | | | | | | |
| 600 | 5,8 | 60+2+2 | 2/11-115 2/19-120 | 60 | 5012 081 | | | | | | |

MACMAZZA

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|--------|--------------------|----|-----------------|-----|---------|--------|--------|----|-----------------|
| 350 | 4,4 | 75+3+3 | 3/7-120 3/7-100 | 54 | 5012 027 | 160 | 4,4/5,6 | 55+3+3 | 6-84 | 36 | 5006 024 |
| 350 | 4,4 | 75+3+3 | | 72 | 5012 031 | 280 | 4,4/5,6 | 55+3 | 6-84 | 40 | 5006 033 |
| 350 | 4,4 | 75+3+3 | | 84 | 5012 035 | | | | | | |

SCHELLING

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|----|--------|----|-----------------|-----|---------|----|--------|----|-----------------|
| 350 | 4,4 | 30 | - | 54 | 5012 004 | 100 | 3,2/4,4 | 20 | - | 20 | 5006 003 |
| 350 | 4,4 | 30 | - | 72 | 5012 005 | 125 | 4,4/5,6 | 20 | - | 24 | 5006 007 |
| 380 | 4,4 | 30 | - | 72 | 5012 047 | 200 | 4,4/5,6 | 20 | - | 36 | 5006 014 |
| 400 | 4,4 | 30 | - | 60 | 5012 008 | | | | | | |
| 400 | 4,4 | 30 | - | 72 | 5012 009 | | | | | | |
| 450 | 4,4 | 30 | - | 72 | 5012 012 | | | | | | |
| 500 | 4,8 | 30 | - | 60 | 5012 014 | | | | | | |

SCM

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|------|------------|----|-----------------|-----|---------|--------|--------|----|-----------------|
| 350 | 4,4 | 30 | - | 54 | 5012 004 | 150 | 4,4/5,6 | 30 | - | 30 | 5006 012 |
| 350 | 4,4 | 80+8 | VEDI PREC. | 54 | 5012 029 | 160 | 4,4/5,6 | 55+3+3 | 7-66 | 36 | 5006 024 |
| 350 | 4,4 | 30 | - | 72 | 5012 005 | | | | | | |
| 350 | 4,4 | 80+8 | VEDI PREC. | 72 | 5012 033 | | | | | | |

SELCO

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. | |
|-----|-----|--------|-----------------------|----|-----------------|-----|---------|--------|---------|----|-----------------|--|
| 350 | 4,4 | 80+2+4 | 2/8,5-130 4/19-120 | 72 | 5012 033 | 200 | 4,4/5,6 | 65+2+2 | - | 36 | 5006 031 | |
| 400 | 4,4 | 80+2+4 | | 72 | 5012 056 | 200 | 5,2/6,4 | 65+2+2 | 2/9-100 | 36 | 5006 043 | |
| 450 | 4,4 | 80+2+4 | | 54 | 5012 062 | 300 | 4,4/5,6 | 65+2+2 | 2/9-110 | 72 | 5006 038 | |
| 450 | 4,4 | 80+2+4 | | 72 | 5012 063 | | | | | | | |
| 480 | 5,2 | 80+2+4 | | 72 | 5012 066 | | | | | | | |

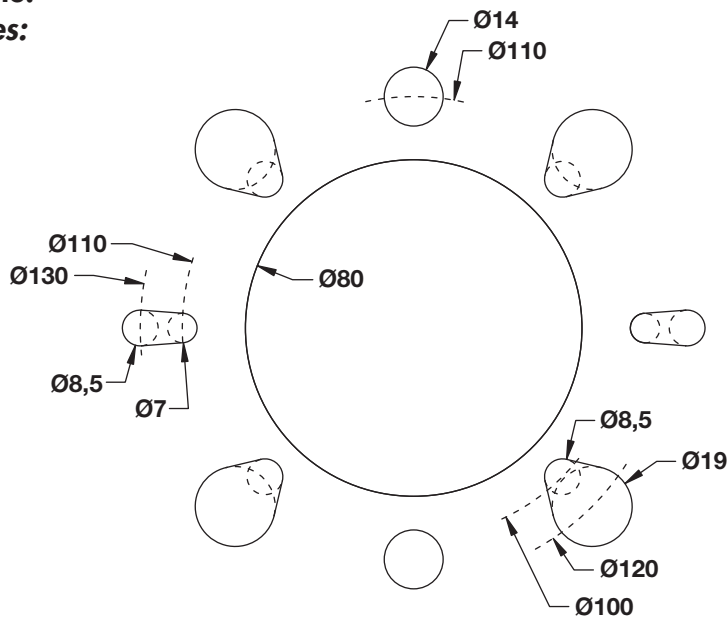
STETON

| D | B | d | Ø-INT. | Z | ID nr. | D | B | d | Ø-INT. | Z | ID nr. |
|-----|-----|----|--------|----|-----------------|-----|---------|----|--------|----|-----------------|
| 350 | 4,4 | 80 | - | 72 | 5012 033 | 150 | 4,4/5,6 | 30 | - | 30 | 5006 012 |
| 400 | 4,4 | 80 | - | 60 | 5012 053 | | | | | | |
| 400 | 4,4 | 80 | - | 72 | 5012 056 | | | | | | |

DISEGNI DI RIFERIMENTO PER FORATURE/REFERENCE DRAWINGS FOR STANDARD PIN HOLES

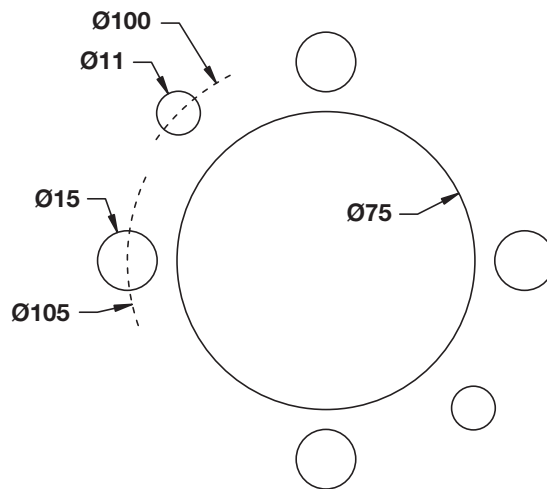
- * PH01 per macchine:
- * *PH01 for machines:*

GABBIANI
SELCO



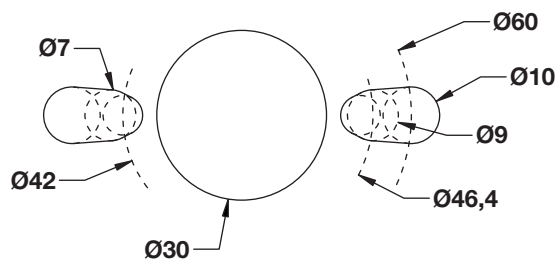
- * PH02 per macchine:
- * *PH02 for machines:*

GIBEN
EUROMAC



- * PH03 per macchine:
- * *PH03 for machines:*

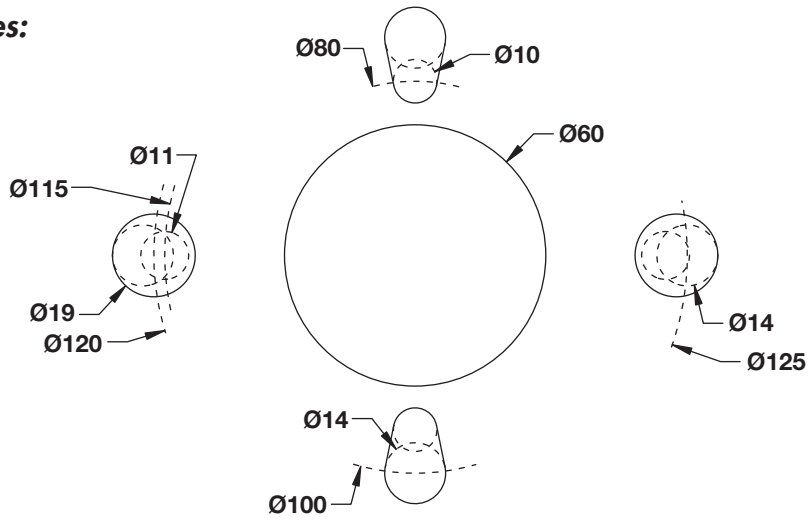
PANHANS
SCM
SCHEER
SCHELLING
CASADEI



DISEGNI DI RIFERIMENTO PER FORATURE/REFERENCE DRAWINGS FOR STANDARD PIN HOLES

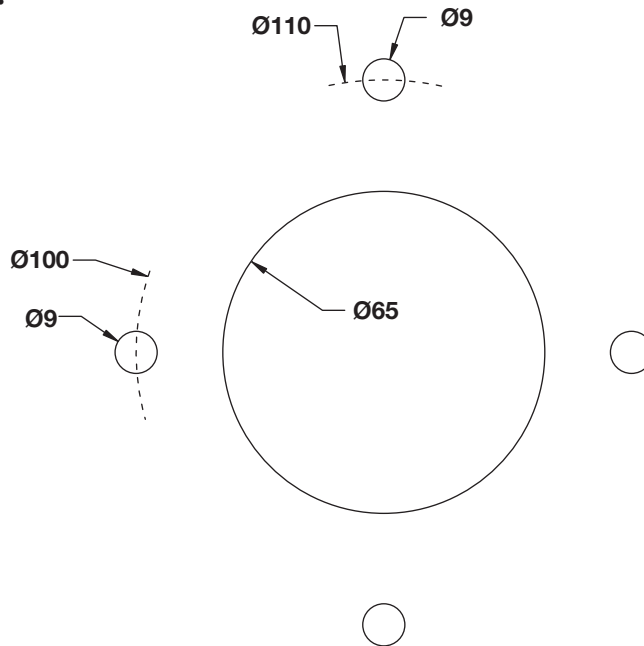
- * PH04 per macchine:
- * *PH04 for machines:*

HOLZMA



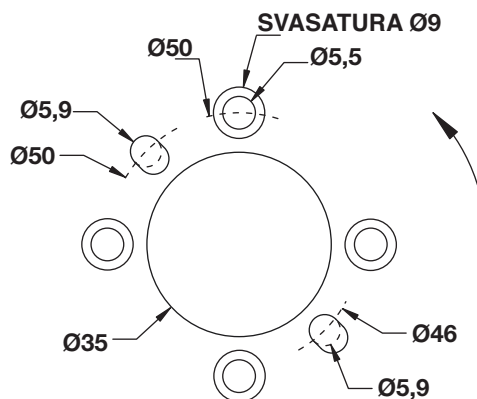
- * PH05 per macchine:
- * *PH05 for machines:*

SELCO



- * PH06 per macchine:
- * *PH06 for machines:*

BIESSE



5014



Caratteristiche

Frese a spessore regolabile mediante anelli distanziali, per macchine squadratrici, bordatrici, toupie.

Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri.

La fresa viene fornita completa di anelli distanziali.

Altezza diamante 6mm.

Characteristics

Grooving cutters with adjustable thickness by spacing collars for edgebander, double-end profiler and toupie machines.

This tool is suitable to realise different thickness of grooves on wood chipboard panels and not, MDF and more.

The cutter is given with rings.

Diamond height 6mm.

Frese per canali a spessore regolabile con anelli.

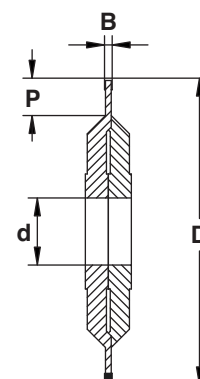
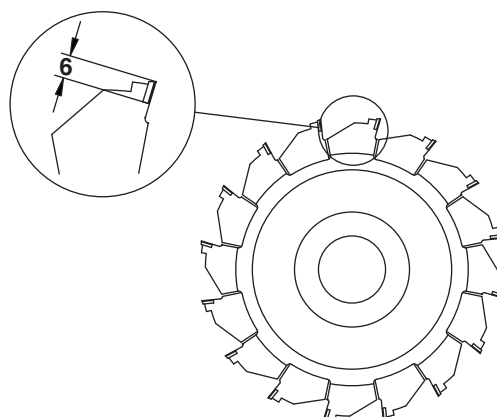
Grooving cutters with adjustable thickness by rings.

Fraises à rainurer avec réglable épaisseur par des anneaux.

Nutfräser mit regelbar Stärke durch Ringen.

Fresas para ranurar con espesor variable por medio de anillos.

| D | B | P | d | Z | ID nr. |
|-----|---------|----|----|-------|-----------------|
| 120 | 3,5÷6,5 | 13 | 30 | 6+6 | 5014 001 |
| 120 | 3,5÷6,5 | 13 | 35 | 6+6 | 5014 019 |
| 120 | 4÷7,5 | 13 | 30 | 6+6 | 5014 002 |
| 120 | 4÷7,5 | 13 | 35 | 6+6 | 5014 020 |
| 120 | 5÷9,5 | 13 | 30 | 6+6 | 5014 003 |
| 120 | 5÷9,5 | 13 | 35 | 6+6 | 5014 021 |
| 150 | 3,5÷6,5 | 15 | 30 | 8+8 | 5014 004 |
| 150 | 3,5÷6,5 | 15 | 35 | 8+8 | 5014 022 |
| 150 | 4÷7,5 | 15 | 30 | 8+8 | 5014 005 |
| 150 | 4÷7,5 | 15 | 30 | 8+8 | 5014 023 |
| 150 | 5÷9,5 | 15 | 30 | 8+8 | 5014 006 |
| 150 | 5÷9,5 | 15 | 35 | 8+8 | 5014 024 |
| 180 | 3,5÷6,5 | 20 | 35 | 8+8 | 5014 007 |
| 180 | 3,5÷6,5 | 20 | 40 | 8+8 | 5014 025 |
| 180 | 4÷7,5 | 20 | 35 | 8+8 | 5014 008 |
| 180 | 4÷7,5 | 20 | 40 | 8+8 | 5014 026 |
| 180 | 5÷9,5 | 20 | 35 | 8+8 | 5014 009 |
| 180 | 5÷9,5 | 20 | 40 | 8+8 | 5014 027 |
| 150 | 3,5÷6,5 | 15 | 30 | 12+12 | 5014 010 |
| 150 | 3,5÷6,5 | 15 | 35 | 12+12 | 5014 028 |
| 150 | 4÷7,5 | 15 | 30 | 12+12 | 5014 011 |
| 150 | 4÷7,5 | 15 | 35 | 12+12 | 5014 029 |
| 150 | 5÷9,5 | 15 | 30 | 12+12 | 5014 012 |
| 150 | 5÷9,5 | 15 | 35 | 12+12 | 5014 030 |
| 180 | 3,5÷6,5 | 20 | 35 | 12+12 | 5014 013 |
| 180 | 3,5÷6,5 | 20 | 40 | 12+12 | 5014 031 |
| 180 | 4÷7,5 | 20 | 35 | 12+12 | 5014 014 |
| 180 | 4÷7,5 | 20 | 40 | 12+12 | 5014 032 |
| 180 | 5÷9,5 | 20 | 35 | 12+12 | 5014 015 |
| 180 | 5÷9,5 | 20 | 40 | 12+12 | 5014 033 |
| 200 | 3,5÷6,5 | 20 | 35 | 12+12 | 5014 016 |
| 200 | 3,5÷6,5 | 20 | 40 | 12+12 | 5014 034 |
| 200 | 4÷7,5 | 20 | 35 | 12+12 | 5014 017 |
| 200 | 4÷7,5 | 20 | 40 | 12+12 | 5014 035 |
| 200 | 5÷9,5 | 20 | 35 | 12+12 | 5014 018 |
| 200 | 5÷9,5 | 20 | 40 | 12+12 | 5014 036 |

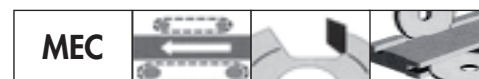


Frese a tazza per canali a spessore regolabile con anelli.
Grooving cutters with adjustable thickness by rings.
 Fraises à rainer avec réglable épaisseur par des anneaux.
Nutfräser mit regelbar Stärke durch Ringen.
 Fresas a taza para ranurar con espesor variable por medio de anillos.

5016



| D | B | P | d | Z | ID nr. DX | ID nr. SX |
|-----|---------|----|----|-------|-----------------|-----------------|
| 120 | 3,5÷6,5 | 13 | 30 | 6+6 | 5016 001 | 5016 002 |
| 120 | 3,5÷6,5 | 13 | 35 | 6+6 | 5016 037 | 5016 038 |
| 120 | 4÷7,5 | 13 | 30 | 6+6 | 5016 003 | 5016 004 |
| 120 | 4÷7,5 | 13 | 35 | 6+6 | 5016 039 | 5016 040 |
| 120 | 5÷9,5 | 13 | 30 | 6+6 | 5016 005 | 5016 006 |
| 120 | 5÷9,5 | 13 | 35 | 6+6 | 5016 041 | 5016 042 |
| 150 | 3,5÷6,5 | 15 | 30 | 8+8 | 5016 007 | 5016 008 |
| 150 | 3,5÷6,5 | 15 | 35 | 8+8 | 5016 043 | 5016 044 |
| 150 | 4÷7,5 | 15 | 30 | 8+8 | 5016 009 | 5016 010 |
| 150 | 4÷7,5 | 15 | 35 | 8+8 | 5016 045 | 5016 046 |
| 150 | 5÷9,5 | 15 | 30 | 8+8 | 5016 011 | 5016 012 |
| 150 | 5÷9,5 | 15 | 35 | 8+8 | 5016 047 | 5016 048 |
| 180 | 3,5÷6,5 | 20 | 35 | 8+8 | 5016 013 | 5016 014 |
| 180 | 3,5÷6,5 | 20 | 40 | 8+8 | 5016 049 | 5016 050 |
| 180 | 4÷7,5 | 20 | 35 | 8+8 | 5016 015 | 5016 016 |
| 180 | 4÷7,5 | 20 | 40 | 8+8 | 5016 051 | 5016 052 |
| 180 | 5÷9,5 | 20 | 35 | 8+8 | 5016 017 | 5016 018 |
| 180 | 5÷9,5 | 20 | 40 | 8+8 | 5016 053 | 5016 054 |
| 150 | 3,5÷6,5 | 15 | 30 | 12+12 | 5016 019 | 5016 020 |
| 150 | 3,5÷6,5 | 15 | 35 | 12+12 | 5016 055 | 5016 056 |
| 150 | 4÷7,5 | 15 | 30 | 12+12 | 5016 021 | 5016 022 |
| 150 | 4÷7,5 | 15 | 35 | 12+12 | 5016 057 | 5016 058 |
| 150 | 5÷9,5 | 15 | 30 | 12+12 | 5016 023 | 5016 024 |
| 150 | 5÷9,5 | 15 | 35 | 12+12 | 5016 059 | 5016 060 |
| 180 | 3,5÷6,5 | 20 | 35 | 12+12 | 5016 025 | 5016 026 |
| 180 | 3,5÷6,5 | 20 | 40 | 12+12 | 5016 061 | 5016 062 |
| 180 | 4÷7,5 | 20 | 35 | 12+12 | 5016 027 | 5016 028 |
| 180 | 4÷7,5 | 20 | 40 | 12+12 | 5016 063 | 5016 064 |
| 180 | 5÷9,5 | 20 | 35 | 12+12 | 5016 029 | 5016 030 |
| 180 | 5÷9,5 | 20 | 40 | 12+12 | 5016 065 | 5016 066 |
| 200 | 3,5÷6,5 | 20 | 35 | 12+12 | 5016 031 | 5016 032 |
| 200 | 3,5÷6,5 | 20 | 40 | 12+12 | 5016 067 | 5016 068 |
| 200 | 4÷7,5 | 20 | 35 | 12+12 | 5016 033 | 5016 034 |
| 200 | 4÷7,5 | 20 | 40 | 12+12 | 5016 069 | 5016 070 |
| 200 | 5÷9,5 | 20 | 35 | 12+12 | 5016 035 | 5016 036 |
| 200 | 5÷9,5 | 20 | 40 | 12+12 | 5016 071 | 5016 072 |



Caratteristiche

Frese a tazza a spessore regolabile mediante anelli distanziali, per macchine squadratrici, bordatrici, toupie.

Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri.

La fresa viene fornita completa di anelli distanziali.

Altezza diamante 6mm.

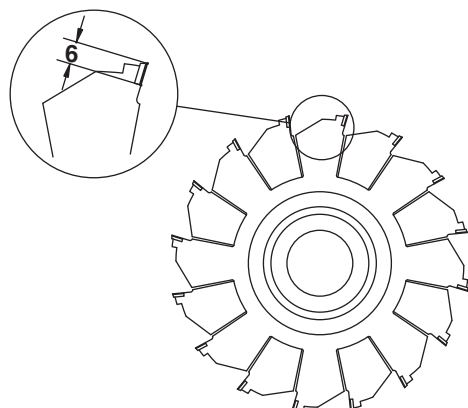
Characteristics

Grooving cutters with adjustable thickness by rings for toupie, edge-banding machines.

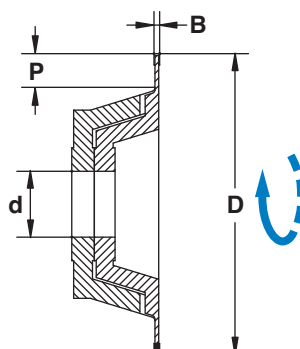
For making the cut of different thickness on panels coated and not, MDF and more.

The cutter is given with rings.

Diamond height 6mm.



DX



5057

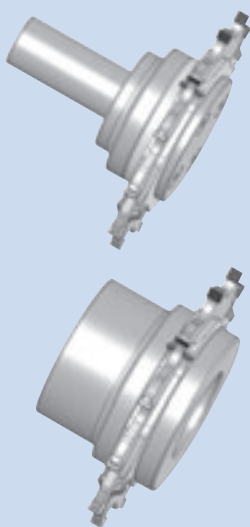


Caratteristiche

Frese a spessore costante per macchine squadratrici, bordatrici, toupie.
Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri.
La fresa può essere abbinata a spigolatori, vedi pagina successiva, e montata su mandrino o su mozzo.
Altezza diamante 6mm.

Characteristics

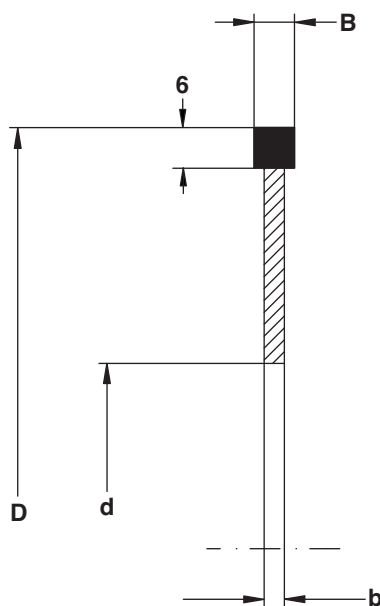
Grooving cutter with constant thickness for edgebander, double-end profiler and toupie machines.
This tool is suitable to realise different thickness of grooves on wood chipboard panel, MDF panel and more. This cutter can be combined with gleaners, see successive page, and assembled on a chuck or a sleeve.
Diamond height 6mm.



Frese per canali a spessore costante.
Grooving cutters with constant thickness.
Fraises à rainier avec épaisseur constant.
Nutfräser mit bätändig Stärke.
Fresas para ranurar con espesor estable.

| D | B | b | d | Z | ID nr. |
|-----|---|-----|----|----|-----------------|
| 125 | 3 | 2 | 55 | 8 | 5057 001 |
| 125 | 4 | 2,5 | 55 | 8 | 5057 002 |
| 125 | 5 | 3 | 55 | 8 | 5057 003 |
| 125 | 6 | 4 | 55 | 8 | 5057 004 |
| 125 | 3 | 2 | 55 | 12 | 5057 005 |
| 125 | 4 | 2,5 | 55 | 12 | 5057 006 |
| 125 | 5 | 3 | 55 | 12 | 5057 007 |
| 125 | 6 | 4 | 55 | 12 | 5057 008 |
| 160 | 3 | 2 | 65 | 12 | 5057 009 |
| 160 | 4 | 2,5 | 65 | 12 | 5057 010 |
| 160 | 5 | 3 | 65 | 12 | 5057 011 |
| 160 | 6 | 4 | 65 | 12 | 5057 012 |
| 160 | 3 | 2 | 65 | 18 | 5057 013 |
| 160 | 4 | 2,5 | 65 | 18 | 5057 014 |
| 160 | 5 | 3 | 65 | 18 | 5057 015 |
| 160 | 6 | 4 | 65 | 18 | 5057 016 |

ESEMPI DI MONTAGGIO



RICAMBI

| | MOZZO | MANDRINO |
|------------|----------------|-----------------|
| Dimensioni | FORO Ø30-35-40 | ATTACCO Ø25x55 |
| ID nr. | 5065 | 5065 051 |

Spigolatori per frese spessore costante.

Gleaners for cutters with constant thickness.

Glaneurs pour fraises avec épaisseur constant.

Hebelkanten für Nutfräser mit bästendig Stärke.

Chaflanadores para fresas para ranurar con espesor estable.

5057

| D | B | b | d | P | Z | ID nr. DX | ID nr. SX |
|-----|---|---|----|----|---|-----------------|-----------------|
| 101 | 4 | 3 | 55 | 12 | 4 | 5057 051 | 5057 052 |
| 101 | 4 | 3 | 55 | 12 | 6 | 5057 053 | 5057 054 |
| 103 | 4 | 3 | 55 | 11 | 4 | 5057 055 | 5057 056 |
| 103 | 4 | 3 | 55 | 11 | 6 | 5057 057 | 5057 058 |
| 105 | 4 | 3 | 55 | 10 | 4 | 5057 059 | 5057 060 |
| 105 | 4 | 3 | 55 | 10 | 6 | 5057 061 | 5057 062 |
| 107 | 4 | 3 | 55 | 9 | 4 | 5057 063 | 5057 064 |
| 107 | 4 | 3 | 55 | 9 | 6 | 5057 065 | 5057 066 |
| 109 | 4 | 3 | 55 | 8 | 4 | 5057 067 | 5057 068 |
| 109 | 4 | 3 | 55 | 8 | 6 | 5057 069 | 5057 070 |
| 111 | 4 | 3 | 55 | 7 | 4 | 5057 071 | 5057 072 |
| 111 | 4 | 3 | 55 | 7 | 6 | 5057 073 | 5057 074 |
| 113 | 4 | 3 | 55 | 6 | 4 | 5057 075 | 5057 076 |
| 113 | 4 | 3 | 55 | 6 | 6 | 5057 077 | 5057 078 |
| 115 | 4 | 3 | 55 | 5 | 4 | 5057 079 | 5057 080 |
| 115 | 4 | 3 | 55 | 5 | 6 | 5057 081 | 5057 082 |
| 136 | 4 | 3 | 65 | 12 | 4 | 5057 083 | 5057 084 |
| 136 | 4 | 3 | 65 | 12 | 6 | 5057 085 | 5057 086 |
| 138 | 4 | 3 | 65 | 11 | 4 | 5057 087 | 5057 088 |
| 138 | 4 | 3 | 65 | 11 | 6 | 5057 089 | 5057 090 |
| 140 | 4 | 3 | 65 | 10 | 4 | 5057 091 | 5057 092 |
| 140 | 4 | 3 | 65 | 10 | 6 | 5057 093 | 5057 094 |
| 142 | 4 | 3 | 65 | 9 | 4 | 5057 095 | 5057 096 |
| 142 | 4 | 3 | 65 | 9 | 6 | 5057 097 | 5057 098 |
| 144 | 4 | 3 | 65 | 8 | 4 | 5057 099 | 5057 100 |
| 144 | 4 | 3 | 65 | 8 | 6 | 5057 101 | 5057 102 |
| 146 | 4 | 3 | 65 | 7 | 4 | 5057 103 | 5057 104 |
| 146 | 4 | 3 | 65 | 7 | 6 | 5057 105 | 5057 106 |
| 148 | 4 | 3 | 65 | 6 | 4 | 5057 107 | 5057 108 |
| 148 | 4 | 3 | 65 | 6 | 6 | 5057 109 | 5057 110 |
| 150 | 4 | 3 | 65 | 5 | 4 | 5057 111 | 5057 112 |
| 150 | 4 | 3 | 65 | 5 | 6 | 5057 113 | 5057 114 |



MEC

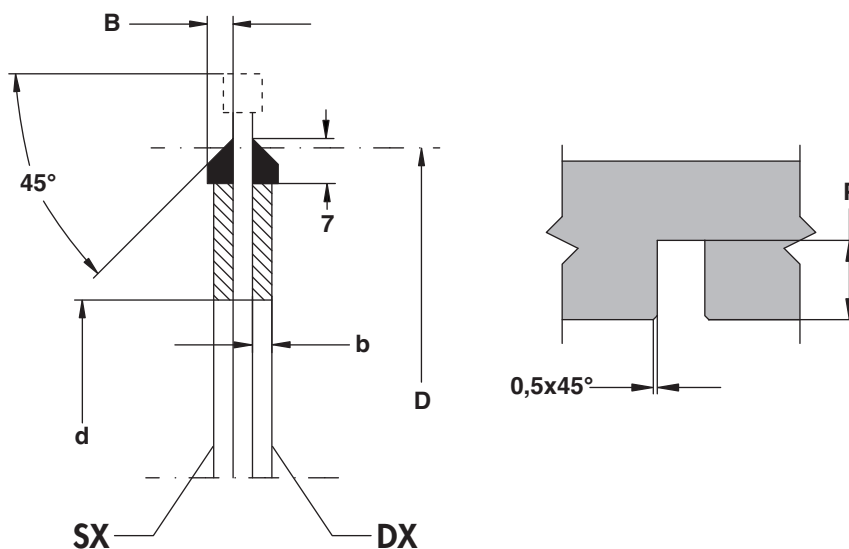


Caratteristiche

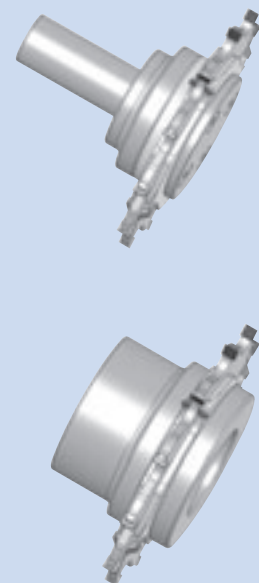
Spigolatori per frese a spessore costante, vedi pagina precedente.
In funzione del diametro della fresa è possibile variare la profondità di spigolatura "P".
Altezza diamante 7mm.

Characteristics

Gleaner for cutters with constant thickness, see previous page.
Depending from the cutter diameter it is possible to change the gleaming depth "P".
Diamond height 7mm.



ESEMPI DI MONTAGGIO



5058



Caratteristiche

Frese a spessore regolabile mediante anelli distanziali, per macchine squadratrici, bordatrici, toupie.

Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri. La fresa viene fornita completa di anelli distanziali, può essere montata su mandrino con attacco Ø25x55 o su mozzo. Altezza diamante 6mm.

Characteristics

Grooving cutters with adjustable thickness by spacing collars for edgebander, double-end profiler and toupie machines.

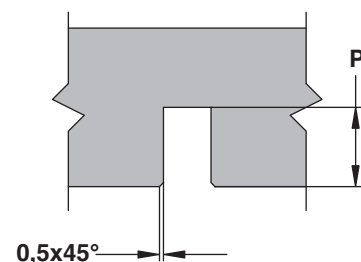
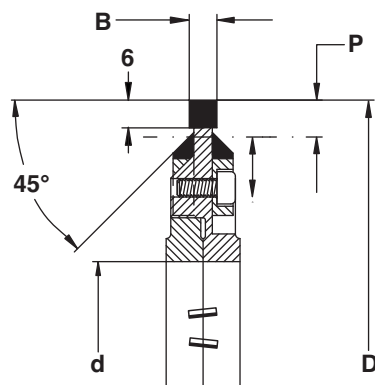
This tool is suitable to realise different thickness of grooves on wood chipboard panel and not, MDF and more.

The complete cutter is supplied with spacing collars and it can be assembled on a chuck with Ø25x55 shank or on a sleeve.

Diamond height 6mm.

Frese per canali a spessore regolabile mediante anelli.
Grooving cutters with adjustable thickness by rings.
 Fraises à rainner avec épaisseur à régler par des anneaux.
Nutfräser mit regelbar Stärke durch Ringen.
 Fresas para ranurar con espesor variable por medios de anillos.

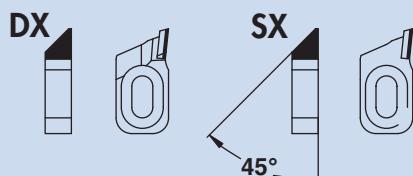
| D | B | d | P | Z | V | ID nr. |
|-----|--------|----|------|-----|-----|-----------------|
| 125 | 3÷5,5 | 55 | 5÷12 | 4+4 | 2+2 | 5058 001 |
| 125 | 4÷7,5 | 55 | 5÷12 | 4+4 | 2+2 | 5058 002 |
| 125 | 5÷9,5 | 55 | 5÷12 | 4+4 | 2+2 | 5058 003 |
| 125 | 6÷11,5 | 55 | 5÷12 | 4+4 | 2+2 | 5058 004 |
| 125 | 3÷5,5 | 55 | 5÷12 | 6+6 | 3+3 | 5058 005 |
| 125 | 4÷7,5 | 55 | 5÷12 | 6+6 | 3+3 | 5058 006 |
| 125 | 5÷9,5 | 55 | 5÷12 | 6+6 | 3+3 | 5058 007 |
| 125 | 6÷11,5 | 55 | 5÷12 | 6+6 | 3+3 | 5058 008 |
| 160 | 3÷5,5 | 65 | 5÷12 | 6+6 | 3+3 | 5058 009 |
| 160 | 4÷7,5 | 65 | 5÷12 | 6+6 | 3+3 | 5058 010 |
| 160 | 5÷9,5 | 65 | 5÷12 | 6+6 | 3+3 | 5058 011 |
| 160 | 6÷11,5 | 65 | 5÷12 | 6+6 | 3+3 | 5058 012 |
| 160 | 3÷5,5 | 65 | 5÷12 | 9+9 | 3+3 | 5058 013 |
| 160 | 4÷7,5 | 65 | 5÷12 | 9+9 | 3+3 | 5058 014 |
| 160 | 5÷9,5 | 65 | 5÷12 | 9+9 | 3+3 | 5058 015 |
| 160 | 6÷11,5 | 65 | 5÷12 | 9+9 | 3+3 | 5058 016 |



ESEMPI DI MONTAGGIO



RICAMBI



| | SPIGOLATORI | VITI | MOZZO | MANDRINO |
|------------|-----------------|-----------------|----------------|-----------------|
| Dimensioni | 20x10x5 | M4x10 | FORO Ø30-35-40 | |
| ID nr. DX | 5058 101 | 9546 028 | 5065 | 5065 051 |
| ID nr. DX | 5058 102 | | | |

Fresa per spianatura per macchine bordatrici SCM-STEFANI.
Cutterheads for edge-banding machines SCM-STEFANI.
 Fraises pour machines à border SCM-STEFANI.
 Messerköpf für Bändermaschine SCM-STEFANI.
 Fresa para aplanar para máquinas canteadoras SCM-STEFANI.

5018a

| D | B | d+ch | Z | ID nr. |
|----|----|------|-----|-----------------|
| 50 | 59 | 16+2 | 3+3 | 5018 051 |
| 50 | 44 | 16+2 | 3+3 | 5018 052 |

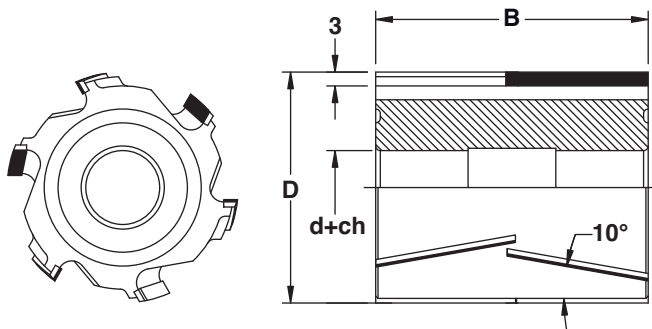


Caratteristiche

Gruppi per spianare a spessore costante per macchine bordatrici SCM-STEFANI.
 Altezza diamante 3mm.

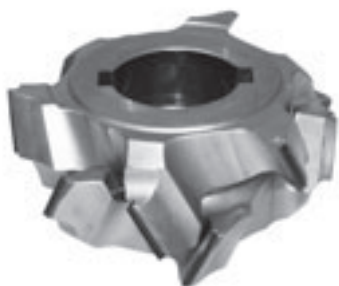
Characteristics

Cutterhead with constant thickness for edge-banding machines SCM-STEFANI.
 Diamond height 3mm.



5019

Gruppi per spianare regolabili tipo ECONOMICO con anelli per bordatrici.
Adjustable flatter set ECONOMIC type with rings for edge-banding machines.
 Jeu réglables dressés type ÉCONOMIQUE avec des anneaux pour machines à border.
Regelbar Block zu ebnet PREISWERT Typ mit Ringen zu Börderlmaschinen.
 Juego de fresas adjustable tipo ECONÓMICO por medio de anillos para aplanar para máquinas canteadoras.



| D | B | d+ch | Z | ID nr. |
|-----|--------|------|-----|-----------------|
| 80 | Max-38 | 30+2 | 6+6 | 5019 001 |
| 80 | Max-48 | 30+2 | 6+6 | 5019 002 |
| 80 | Max-64 | 30+2 | 6+6 | 5019 004 |
| 125 | Max-38 | 30+2 | 6+6 | 5019 005 |
| 125 | Max-48 | 30+2 | 6+6 | 5019 003 |
| 125 | Max-64 | 30+2 | 6+6 | 5019 006 |
| 150 | Max-38 | 30+2 | 6+6 | 5019 007 |
| 150 | Max-48 | 30+2 | 6+6 | 5019 008 |
| 150 | Max-64 | 30+2 | 6+6 | 5019 009 |

MEC



Caratteristiche

Gruppi per spianare a spessore regolabile mediante anelli distanziali, su macchine bordatrici.

Ottima finitura su tutti i materiali, pannelli rivestiti e non.

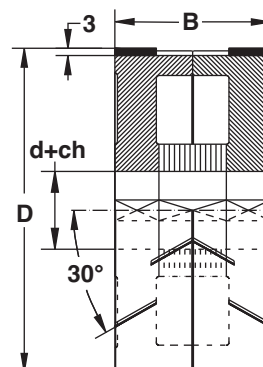
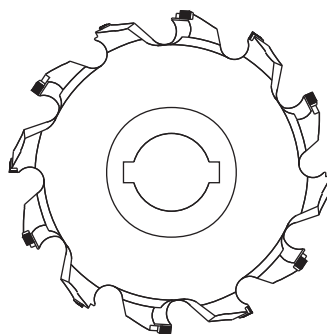
Altezza diamante 3mm.

Characteristics

Adjustable flatter set with rings for edge-banding machines.

Excellent finish on all materials, coated panels and not.

Diamond height 3mm.



Gruppi per spianare regolabili con anelli per macchine squadratrici.

Adjustable flatter set with rings for squaring machines.

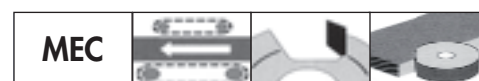
Jeu réglables dressés avec des anneaux pour machines à équarrir.

Regelbar Block zu ebnen mit Ringen zu Kantenmaschinen.

Juego de fresas ajustable por medio de anillos para aplanar para máquinas escuadradoras.

5020

| D | B | d+ch | Z | ID nr. |
|-----|--------|------|-------|-----------------|
| 180 | Max-36 | 35+2 | 8+8 | 5020 007 |
| 180 | Max-36 | 35+2 | 12+12 | 5020 008 |
| 180 | Max-48 | 35+2 | 12+12 | 5020 009 |
| 180 | Max-65 | 35+2 | 12+12 | 5020 015 |
| 180 | Max-36 | 40+2 | 8+8 | 5020 010 |
| 180 | Max-36 | 40+2 | 12+12 | 5020 011 |
| 180 | Max-48 | 40+2 | 12+12 | 5020 012 |
| 180 | Max-65 | 40+2 | 12+12 | 5020 014 |
| | | | | |
| 200 | Max-36 | 35+2 | 8+8 | 5020 001 |
| 200 | Max-36 | 35+2 | 12+12 | 5020 002 |
| 200 | Max-48 | 35+2 | 12+12 | 5020 003 |
| 200 | Max-65 | 35+2 | 12+12 | 5020 016 |
| 200 | Max-36 | 40+2 | 8+8 | 5020 004 |
| 200 | Max-36 | 40+2 | 12+12 | 5020 005 |
| 200 | Max-48 | 40+2 | 12+12 | 5020 006 |
| 200 | Max-65 | 40+2 | 12+12 | 5020 013 |



Caratteristiche

Gruppi per spianare a spessore regolabile mediante anelli distanziali, su macchine squadratrici.

Ottima finitura su tutti i materiali, pannelli rivestiti e non.

Altezza diamante 6mm.

La particolare disposizione delle placchette consente di migliorare l'asportazione e ridurre la rumorosità.

Particolarmente adatta per lavorare ad alte velocità di taglio.

Characteristics

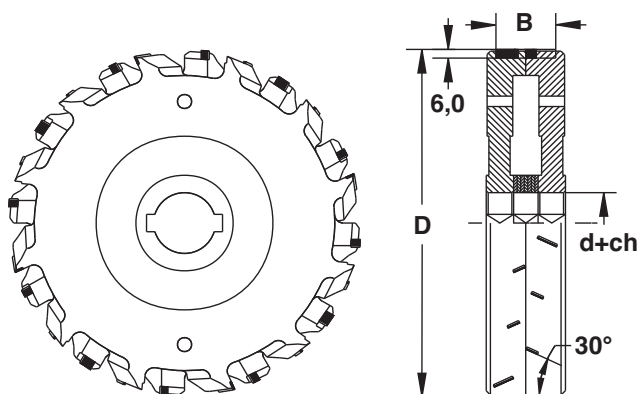
Adjustable flatter set with rings for squaring machines.

Excellent finish on all materials, coated panels and not.

Diamond height 6mm.

The particular position of the cutters reduces the noise and improves the removal of wood.

Excellent for works at high speed.



5020a



Caratteristiche

Gruppi per spianare a spessore regolabile mediante anelli distanziali, su macchine squadratrici.

Ottima finitura su tutti i materiali, pannelli rivestiti e non.

Altezza diamante 6mm.

La particolare disposizione delle placchette consente di migliorare l'asportazione e ridurre la rumorosità.

Particolarmente adatta per lavorare ad alte velocità di taglio.

Characteristics

Adjustable flatter set with rings for squaring machines. Excellent finish on all materials, coated panels and not.

Diamond height 6mm.

The particular position of the cutters reduces the noise and improves the removal of wood. Excellent for works at high speed.

Gruppi per spianare regolabili con anelli per macchine squadratrici.

Adjustable flatter set with rings for squaring machines.

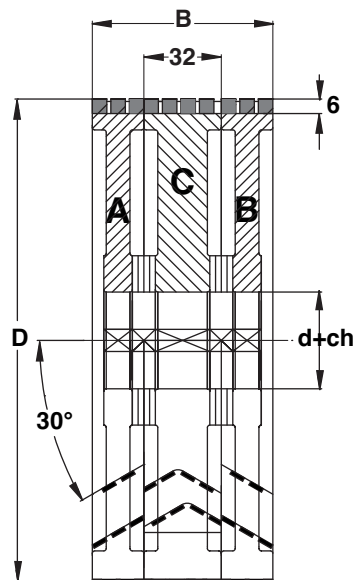
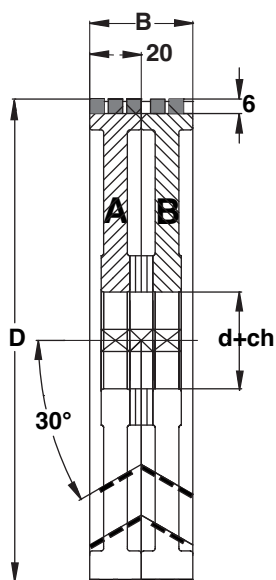
Jeu réglables dressés avec des anneaux pour machines à équarrir.

Regelbar Block zu ebenen mit Ringen zu Kantenmaschinen.

Juego de fresas ajustable por medio de anillos para aplanar para máquinas escuadradoras.

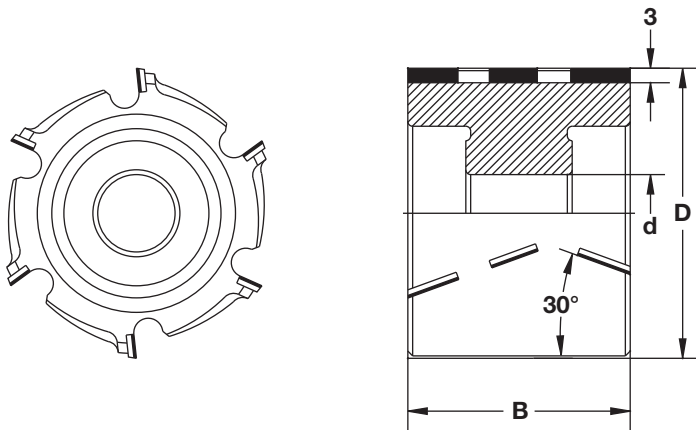
| D | B | Composizione | d+ch | Z | ID nr. |
|-----|--------|--------------|------|-------|-----------------|
| 200 | Max-40 | A+B | 35+2 | 12+12 | 5020 051 |
| 200 | Max-40 | A+B | 40+2 | 12+12 | 5020 052 |
| 200 | Max-72 | A+B+C | 35+2 | 12+12 | 5020 053 |
| 200 | Max-72 | A+B+C | 40+2 | 12+12 | 5020 054 |

| TIPO | D | d+ch | Z | N° Placchette |
|------|-----|---------|----|---------------|
| A | 200 | 35/40+2 | 12 | 30 |
| B | 200 | 35/40+2 | 12 | 30 |
| C | 200 | 35/40+2 | 12 | 48 |



Fresa per spianare per macchine bordatrici BI-MATIC.
Cutterheads for edge-banding machines BI-MATIC.
 Fraises pour machines à border BI-MATIC.
Messerköpf für Bändermaschine BI-MATIC.
 Fresa para aplanar para máquinas canteadoras BI-MATIC.

| D | B | d | Z | ID nr. |
|----|----|----|-----|-----------------|
| 60 | 54 | 16 | 3+3 | 5054 002 |
| | | | | |



5054



Caratteristiche

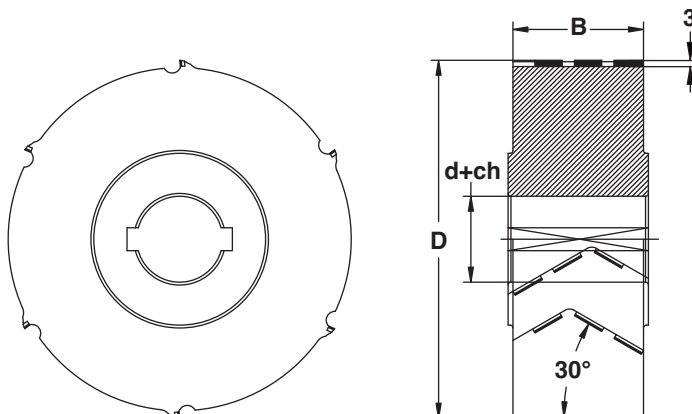
Fresa per spianare a spessore costante per macchine bordatrici BI-MATIC.
 Altezza diamante 3mm.

Characteristics

Cutterhead with constant thickness for edge-banding machines BI-MATIC.
 Diamond height 3mm.

Fresa ambidestra per spianare per macchine bordatrici BIESSE.
Cutterheads ambidextrous for edge-banding machines BIESSE.
 Fraises ambidextre pour machines à border BIESSE.
Messerköpf beidseitig für Bändermaschine BIESSE.
 Fresa ambidestro para aplanar para máquinas canteadoras BIESSE.

| D | B | d+ch | Z | ID nr. |
|-----|----|------|-----|-----------------|
| 125 | 44 | 30+2 | 3+3 | 5056 001 |
| 125 | 65 | 30+2 | 3+3 | 5056 002 |
| | | | | |



5056



Caratteristiche

Fresa per spianare a spessore costante per macchine bordatrici BIESSE.
 Altezza diamante 3mm.

Characteristics

Cutterhead with constant thickness for edge-banding machines BIESSE.
 Diamond height 3mm.

5055

Fresa per spianare per macchine bordatrici.
Cutterheads for edge-banding machines.
 Fraises pour machines à border.
 Messerköpfe für Bördelmaschine.
 Fresa para aplanar para máquinas canteadoras.



| D | B | b | d+ch | Z | Tipo | ID nr. DX | ID nr. SX |
|-----|----|------|------|-----|------|-----------------|-----------------|
| 60 | 52 | 48 | 25+2 | 2+2 | A | 5055 011 | 5055 012 |
| 80 | 48 | 25 | 20+2 | 3+3 | A | 5055 001 | 5055 002 |
| 80 | 65 | 67 | 30+2 | 3+3 | B | 5055 003 | 5055 004 |
| 100 | 48 | 40,5 | 30+2 | 3+3 | C | 5055 005 | 5055 006 |
| 100 | 56 | 58 | 30+2 | 3+3 | B | 5055 007 | 5055 008 |
| 100 | 65 | 67 | 30+2 | 3+3 | B | 5055 009 | 5055 010 |

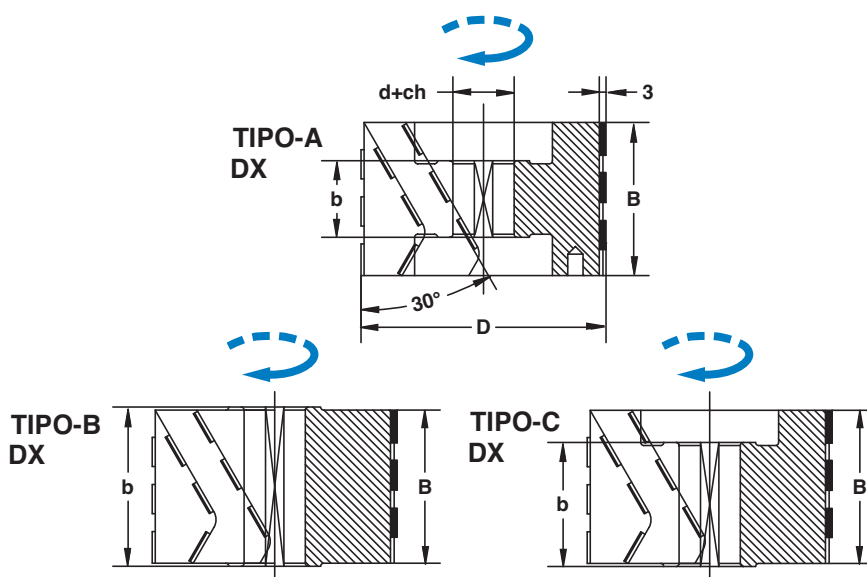


Caratteristiche

Fresa per spianare a spessore costante per macchine bordatrici.
 Altezza diamante 3mm.

Characteristics

Cutterhead with constant thickness for edge-banding machines.
 Diamond height 3mm.



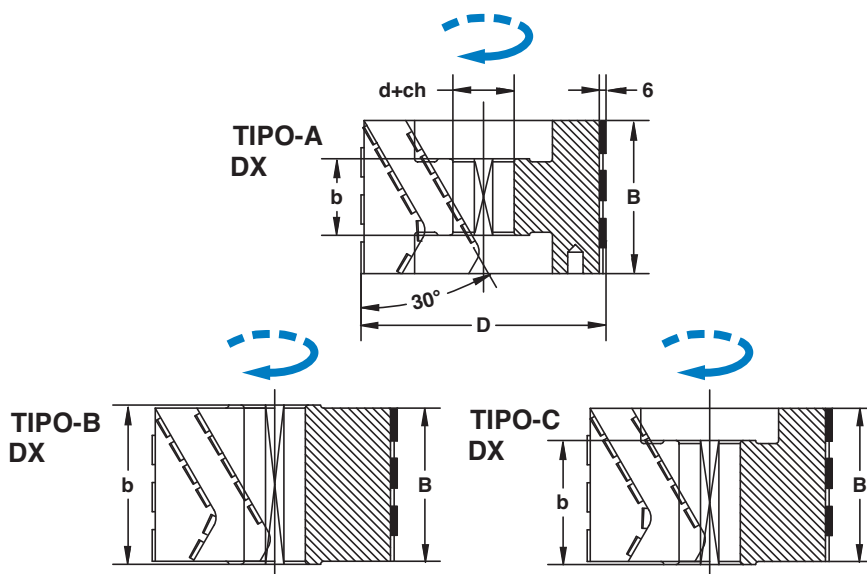
Caratteristiche

Fresa per spianare a spessore costante per macchine bordatrici.
 Particolarmente adatta per lavorare ad alte velocità di taglio.
 Altezza diamante 6 mm.

Characteristics

Cutterhead with constant thickness for edgebanding machines.
 Excellent for works at high speed.
 Diamond height 6mm.

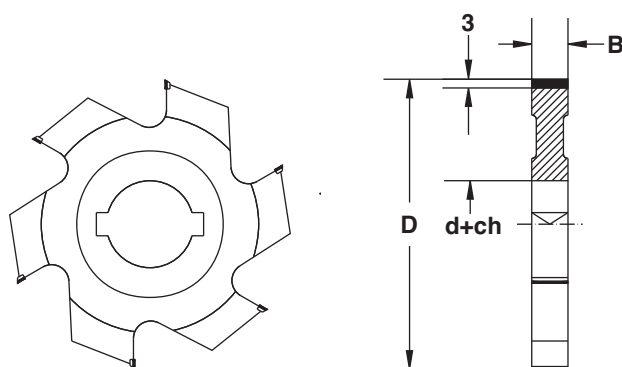
| D | B | b | d | Z | Tipo | ID nr. DX | ID nr. SX |
|-----|----|------|------|-----|------|-----------------|-----------------|
| 80 | 48 | 25 | 20+2 | 3+3 | A | 5055 051 | 5055 052 |
| 80 | 65 | 67 | 30+2 | 3+3 | B | 5055 053 | 5055 054 |
| 100 | 48 | 40,5 | 30+2 | 3+3 | C | 5055 055 | 5055 056 |
| 100 | 56 | 58 | 30+2 | 3+3 | B | 5055 057 | 5055 058 |
| 100 | 65 | 67 | 30+2 | 3+3 | B | 5055 059 | 5055 060 |



Frese per spigolare per macchine bordatrici.
Milling cutters for chanfer on edge-banding machines.
 Fraises pour chaner pour machines à border.
Fräser für stoppeln auf Bördel Maschinen.
 Fresas para contornear para máquinas canteadoras.

5022

| D | B | d+ch | Z | ID nr. |
|----|----|------|---|-----------------|
| 70 | 11 | 16+2 | 4 | 5022 001 |
| 70 | 11 | 20+2 | 4 | 5022 003 |
| 70 | 11 | 16+2 | 6 | 5022 002 |
| 70 | 11 | 20+2 | 6 | 5022 004 |
| 80 | 11 | 16+2 | 4 | 5022 005 |
| 80 | 11 | 20+2 | 4 | 5022 006 |
| 80 | 11 | 16+2 | 6 | 5022 007 |
| 80 | 11 | 20+2 | 6 | 5022 008 |



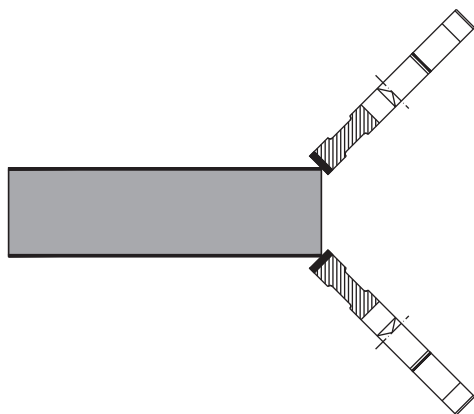
Caratteristiche

Frese per rifilare l'eccedenza del laminato plastico su macchine bordatrici.
 Altezza diamante 3mm.

Characteristics

Cutters for draw out the plastic leaf on edge-banding machines.
 Diamond height 3mm.

ESEMPIO DI LAVORAZIONE



5023



Caratteristiche

Frese a raggiare per macchine bordatrici.
Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
Altezza diamante 3mm.

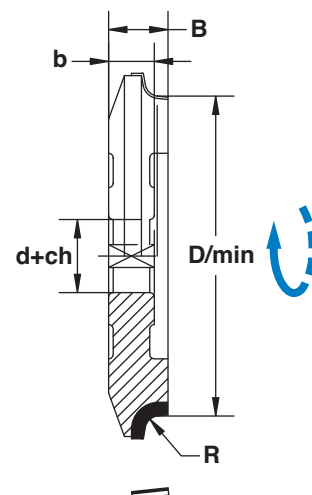
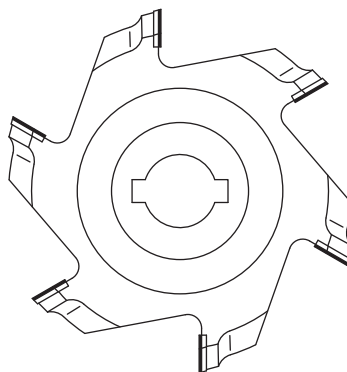
Characteristics

Cutterheads for edge-banding machines with double radius.
For making the edges on chipboard coated panels, MDF and more.
Diamond height 3mm.

Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
Fraises pour machines à border.
Messerköpfe für Bördelmaschine.
Fresas para máquinas canteadoras.

| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|----|------|---|---|----------------|-----------------|-----------------|
| 60 | 13 | 10 | 16+2 | 1 | 6 | SCM-STEFANI | 5023 001 | 5023 002 |
| 60 | 13 | 10 | 16+2 | 2 | 6 | | 5023 003 | 5023 004 |
| 60 | 13 | 10 | 16+2 | 3 | 6 | | 5023 005 | 5023 006 |
| 60 | 13 | 10 | 16+2 | 4 | 6 | | 5023 007 | 5023 008 |
| 60 | 13 | 10 | 16+2 | 5 | 6 | | 5023 009 | 5023 010 |
| 61 | 13 | 10 | 16+2 | 1 | 6 | HOMAG-GABBIANI | 5023 011 | 5023 012 |
| 61 | 13 | 10 | 16+2 | 2 | 6 | | 5023 013 | 5023 014 |
| 61 | 13 | 10 | 16+2 | 3 | 6 | | 5023 015 | 5023 016 |
| 61 | 13 | 10 | 16+2 | 4 | 6 | | 5023 017 | 5023 018 |
| 61 | 13 | 10 | 16+2 | 5 | 6 | | 5023 019 | 5023 020 |
| 61,3 | 13 | 10 | 16+2 | 1 | 6 | SCM | 5023 021 | 5023 022 |
| 61,3 | 13 | 10 | 16+2 | 2 | 6 | | 5023 023 | 5023 024 |
| 61,3 | 13 | 10 | 16+2 | 3 | 6 | | 5023 025 | 5023 026 |
| 61,3 | 13 | 10 | 16+2 | 4 | 6 | | 5023 027 | 5023 028 |
| 61,3 | 13 | 10 | 16+2 | 5 | 6 | | 5023 029 | 5023 030 |
| 70 | 13 | 10 | 16+2 | 1 | 6 | SCM-STEFANI | 5023 031 | 5023 032 |
| 70 | 13 | 10 | 16+2 | 2 | 6 | | 5023 033 | 5023 034 |
| 70 | 13 | 10 | 16+2 | 3 | 6 | | 5023 035 | 5023 036 |
| 70 | 13 | 10 | 16+2 | 4 | 6 | | 5023 037 | 5023 038 |
| 70 | 13 | 10 | 16+2 | 5 | 6 | | 5023 039 | 5023 040 |
| 70 | 14 | 10 | 16+2 | 1 | 6 | SCM-STEFANI | 5023 071 | 5023 072 |
| 70 | 14 | 10 | 16+2 | 2 | 6 | | 5023 073 | 5023 074 |
| 70 | 14 | 10 | 16+2 | 3 | 6 | | 5023 075 | 5023 076 |
| 70 | 14 | 10 | 16+2 | 4 | 6 | | 5023 077 | 5023 078 |
| 70 | 14 | 10 | 16+2 | 5 | 6 | | 5023 079 | 5023 080 |

DX



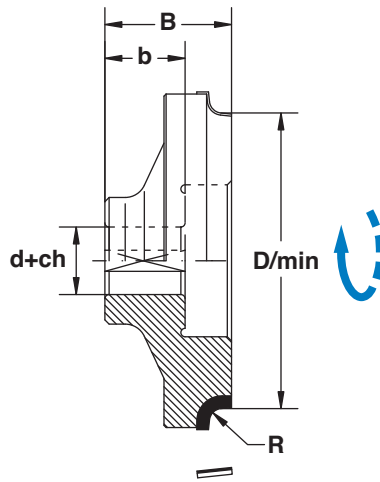
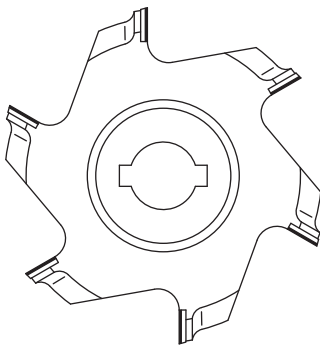
Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
 Fraises pour machines à border.
 Messerköpf für Bördelmaschine.
 Fresas para máquinas canteadoras.

5023



| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|----|------|---|---|----------|-----------------|-----------------|
| 70 | 30 | 19 | 16+2 | 1 | 6 | BIESSE | 5023 041 | 5023 042 |
| 70 | 30 | 19 | 16+2 | 2 | 6 | | 5023 043 | 5023 044 |
| 70 | 30 | 19 | 16+2 | 3 | 6 | | 5023 045 | 5023 046 |
| 70 | 30 | 19 | 16+2 | 4 | 6 | | 5023 047 | 5023 048 |
| 70 | 30 | 19 | 16+2 | 5 | 6 | | 5023 049 | 5023 050 |

DX



Caratteristiche

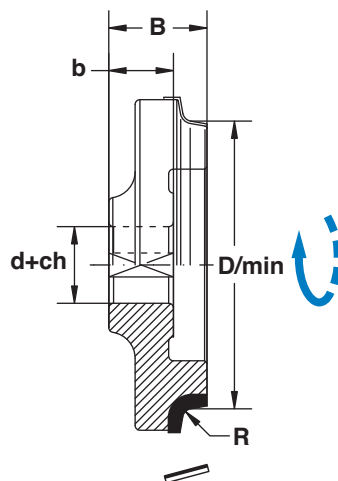
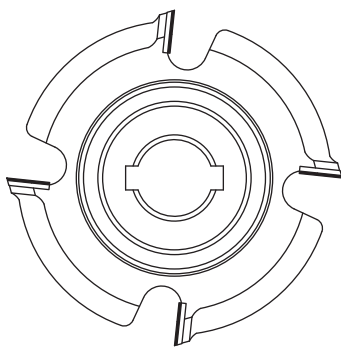
Frese a raggiare per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines with doubles radius.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|------|------|------|---|---|-----------|-----------------|-----------------|
| 60 | 20,5 | 13,5 | 16+2 | 1 | 4 | BUSELLATO | 5023 051 | 5023 052 |
| 60 | 20,5 | 13,5 | 16+2 | 2 | 4 | | 5023 053 | 5023 054 |
| 60 | 20,5 | 13,5 | 16+2 | 3 | 4 | | 5023 055 | 5023 056 |
| 60 | 20,5 | 13,5 | 16+2 | 4 | 4 | | 5023 057 | 5023 058 |
| 60 | 20,5 | 13,5 | 16+2 | 5 | 4 | | 5023 059 | 5023 060 |

DX



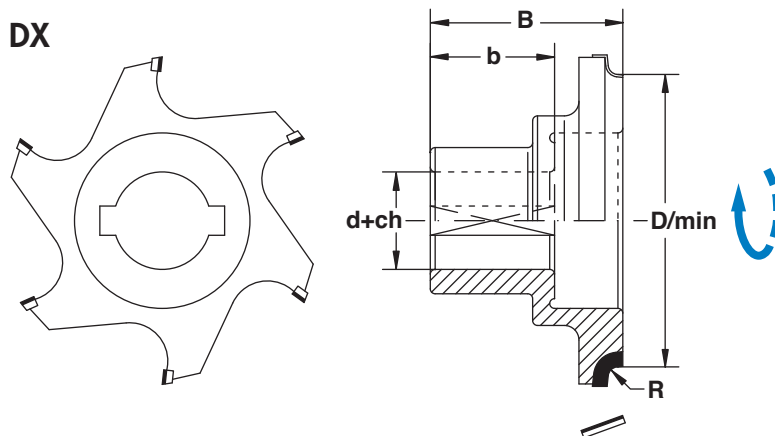
5059

Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
 Fraises pour machines à border.
Messerköpfe für Bördelmaschine.
 Fresas para máquinas canteadoras.



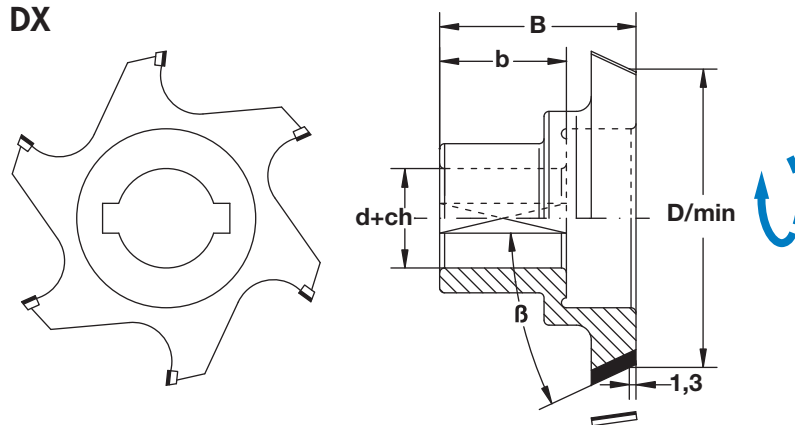
| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|------|------|------|---|---|----------|-----------------|-----------------|
| 60 | 39,5 | 25,5 | 20+2 | 1 | 6 | BIESSE | 5059 001 | 5059 002 |
| 60 | 39,5 | 25,5 | 20+2 | 2 | 6 | | 5059 003 | 5059 004 |
| 60 | 39,5 | 25,5 | 20+2 | 3 | 6 | | 5059 005 | 5059 006 |
| 60 | 39,5 | 25,5 | 20+2 | 4 | 6 | | 5059 007 | 5059 008 |
| 60 | 39,5 | 25,5 | 20+2 | 5 | 6 | | 5059 009 | 5059 010 |

DX



| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|------|------|------|-----|---|----------|-----------------|-----------------|
| 60 | 39,5 | 25,5 | 20+2 | 25° | 6 | BIESSE | 5059 021 | 5059 022 |

DX



Caratteristiche

Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

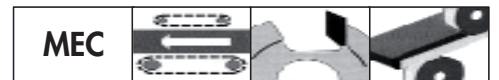
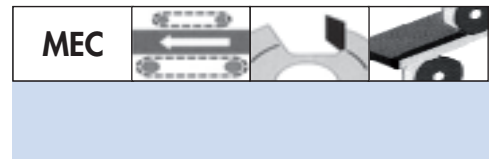
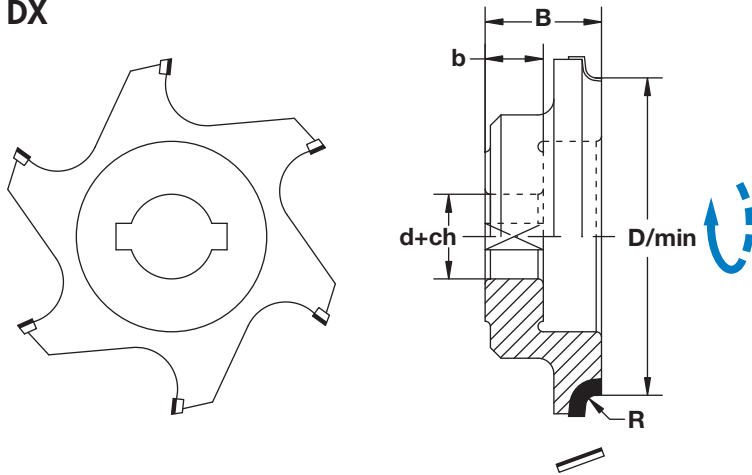
Cutterheads for edge-banding machines.
For making the edges on chipboard coated panels, MDF and more.
Diamond height 3mm.

Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
 Fraises pour machines à border.
Messerköpfe für Bördelmaschine.
 Fresas para máquinas canteadoras.

5059

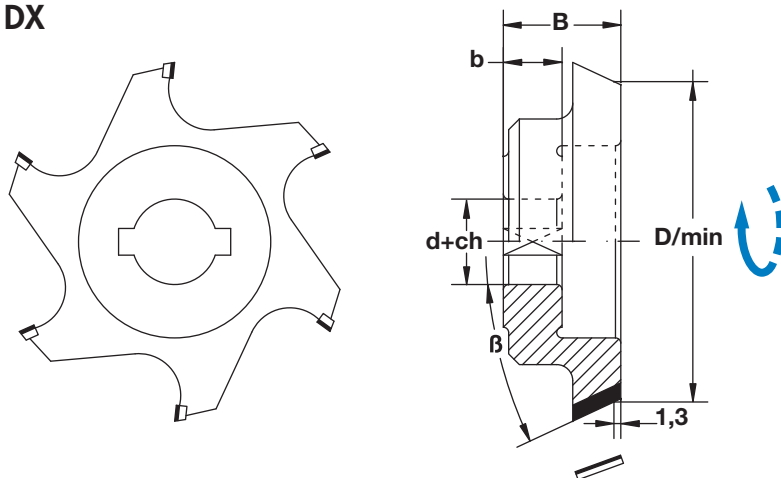
| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|----|------|---|---|----------|-----------------|-----------------|
| 60 | 22 | 11 | 16+2 | 1 | 6 | BIESSE | 5059 031 | 5059 032 |
| 60 | 22 | 11 | 16+2 | 2 | 6 | | 5059 033 | 5059 034 |
| 60 | 22 | 11 | 16+2 | 3 | 6 | | 5059 035 | 5059 036 |
| 60 | 22 | 11 | 16+2 | 4 | 6 | | 5059 037 | 5059 038 |
| 60 | 22 | 11 | 16+2 | 5 | 6 | | 5059 039 | 5059 040 |

DX



| D/min | B | b | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|----|------|-----|---|----------|-----------------|-----------------|
| 60 | 22 | 11 | 16+2 | 25° | 6 | BIESSE | 5059 051 | 5059 052 |

DX



Caratteristiche

Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

5060

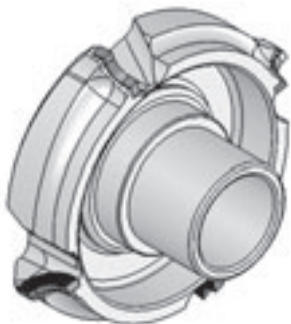
Frese per gruppo arrotondatore terminale per macchine bordatrici.

Cutters for terminal rounding set for edge-banding machines.

Fraises pour jeu arrondeur final pour machines à border.

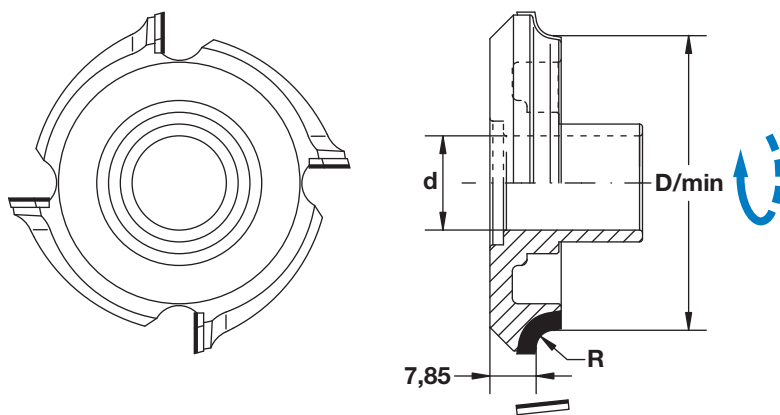
Fräser zu abrunden für Wendepplatten.

Fresas para juego redondeador final para máquinas canteadoras.



| D/min | d | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|-------|----|---|---|-------------|-----------------|-----------------|
| 50 | 16 | 2 | 4 | SCM-STEFANI | 5060 001 | 5060 002 |
| 50 | 16 | 3 | 4 | | 5060 003 | 5060 004 |

SX



MEC



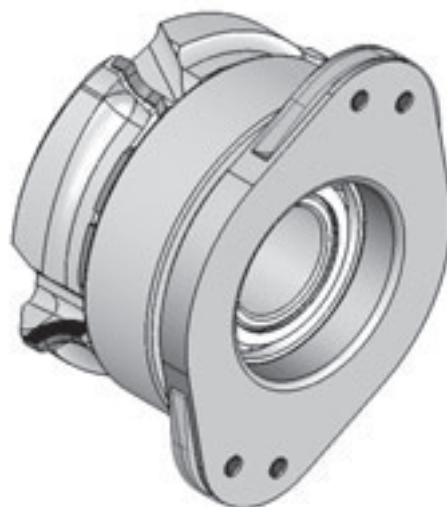
Caratteristiche

Frese a raggiare per macchine bordatrici.
Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines with double radius.
For making the edges on chipboards coated panels, MDF and more.
Diamond height 3mm.

ESEMPIO DI MONTAGGIO



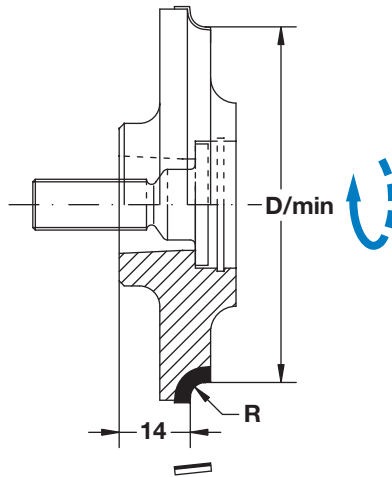
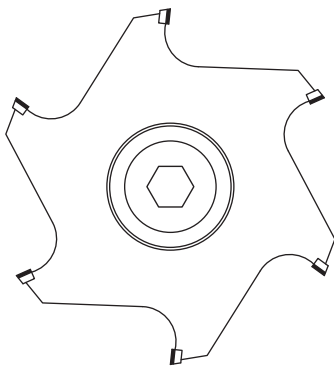
Frese per macchine bordatrici con motori HSK-25R.
Cutters for edge-banding machines with motors HSK-25R.
 Fraises pour machines à border pour moteurs HSK-25R.
Wendelplatten Nutfräser für Motor HSK-25R.
 Fresas para máquinas canteadoras con motor HSK-25R.

5051



| D/min | Att. | R | Z | ID nr. DX | ID nr. SX |
|-------|---------|---|---|-----------------|-----------------|
| 70 | HSK-25R | 1 | 6 | 5051 001 | 5051 002 |
| 70 | HSK-25R | 2 | 6 | 5051 003 | 5051 004 |
| 70 | HSK-25R | 3 | 6 | 5051 005 | 5051 006 |
| 70 | HSK-25R | 4 | 6 | 5051 007 | 5051 008 |
| 70 | HSK-25R | 5 | 6 | 5051 009 | 5051 010 |

DX



MEC

Caratteristiche

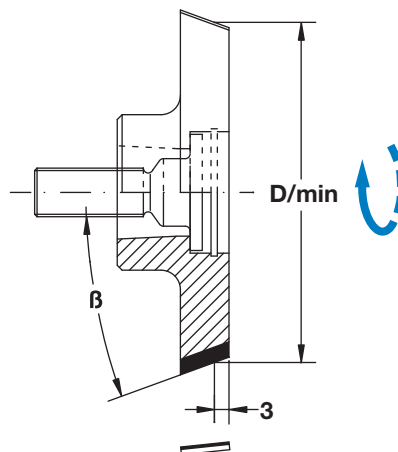
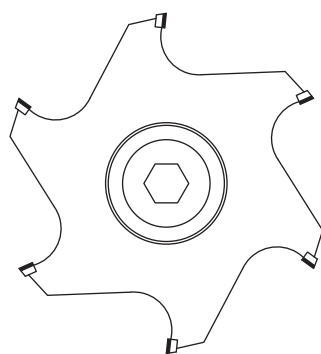
Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

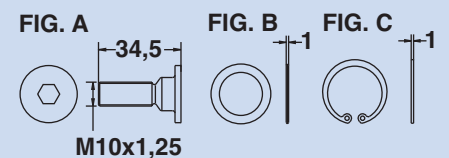
| D/min | Att. | R | Z | ID nr. DX | ID nr. SX |
|-------|---------|-----|---|-----------------|-----------------|
| 70 | HSK-25R | 20° | 6 | 5051 011 | 5051 012 |

DX



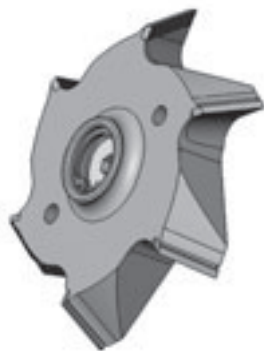
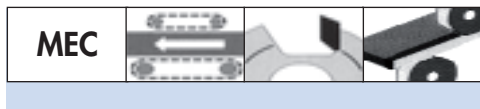
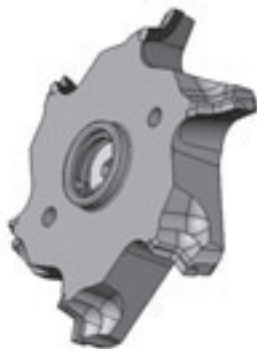
RICAMBI

| | VITE (FIGURA-A) | ANELLO (FIGURA-B) | SEEGER (FIGURA-C) |
|------------|-----------------|-------------------|-------------------|
| Dimensioni | M10x1,25 | Ø25x1x18 | UNI 7437-Ø25 |
| ID nr. | 5051 101 | 5051 102 | 5051 103 |



5061

Frese per macchine bordatrici con motori HSK-32.
Cutters for edge-banding machines with motors HSK-32.
 Fraises pour machines à border pour moteurs HSK-32.
Wendepplatten Nutfräser für Motor HSK-32.
 Fresas para máquinas canteadoras con motor HSK-32.



Caratteristiche

Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines.
For making the edges on chipboard coated panels, MDF and more.
Diamond height 3mm.

FIG. A

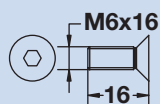


FIG. B

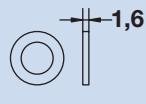
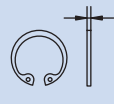
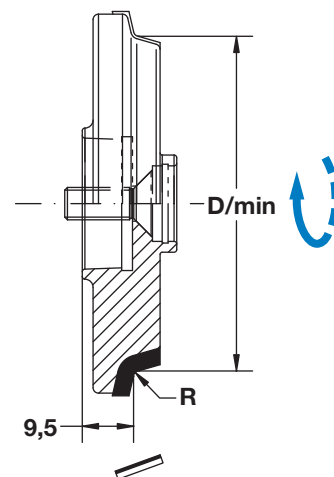
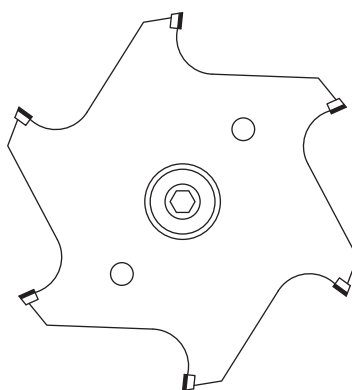


FIG. C



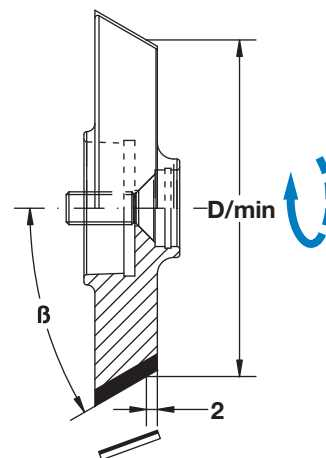
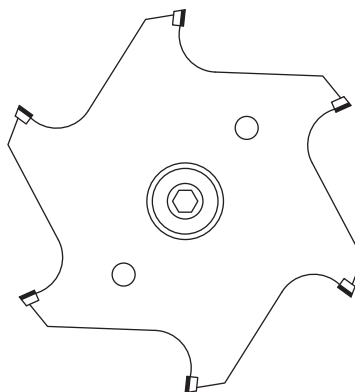
| D/min | Att. | R | Z | ID nr. DX | ID nr. SX |
|-------|--------|---|---|-----------------|-----------------|
| 62 | HSK-32 | 1 | 6 | 5061 001 | 5061 002 |
| 62 | HSK-32 | 2 | 6 | 5061 003 | 5061 004 |
| 62 | HSK-32 | 3 | 6 | 5061 005 | 5061 006 |
| 62 | HSK-32 | 4 | 6 | 5061 007 | 5061 008 |
| 62 | HSK-32 | 5 | 6 | 5061 009 | 5061 010 |

DX



| D/min | Att. | R | Z | ID nr. DX | ID nr. SX |
|-------|--------|-----|---|-----------------|-----------------|
| 62 | HSK-32 | 20° | 6 | 5061 021 | 5061 022 |

DX



RICAMBI

| | VITE (FIGURA-A) | ANELLO (FIGURA-B) | SEEGER (FIGURA-C) |
|------------|-----------------|-------------------|-------------------|
| Dimensioni | M6x16 | Ø14x1,6x8,4 | UNI 7437-Ø14 |
| ID nr. | 9546 012 | 5061 101 | 5061 102 |

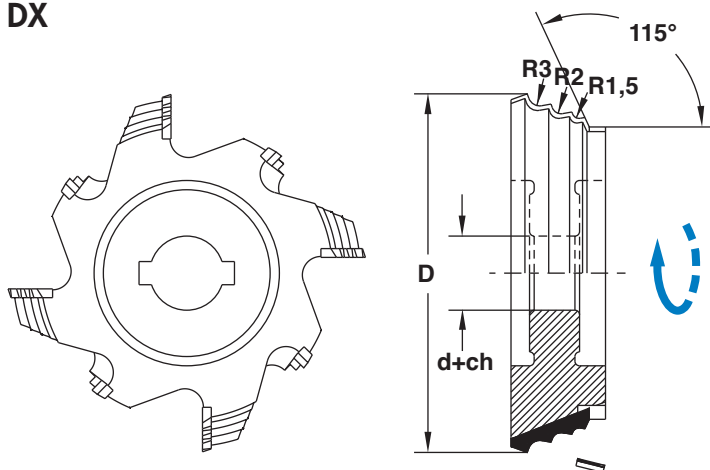
Frese MULTIFUNZIONE per macchine bordatrici.
Cutters MULTIFUNCTIONS for edge-banding machines.
 Fraises MULTIFONCTION pour machines à border .
 Fräser MULTIFUNKTION für Wendeplatten.
 Fresas MULTIUSO para máquinas canteadoras.

5052

| D | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|----|------|-----------------|-----|-------------|-----------------|-----------------|
| 77 | 16+2 | 1,5-2-3-DIRITTO | 4+4 | SCM-STEFANI | 5052 001 | 5052 002 |



DX



MEC

Caratteristiche

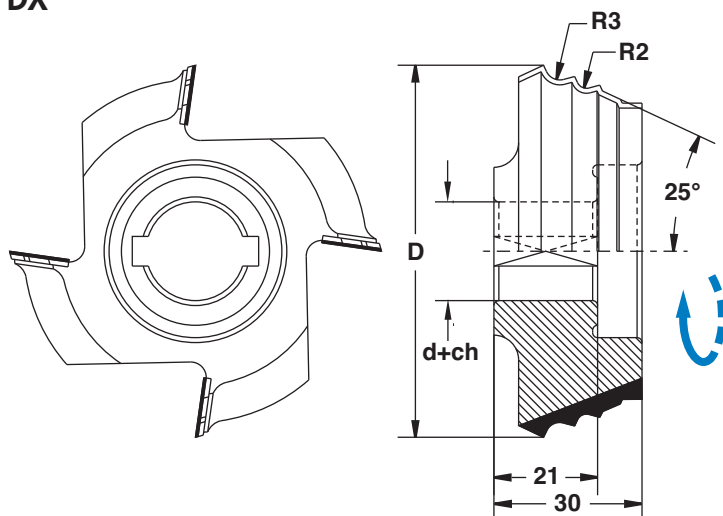
Frese a raggiare per macchine bordatrici, per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines for making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

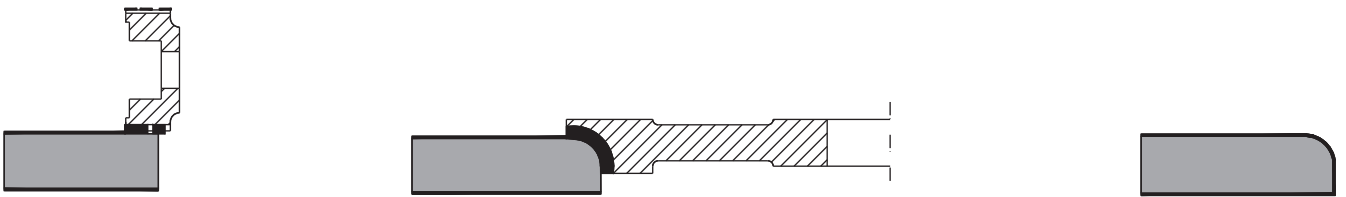
| D | d+ch | R | Z | MACCHINA | ID nr. DX | ID nr. SX |
|----|------|-----------------|---|----------|-----------------|-----------------|
| 75 | 16+2 | 2-3-25°-DIRITTO | 4 | BIESSE | 5052 003 | 5052 004 |

DX

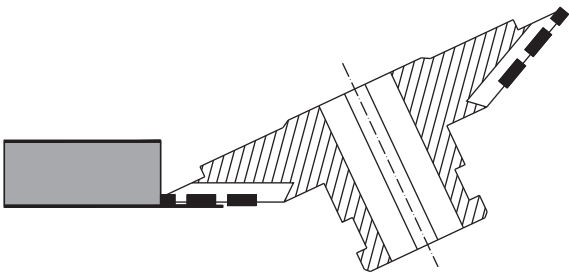




POST - FORMING



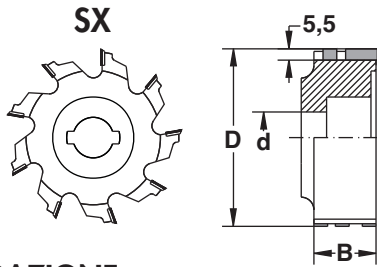
PRE - FORMING



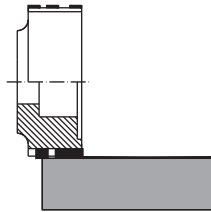
Frese rasanti per SOFT/POST-FORMING.
Trimming cutters for SOFT/POST-FORMING.
 Fraises pour SOFT/POST-FORMING.
 Fräser für SOFT/POST-FORMING.
 Fresas rasantes para SOFT/POSTFORMADOS.

| D | B | d | Z | ID nr. DX | ID nr. SX |
|----|----|---|-----|-----------|-----------|
| 70 | 12 | * | 9+3 | 5026001 | 5026004 |
| 70 | 20 | * | 9+3 | 5026002 | 5026005 |
| 70 | 25 | * | 9+3 | 5026003 | 5026006 |

*Fori a richiesta
 *Holes on request



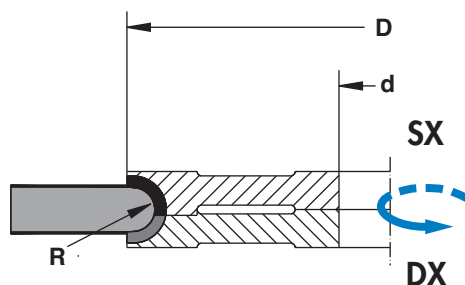
ESEMPIO DI LAVORAZIONE



Frese sagomate 1/4 di tondo concavo per POST-FORMING e TOPS Z4.
Profiled cutters 1/4 of round concave for POST-FORMING and TOPS Z4.
 Fraises de defonceuse 1/4 ronde concave pour POST-FORMING et TOPS Z4.
 Profilfräser 1/4 stab für POST-FORMING und TOPS Z4.
 Fresas perfiladas para 1/4 de barra cóncavos para POSTFORMADO y TOPES Z4.

| D | B | d | Z | ID nr. SX |
|---------|----|---|---|-----------|
| 120÷200 | 5 | * | 4 | 5027001 |
| 120÷200 | 6 | * | 4 | 5027002 |
| 120÷200 | 8 | * | 4 | 5027003 |
| 120÷200 | 9 | * | 4 | 5027004 |
| 120÷200 | 10 | * | 4 | 5027005 |
| 120÷200 | 12 | * | 4 | 5027006 |
| 120÷200 | 15 | * | 4 | 5027007 |

*Fori a richiesta
 *Holes on request



5026



Caratteristiche

Frese per l'asportazione e la rasatura del laminato plastico eccedente, su macchine bordatrici e squadratrici, per soft/post-forming, con ottima finitura della parte lavorata. Altezza diamante 5,5mm.

Characteristics

Cutters for the removal of plastic leaf on edgcutting machines, for soft/post-forming, with excellent finish. Diamond height 5,5mm.

5027



Caratteristiche

Frese a raggiare per l'esecuzione di 1/4 e 1/2 di tondo per post/forming e tops, su pannelli di truciolare rivestito e non, MDF e altri. Su macchine squadratrici.

Characteristics

Cutters for making 1/4 and 1/2 for soft/post-forming and tops, on chipboard coated panels and not, MDF and more.

5028



Caratteristiche

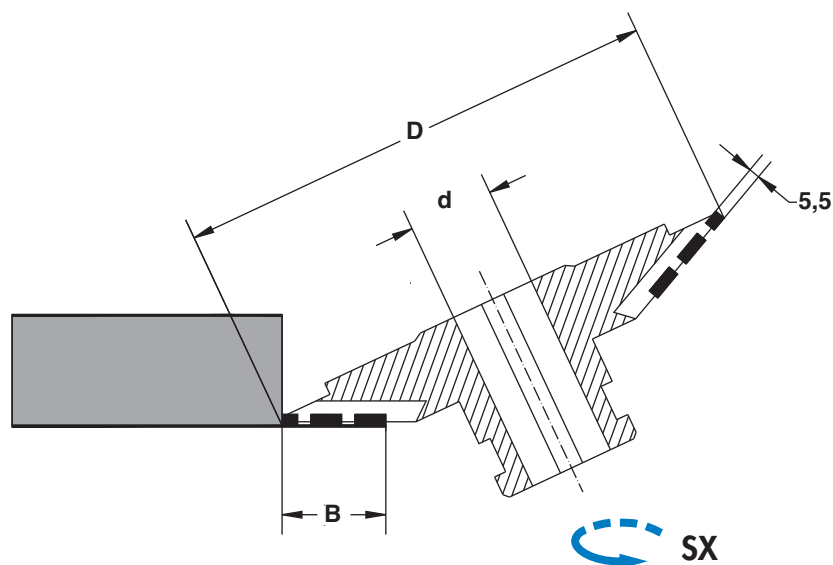
Fresa piattabanda per la finitura del laminato da curvare sul pre-forming. Lavora dopo il truciolatore. Ottima finitura della parte lavorata. Altezza diamante 5,5mm.

Characteristics

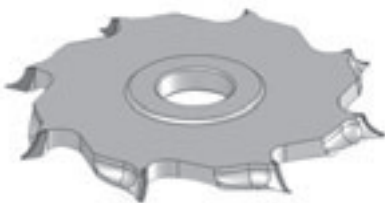
Panel raising for the finish of curved laminated. It works after the hogging set. Excellent finish. Diamond height 5,5mm.

Frese piattabanda per PRE-FORMING.
Panel raising cutters for PRE-FORMING.
Fraises plate-bandes pour PRE-FORMING.
Abplattfräser für PRE-FORMING.
Fresas plafones para PRÉ-FORMADO.

| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|-------|---|-----------|-----------|
| 200 | 33 | 35/40 | 8 | 5028001 | 5028002 |
| 200 | 44 | 35/40 | 8 | 5028003 | 5028004 |
| 200 | 55 | 35/40 | 8 | 5028005 | 5028006 |



5029



Caratteristiche

Fresa per l'esecuzione del raggio sul pre-forming. Lavora dopo la piattabanda ART. 5028. N.B.: Tutti i raggi con cifra decimale rientrano nella misura superiore: ESEMPIO r5,3 = r6

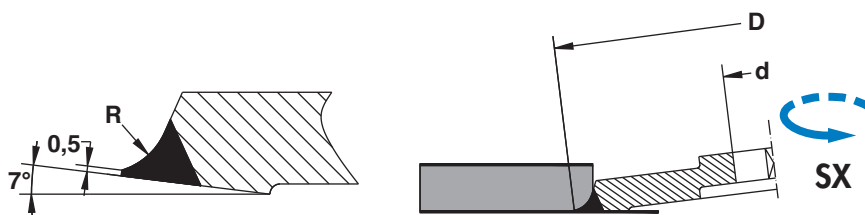
Characteristics

Cutter for making the radius on pre-forming. It works after the panel raising ART. 5028. ATTENTION: All radius with decimal numbers are in the bigger measure: EXAMPLE r5,3 = r6

Frese a raggiare per PRE-FORMING.
Sides round cutters for PRE-FORMING.
Arrondit fraises pour PRE-FORMING.
Radiusschniden Fräser für PRE-FORMING.
Fresas para la realización de cantos con radios diferentes para PRÉ-FORMADO.

| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|---|---|-----------|-----------|
| 180 | 4 | * | 8 | 5029001 | 5029002 |
| 180 | 5 | * | 8 | 5029003 | 5029004 |
| 180 | 6 | * | 8 | 5029005 | 5029006 |
| 180 | 8 | * | 8 | 5029007 | 5029008 |
| 180 | 9 | * | 8 | 5029009 | 5029010 |
| 180 | 10 | * | 8 | 5029011 | 5029012 |
| 180 | 11 | * | 8 | 5029013 | 5029014 |
| 180 | 12 | * | 8 | 5029015 | 5029016 |
| 180 | 14 | * | 8 | 5029017 | 5029018 |

*Fori a richiesta
*Holes on request

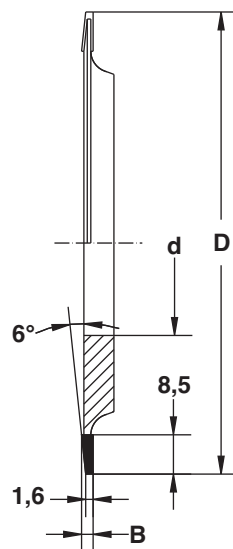
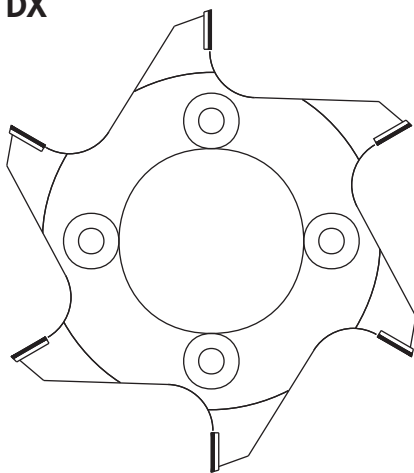


Lama per PRE-FORMING.
Sawblade for PRE-FORMING.
 Lame pour PRE-FORMING.
 Sägeblatt für PRE-FORMING.
 Sierra para PRÉ-FORMADO.

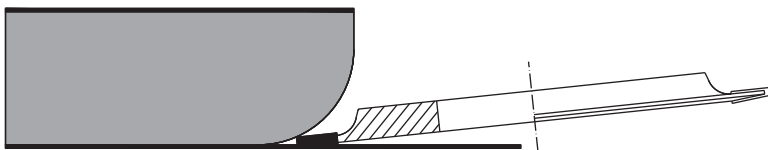
| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|-----|---|---|-----------|-----------|
| 100 | 2,5 | * | 6 | 5030001 | 5030002 |
| | | | | | |

*Fori a richiesta
 *Holes on request

DX



ESEMPIO DI LAVORAZIONE



5030



MEC



Caratteristiche

Frese per ottenere la sede della colla termofusibile sul pre-forming.
 Lavora dopo la fresa ART. 5029.
 Ottima finitura della parte lavorata.
 Successivamente avviene la curvatura del laminato.

Characteristics

Cutter for making the seat of thermo-smelting glue on pre-forming.
 It works after the cutter ART. 5029.
 Excellent finish.
 Subsequently happens the bending of laminated.

5031



Caratteristiche

Frese costruite su richiesta. Dati necessari: Tipo di macchina, Foro, D-max, Spessore del diamante, Rotazione, Materiale da lavorare. Disegno o Campione del profilo da eseguire.

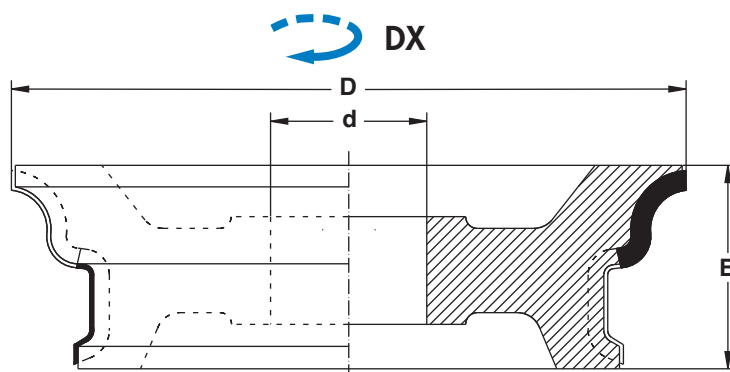
Characteristics

Drills making on request. Specifications: Kind of machine, Shank, D-max, Thickness of diamond, Rotation, Material to be work. Draw or Sample of tool to make.

Fresa sagomata a richiesta.
Cutter with profiles on request.
Fraise avec profils sur demande.
Fräser mit Profil auf Befragen.
Fresa perfilada a petición.

| D | B | d | Z | ID nr. DX | ID nr. SX |
|---|---|---|---|-----------|-----------|
| * | * | * | * | 5031001 | 5031002 |
| | | | | | |

*Misure a richiesta (prezzo a preventivo)
*Measure on request (ask for offert)



5032



Caratteristiche

Punte costruite su richiesta. Dati necessari: Tipo di macchina, Attacco, D-max, Spessore del diamante, Rotazione, Materiale da lavorare. Disegno o campione del profilo da eseguire.

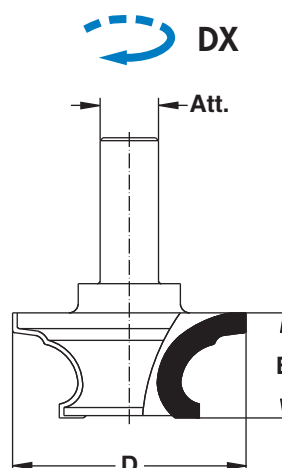
Characteristics

Drills making on request. Specifications: Kind of machine, Shank, D-max, Thickness of diamond, Rotation, Material to be work. Draw or Sample of tool to make.

Punta per pantografo sagomata a richiesta.
Drill for pantograph with profiles on request.
Mèche pour pantographe avec profils sur demande.
Fräser für Pantograph mit Profil auf Befragen.
Fresa perfilada para fresadoras a petición.

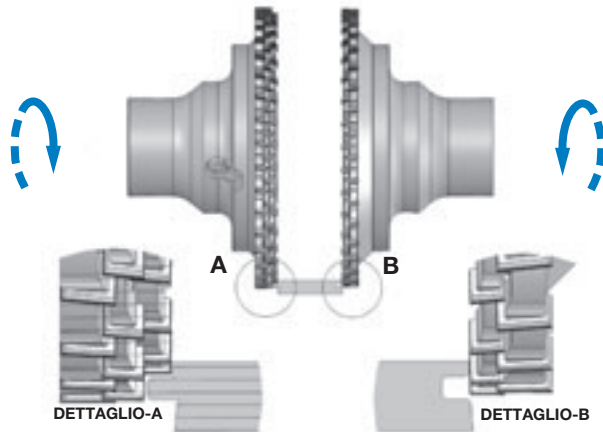
| D | B | d | Z | ID nr. DX | ID nr. SX |
|---|---|---|---|-----------|-----------|
| * | * | * | * | 5031001 | 5031002 |
| | | | | | |

*Misure a richiesta (prezzo a preventivo)
*Measure on request (ask for offert)

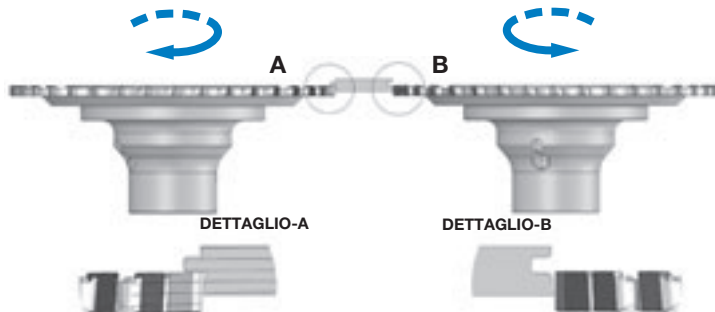


Gruppi sagomati per parquets.
Shared groups for parquets.
 Groupes profilés pour parquets.
Gruppe mit profil für parquets.
 Juego de fresas perfiladas para parqué.

| Denominazione | D | Z | ID nr. |
|--------------------|-----|----|-----------------|
| FINITURA SUPERIORE | 200 | 36 | 5033 001 |
| | | | |



| Denominazione | D | Z | ID nr. |
|-----------------------|-----|----|-----------------|
| SGROSSATURA INFERIORE | 260 | 36 | 5033 002 |
| | | | |



5033



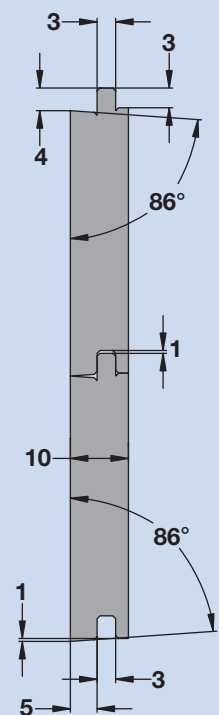
Caratteristiche

Sequenza di utensili per la lavorazione dei parquets.
 Su richiesta si esegue ogni tipo di profilo, per la lavorazione su macchine manuali o automatiche.

Characteristics

Set of tools to realise parquets.
 It is possible to make every kind of profile on request and use it on both manual and automatic machines.

PROFILO ESEGUITO



5033

Gruppi sagomati per parquet.
Shared groups for parquet.
 Groupes profilés pour parquets.
 Gruppe mit profil für parquets.
 Juego de fresas perfiladas para parqueté.



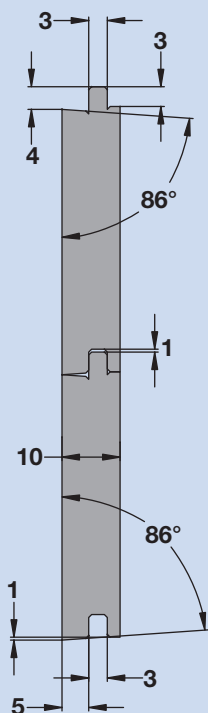
Caratteristiche

Sequenza di utensili per la lavorazione dei parquet.
 Su richiesta si esegue ogni tipo di profilo, per la lavorazione su macchine manuali o automatiche.

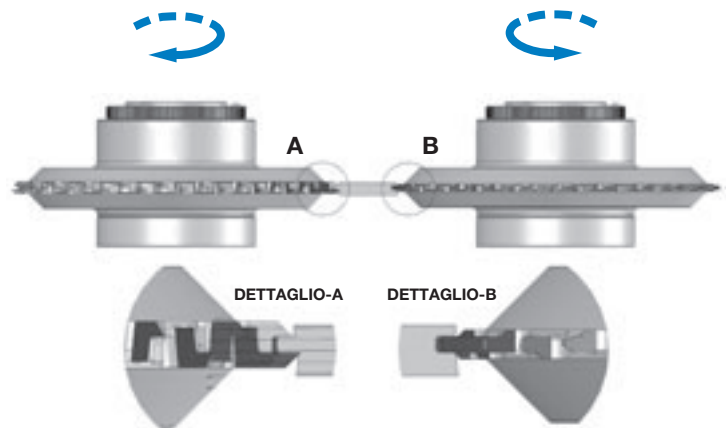
Characteristics

Set of tools to realise parquets.
 It is possible to make every kind of profile on request and use it on both manual and automatic machines.

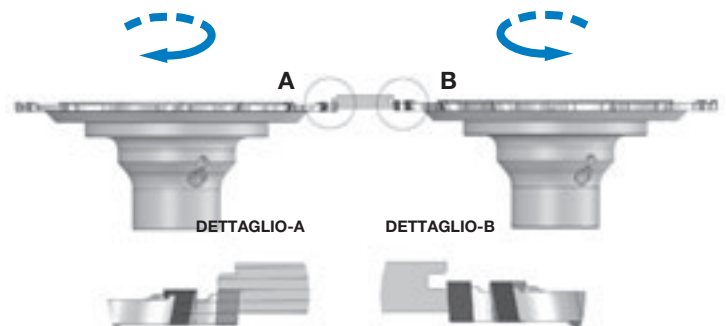
PROFILO ESEGUITO



| Denominazione | D | Z | ID nr. |
|------------------|-----|----|-----------------|
| FINITURA SAGOMAE | 260 | 24 | 5033 003 |



| Denominazione | D | Z | ID nr. |
|--------------------|-----|----|-----------------|
| FINITURA INFERIORE | 260 | 16 | 5033 004 |



Punta a coda di rondine per profili in alluminio.

Dovetailing tip for aluminium.

Mèche à queue d'aronde pour aluminium.

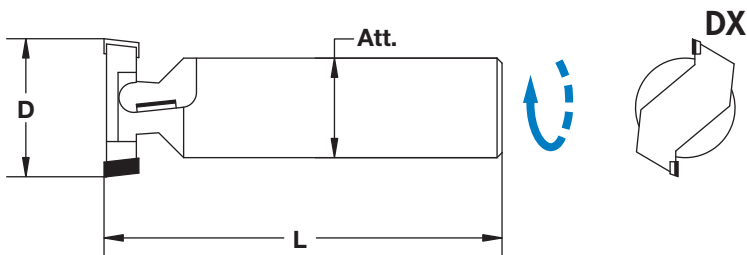
Schwalbenschwanzbohrer für Aluminium.

Broca a cola de golombriana para perfiles en aluminio.

5035

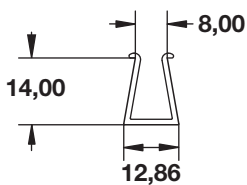


| D | L | Att. | TIPO | Z | ID nr. DX |
|------|----|--------|------|-----|-----------------|
| 14 | 65 | Ø12x50 | 1 | 2 | 5035 002 |
| 23,5 | 80 | Ø20x50 | 2 | 2+2 | 5035 003 |
| 26 | 75 | Ø20x50 | 3 | 2+2 | 5035 004 |
| 28 | 75 | Ø20x50 | 4 | 2+2 | 5035 005 |
| 28 | 75 | Ø20x50 | 5 | 2+2 | 5035 006 |
| 33 | 80 | Ø20x50 | 6 | 2+2 | 5035 007 |

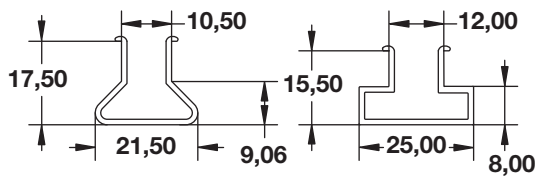


ESEMPI DI PROFILI

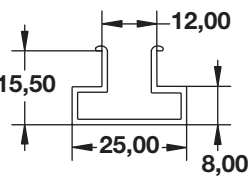
TIPO - 1



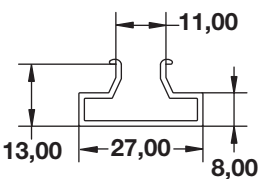
TIPO - 2



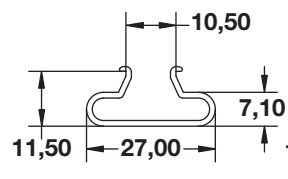
TIPO - 3



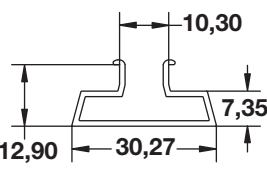
TIPO - 4



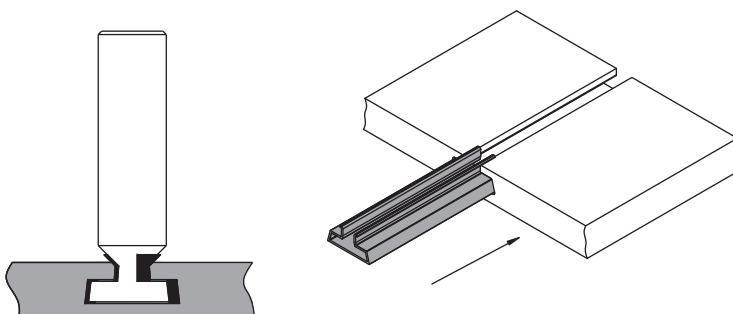
TIPO - 5



TIPO - 6



ESEMPIO DI LAVORAZIONE



MEC

Caratteristiche

Punta a coda di rondine per eseguire profili in alluminio tra quelli disponibili e su richiesta.

Idonee per lavorazioni su pannelli in truciolare, rivestiti e non, MDF, laminati in genere. Altezza diamante 3mm.

Characteristics

Dovetailing tip to make aluminium profiles between our profiles or on demand.

Suitable to work on chipboard panels, MDF, overlaid panel and not, laminated in general.

Diamond height 3mm.

5036



Gruppi per eseguire canali e squadratura su macchine CNC.
Grooving cutter set to make cuts and squaring on CNC machines.
 Jeu de fraises à rainurer pour rainures et équerissages sur CNC machines.
Regelbar Nutfräser für Auskehlung und Abvieren auf CNC Maschinen.
 Juego de fresas para ranurar y escuadrar para máquinas CNC.

| D | D1 | B | Att. | Z | ID nr. DX | ID nr. SX |
|----|----|---|--------|-------|-----------------|-----------------|
| 55 | 30 | 3 | Ø20x50 | 2+4+2 | 5036 001 | 5036 002 |
| 55 | 30 | 4 | Ø20x50 | 2+4+2 | 5036 003 | 5036 004 |
| 55 | 30 | 5 | Ø20x50 | 2+4+2 | 5036 005 | 5036 006 |
| 55 | 30 | 6 | Ø20x50 | 2+4+2 | 5036 007 | 5036 008 |

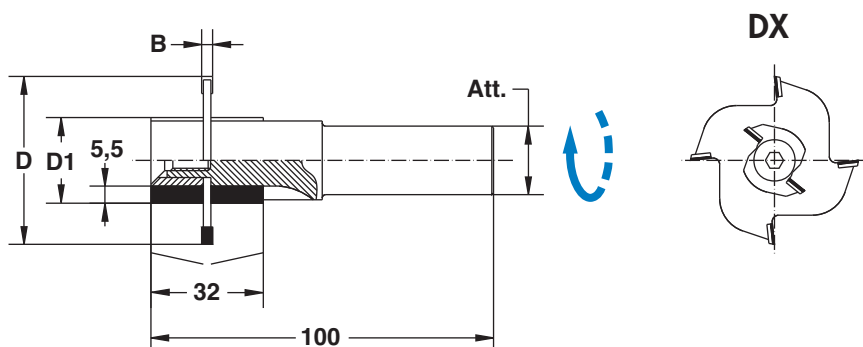


Caratteristiche

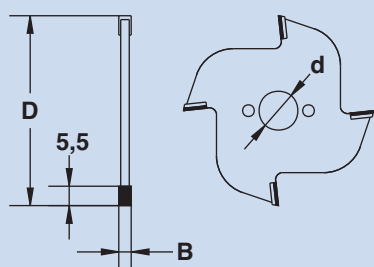
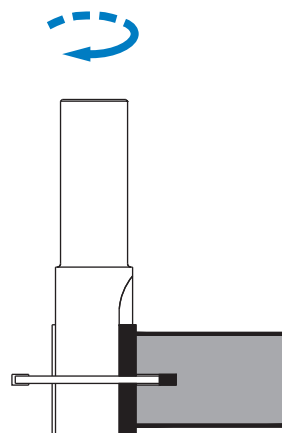
Gruppi di frese per pantografo per eseguire canali e squadratura del pannello.
 Ottima finitura della parte lavorata, su pannelli in truciolare con rivestimento e non, MDF, laminati in genere.
 Altezza diamante 5,5mm.

Characteristics

Groups of cutters for pantograph for making cuts and squaring of panel.
 Excellent finish on chipboard coated panels and not, MDF, laminated in general.
 Diamond height 5,5mm.



ESEMPIO DI LAVORAZIONE



RICAMBI

| LAME DI RICAMBIO | | | | |
|------------------|---|-------|---|-----------------|
| D | B | d | Z | ID |
| 55 | 3 | Ø10+2 | 4 | 5036 051 |
| 55 | 4 | Ø10+2 | 4 | 5036 052 |
| 55 | 5 | Ø10+2 | 4 | 5036 053 |
| 55 | 6 | Ø10+2 | 4 | 5036 054 |

Punte Z1 fora e contorna per pantografo.

Drills Z1 to perforate and blank for pantograph.

Mèches Z1 à percer et contourner pour pantographe.

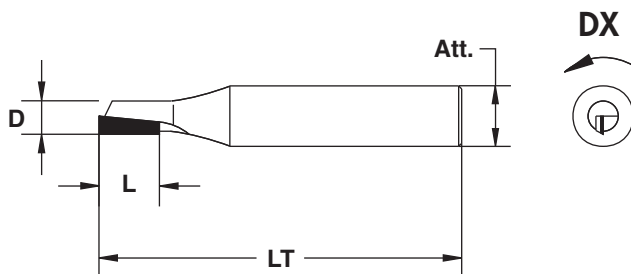
Bohrer Z1 zu bohren und ungeben für Oberfräser.

Broca Z1 para taladrar y contornear para fresadora.

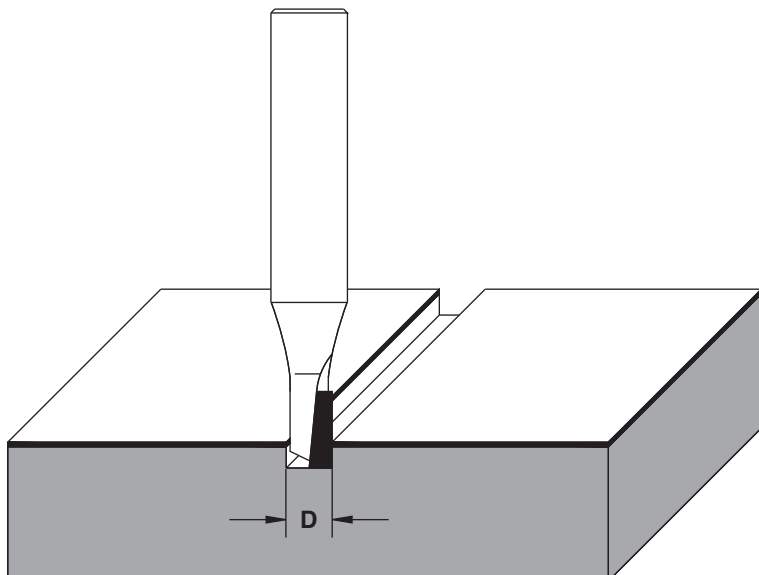
| D | L | Att. | LT | ID nr. DX |
|----|----|------|----|-----------------|
| 5* | 10 | Ø12 | 60 | 5037 001 |
| 6* | 10 | Ø12 | 60 | 5037 002 |
| 7 | 10 | Ø12 | 60 | 5037 003 |
| 8 | 15 | Ø12 | 70 | 5037 004 |
| 9 | 15 | Ø12 | 70 | 5037 005 |
| 10 | 15 | Ø12 | 70 | 5037 006 |
| 12 | 26 | Ø12 | 80 | 5037 007 |

*Costruite in acciaio densimet

**Made in densimet steel*



ESEMPIO DI LAVORAZIONE



5037



MEC



Caratteristiche

Punta di piccolo diametro per pantografo per eseguire fori e scanalature all'interno dei pannelli, su truciolare rivestito e non, MDF, laminati in genere.

Ottima finitura della parte superiore del pannello grazie all'angolo assiale.

Characteristics

Drill of small diameter for pantograph for making inside the panels, on coated chipboard and not, MDF, laminated in general.

Excellent finish of the upper part of panel thanks to the axial angle.

5062



Punta tipo ECONOMICO fora e contorna per pantografo Z2+1 in diamante.

Drilling and blank tool ECONOMIC type for pantograph Z2+1 in diamond.

Mèche à percer et contourner type ÉCONOMIQUE pour pantographe Z2+1 en diamant.

Spitze zu bohren und umgeben PREISWERT Typ für Oberfräser Z2+1 zu Diamant.

Broca tipo ECONÓMICO para taladrar y contornear para fresadora Z2+1 en diamante.

| D | L | Att. | LT | ID nr. DX |
|----|----|--------|----|-----------------|
| 6 | 10 | Ø12x50 | 70 | 5062 001 |
| 8 | 15 | Ø12x50 | 75 | 5062 002 |
| 10 | 15 | Ø12x50 | 75 | 5062 003 |
| 12 | 20 | Ø12x50 | 80 | 5062 004 |
| 14 | 25 | Ø12x50 | 85 | 5062 005 |
| 16 | 33 | Ø16x50 | 95 | 5062 006 |

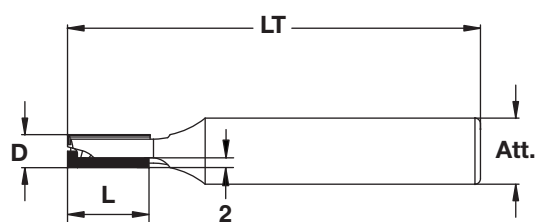


Caratteristiche

Punte con corpo in acciaio ad alta resistenza adatte alla lavorazione di pannelli in truciolare rivestiti e non, MDF, laminati in genere. Idonee a lavorazioni interne al pannello dove occorre ottenere piccoli raggi di curvatura. Altezza diamante 2mm.

Characteristics

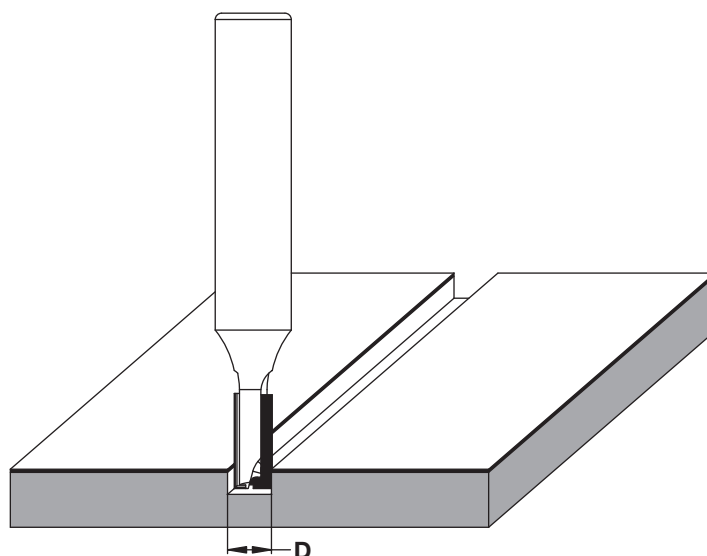
High efficiency drills with body in steel fit to work wood chipboard and not, MDF, laminated in general. Suitable for working internal side of panels where it is necessary to realise curved small radius. Diamond height 2mm.



DX



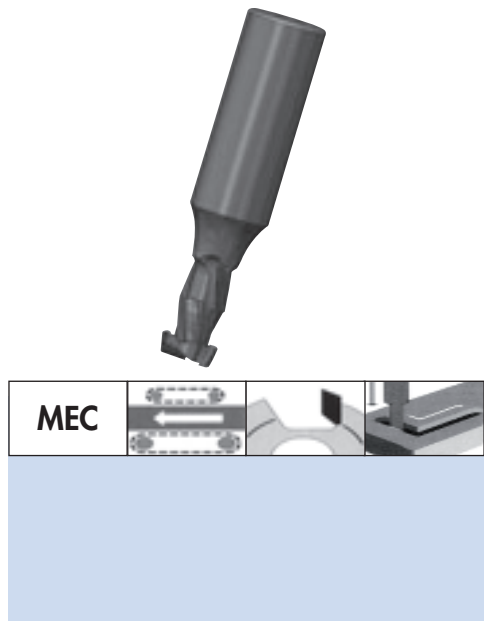
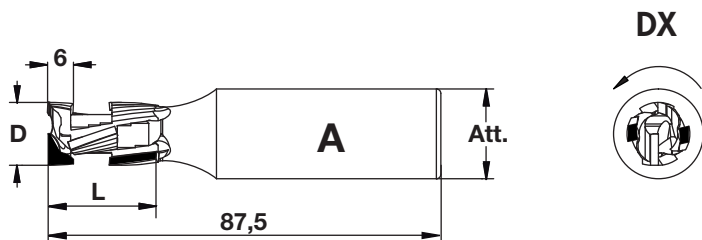
ESEMPIO DI LAVORAZIONE



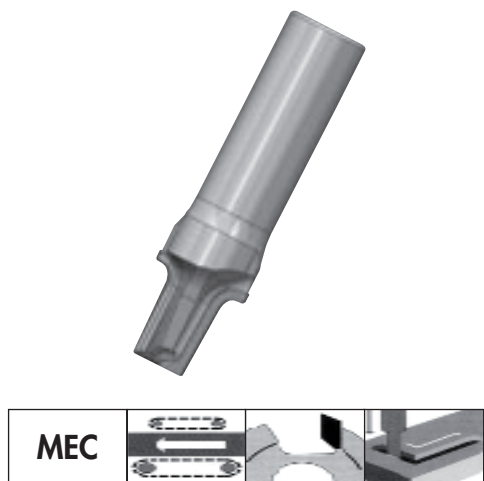
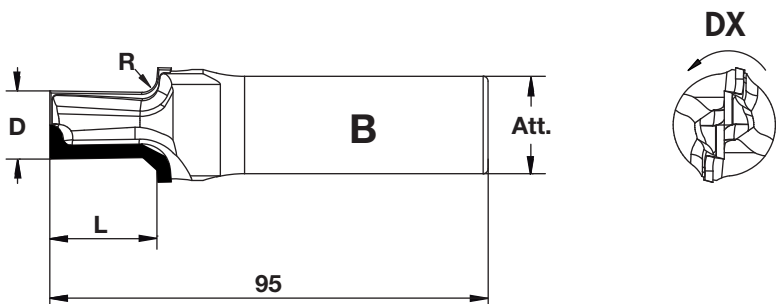
Punte in diamante per pantografo per lavorazioni "Nesting".
Drills for pantograph for "Nesting" processing in diamond.
 Mèches pour pantographe pour "Nesting" en diamant.
Spitze für Stromabnehmer für "Nesting" zu Diamant.
 Broca para fresadora para "Nesting" en diamante.

5068

| D | L | Att. | Z | Tipo | ID nr. DX |
|----|----|--------|-----|------|-----------------|
| 12 | 20 | Ø20x50 | 2+1 | A | 5068 002 |
| 14 | 24 | Ø20x50 | 2+1 | A | 5068 001 |



| D | L | Att. | R | Z | Tipo | ID nr. DX |
|----|----|--------|---|---|------|-----------------|
| 12 | 20 | Ø20x50 | 2 | 2 | B | 5068 023 |
| 12 | 20 | Ø20x50 | 3 | 2 | B | 5068 024 |
| 14 | 22 | Ø20x50 | 2 | 2 | B | 5068 021 |
| 14 | 22 | Ø20x50 | 3 | 2 | B | 5068 022 |



Caratteristiche

Punte in diamante per pantografo, adatte per lavorazioni Nesting.
 Le particolari geometrie con cui sono costruite permettono una eccellente evaquazione del truciolo in fase di asportazione.
 Ottima finitura del pannello grazie all'angolo assiale.
 Su truciolare rivestito e non, MDF, laminati in genere.

Characteristics

Diamond drills for pantograph, suitable for Nesting processing.
 The geometries which are constructed allow an excellent chip evaquation during removal.
 Excellent finish panel with axial angle.
 On coated chipboard and not, MDF, laminated in general.

5039

Punte tipo ECONOMICO Z3 fora e contorna per pantografo con attacco cilindrico.
Drills ECONOMIC type Z3 to perforate and blank for pantograph with cylindrical shank.
 Mèches type ÉCONOMIQUE Z3 à percer et contourner pour pantographe avec queue fileté.
Bohrer PREISWERT Typ Z3 zu bohren und ungeben für Oberfräser mit Gewindschaft.
 Broca tipo ECONÓMICO Z3 para taladrar y contornear para fresadora mango cilíndrico.



Caratteristiche

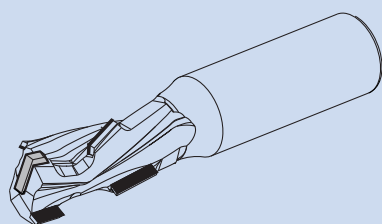
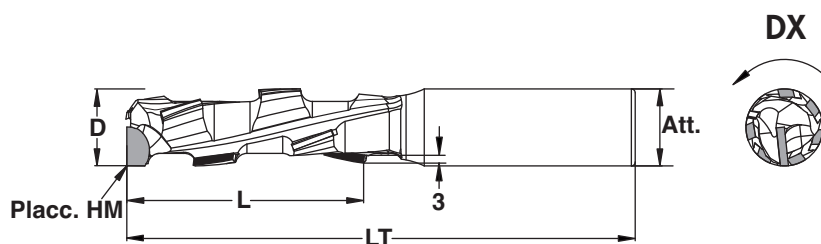
Punta in diamante tipo economico per pantografo, per eseguire: fori, scanalature, battute, sgrossature all'interno dei pannelli. Ottima finitura della parte superiore ed inferiore del pannello grazie all'angolo assiale. Su truciolare rivestito e non, MDF, laminati in genere. Altezza diamante 3mm.

Characteristics

Diamond drill tipo economico for pantograph, for making: holes, grooves, rough-hewing inside the panels. Excellent finish of the upper and lower part of panel thanks to the axial angle. On coated chipboard and not, MDF, laminated in general. Diamond height 3mm.

| D | L | Att. | LT | n° Placchette | ID nr. DX | ID nr. SX |
|----|------|--------|-------|---------------|-----------------|-----------------|
| 10 | 25 | Ø12x45 | 80 | 3+1HM | 5039 043 | 5039 044 |
| 12 | 25 | Ø12x45 | 80 | 3+1HM | 5039 001 | 5039 002 |
| 12 | 35 | Ø12x45 | 87,5 | 4+1HM | 5039 003 | 5039 004 |
| 16 | 27,5 | Ø20x50 | 88,5 | 3+1HM | 5039 005 | 5039 006 |
| 16 | 36 | Ø20x50 | 97 | 4+1HM | 5039 007 | 5039 008 |
| 16 | 44,5 | Ø20x50 | 105,5 | 5+1HM | 5039 009 | 5039 010 |
| 18 | 27,5 | Ø20x50 | 88,5 | 3+1HM | 5039 011 | 5039 012 |
| 18 | 36 | Ø20x50 | 97 | 4+1HM | 5039 013 | 5039 014 |
| 18 | 44,5 | Ø20x50 | 105,5 | 5+1HM | 5039 015 | 5039 016 |
| 18 | 53 | Ø20x50 | 114 | 6+1HM | 5039 017 | 5039 018 |
| 20 | 27,5 | Ø20x50 | 88,5 | 3+1HM | 5039 019 | 5039 020 |
| 20 | 36 | Ø20x50 | 97 | 4+1HM | 5039 021 | 5039 022 |
| 20 | 44,5 | Ø20x50 | 105,5 | 5+1HM | 5039 023 | 5039 024 |
| 20 | 53 | Ø20x50 | 114 | 6+1HM | 5039 025 | 5039 026 |
| 20 | 61,5 | Ø20x50 | 120 | 7+1HM | 5039 045 | 5039 046 |
| 18 | 27,5 | Ø25x55 | 96 | 3+1HM | 5039 027 | 5039 028 |
| 18 | 36 | Ø25x55 | 102 | 4+1HM | 5039 029 | 5039 030 |
| 18 | 44,5 | Ø25x55 | 110 | 5+1HM | 5039 031 | 5039 032 |
| 18 | 53 | Ø25x55 | 120 | 6+1HM | 5039 033 | 5039 034 |
| 20 | 27,5 | Ø25x55 | 96 | 3+1HM | 5039 035 | 5039 036 |
| 20 | 36 | Ø25x55 | 102 | 4+1HM | 5039 037 | 5039 038 |
| 20 | 44,5 | Ø25x55 | 110 | 5+1HM | 5039 039 | 5039 040 |
| 20 | 53 | Ø25x55 | 120 | 6+1HM | 5039 041 | 5039 042 |
| 20 | 61,5 | Ø25x55 | 128 | 7+1HM | 5039 047 | 5039 048 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Punte tipo ECONOMICO Z4 fora e contorna per pantografo con attacco cilindrico.
Drills ECONOMIC type Z4 to perforate and blank for pantograph with cylindrical shank.
 Mèches type ÉCONOMIQUE Z4 à percer et chantourner pour pantographe avec queue fileté.
Bohrer PREISWERT Typ Z4 zu bohren und ungeben für Oberfräser mit Gewindschaft.
 Broca tipo ECONÓMICO Z4 para taladrar y contornear para fresadora mango cilíndrico.

5053

| D | L | Att. | LT | n° Placchette | ID nr. DX | ID nr. SX |
|----|------|--------|-------|---------------|-----------------|-----------------|
| 20 | 27,5 | Ø20x50 | 88,5 | 5+1DIA | 5053 001 | 5053 002 |
| 20 | 36 | Ø20x50 | 97 | 7+1DIA | 5053 003 | 5053 004 |
| 20 | 44,5 | Ø20x50 | 105,5 | 9+1DIA | 5053 005 | 5053 006 |
| 20 | 53 | Ø20x50 | 114 | 11+1DIA | 5053 013 | 5053 014 |
| 20 | 61,5 | Ø20x50 | 122,5 | 13+1DIA | 5053 015 | 5053 016 |
| 20 | 70 | Ø20x50 | 128 | 15+1DIA | 5053 017 | 5053 018 |
| 20 | 27,5 | Ø25x55 | 95 | 5+1DIA | 5053 007 | 5053 008 |
| 20 | 36 | Ø25x55 | 103,5 | 7+1DIA | 5053 009 | 5053 010 |
| 20 | 44,5 | Ø25x55 | 112 | 9+1DIA | 5053 011 | 5053 012 |
| 20 | 53 | Ø25x55 | 119 | 11+1DIA | 5053 019 | 5053 020 |
| 20 | 61,5 | Ø25x55 | 126,5 | 13+1DIA | 5053 021 | 5053 022 |
| 20 | 70 | Ø25x55 | 134 | 15+1DIA | 5053 023 | 5053 024 |

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



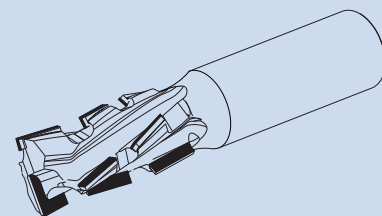
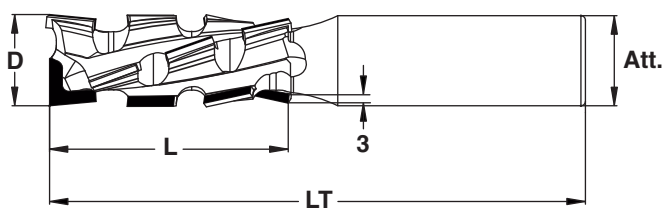
Caratteristiche

Punta in diamante tipo economico per pantografo, per eseguire: fori, scanalature, battute, sgrossature all'interno dei pannelli.
 Ottima finitura della parte superiore ed inferiore del pannello grazie all'angolo assiale.
 Su truciolare rivestito e non, MDF, laminati in genere.
 Altezza diamante 3mm.

Characteristics

Diamond drill tipo economico for pantograph, for making: holes, grooves, rough-hewing inside the panels.
 Excellent finish of the upper and lower part of panel thanks to the axial angle.
 On coated chipboard and not, MDF, laminated in general.
 Diamond height 3mm.

DX



5063



Caratteristiche

Punta in diamante per pantografo, per eseguire: fori, scanalature, battute, sgrossature.

L'elevato angolo assiale conferisce all'utensile una minore aggressività in fase di contatto con il materiale da lavorare, ed allo stesso tempo consente di comprimere maggiormente i rivestimenti di cui il pannello è composto eliminando le sceggiature in particolare in fase di uscita.

Eccellente finitura del pannello ad alte velocità. Su truciolare rivestito e non, MDF, laminati in genere.

Altezza diamante 3mm.

Characteristics

Diamond drill for pantograph to realise: holes, grooves, rough-hewing.

The high axial angle gives to the tool a lowest aggression in the step of contact with the material to be work, and in the same time permits o compress more the covering of the panel removing the chip in particular in exit phase.

Excellent for works at high speed, on chipboard coated panels and not, MDF, laminated in general.

Diamond height 3mm.

Punte fora e contorna per pantografo con attacco cilindrico.

Drills to perforate and blank for pantograph with cylindrical shank.

Mèches à percer et contourner pour pantographe avec queue filetée.

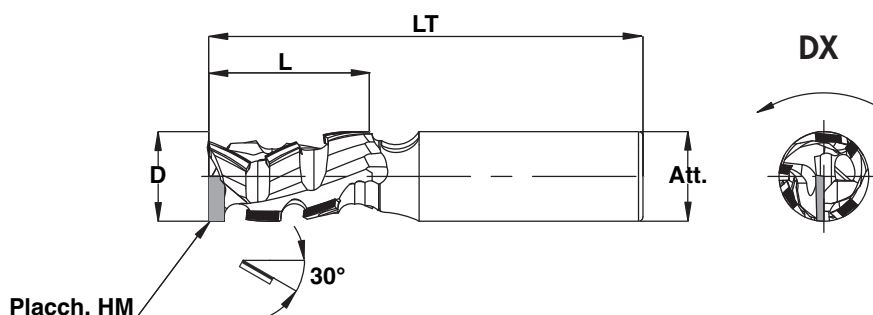
Bohrer zu bohren und umgeben für Oberfräser mit Gewindschaft.

Broca para taladrar y contornear para fresadora mango cilíndrico.

| D | L | Att. | LT | n° Placchette | ID nr. DX | ID nr. SX |
|----|----|-------|-----|---------------|-----------------|-----------------|
| 16 | 28 | 16x50 | 90 | 5+1HM | 5063 021 | 5063 022 |
| 16 | 36 | 16x50 | 98 | 6+1HM | 5063 023 | 5063 024 |
| 16 | 44 | 16x50 | 106 | 8+1HM | 5063 025 | 5063 026 |
| 18 | 28 | 20x50 | 90 | 5+1HM | 5063 027 | 5063 028 |
| 18 | 36 | 20x50 | 98 | 6+1HM | 5063 029 | 5063 030 |
| 18 | 44 | 20x50 | 106 | 8+1HM | 5063 031 | 5063 032 |
| 18 | 52 | 20x50 | 114 | 10+1HM | 5063 033 | 5063 034 |
| 20 | 28 | 20x50 | 90 | 5+1HM | 5063 035 | 5063 036 |
| 20 | 36 | 20x50 | 98 | 6+1HM | 5063 037 | 5063 038 |
| 20 | 44 | 20x50 | 106 | 8+1HM | 5063 039 | 5063 040 |
| 20 | 52 | 20x50 | 114 | 10+1HM | 5063 041 | 5063 042 |
| 20 | 64 | 20x50 | 126 | 13+1HM | 5063 043 | 5063 044 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%



Placch. HM

Punte tipo POWER Z3 fora e contorna per pantografo con attacco cilindrico.

Drills POWER type Z3 to perforate and blank for pantograph with cylindrical shank.

Mèches type POWER Z3 à percer et contourner pour pantographe avec queue fileté.

Bohrer POWER Typ Z3 zu bohren und umgeben für Oberfräser mit Gewindschaft.

Broca tipo POWER Z3 para taladrar y contornear para fresadora mango cilíndrico.

| D | L | Att. | LT | n° Placchette | ID nr. DX | ID nr. SX |
|----|------|--------|-------|---------------|-----------------|-----------------|
| 22 | 36 | Ø20x50 | 95 | 11+2+1HM | 5066 001 | 5066 002 |
| 22 | 49 | Ø20x50 | 108 | 17+2+1HM | 5066 003 | 5066 004 |
| 22 | 55,5 | Ø20x50 | 114,5 | 20+2+1HM | 5066 005 | 5066 006 |
| 22 | 66,5 | Ø20x50 | 125,5 | 25+2+1HM | 5066 007 | 5066 008 |
| 22 | 36 | Ø25x55 | 100 | 11+2+1HM | 5066 009 | 5066 010 |
| 22 | 49 | Ø25x55 | 113 | 17+2+1HM | 5066 011 | 5066 012 |
| 22 | 55,5 | Ø25x55 | 119,5 | 20+2+1HM | 5066 013 | 5066 014 |
| 22 | 66,5 | Ø25x55 | 130,5 | 25+2+1HM | 5066 015 | 5066 016 |

Attacco CM2 aumento 20%

Shank CM2 increase 20%

5066



MEC

Caratteristiche

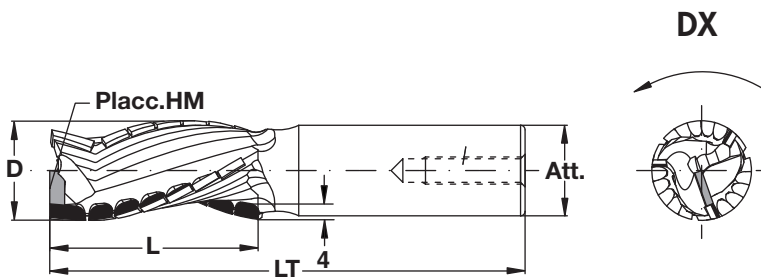
Punta in diamante per pantografo, per eseguire: fori, scanalature, battute, sgrossature all'interno dei pannelli.

Ottima finitura della parte superiore ed inferiore del pannello grazie all'angolo assiale accentuato e alla particolare costruzione dell'utensile che permette in questi punti di avere sempre tre taglienti a contatto. Altezza diamante 4mm.

Characteristics

Diamond drill for pantograph to realise: holes, grooves and rough-hewing inside the panels. Excellent finish of both upper and lower part of the panel thanks to the stressed axial corner and to its particular manufacturing that allows to have three cutters always in touch.

Diamond height 4mm.



5067



MEC



Caratteristiche

Punta in diamante per pantografo, per eseguire: fori, scanalature, battute, sgrossature.

La particolare disposizione delle placchette consente di migliorare l'asportazione e ridurre la rumorosità.

Particolarmente adatta per lavorare ad alte velocità di taglio in fase di contornatura, ottima finitura del pannello. Su truciolare rivestito e non, MDF, laminati in genere.

Altezza diamante 4,2mm

Characteristics

Diamond drill for pantograph to realise: holes, grooves, rough-hewing.

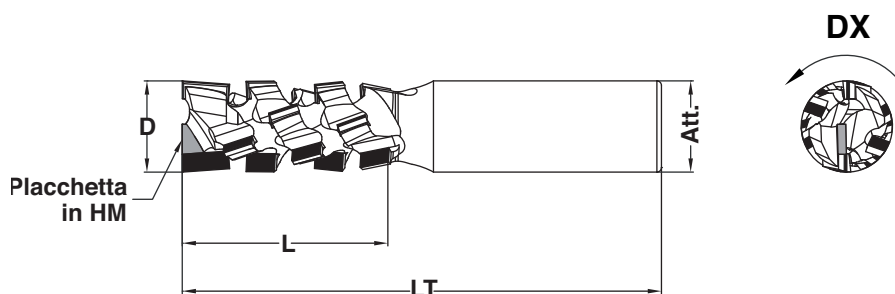
The particular position of the cutters reduces the noise and improves the removal of wood. Excellent for works at high speed, on chipboard coated panels and not, MDF, laminated in general.

Diamond height 4,2mm.

Punte fora e contorna per pantografo con attacco cilindrico.
Drills to perforate and blank for pantograph with cylindrical shank.
Mèches à percer et contourner pour pantographe avec queue fileté.
Bohrer zu bohren und ungeben für Oberfräser mit Gewindschaft.
Broca para taladrar y contornear para fresadora mango cilíndrico.

| D | L | Att. | LT | n° Placchette | ID nr. DX | ID nr. SX |
|----|----|--------|-----|---------------|-----------------|-----------------|
| 20 | 25 | Ø20x50 | 85 | 6+2+1HM | 5067 001 | 5067 002 |
| 20 | 35 | Ø20x50 | 95 | 10+2+1HM | 5067 003 | 5067 004 |
| 20 | 45 | Ø20x50 | 105 | 14+2+1HM | 5067 005 | 5067 006 |
| 20 | 60 | Ø20x50 | 120 | 20+2+1HM | 5067 017 | 5067 018 |
| 25 | 25 | Ø25x55 | 90 | 9+3+1HM | 5067 007 | 5067 008 |
| 25 | 35 | Ø25x55 | 100 | 15+3+1HM | 5067 009 | 5067 010 |
| 25 | 45 | Ø25x55 | 110 | 21+3+1HM | 5067 011 | 5067 012 |
| 25 | 55 | Ø25x55 | 120 | 27+3+1HM | 5067 013 | 5067 014 |
| 25 | 60 | Ø25x55 | 125 | 30+3+1HM | 5067 015 | 5067 016 |
| 25 | 70 | Ø25x55 | 135 | 36+3+1HM | 5067 019 | 5067 020 |

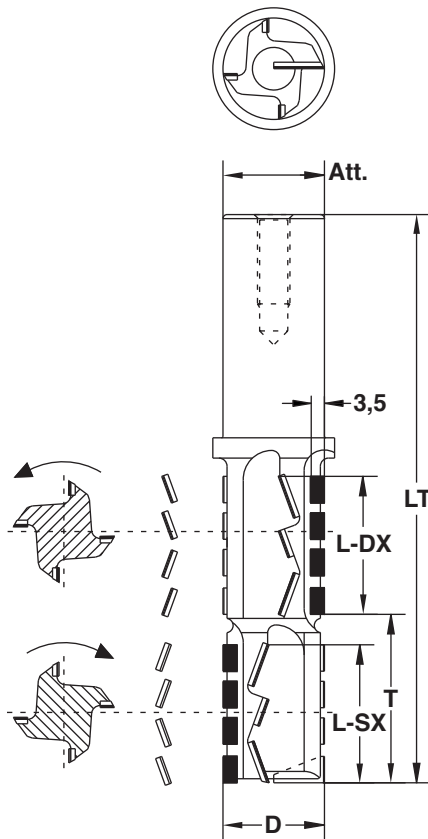
Attacco CM2 aumento 20%
Shank CM2 increase 20



Punte per forare e contornare ambidestre Z4 con attacco cilindrico.
Drills for perforate and blank ambidextrous Z4 with cylindrical shank.
 Mèches à percer et contourner ambidextre Z4 avec attaque cylindrique.
Bohrer zu Bohrer und Ungeben beidhändig Z4 mit konisch Angriff.
 Brocas bilaterales Z4 para taladrar y contornear con mango cilíndrico.

5050

| D | L-DX | L-SX | LT | T | Att. | n° Placchette | ID nr. |
|----|------|------|-----|------|--------|---------------|---------|
| 25 | 26 | 26 | 120 | 32,5 | Ø25x55 | 12+8+1 | 5050004 |
| 25 | 34 | 34 | 140 | 42 | Ø25x55 | 19+8+1 | 5050003 |
| 25 | 42 | 42 | 157 | 50 | Ø25x55 | 27+8+1 | 5050001 |
| 25 | 50 | 50 | 175 | 57 | Ø25x55 | 35+8+1 | 5050002 |



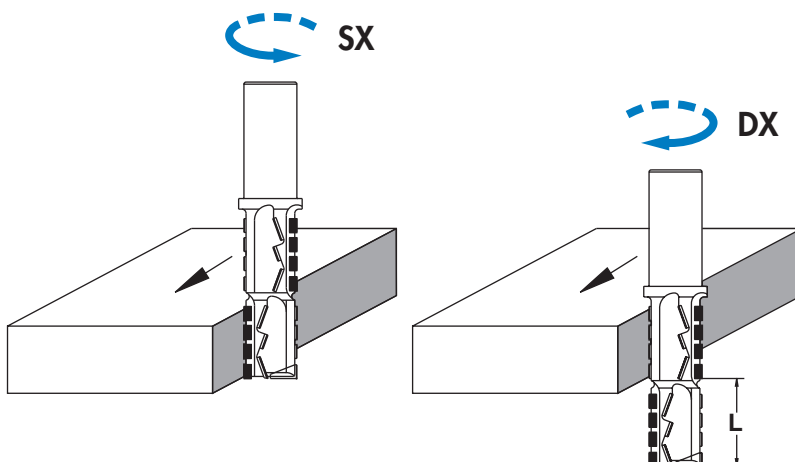
Caratteristiche

Punta in diamante con 4 taglienti per pantografo, per eseguire squadrature.
 Molto utilizzata su pantografi a CNC in quanto consente di risparmiare tempo sui cambi utensile.
 Particolarmente adatta per lavorare ad alte velocità di taglio con ottima finitura della parte superiore ed inferiore del pannello grazie all'angolo assiale.
 Su truciolare rivestito e non, MDF, laminati in genere.
 Altezza diamante 3,5mm.

Characteristics

Diamond drill with 4 cuts for pantograph for makesquares.
 Suitable frequently on CNC pantograph because it gives the possibility to save time.
 Excellent for works at high speed, on chipboard coated panels and not, MDF, laminated in general.
 Excellent finish thanks to the axial angle.
 Diamond height 3,5mm.

ESEMPI DI LAVORAZIONE



5044



Punte per cerniere Z2+2.

Hinge drills Z2+2.

Mèches pour trous de précision Z2+2.

Beschlabohrer Z2+2.

Brocas para herramientas de puertas y ventanas Z2+2.

| D | Att. | LT | ID nr. DX | ID nr. SX |
|----|--------|------|-----------------|-----------------|
| 25 | Ø10x25 | 57,5 | 5044 001 | 5044 002 |
| 25 | Ø10x25 | 70 | 5044 003 | 5044 004 |
| 30 | Ø10x25 | 57,5 | 5044 005 | 5044 006 |
| 30 | Ø10x25 | 70 | 5044 007 | 5044 008 |
| 35 | Ø10x25 | 57,5 | 5044 009 | 5044 010 |
| 35 | Ø10x25 | 70 | 5044 011 | 5044 012 |
| 40 | Ø10x25 | 57,5 | 5044 013 | 5044 014 |
| 40 | Ø10x25 | 70 | 5044 015 | 5044 016 |

MEC



Caratteristiche

Punta in diamante per eseguire sedi per cerniere, con ottima finitura della parte superiore del pannello e foro di diametro per tutta la sua profondità.

Su pannelli in truciolare rivestiti e non, MDF, laminati in genere.

Da montare su macchine foratrici.

Altezza diamante 4mm.

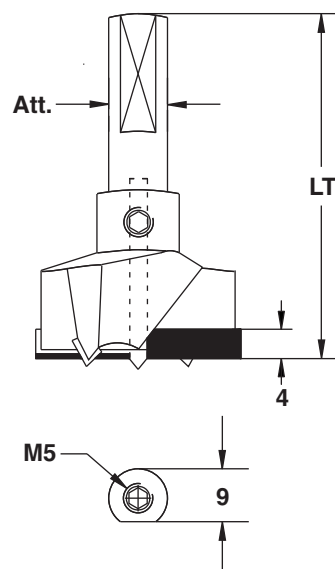
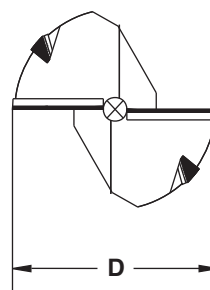
Characteristics

Diamond drill with for make seats with excellent finish of upper part of panel and with diameter of hole constant for all his depth.

On chipboard coated panels and not, MDF, laminated in general.

To put on drilling machines.

Diamond height 4mm.



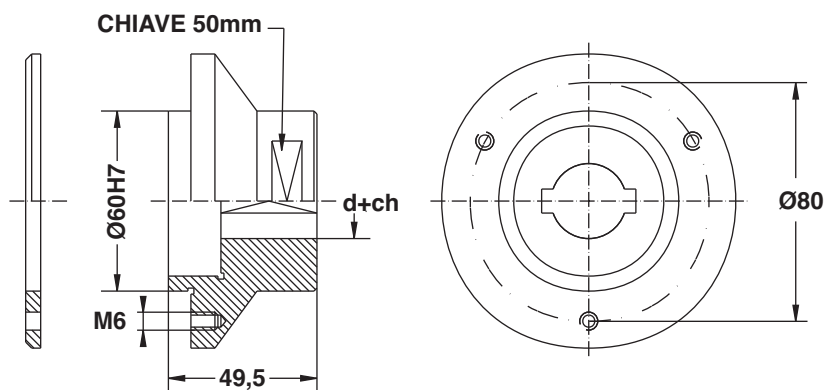
RICAMBI

PUNTA CENTRALE

| | |
|--------------|-----------------|
| Dimensioni | Ø3x32 |
| n° pezzi KIT | 2 |
| ID nr. | 5044 051 |

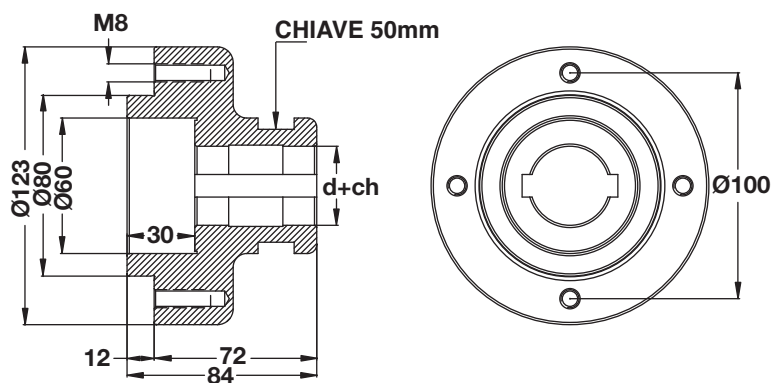
Mozzi porta-incisore.
Sleeves carrying scoring blades.
 Manchons porte-inciseurs.
Spannbüchse für Kreissägeblatt.
 Casquillos portaincisores.

| d+ch | ID nr. |
|------|-----------------|
| 25+2 | 5046 001 |
| 30+2 | 5046 002 |
| 35+2 | 5046 003 |



Mozzi porta-truciatore.
Sleeves carrying trimming hogger.
 Manchons porte-décheteur.
Spannbüchse für Zerspaner.
 Casquillos portadesmenuzador.

| d+ch | ID nr. |
|------|-----------------|
| 35+2 | 5045 003 |
| 40+2 | 5045 004 |



5046



Caratteristiche

Mozzo di alta precisione e sicurezza per il montaggio di incisori su squadratrici.

Characteristics

High precision and security sleeve to assemble on scoring blades for double-end profilers.

5045



Caratteristiche

Mozzo di alta precisione e sicurezza per il montaggio di truciolatori.

Characteristics

High precision and security sleeve to assemble on trimming hoggers.

5065

Portafrese per ART. 5037-5038.
 Cutters carrier for ART. 5037-5038.
 Porte-fraises pour l'ART. 5037-5038.
 Fräserträger für ART. 5037-5038.
 Portafresas para el ART. 5037-5038.



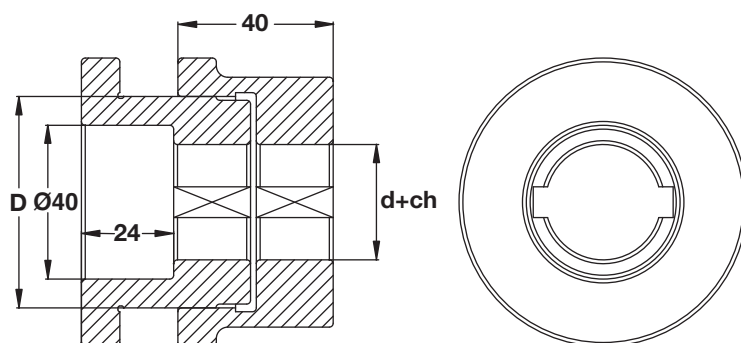
| d+ch | D | ID nr. |
|------|----|-----------------|
| 30+2 | 55 | 5065 001 |
| 35+2 | 65 | 5065 002 |
| 40+2 | 65 | 5065 003 |

Caratteristiche

Mozzi portafrese per macchine squadratrici, bordatrici, toupie.

Characteristics

Sleeves for cutters for edgebander, doble-end, profiler and toupie machines.



| D | Att. | ID nr. |
|----|--------|-----------------|
| 55 | Ø25x55 | 5065 051 |

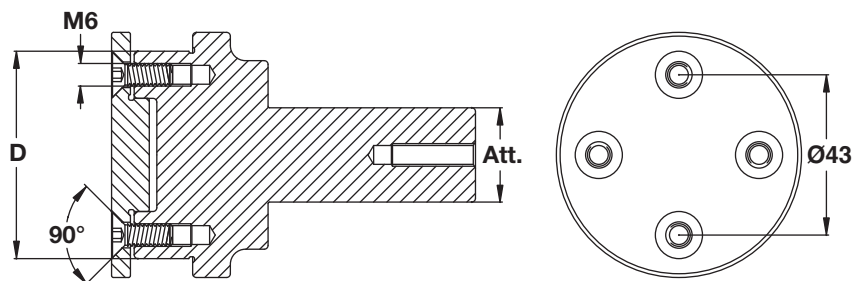


Caratteristiche

Mandrini portafrese per pantografi.

Characteristics

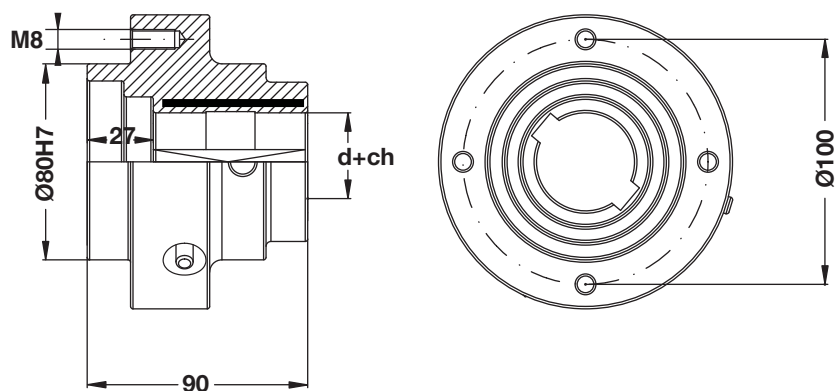
Chucks for cutters for pantographs.



Mozzi porta-truciolatore alta precisione con fissaggio HIDRO.
Sleeves carrying-hogging high precision with HIDRO system.
 Moyeu porte-dechiqueteur haut precision avec HIDRO système.
Habe trage-Spanner hohe genauigkeit mit HIDRO System.
 Casquillos portadesmenuzador elevada precisión con sistema de bloqueo HIDRO.

5047

| d+ch | ID nr. |
|------|-----------------|
| 30+2 | 5047 011 |
| 35+2 | 5047 012 |
| 40+2 | 5047 013 |



Caratteristiche

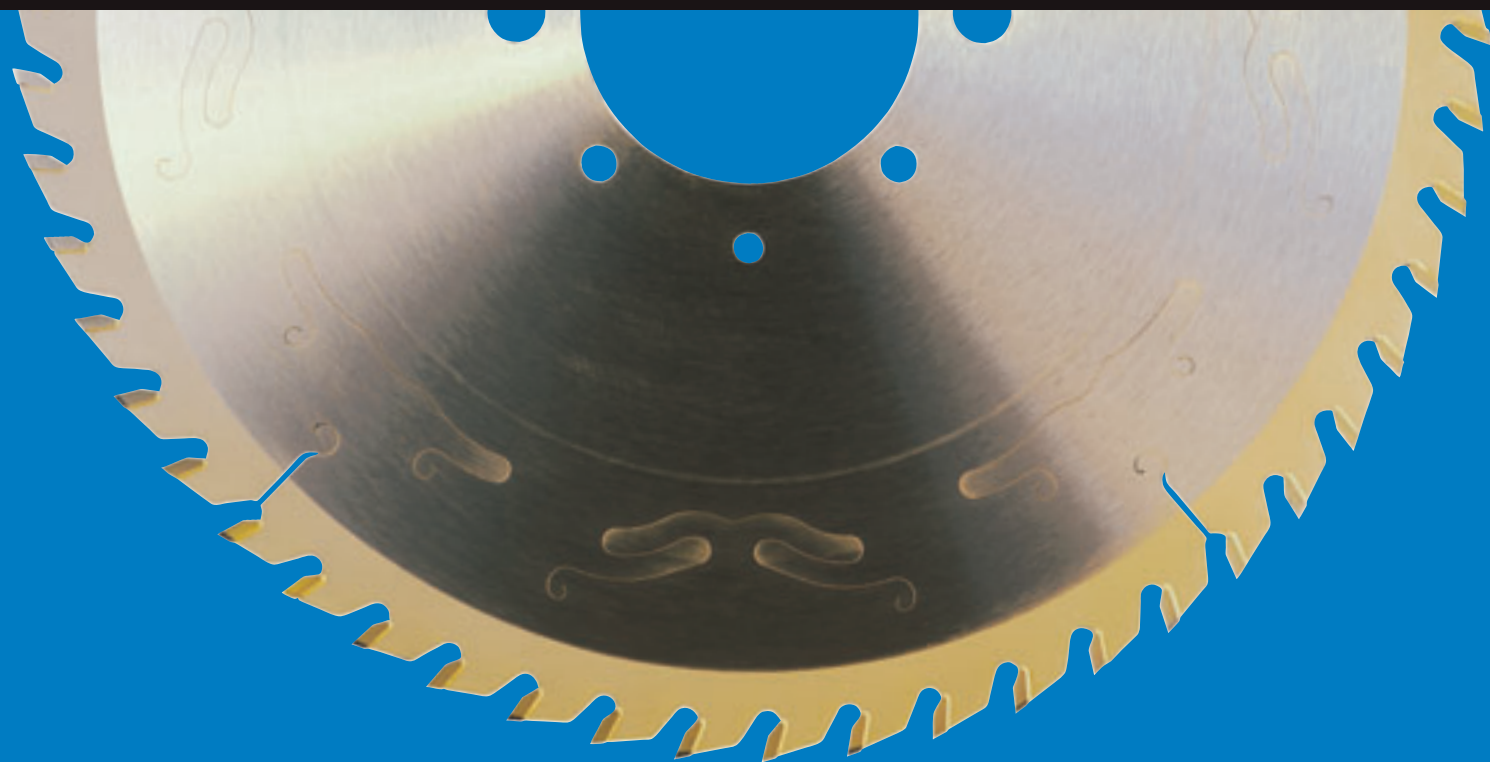
Mozzo di alta precisione e sicurezza.
 Permette di eseguire il montaggio di un utensile mantenendo un alto grado di precisione anche dopo molti bloccaggi.
 Eliminazione dei giochi tra utensile e albero motore.
 Particolarmente indicato per gli utensili in diamante.

Characteristics

Sleeve of high precision and safety.
 It is possible to have an high precision for the assembling even after different blocking.
 Elimination of movements between the tool and the motor.
 Excellent of diamond tools.



Evolved**Experience**



Lame Circolari

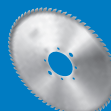
Circular Sawblades

Lame Circolari

Circular Sawblades



Lame universali P 389
Universal sawblades



Lame per sezionatrici P 397
Panel sizing sawblades



Lame incisori P 400
Scoring sawblades



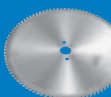
Truciolatori P 410
Hogging set



Lame per multilama P 416
Multi sawblades



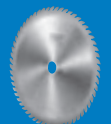
Lame per materiali ferrosi P 421
Sawblades for ferrous materials



Lame per metalli non ferrosi P 422
Sawblades for non ferrous metal



Lame silenziate universali P 425
Universal silenced sawblades



Lame silenziate per sezionatrici P 428
Silenced sawblades for panel


Lame circolari con limitatore di truciolo.




Circular sawblades with chip thickness limitation butts.

Lames circulaires avec refouleur limitant.

Zuschneid Sägeblätter Wechselzahn.

Discos de sierra con limitación para las virutas.

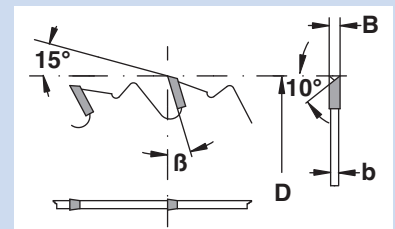
 = Disponibile anche silenziate vedi ART. 6501 / Also available with silenced body see ART. 6501

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|--|
| 250 | 3,2 | 2,2 | 30 | PH03 | 24 | 20 | 6007 001 |
| 250 | 3,2 | 2,2 | 35 | - | 24 | 20 | 6007 002 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 28 | 20 | 6007 003  |
| 300 | 3,2 | 2,2 | 35 | - | 28 | 20 | 6007 004 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 32 | 18 | 6007 005  |
| 350 | 3,5 | 2,5 | 35 | - | 32 | 18 | 6007 006  |
| 400 | 3,8 | 2,5 | 30 | PH03 | 36 | 18 | 6007 013 |
| 400 | 3,8 | 2,5 | 35 | - | 36 | 18 | 6007 014 |
| 450 | 4,2 | 2,8 | 30 | PH03 | 40 | 18 | 6007 015 |
| 500 | 4,2 | 2,8 | 30 | PH03 | 44 | 18 | 6007 016 |
| 550 | 4,4 | 3,5 | 30 | PH03 | 48 | 18 | 6007 017 |

Lame per tagli lungo vena di legni duri e teneri con limitatore di truciolo per evitare contraccolpi.

Sawblades for ripping of hardwoods and softwoods with chip limitation butts.

6007



Lame circolari universali per taglio lungo vena.

Circular sawblades for ripping.

Lames circulaires.

Zuschneid Sägeblätter.

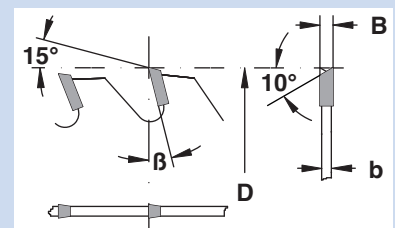
Discos de sierra para cortes longitudinales.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 24 | 15 | 6001 001 |
| 250 | 3,2 | 2,2 | 35 | - | 24 | 15 | 6001 002 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 28 | 15 | 6001 003 |
| 300 | 3,2 | 2,2 | 35 | - | 28 | 18 | 6001 004 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 32 | 18 | 6001 005 |
| 350 | 3,5 | 2,5 | 35 | - | 32 | 18 | 6001 006 |
| 400 | 3,8 | 2,8 | 30 | PH03 | 36 | 16 | 6001 019 |
| 400 | 3,8 | 2,8 | 35 | - | 36 | 16 | 6001 020 |
| 450 | 4,2 | 3,2 | 30 | PH03 | 40 | 18 | 6001 021 |
| 500 | 4,2 | 3,2 | 30 | PH03 | 44 | 18 | 6001 022 |
| 550 | 4,5 | 3,4 | 30 | PH03 | 48 | 20 | 6001 017 |
| 600 | 4,5 | 3,4 | 30 | PH03 | 54 | 20 | 6001 018 |

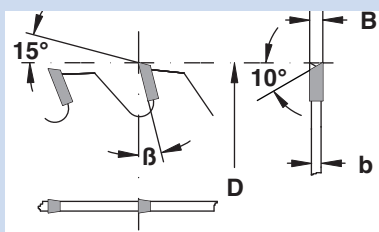
Lame per taglio lungo vena con media finitura e ottimo scarico di truciolo.

Sawblades for ripping with medium finish and excellent chip removal.

6001



6002



Lame circolari universali per taglio lungo vena.

Universal circular sawblades for ripping.

Lames circulaires.

Zuschneid Sägeblätter.

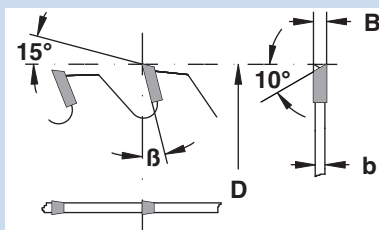
Discos de sierra para cortes longitudinales.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 30 | 13 | 6002 013 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 36 | 13 | 6002 001 |
| 300 | 3,2 | 2,2 | 35 | - | 36 | 13 | 6002 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 42 | 13 | 6002 003 |
| 350 | 3,5 | 2,5 | 35 | - | 42 | 13 | 6002 004 |
| 400 | 3,8 | 2,8 | 30 | PH03 | 48 | 13 | 6002 014 |
| 400 | 3,8 | 2,8 | 35 | - | 48 | 13 | 6002 015 |
| 500 | 4,2 | 3,2 | 30 | PH03 | 60 | 13 | 6002 016 |
| 550 | 4,5 | 3,4 | 30 | PH03 | 66 | 13 | 6002 012 |
| 600 | 4,5 | 3,4 | 30 | PH03 | 72 | 13 | 6002 011 |

Lame per taglio lungo vena con media finitura e ottimo scarico di truciolo.

Sawblades for ripping with medium finish and excellent chip removal.

6003



Lame circolari universali per taglio lungo e trasverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales y transversales.

= Disponibile anche silenziate vedi ART. 6502 / Also available with silenced body see ART. 6502

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 150 | 3,2 | 2,2 | 30 | PH03 | 24 | 13 | 6003 021 |
| 180 | 3,2 | 2,2 | 30 | PH03 | 30 | 13 | 6003 022 |
| 200 | 3,2 | 2,2 | 30 | PH03 | 34 | 13 | 6003 023 |
| 200 | 3,2 | 2,2 | 35 | - | 34 | 13 | 6003 004 |
| 220 | 3,2 | 2,2 | 30 | PH03 | 34 | 13 | 6003 005 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 40 | 13 | 6003 006 |
| 250 | 3,2 | 2,2 | 35 | - | 40 | 13 | 6003 007 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 48 | 13 | 6003 008 |
| 300 | 3,2 | 2,2 | 35 | - | 48 | 13 | 6003 009 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 54 | 13 | 6003 010 |
| 350 | 3,5 | 2,5 | 35 | - | 54 | 13 | 6003 011 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 60 | 13 | 6003 017 |
| 400 | 4,0 | 2,8 | 35 | - | 60 | 13 | 6003 018 |
| 450 | 4,4 | 3,2 | 30 | PH03 | 66 | 13 | 6003 019 |
| 500 | 4,4 | 3,2 | 30 | PH03 | 72 | 13 | 6003 020 |

Lame per taglio lungo e trasverso vena con media finitura.

Sawblades for ripping and cross cutting with medium finish.

Lame circolari universali per taglio lungo e trasverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales y transversales.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|-----------------|
| 150 | 3,2 | 2,2 | 30 | PH03 | 30 | 12 | 6004 019 |
| 180 | 3,2 | 2,2 | 30 | PH03 | 36 | 12 | 6004 020 |
| 220 | 3,2 | 2,2 | 30 | PH03 | 48 | 12 | 6004 003 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 48 | 12 | 6004 004 |
| 250 | 3,2 | 2,2 | 35 | - | 48 | 12 | 6004 005 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 60 | 12 | 6004 006 |
| 300 | 3,2 | 2,2 | 35 | - | 60 | 12 | 6004 007 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 72 | 12 | 6004 008 |
| 350 | 3,5 | 2,5 | 35 | - | 72 | 12 | 6004 009 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 80 | 12 | 6004 015 |
| 400 | 4,0 | 2,8 | 35 | - | 80 | 12 | 6004 016 |
| 450 | 4,4 | 3,2 | 30 | PH03 | 84 | 12 | 6004 017 |
| 500 | 4,4 | 3,2 | 30 | PH03 | 108 | 12 | 6004 018 |

Lame per taglio lungo e trasverso vena con media finitura.

Sawblades for ripping and cross cutting with medium finish.


Lame circolari universali per taglio lungo e trasverso vena.









Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales y transversales.

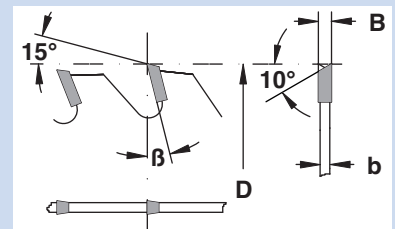
 = Disponibile anche silenziata vedi ART. 6503 / Also available with silenced body see ART. 6503

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|--|
| 150 | 3,2 | 2,2 | 30 | PH03 | 36 | 12 | 6005 021 |
| 180 | 3,2 | 2,2 | 30 | PH03 | 48 | 12 | 6005 022 |
| 200 | 3,2 | 2,2 | 30 | PH03 | 48 | 12 | 6005 023 |
| 200 | 3,2 | 2,2 | 35 | - | 48 | 12 | 6005 004 |
| 220 | 3,2 | 2,2 | 30 | PH03 | 64 | 12 | 6005 019 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | 12 | 6005 005  |
| 250 | 3,2 | 2,2 | 35 | - | 60 | 12 | 6005 006  |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | 12 | 6005 007  |
| 300 | 3,2 | 2,2 | 35 | - | 72 | 12 | 6005 008  |
| 315 | 3,2 | 2,2 | 30 | PH03 | 72 | 12 | 6005 020 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | 12 | 6005 009  |
| 350 | 3,5 | 2,5 | 35 | - | 84 | 12 | 6005 010  |
| 400 | 4,0 | 2,8 | 30 | PH03 | 96 | 12 | 6005 015  |
| 400 | 4,0 | 2,8 | 35 | - | 96 | 12 | 6005 016  |
| 450 | 4,4 | 3,2 | 30 | PH03 | 108 | 12 | 6005 017 |
| 500 | 4,4 | 3,2 | 30 | PH03 | 120 | 12 | 6005 018 |

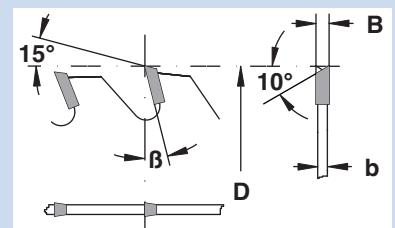
Lame per taglio lungo e trasverso vena con ottima finitura di legni teneri, duri e di pannelli truciolari.

Sawblades for ripping and cross cutting with excellent finish on softwoods, hardwoods and chipboard panels.

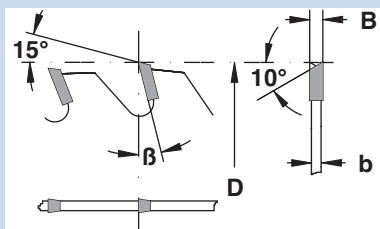
6004



6005






6006



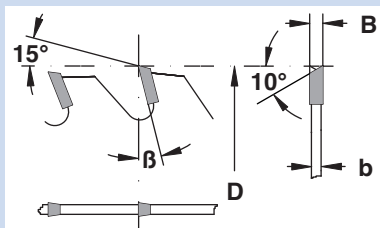
Lame circolari universali per taglio lungo e trasverso vena.
Universal circular sawblades for ripping and cross cutting.
 Lames circulaires.
Zuschneid Sägeblätter.
 Discos de sierra para cortes longitudinales y transversales.

 = Disponibile anche silenziate vedi ART. 6504 / Also available with silenced body see ART. 6504

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|---|
| 150 | 3,2 | 2,2 | 30 | PH03 | 48 | 10 | 6006 019 |
| 180 | 3,2 | 2,2 | 30 | PH03 | 56 | 10 | 6006 020 |
| 200 | 3,2 | 2,2 | 30 | PH03 | 64 | 10 | 6006 021 |
| 200 | 3,2 | 2,2 | 35 | - | 64 | 10 | 6006 004 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 80 | 10 | 6006 005  |
| 250 | 3,2 | 2,2 | 35 | - | 80 | 10 | 6006 006 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6006 007  |
| 300 | 3,2 | 2,2 | 35 | - | 96 | 10 | 6006 008 |
| 330 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6006 009 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 10 | 6006 010  |
| 350 | 3,5 | 2,5 | 35 | - | 108 | 10 | 6006 011 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 120 | 10 | 6006 015 |
| 400 | 4,0 | 2,8 | 35 | - | 120 | 10 | 6006 016 |
| 450 | 4,4 | 3,2 | 30 | PH03 | 132 | 10 | 6006 017 |
| 550 | 4,4 | 3,2 | 30 | PH03 | 144 | 10 | 6006 018 |

Lame per taglio lungo vena con ottima finitura di legni teneri, duri e di pannelli truciolari.
Sawblades for ripping with excellent finish on soft, hardwoods and chipboard panels.

6009



Lame circolari universali a spessore sottile.
Universal circular sawblades with thin kerf.
 Lames circulaires avec épaisseur mince.
Zuschneid Sägeblätter.
 Discos de sierra con espesor fino.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 250 | 2,6 | 1,8 | 30 | PH03 | 60 | 12 | 6009 001 |
| 300 | 2,6 | 1,8 | 30 | PH03 | 72 | 12 | 6009 002 |

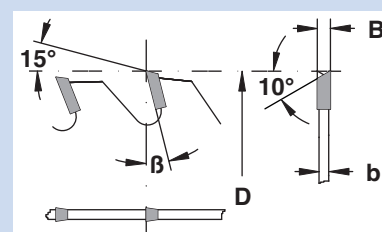
Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.
Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

Lame circolari universali a spessore sottile.
Universal circular sawblades with thin kerf.
 Lames circulaires avec épaisseur mince.
Zuschneid Sägeblätter.
 Discos de sierra con espesor fino.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|-----------------|
| 150 | 2,2 | 1,6 | 30 | PH03 | 48 | 10 | 6010 001 |
| 180 | 2,2 | 1,6 | 30 | PH03 | 56 | 10 | 6010 002 |
| 200 | 2,2 | 1,6 | 30 | PH03 | 64 | 10 | 6010 003 |
| 250 | 2,5 | 1,8 | 30 | PH03 | 80 | 10 | 6010 004 |
| 300 | 2,6 | 1,8 | 30 | PH03 | 96 | 10 | 6010 005 |
| 350 | 3,0 | 2,2 | 30 | PH03 | 108 | 10 | 6010 007 |

Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.
Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

6010

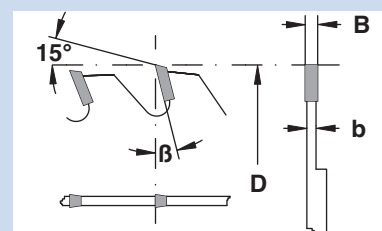


Lame circolari a spessore extra sottile con corpo rinforzato.
Universal circular sawblades with extra kerf with blade bossed in both sides.
 Lames circulaires avec épaisseur extra mince et corps renforcé.
Zuschneid Sägeblätter wechselzahn trennschnittgüte in Feinschnittgüte.
 Discos de sierra con espesor extra fino con cuerpo reforzado.

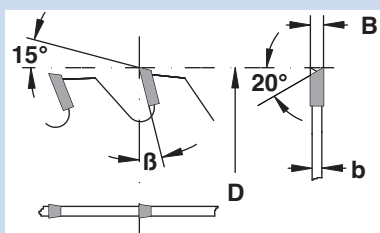
| D | B | b | T.U. | d | Z | β | ID nr. |
|-----|-----|---------|------|----|----|----|-----------------|
| 150 | 1,6 | 1,1/2,2 | 20 | 30 | 48 | 8 | 6011 001 |
| 200 | 1,6 | 1,1/2,2 | 25 | 30 | 64 | 10 | 6011 002 |
| 250 | 1,7 | 1,1/2,2 | 35 | 30 | 80 | 10 | 6011 003 |

Lama corpo rinforzato con limitatore di altezza taglio.
Sawblade with blade bossed in both sides with limitation of cut.

6011



6012

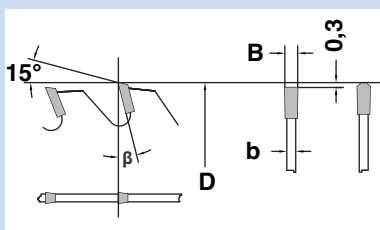


Lame circolari per taglio di cornici sottili.
Circular sawblades suitable for cutting frames.
 Lames circulaires aptes pour coupe de cadres.
Kreissägeblatt für Rahmencuschnitt.
 Discos de sierra para marcos finos.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|-----------------|
| 250 | 2,9 | 2,5 | 30 | PH03 | 80 | 10 | 6012 001 |
| 300 | 2,9 | 2,5 | 30 | PH03 | 96 | 10 | 6012 002 |
| 330 | 3,4 | 3,0 | 30 | PH03 | 96 | 10 | 6012 003 |
| 350 | 3,4 | 3,0 | 30 | PH03 | 108 | 10 | 6012 004 |

Lama per taglio di cornici in legno ricoperto di vernice. Ottima finitura anche per tagli a 45°.
Sawblade for cutting wood picture-frames coated with paint. Perfect finish for cutting at 45°.

6013



Lame circolari per taglio di pannelli truciolari.
Circular sawblades for cutting chipboard panels.
 Lames circulaires pour panneaux.
Zuschneid Sägeblätter.
 Discos de sierra para paneles aglomerados.

= Disponibile anche silenziata vedi ART. 6505 / Also available with silenced body see ART. 6505

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|-----------------|
| 220 | 3,2 | 2,2 | 30 | PH03 | 64 | 10 | 6013 007 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | 12 | 6013 001 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 80 | 10 | 6013 002 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | 12 | 6013 003 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6013 004 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | 12 | 6013 005 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 10 | 6013 006 |

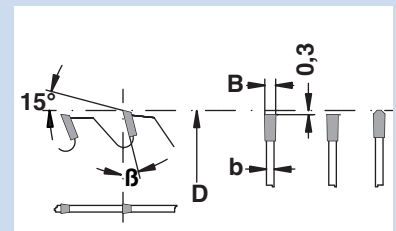
Lama con ottima finitura su MDF truciolari ricoperti di melaminico.
Sawblade with excellent finish on MDF laminated chipboard.

Lame circolari con geometria RRT per taglio di pannelli truciolari.
Circular sawblades with RRT geometry for cutting chipboard panels.
 Lames circulaires avec géométrie RRT pour panneaux.
Sägeblatt mit Geometrie RRT für Platten.
 Discos de sierra con geometria RRT para paneles aglomerados.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|---------|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 78 | 10 | 6046 001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6046 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 10 | 6046 003 |

Lama con ottima finitura su MDF truciolari ricoperti di melaminico.
Sawblade with excellent finishing on MDF laminated chipboard.

6046



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

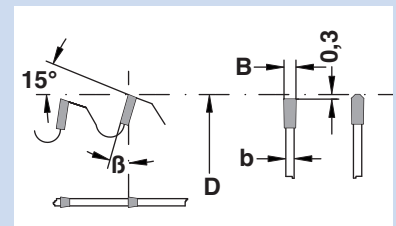
PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari per taglio di pannelli truciolari negative a 6°.
Circular sawblades for cutting chipboard panels negative 6°.
 Lames circulaires pour panneaux negatives 6°.
Zuschneid Sägeblätter negativ 6°.
 Discos de sierra para paneles aglomerados negativos a 6°.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|---------|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | -6 | 6014 001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | -6 | 6014 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | -6 | 6014 003 |

Lama con dente negativo per limitare notevolmente le scheggiature nei tagli ricoperti di melaminico su entrambi i lati.
Sawblade with negative cut for limiting considerably the chipping in laminated chipboard on both sides.

6014



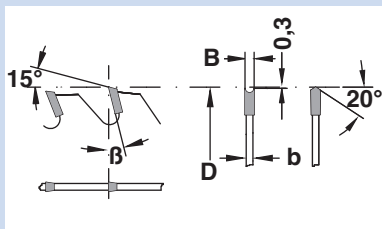
6047



Lame circolari con dente concavo per taglio di pannelli truciolari.
Circular sawblades with concave tooth for cutting chipboard panels.
Lames circulaires avec le dent concave pour couper panneaux à copeaux.
Kreissägen mit konkav Zahn für Paneelen zu schneiden.
Discos de sierra con diente cóncavo para cortar paneles aglomerados.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|---------|-----------------|
| 220 | 3,2 | 2,2 | 30 | PH03 | 42 | 10 | 6047 004 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 48 | 10 | 6047 001 |
| 303 | 3,2 | 2,2 | 30 | PH03 | 60 | 10 | 6047 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 72 | 10 | 6047 003 |

Lama con ottima finitura su MDF truciolari ricoperti di melaminico.
Sawblade with excellent finishing on MDF laminated chipboard.



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

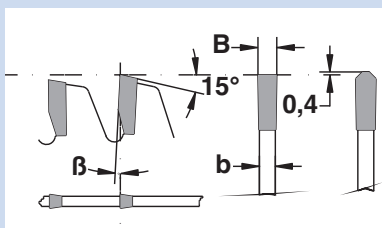
6045



Lame circolari per taglio di materiali plastici.
Circular sawblades for cutting plastic material.
Lames circulaires pour matière plastique.
Zuschneid Sägeblätter für Plastikmaterial.
Discos de sierra para materiales plásticos.


| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|---------|-----------------|
| 200 | 2,6 | 1,8 | 30 | PH03 | 64 | -3 | 6045 004 |
| 250 | 2,8 | 2,2 | 30 | PH03 | 80 | -3 | 6045 001 |
| 300 | 2,8 | 2,2 | 30 | PH03 | 96 | -3 | 6045 002 |
| 350 | 2,8 | 2,2 | 30 | PH03 | 108 | -3 | 6045 003 |



















































Lama con ottima finitura su PLEXIGLASS.
Sawblade with excellent finishing on PLEXIGLASS.

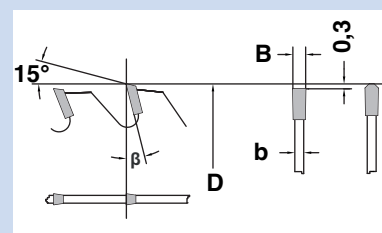


Lame per sezionatrici con taglienti a sbazzare e finire.
Sawblades for cutting panels with roughing and finishing teeth.
 Lames pour coupe des panneaux avec dents à aboucher et à finir.
Zuschneid Sägeblätter von beachtliche Stärke zu schneiden von Plattenin Spapeln.
 Discos de sierra para seccionadoras con cuchillas para cantear.

6015

 = Disponibile anche silenziate vedi ART. 6506 / Also available with silenced body see ART. 6506

| D1 | B/B1 | b | d | PH | MACCHINA | Z | β | ID nr. |  |
|-----|------|-----|----|------|----------|----|---------|-----------------|--|
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 54 | 12 | 6015 001 |  |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 12 | 6015 033 |  |
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 72 | 13 | 6015 002 |  |
| 300 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 13 | 6015 042 |  |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 13 | 6015 034 |  |
| 320 | 4,4 | 3,0 | 65 | PH05 | Selco | 60 | 16 | 6015 043 |  |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 54 | 16 | 6015 003 |  |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 54 | 16 | 6015 044 |  |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 54 | 16 | 6015 035 |  |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 54 | 16 | 6015 036 |  |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 16 | 6015 005 |  |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 6015 006 |  |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 72 | 14 | 6015 045 |  |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 72 | 14 | 6015 037 |  |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6015 038 |  |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 6015 008 |  |
| 360 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 14 | 6015 041 |  |
| 360 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6015 046 |  |
| 380 | 4,4 | 3,0 | 60 | PH04 | Holzma | 60 | 15 | 6015 047 |  |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 60 | 15 | 6015 048 |  |
| 380 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 6015 049 |  |
| 380 | 4,4 | 3,0 | 50 | 4 | Giben | 72 | 14 | 6015 050 |  |
| 380 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6015 051 |  |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 6015 040 |  |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 60 | 16 | 6015 011 |  |
| 400 | 4,4 | 3,2 | 75 | 3+3 | MacMazza | 60 | 16 | 6015 012 |  |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 60 | 16 | 6015 013 |  |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 16 | 6015 014 |  |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 15 | 6015 015 |  |
| 400 | 4,4 | 3,2 | 75 | 3+3 | MacMazza | 72 | 15 | 6015 016 |  |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 15 | 6015 017 |  |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 15 | 6015 018 |  |
| 420 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 16 | 6015 020 |  |
| 430 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 16 | 6015 021 |  |
| 430 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 16 | 6015 022 |  |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 16 | 6015 023 |  |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 16 | 6015 024 |  |
| 470 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 16 | 6015 026 |  |
| 500 | 4,4 | 3,2 | 30 | PH03 | * | 60 | 14 | 6015 028 |  |
| 500 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 14 | 6015 029 |  |
| 500 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 14 | 6015 030 |  |
| 500 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 14 | 6015 031 |  |
| 380 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 15 | 6015 052 |  |
| 400 | 4,8 | 3,5 | 60 | PH04 | Holzma | 60 | 16 | 6015 053 |  |
| 400 | 4,8 | 3,8 | 60 | PH04 | Holzma | 72 | 15 | 6015 054 |  |
| 420 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 16 | 6015 055 |  |
| 450 | 4,8 | 3,8 | 60 | PH04 | Holzma | 72 | 16 | 6015 056 |  |
| 500 | 4,8 | 3,5 | 60 | PH04 | Holzma | 60 | 14 | 6015 057 |  |
| 500 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 14 | 6015 058 |  |



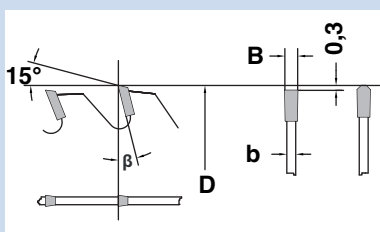
* Vedi "Tabella di riferimento per sezionatrici" pagg. 401-402.

* See "Reference table for panel saws" pages 401-402.

Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

6015



* Vedi "Tabella di riferimento per sezionatrici"
pagg. 401-402.

* See "Reference table for panel saws"
pages 401-402.

Per forature **PH** vedi "Disegni di riferimento per
forature" pagg. 403-404.

PH holes see "Reference drawings for standard
pin holes" pages 403-404.

Lame per sezionatrici con taglienti a sbazzare e finire.

Sawblades for cutting panels with roughing and finishing teeth.

Lames pour coupe des panneaux avec dents à aboucher et à finir.

Zuschneid Sägeblätter von beachtliche Stärke zu schneiden von Platten in Spapeln.

Discos de sierra para seccionadoras con cuchillas para cantar.

| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|-----|------|----------|----|---------|-----------------|
| 480 | 5,2 | 3,5 | 80 | PH01 | * | 72 | 16 | 6015 027 |
| 550 | 5,2 | 3,5 | 80 | PH01 | * | 72 | 14 | 6015 059 |
| 565 | 5,2 | 3,5 | 100 | - | Giben | 48 | 15 | 6015 060 |
| 565 | 5,2 | 3,5 | 100 | - | Giben | 72 | 14 | 6015 032 |
| 570 | 5,2 | 3,5 | 80 | PH01 | * | 64 | 16 | 6015 061 |
| 600 | 5,8 | 4,0 | 60 | PH04 | Holzma | 60 | 16 | 6015 062 |

Lama per taglio sezionatura in pacco di truciolare ricoperto di melaminico o materiale
plastico con ottima finitura.

*Sawblade for cutting panels in stacks coated of laminated or plastic material
with excellent finish.*

Lame circolari per sezionatrici a denti alternati.

Circular sawblades for panel sizing with alternate top bevel teeth.

Lames pour débit des panneaux avec denture alternée.

Universal Kreissägeblatt mit Wechselzahn.

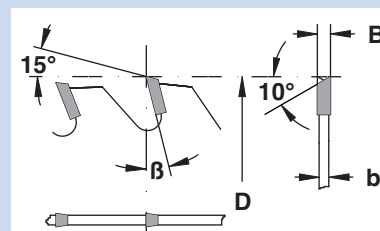
Discos de sierra para seccionadoras con dientes alternados.

| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|-----|------|----------|----|---------|-----------------|
| 300 | 4,4 | 3,0 | 30 | PH03 | * | 48 | 14 | 6016 001 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 54 | 16 | 6016 005 |
| 350 | 4,4 | 3,0 | 75 | - | - | 54 | 16 | 6016 006 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 16 | 6016 007 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 48 | 16 | 6016 008 |
| 400 | 4,4 | 3,2 | 75 | - | - | 48 | 16 | 6016 009 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 48 | 16 | 6016 010 |
| 410 | 4,4 | 3,2 | 80 | PH01 | * | 48 | 16 | 6016 012 |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 54 | 16 | 6016 013 |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 54 | 16 | 6016 014 |
| 500 | 4,4 | 3,2 | 30 | PH03 | * | 44 | 16 | 6016 015 |
| 500 | 4,4 | 3,2 | 80 | PH01 | * | 44 | 16 | 6016 016 |
| 565 | 5,2 | 3,5 | 100 | - | Giben | 48 | 16 | 6016 017 |

Lama per taglio sezionatura a pacco ricoperto di melaminico o materiale plastico.

Sawblade for cutting panels in stacks coated with laminated or plastic material.

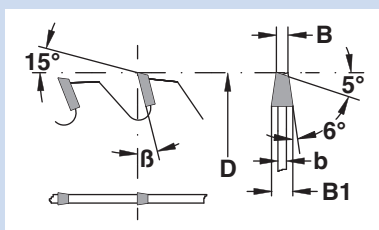
6016



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

6017



* Vedi "Tabella di riferimento per sezionatrici" pagg. 401-402.

* See "Reference table for panel saws" pages 401-402.

Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari incisori per sezionatrici con taglienti conici.

Scoring blades for panel sizing with conical teeth.

Lames à découper avec dentature conique.

Zuschneid Sägeblätter für Platten aufteilsägen mit Konisczahn.

Discos de sierra incisoros para seccionadoras con dientes cónicos.

| D1 | B/B1 | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|---------|-----|----|------|--------------------|----|---|-----------------|
| 80 | 3,2/4,4 | 2,2 | 20 | - | Casadei | 12 | 6 | 6017 001 |
| 80 | 3,2/4,4 | 2,2 | 22 | - | - | 12 | 6 | 6017 025 |
| 90 | 3,2/4,4 | 2,2 | 20 | - | - | 12 | 6 | 6017 002 |
| 90 | 3,2/4,4 | 2,2 | 22 | - | - | 12 | 6 | 6017 026 |
| 100 | 3,2/4,4 | 2,2 | 20 | - | Schelling | 20 | 6 | 6017 003 |
| 100 | 3,2/4,4 | 2,2 | 22 | - | - | 20 | 6 | 6017 027 |
| 115 | 3,2/4,4 | 2,2 | 20 | - | - | 24 | 6 | 6017 004 |
| 120 | 3,2/4,4 | 2,2 | 20 | - | - | 24 | 6 | 6017 005 |
| 120 | 3,2/4,4 | 2,2 | 22 | - | - | 24 | 6 | 6017 028 |
| 125 | 3,2/4,4 | 2,2 | 20 | - | Panhans | 24 | 6 | 6017 006 |
| 125 | 3,2/4,4 | 2,2 | 22 | - | Martin | 24 | 6 | 6017 029 |
| 120 | 3,5/4,7 | 2,2 | 20 | - | SCM | 24 | 6 | 6017 043 |
| 125 | 3,5/4,7 | 2,2 | 20 | - | - | 24 | 6 | 6017 023 |
| 150 | 3,5/4,7 | 2,2 | 30 | - | - | 36 | 6 | 6017 010 |
| 125 | 4,4/5,6 | 3,2 | 20 | - | Casadei- Schelling | 24 | 6 | 6017 007 |
| 125 | 4,4/5,6 | 3,2 | 45 | 3 | Giben-Homag | 24 | 6 | 6017 022 |
| 150 | 4,4/5,6 | 3,2 | 30 | - | SCM-Steton | 36 | 6 | 6017 011 |
| 150 | 4,4/5,6 | 3,2 | 45 | 4 | Euromac | 36 | 6 | 6017 030 |
| 160 | 4,4/5,6 | 3,2 | 45 | 3 | Giben | 36 | 6 | 6017 012 |
| 160 | 4,4/5,6 | 3,2 | 55 | 3+3 | Gabbiani-MacMazza | 36 | 6 | 6017 013 |
| 180 | 4,4/5,6 | 3,2 | 30 | - | Panhans | 36 | 6 | 6017 031 |
| 180 | 4,4/5,6 | 3,2 | 45 | - | Holzma | 36 | 6 | 6017 032 |
| 180 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 36 | 6 | 6017 033 |
| 180 | 4,4/5,6 | 3,2 | 55 | 3 | Gabbiani | 36 | 6 | 6017 034 |
| 200 | 4,4/5,6 | 3,2 | 20 | - | Schelling | 36 | 6 | 6017 014 |
| 200 | 4,4/5,6 | 3,2 | 30 | - | Scheer | 36 | 6 | 6017 015 |
| 200 | 4,4/5,6 | 3,2 | 65 | PH05 | Selco | 36 | 6 | 6017 016 |
| 200 | 4,4/5,6 | 3,2 | 80 | 2 | Gabbiani | 36 | 6 | 6017 017 |
| 215 | 4,4/5,6 | 3,2 | 50 | 3 | Giben | 42 | 6 | 6017 018 |
| 280 | 4,4/5,6 | 3,2 | 55 | 3 | MacMazza | 48 | 6 | 6017 019 |
| 300 | 4,4/5,9 | 3,2 | 50 | 3 | Giben | 48 | 6 | 6017 035 |
| 300 | 4,4/5,9 | 3,2 | 65 | PH05 | Selco | 48 | 6 | 6017 036 |
| 300 | 4,4/5,9 | 3,2 | 80 | 2 | Gabbiani | 48 | 6 | 6017 037 |
| 300 | 4,4/5,9 | 3,2 | 50 | 3 | Giben | 72 | 6 | 6017 020 |
| 300 | 4,4/5,9 | 3,2 | 65 | PH05 | Selco | 72 | 6 | 6017 021 |
| 300 | 4,4/5,9 | 3,2 | 80 | 2 | Gabbiani | 72 | 6 | 6017 038 |
| 180 | 4,8/6,0 | 3,5 | 45 | - | Holzma | 36 | 6 | 6017 039 |
| 200 | 4,8/6,0 | 3,5 | 45 | - | Holzma | 36 | 6 | 6017 040 |
| 180 | 5,2/6,4 | 3,5 | 55 | 3 | Gabbiani | 36 | 6 | 6017 041 |
| 200 | 5,2/6,4 | 3,5 | 65 | PH05 | Selco | 36 | 6 | 6017 024 |
| 200 | 5,8/7,0 | 4,0 | 45 | - | Holzma | 36 | 6 | 6017 042 |

TABELLA DI RIFERIMENTO PER SEZIONATRICI/REFERENCE TABLE FOR PANEL SAWS

LAMA/MAIN BLADE

INCISORE/SCORING BLADE

CASADEI

| D | B | d | Ø - INT. | Z | ID nr. | D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|----|----------|----|-----------------|-----|---------|----|----------|----|-----------------|
| 350 | 4,4 | 30 | - | 54 | 6015 003 | 80 | 3,2/4,4 | 20 | - | 12 | 6017 001 |
| 350 | 4,4 | 30 | - | 72 | 6015 006 | 125 | 4,6/5,6 | 20 | - | 24 | 6017 007 |

EUROMAC

| D | B | d | Ø - INT. | Z | ID nr. | D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|------|----------|----|-----------------|-----|---------|------|------------|----|-----------------|
| 350 | 4,4 | 75+2 | 11 - 100 | 72 | 6015 038 | 150 | 4,4/5,6 | 45+4 | 9-58/11-70 | 36 | 6017 030 |
| 400 | 4,4 | 75+2 | 11 - 100 | 60 | 6015 013 | | | | | | |

GABBIANI

| D | B | d | Ø - INT. | Z | ID nr. | D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|------|--|-----------------|-----------------|------|---------|--------|----------|-----|-----------------|
| 300 | 4,4 | 30+2 | 7 - 82 | 54 | 6015 001 | 150 | 4,4/5,6 | 55+3+3 | 7 - 66 | 36 | 6017 013 |
| 300 | 4,4 | 30+2 | | 72 | 6015 002 | 200 | 4,4/5,6 | 80+2 | 14 - 110 | 36 | 6017 017 |
| 300 | 4,4 | 80+2 | 14 - 110 | 54 | 6015 033 | 300* | 4,6 | 80+2 | 14 - 110 | 720 | 6018 054 |
| 300 | 4,4 | 80+2 | | 72 | 6015 034 | | | | | | |
| 380 | 4,4 | 80+2 | 2/7 - 110 2/14 - 110 4/8,5 - 100 | 72 | 6015 040 | | | | | | |
| 350 | 4,4 | 80+8 | | 54 | 6015 005 | | | | | | |
| 350 | 4,4 | 80+8 | | 72 | 6015 008 | | | | | | |
| 380 | 4,4 | 80+8 | | 60 | 6015 048 | | | | | | |
| 400 | 4,4 | 80+8 | | 60 | 6015 014 | | | | | | |
| 400 | 4,4 | 80+8 | | 72 | 6015 018 | | | | | | |
| 420 | 4,4 | 80+8 | | 60 | 6015 020 | | | | | | |
| 450 | 4,4 | 80+8 | | 72 | 6015 024 | | | | | | |
| 480 | 5,2 | 80+8 | | 72 | 6015 027 | | | | | | |
| 500 | 4,4 | 80+8 | | 60 | 6015 029 | | | | | | |
| 500 | 4,4 | 80+8 | | 72 | 6015 031 | | | | | | |
| 550 | 5,2 | 80+8 | | 72 | 6015 059 | | | | | | |
| 570 | 5,2 | 80+8 | 64 | 6015 061 | | | | | | | |

GIBEN

| D | B | d | Ø - INT. | Z | ID nr. | D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|------|----------|----|-----------------|------|---------|------|----------|----|-----------------|
| 350 | 4,4 | 75+4 | 15 - 105 | 54 | 6015 036 | 125 | 4,4/5,6 | 45+3 | 11 - 70 | 24 | 6017 022 |
| 350 | 4,4 | 75+4 | 15 - 105 | 72 | 6015 038 | 160 | 4,4/5,6 | 45+3 | 11 - 70 | 36 | 6017 012 |
| 400 | 4,4 | 75+4 | 15 - 105 | 60 | 6015 013 | 215 | 4,4/5,6 | 50+3 | 15 - 80 | 42 | 6017 018 |
| 400 | 4,4 | 75+4 | 15 - 105 | 72 | 6015 017 | 300 | 4,4/5,9 | 50+3 | 15 - 80 | 72 | 6017 020 |
| 430 | 4,4 | 75+4 | 15 - 105 | 72 | 6015 021 | 300* | 4,6 | 50+3 | 15 - 80 | 72 | 6018 052 |
| 470 | 4,4 | 75+4 | 15 - 105 | 72 | 6015 026 | | | | | | |
| 565 | 5,2 | 100 | - | 48 | 6015 060 | | | | | | |
| 565 | 5,2 | 100 | - | 72 | 6015 032 | | | | | | |

* Incisore per POST-FORMING / Scoring blades for POST-FORMING

TABELLA DI RIFERIMENTO PER SEZIONATRICI/REFERENCE TABLE FOR PANEL SAWS

LAMA/MAIN BLADE

INCISORE/SCORING BLADE

HOLZMA

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|--------|----------------------|----|-----------------|
| 350 | 4,4 | 60+2 | 14-100 | 54 | 6015 044 |
| 380 | 4,4 | 60+2 | 14-100 | 60 | 6015 047 |
| 380 | 4,8 | 60 | PH024 | 72 | 6015 052 |
| 400 | 4,8 | 60 | - | 60 | 6015 053 |
| 420 | 4,8 | 60 | - | 72 | 6015 055 |
| 450 | 4,8 | 60+2+2 | 2/14-125 2/10-80 | 72 | 6015 056 |
| 500 | 4,8 | 60+2 | 11-115 | 60 | 6015 057 |
| 600 | 5,8 | 60+2+2 | 2/11-115 2/19-120 | 60 | 6015 062 |

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|---------|----|----------|----|-----------------|
| 180 | 4,4/5,6 | 45 | - | 36 | 6017 032 |
| 180 | 4,8/6,0 | 45 | - | 36 | 6017 039 |
| 200 | 4,8/6,0 | 45 | - | 36 | 6017 040 |
| 200 | 5,8/7,0 | 45 | - | 36 | 6017 042 |

MACMAZZA

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|--------|------------------------|----|-----------------|
| 350 | 4,4 | 75+3+3 | 3/7 - 120 3/7 - 100 | 54 | 6015 035 |
| 350 | 4,4 | 75+3+3 | | 72 | 6015 037 |
| 400 | 4,4 | 75+3+3 | | 60 | 6015 012 |
| 400 | 4,4 | 75+3+3 | | 72 | 6015 016 |

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|---------|--------|----------|----|-----------------|
| 160 | 4,4/5,6 | 55+3+3 | 6-84 | 36 | 6017 013 |
| 280 | 4,4/5,6 | 55+3 | 6-84 | 40 | 6017 019 |

SCHELLING

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|----|----------|----|-----------------|
| 350 | 4,4 | 30 | - | 54 | 6015 003 |
| 350 | 4,4 | 30 | - | 72 | 6015 006 |
| 380 | 4,4 | 30 | - | 72 | 6015 049 |
| 400 | 4,4 | 30 | - | 60 | 6015 011 |
| 400 | 4,4 | 30 | - | 72 | 6015 015 |
| 450 | 4,4 | 30 | - | 72 | 6015 023 |
| 500 | 4,4 | 30 | - | 60 | 6015 028 |

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|---------|----|----------|----|-----------------|
| 100 | 3,2/4,4 | 20 | - | 20 | 6017 003 |
| 125 | 4,4/5,6 | 20 | - | 24 | 6017 007 |
| 200 | 4,4/5,6 | 20 | - | 36 | 6017 014 |

SCM

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|------|------------|----|-----------------|
| 350 | 4,4 | 30 | VEDI PREC. | 54 | 6015 003 |
| 350 | 4,4 | 80+8 | | 54 | 6015 005 |
| 350 | 4,4 | 30 | | 72 | 6015 006 |

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|---------|--------|----------|----|-----------------|
| 150 | 4,4/5,6 | 30 | - | 36 | 6017 011 |
| 160 | 4,4/5,6 | 55+3+3 | 7-66 | 36 | 6017 013 |

SELCO

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|--------|-----------------------|----|-----------------|
| 350 | 4,4 | 80+2+4 | 2/8,5-130 4/19-120 | 72 | 6015 008 |
| 400 | 4,4 | 80+2+4 | | 72 | 6015 018 |
| 430 | 4,4 | 80+2+4 | | 72 | 6015 022 |
| 450 | 4,4 | 80+2+4 | | 72 | 6015 024 |
| 480 | 5,2 | 80+2+4 | | 72 | 6015 027 |

| D | B | d | Ø - INT. | Z | ID nr. |
|------|---------|--------|--------------------|----|-----------------|
| 200 | 4,4/5,6 | 65+2+2 | 2/9-100 2/9-110 | 36 | 6017 016 |
| 200 | 5,2/6,4 | 65+2+2 | | 36 | 6017 024 |
| 300 | 4,4/5,9 | 65+2+2 | | 72 | 6017 021 |
| 300* | 4,6 | 65+2+2 | | 72 | 6018 053 |

STETON

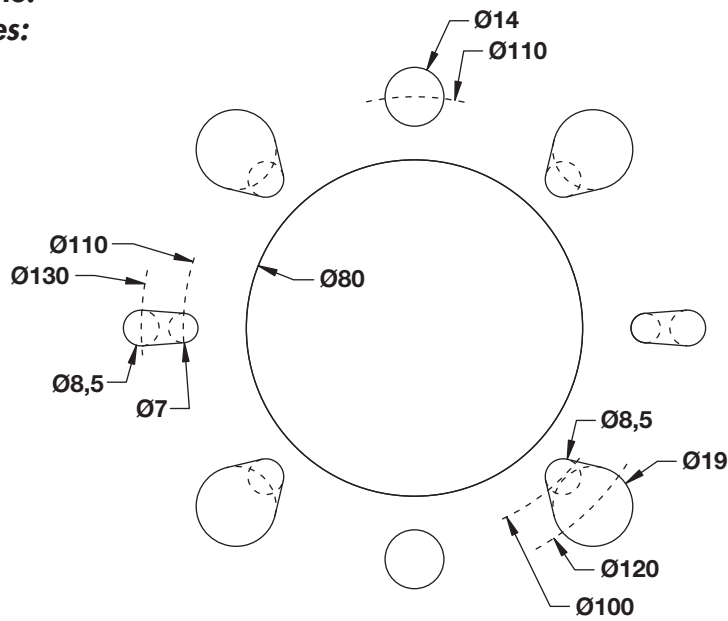
| D | B | d | Ø - INT. | Z | ID nr. |
|-----|-----|----|----------|----|-----------------|
| 350 | 4,4 | 80 | - | 72 | 6015 008 |
| 400 | 4,4 | 80 | - | 60 | 6015 014 |
| 400 | 4,4 | 80 | - | 72 | 6015 018 |

| D | B | d | Ø - INT. | Z | ID nr. |
|-----|---------|----|----------|----|-----------------|
| 150 | 4,4/5,6 | 30 | - | 36 | 6017 011 |

DISEGNI DI RIFERIMENTO PER FORATURE/REFERENCE DRAWINGS FOR STANDARD PIN HOLES

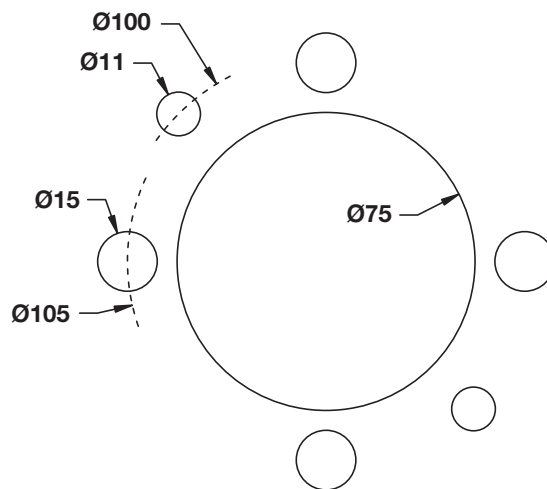
- * PH01 per macchine:
- * *PH01 for machines:*

**GABBIANI
SELCO**



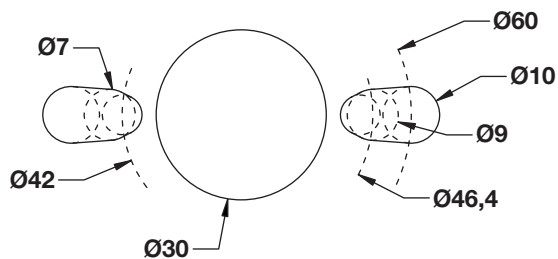
- * PH02 per macchine:
- * *PH02 for machines:*

**GIBEN
EUROMAC**



- * PH03 per macchine:
- * *PH03 for machines:*

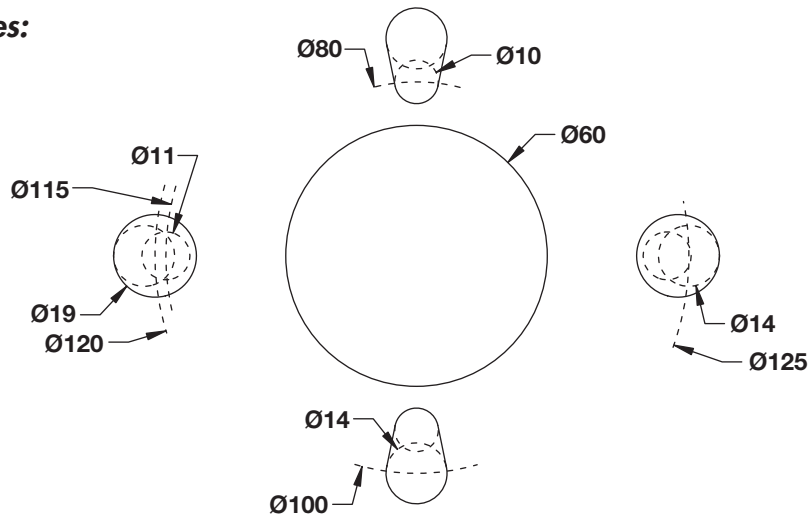
**PANHANS
SCM
SCHEER
SCHELLING
CASADEI**



DISEGNI DI RIFERIMENTO PER FORATURE/REFERENCE DRAWINGS FOR STANDARD PIN HOLES

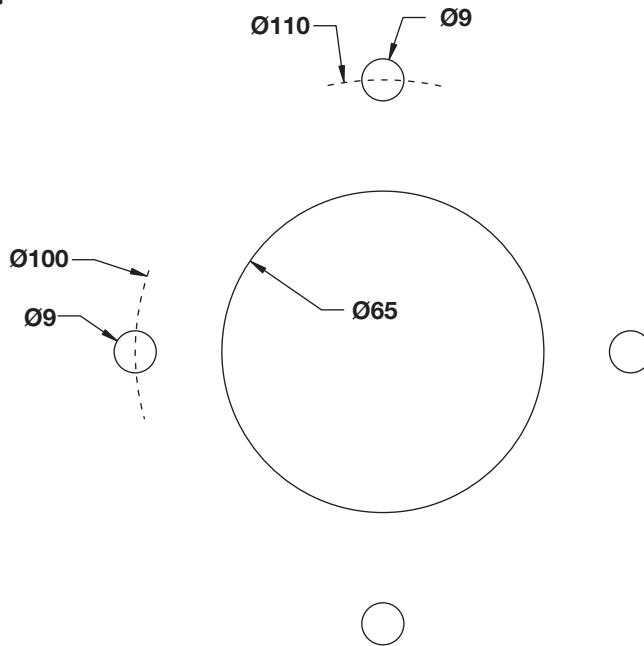
- * PH04 per macchine:
- * PH04 for machines:

HOLZMA



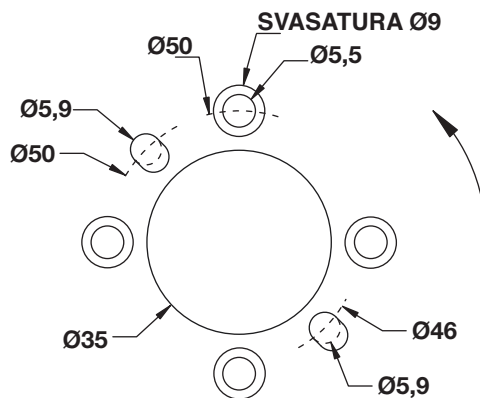
- * PH05 per macchine:
- * PH05 for machines:

SELCO



- * PH06 per macchine:
- * PH06 for machines:

BIESSE



Incisori doppi regolabili completi di distanziali per ottenere diversi spessori.

Adjustable double scoring blades complete with spacer to obtain different thickness.

Lames incisives doubles avec bagues pour avoir différents épaisseurs.

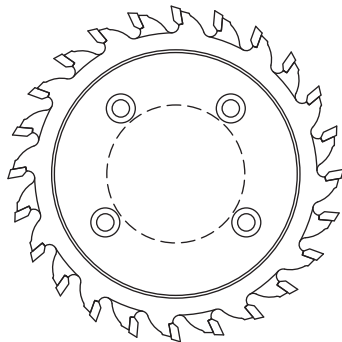
Kreissägeblätter zweiteilig verstellbar durch Zwischenringe.

Incisores dobles regulables completos con anillos distanciadores para realizar espesores.

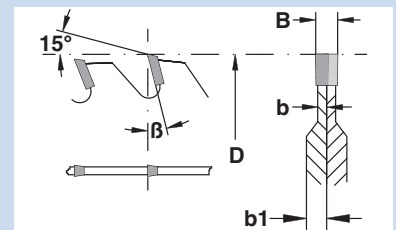
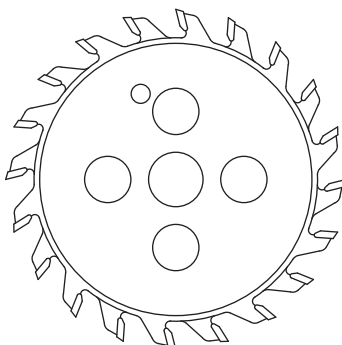
6018

| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|-----|---------|---------|----|----|--------------------|-------|---------|-----------------|
| 80 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Felder | 12+12 | 12 | 6018 001 |
| 90 | 2,8÷3,6 | 1,1/2,2 | 20 | - | - | 12+12 | 12 | 6018 002 |
| 100 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Panhans-Schelling | 12+12 | 12 | 6018 003 |
| 100 | 2,8÷3,6 | 1,1/2,2 | 22 | - | Altendorf-Striebig | 12+12 | 12 | 6018 012 |
| 110 | 2,8÷3,6 | 1,1/2,2 | 20 | - | GMC | 12+12 | 12 | 6018 004 |
| 120 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Holz Her-SCM | 12+12 | 12 | 6018 005 |
| 120 | 2,8÷3,6 | 1,1/2,2 | 22 | - | Altendorf-Martin | 12+12 | 12 | 6018 011 |
| 125 | 2,8÷3,6 | 1,1/2,2 | 20 | - | Paoloni | 12+12 | 12 | 6018 006 |
| 125 | 2,8÷3,6 | 1,1/2,2 | 22 | - | - | 12+12 | 12 | 6018 014 |
| 125 | 3,8÷4,6 | 1,4/2,2 | 20 | - | - | 12+12 | 12 | 6018 007 |
| 180 | 4,4÷5,6 | 1,8/2,2 | 45 | - | Holzma | 20+20 | 12 | 6018 015 |
| 200 | 4,3÷5,2 | 1,8/2,2 | 20 | - | SCM | 30+30 | 12 | 6018 009 |
| 250 | 4,3÷5,2 | 1,8/2,2 | 50 | - | Giben | 32+32 | 12 | 6018 017 |

| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|------|---------|---------|----|----|-------------------|-------|---------|-----------------|
| 120* | 2,8÷3,6 | 1,1/2,2 | 50 | 4 | Altendorf-Griggio | 12+12 | 12 | 6018 013 |



| D | B | b-b1 | d | PH | MACCHINA | Z | β | ID nr. |
|------|---------|---------|----|-----|----------|-------|---------|-----------------|
| 125* | 4,0÷4,7 | 1,6/2,2 | 20 | 4+1 | SCM | 20+20 | 12 | 6018 008 |



Caratteristiche

Lame utilizzata in complemento delle lame per sezionatura, adatte ad eliminare scheggiature nella parte inferiore.

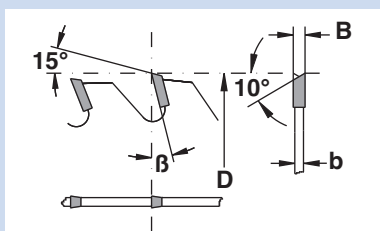
Characteristics

Sawblades used together with other sawblades for limiting considerably the chipping in the lower part.

*La regolazione dello spessore viene fatta in macchina, senza l'uso di anelli distanziali.

*Thickness adjustment controlled by the machines, no spacers required.

6018a



* Vedi "Tabella di riferimento per sezionatrici" pagg. 401-402.

* See "Reference table for panel saws" pages 401-402.

Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Incisori a spessore costante per POST-FORMING.

Scoring blades with constant thickness for POST-FORMING.

Lames inciseuses avec épaisseur constant pour POST-FORMING.

Kreissägeblätter mit konstant Stärke für POST-FORMING.

Incisor con espesor constante para POSTFORMADO.

| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|----|------|----------|-----|---------|-----------------|
| 180 | 4,6 | 3,2 | 55 | 3 | Gabbiani | 36 | 15 | 6018 055 |
| 250 | 4,6 | 3,2 | 50 | 3 | Giben | 40 | 15 | 6018 056 |
| 280 | 4,6 | 3,2 | 45 | - | Holzma | 84 | 15 | 6018 057 |
| 280 | 5,0 | 3,5 | 45 | - | Holzma | 84 | 15 | 6018 058 |
| 300 | 4,6 | 3,2 | 50 | 3 | Giben | 72 | 15 | 6018 052 |
| 300 | 4,6 | 3,2 | 65 | PH05 | * | 72 | 15 | 6018 053 |
| 300 | 4,6 | 3,2 | 80 | 2 | Gabbiani | 72 | 15 | 6018 054 |
| 340 | 5,0 | 3,5 | 45 | - | Holzma | 108 | 15 | 6018 059 |

Lama utilizzata in completamento delle lame per sezionatura, adatte ad eliminare scheggiature nella parte inferiore.

Sawblade used together with other sawblades for limiting considerably the chipping in the lower part.

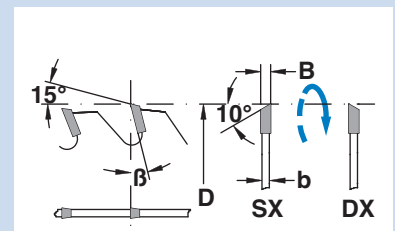
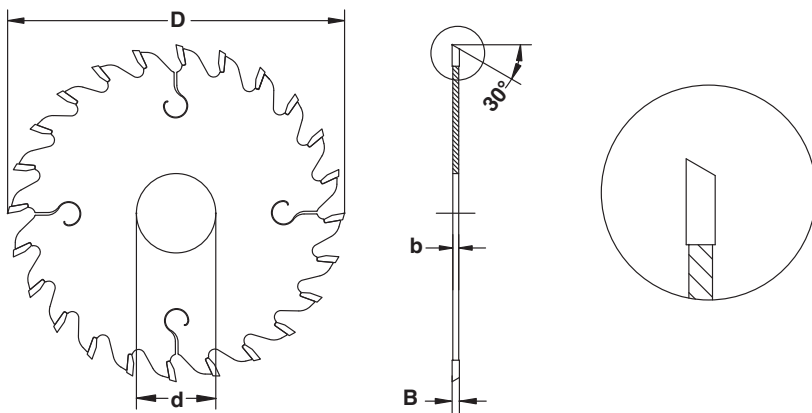
Lame circolari intestatori per bordatrici.
Sawblades for edge-banding machines.
 Lames à inciser pour machines à border.
Ritz Sägeblätter.
 Discos de sierra para retestar para canteadoras.

6019



| D | B | b | d | PH | MACCHINA | Z | B | ID nr. DX | ID nr. SX |
|-----|-----|-----|----|----|----------|------|----|-----------------|-----------------|
| 85 | 3,2 | 2,2 | 30 | - | BI-MATIC | 12 | 10 | 6019 021 | 6019 022 |
| 120 | 3,6 | 2,8 | 40 | 4 | BIESSE | 20+4 | 15 | 6019 005 | 6019 006 |
| 125 | 2,6 | 1,8 | 20 | - | ELWOOD | 16+4 | 15 | 6019 009 | 6019 010 |
| 140 | 3,2 | 2,2 | 30 | - | - | 28+4 | 15 | 6019 001 | 6019 002 |
| 150 | 3,8 | 2,5 | 35 | 4 | STEFANI | 24+6 | 10 | 6019 007 | 6019 008 |

| D | B | b | d | PH | MACCHINA | Z | B | ID nr. DX | ID nr. SX |
|-----|-----|-----|----|----|----------|----|----|-----------------|-----------------|
| 100 | 2,6 | 1,6 | 30 | - | STEFANI | 30 | 10 | 6019 015 | 6019 016 |
| 125 | 3,2 | 2,2 | 30 | - | EBS | 24 | 10 | 6019 017 | 6019 018 |



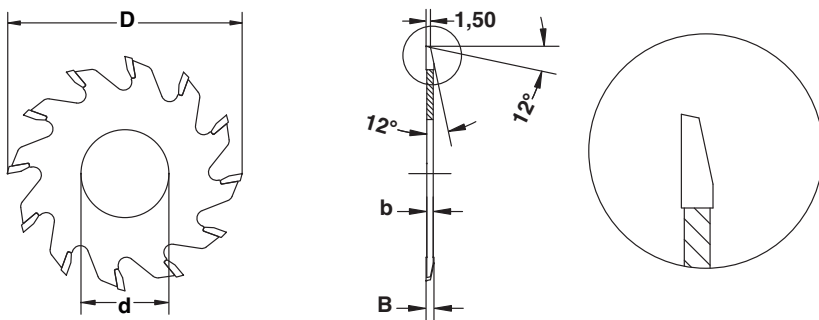
Caratteristiche

Adatte per la squadratura di pannelli in truciolare, laminati o placcati.

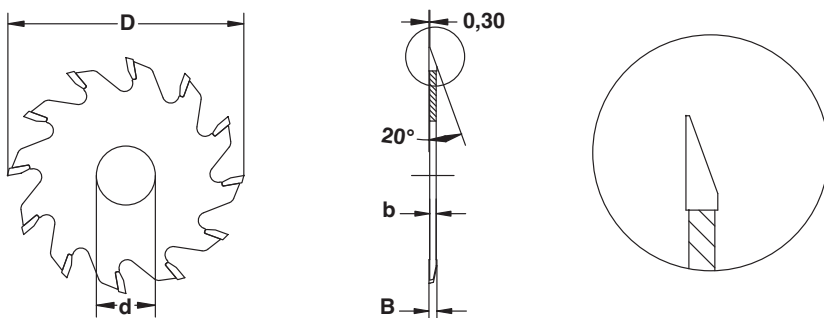
Characteristics

Scoring sawblade with left or right bevel, for cutting chipboard panels coated with laminates.

| D | B | b | d | PH | MACCHINA | Z | B | ID nr. DX | ID nr. SX |
|----|-----|-----|----|----|----------|----|----|-----------------|-----------------|
| 80 | 3,2 | 2,2 | 30 | - | BI-MATIC | 12 | 10 | 6019 011 | 6019 012 |



| D | B | b | d | PH | MACCHINA | Z | B | ID nr. DX | ID nr. SX |
|----|-----|-----|----|----|--------------------|----|---|-----------------|-----------------|
| 80 | 3,0 | 2,2 | 20 | - | PAOLONI CASADEI | 12 | 6 | 6019 019 | 6019 020 |



6020



Incisori per squadratrici e bordatrici con taglienti alternativamente inclinati.
Scoring blades for squaring and edge-banding machines with alternative cutting.

Inciseur pour machines à équarrir et border avec dents alternés.

Ritz Sägeblätter.

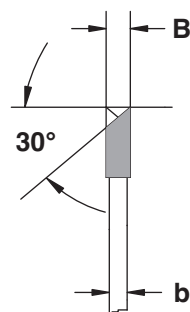
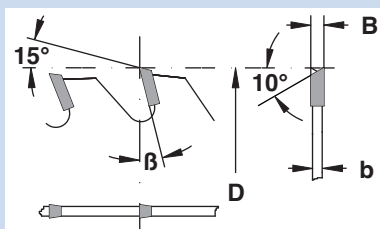
Discos de sierra para escuadradoras y canteadoras con dientes inclinados y alternados.

| D | B | b | d | Z | β | ID nr. |
|------|-----|-----|----|----|----|-----------------|
| 100* | 2,6 | 1,6 | 30 | 20 | 10 | 6020 005 |
| 100 | 3,2 | 2,2 | 20 | 20 | 10 | 6020 006 |
| 115* | 2,6 | 1,6 | 30 | 24 | 10 | 6020 004 |
| 115 | 3,2 | 2,2 | 20 | 24 | 10 | 6020 001 |
| 120 | 3,2 | 2,2 | 20 | 24 | 10 | 6020 002 |
| 125 | 3,2 | 2,2 | 20 | 30 | 10 | 6020 003 |

Incisori a dente alternato per incisione di pannelli bilaminati.

Scoring blades with alternate tooth for cutting panels coated on both sides.

*Disegno affilatura ART. 6020004-005 / *Sharpening ART. 6020004-005*



6022



Incisori per squadratrici con attacco rapido LEUCO.

Scoring blades for squaring with quick fastening LEUCO.

Lames speciaux à inciseur avec fonction rapide LEUCO.

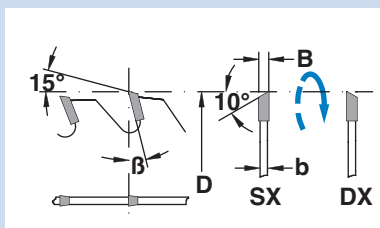
Speziellen Ritzsägen mit schnell Befestigung LEUCO.

Discos de sierra para escuadradoras con mango rápido LEUCO.

| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|----|---------|----|----|-----------------|-----------------|
| 180 | 3,2 | 2,2 | 50 | 3/22-80 | 36 | 12 | 6022 001 | 6022 002 |
| 180 | 3,2 | 2,2 | 50 | 3/22-80 | 56 | 10 | 6022 003 | 6022 004 |

Incisori a denti inclinati unilateralmente per incisione di pannelli bilaminati.

Scoring blades with cutting edges slanted on one side only, for cutting panels coated on both sides.



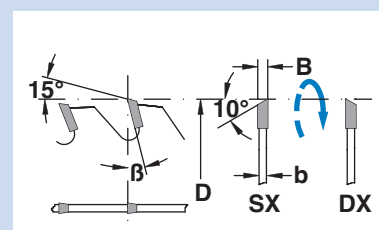
Incisori per squadratrici e bordatrici con taglienti unilateralmente inclinati.
Scoring blades for squaring and edge-banding machines with one-side cutting.
 Inciseur pour machines à equarrir et border avec dents inclinés unilatéralment.
Ritz Sägeblätter.
 Discos de sierra para escuadradoras y canteadoras con dientes inclinados.

6021

| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|----|--------|----|----|-----------------|-----------------|
| 100 | 3,2 | 2,2 | 20 | - | 20 | 10 | 6021 001 | 6021 002 |
| 100 | 3,2 | 2,2 | 22 | - | 20 | 10 | 6021 035 | 6021 036 |
| 125 | 3,2 | 2,2 | 20 | - | 30 | 10 | 6021 003 | 6021 004 |
| 150 | 3,2 | 2,2 | 30 | - | 36 | 10 | 6021 005 | 6021 006 |
| 150 | 3,2 | 2,2 | 55 | - | 36 | 10 | 6021 007 | 6021 008 |
| 150 | 3,2 | 2,2 | 60 | - | 36 | 10 | 6021 009 | 6021 010 |
| 150 | 3,2 | 2,2 | 30 | - | 48 | 10 | 6021 011 | 6021 012 |
| 150 | 3,2 | 2,2 | 55 | - | 48 | 10 | 6021 013 | 6021 014 |
| 150 | 3,2 | 2,2 | 60 | - | 48 | 10 | 6021 015 | 6021 016 |
| 160 | 3,2 | 2,2 | 30 | - | 36 | 10 | 6021 017 | 6021 018 |
| 170 | 3,2 | 2,2 | 30 | - | 36 | 10 | 6021 021 | 6021 022 |
| 180 | 3,2 | 2,2 | 30 | - | 48 | 10 | 6021 023 | 6021 024 |
| 180 | 3,2 | 2,2 | 65 | 6/7-90 | 48 | 10 | 6021 029 | 6021 030 |
| 200 | 3,2 | 2,2 | 60 | - | 48 | 10 | 6021 031 | 6021 032 |



Incisori a denti inclinati unilateralmente per incisione di pannelli bilaminati.
Scoring blades with cutting edges slanted on one side only, for cutting panels coated on both sides.



6023



Truciolatori con corpo in alluminio a settori dentati.

Hogging sets in aluminium with sectors gears.

Dechiqueteurs en aluminium avec secteurs dentés.

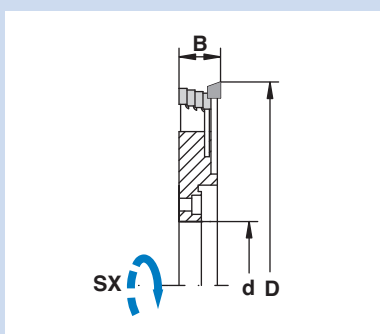
Besäumzerspanner zu Aluminium.

Desmenzador con cuerpo en aluminio y sectores con dientes.

| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|----|----|-----------------|-----------------|
| 255 | 30 | 60 | 58 | 6023 001 | 6023 002 |
| 255 | 30 | 80 | 58 | 6023 003 | 6023 004 |
| 255 | 30 | 60 | 78 | 6023 005 | 6023 006 |
| 255 | 30 | 80 | 78 | 6023 007 | 6023 008 |

Truciolatore per la lavorazione di legni massicci e pannelli truciolare.

Hogging sets for cutting solid woods and chipboard.



6024



Truciolatori con corpo in alluminio a settori dentati completi di mozzo.

Hogging sets in aluminium with sectors gears with sleeve.

Dechiqueteurs en aluminium avec secteurs dentés avec moyeu.

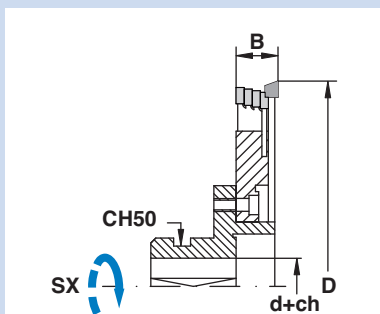
Besäumzerspanner mit Naber zu Aluminium.

Desmenzador completo de casquillo con cuerpo en aluminio y sectores con dientes

| D | B | d | Z | ID nr. DX | ID nr. SX |
|-----|----|------|----|-----------------|-----------------|
| 205 | 30 | 35+2 | 46 | 6024 001 | 6024 002 |
| 205 | 30 | 40+2 | 46 | 6024 003 | 6024 004 |
| 205 | 30 | 35+2 | 58 | 6024 005 | 6024 006 |
| 205 | 30 | 40+2 | 58 | 6024 007 | 6024 008 |
| 255 | 30 | 35+2 | 58 | 6024 009 | 6024 010 |
| 255 | 30 | 40+2 | 58 | 6024 011 | 6024 012 |
| 255 | 30 | 35+2 | 78 | 6024 013 | 6024 014 |
| 255 | 30 | 40+2 | 78 | 6024 015 | 6024 016 |

Truciolatore per la lavorazione di legni massicci e pannelli truciolare.

Hogging sets for cutting solid woods and chipboard.



Truciolatori in alluminio accoppiati a settori dentati completi di mozzo.

Hogging sets in aluminium with sectors gears with sleeve.

Dechiqueteurs en aluminium avec secteurs dentés avec moyeu.

Besäumzerspanner zu Aluminium mit Naber.

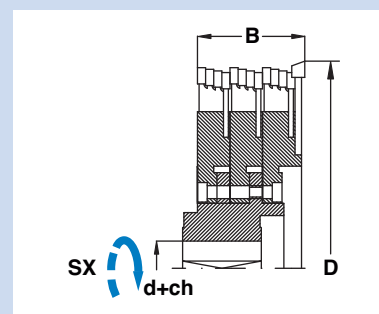
Desmenzadores acoplados completos de casquillo con cuerpo en aluminio y sectores con dientes.

6025

| D | B | d+ch | Z | N° Trucc. | ID nr. DX | ID nr. SX |
|-----|------|------|----|-----------|-----------------|-----------------|
| 205 | 58,5 | 35+2 | 46 | 2 | 6025 001 | 6025 002 |
| 205 | 58,5 | 40+2 | 46 | 2 | 6025 003 | 6025 004 |
| 205 | 58,5 | 35+2 | 58 | 2 | 6025 005 | 6025 006 |
| 205 | 58,5 | 40+2 | 58 | 2 | 6025 007 | 6025 008 |
| 205 | 85,5 | 35+2 | 46 | 3 | 6025 009 | 6025 010 |
| 205 | 85,5 | 40+2 | 46 | 3 | 6025 011 | 6025 012 |
| 205 | 85,5 | 35+2 | 58 | 3 | 6025 013 | 6025 014 |
| 205 | 85,5 | 40+2 | 58 | 3 | 6025 015 | 6025 016 |
| 255 | 57,5 | 35+2 | 58 | 2 | 6025 017 | 6025 018 |
| 255 | 57,5 | 40+2 | 58 | 2 | 6025 019 | 6025 020 |
| 255 | 57,5 | 35+2 | 78 | 2 | 6025 021 | 6025 022 |
| 255 | 57,5 | 40+2 | 78 | 2 | 6025 023 | 6025 024 |
| 255 | 84 | 35+2 | 58 | 3 | 6025 025 | 6025 026 |
| 255 | 84 | 40+2 | 58 | 3 | 6025 027 | 6025 028 |
| 255 | 84 | 35+2 | 78 | 3 | 6025 029 | 6025 030 |
| 255 | 84 | 40+2 | 78 | 3 | 6025 031 | 6025 032 |

Truciolatore per lavorazione di legni massicci e pannelli truciolare.

Hogging sets for cutting solid woods and chipboard.



6026

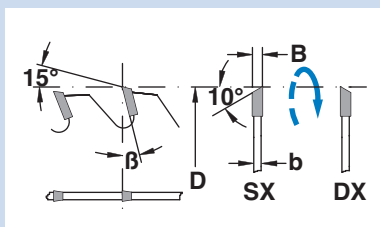
Lame circolari di ricambio per truciolatori.
Spare circular sawblades for hogging units.
 Lames circulaires de rechange pour dechiqueteurs.
Ersatkreissägeblätter für Zerspanner.
 Discos de sierra como repuestos para desmenuzadores.

Ricambio per truciolatori B.S.P. / *Spare parts for B.S.P. hogging sets*



| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|-----|-----------|----|---------|-----------------|-----------------|
| 205 | 4,1 | 2,8 | 80 | 6/8,5-128 | 46 | 10 | 6026 001 | 6026 002 |
| 205 | 4,1 | 2,8 | 80 | 6/8,5-128 | 58 | 10 | 6026 003 | 6026 004 |
| 255 | 4,1 | 2,8 | 130 | 6/8,5-177 | 58 | 10 | 6026 005 | 6026 006 |
| 255 | 4,1 | 2,8 | 130 | 6/8,5-177 | 78 | 10 | 6026 007 | 6026 008 |

Per legni teneri, duri e pannelli bilaminati con 6 fori di trascinamento.
For soft, hardwoods and bilaminated panels with 6 holes.

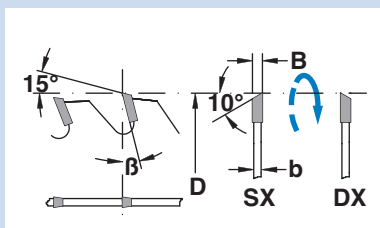


Ricambio per truciolatori LEUCO / *Spare parts for LEUCO hogging sets*



| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|-----|-----------|----|---------|-----------------|-----------------|
| 250 | 4,1 | 2,8 | 100 | 6/6,5-200 | 54 | 7 | 6026 021 | 6026 022 |
| 250 | 4,1 | 2,8 | 100 | 6/6,5-200 | 72 | 7 | 6026 023 | 6026 024 |

Per legni teneri, duri e pannelli bilaminati con 6 fori di trascinamento.
For soft, hardwoods and bilaminated panels with 6 holes.



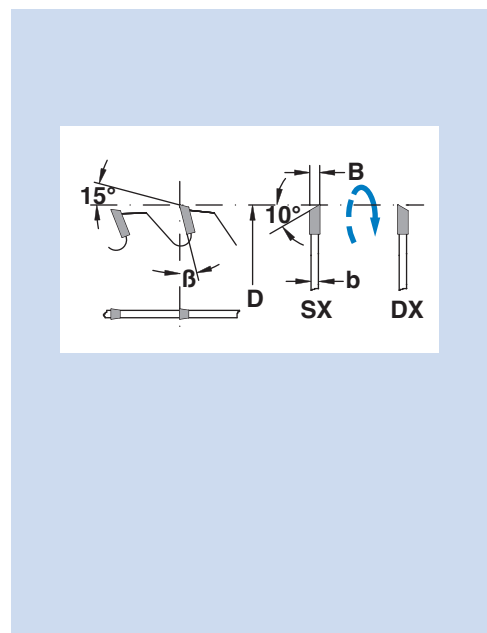
Lame circolari di ricambio per truciolatori.
Spare circular sawblades for hogging units.
 Lames circulaires de rechange pour dechiqueteurs.
Ersatkreissägeblätter für Zerspanner.
 Discos de sierra como repuestos para desmenuzadores

6026

Ricambio per truciolatori WITOX/ *Spare parts for WITOX hogging sets*

| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|-----|-----------|----|---------|-----------------|-----------------|
| 255 | 4,1 | 2,8 | 130 | 4/8,5-185 | 60 | 10 | 6026 031 | 6026 032 |
| | | | | | | | | |

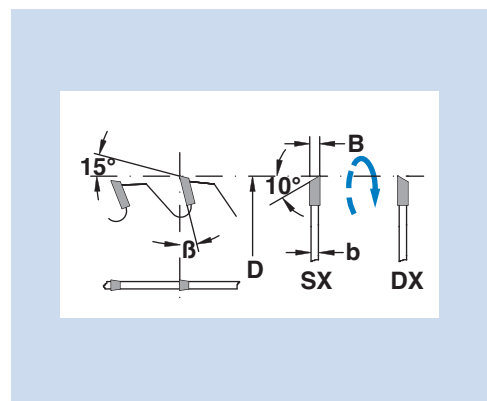
Per legni teneri, duri e pannelli bilaminati con 4 fori di trascinamento.
For soft, hardwoods and bilaminated panels with 4 holes.



Ricambio per truciolatori FREUD / *Spare parts for FREUD hogging sets*

| D | B | b | d | PH | Z | β | ID nr. DX | ID nr. SX |
|-----|-----|-----|-----|------------|----|---------|-----------------|-----------------|
| 250 | 4,2 | 3,0 | 130 | 10/8,5-170 | 72 | 10 | 6026 041 | 6026 042 |
| | | | | | | | | |

Per legni teneri, duri e pannelli bilaminati con 10 fori di trascinamento.
For soft, hardwoods and bilaminated panels with 10 holes.

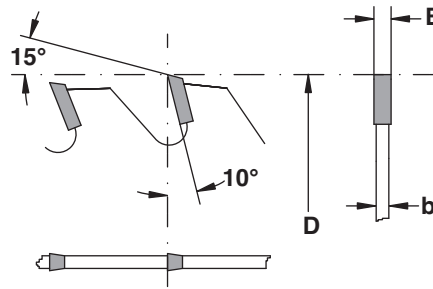


6027

Settori di ricambio per truciolatori.
Spare sectors for hogging units.
 Secteurs dentés de rechange pour déchiqueteurs.
Ersatz Sektoren für Zerspanner.
 Sectores como repuestos para desmenuzadores.

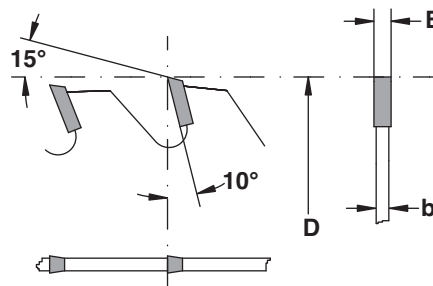
Ricambio per truciolatori B.S.P. / *Spare parts for B.S.P. hogging sets*

| D | B | b | d | Z | ID nr. |
|-----|-----|-----|---|----|-----------------|
| 200 | 4,0 | 2,8 | - | 12 | 6027 007 |
| 250 | 4,0 | 2,8 | - | 14 | 6027 008 |



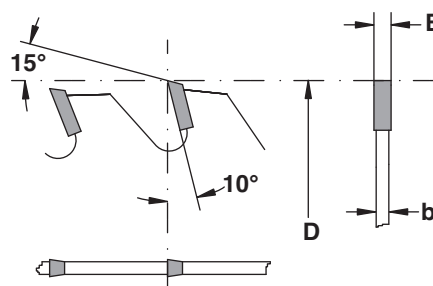
Ricambio per truciolatori LEUCO / *Spare parts for LEUCO hogging sets*

| D | B | b | d | Z | ID nr. |
|-----|-----|-----|---|----|-----------------|
| 250 | 4,0 | 2,8 | - | 4 | 6027 025 |
| 350 | 4,3 | 2,8 | - | 10 | 6027 026 |



Ricambio per truciolatori WITOX / *Spare parts for WITOX hogging sets*

| D | B | b | d | PH | ID nr. DX | ID nr. SX |
|-----|-----|-----|---|----|-----------------|-----------------|
| 250 | 5,2 | 2,8 | - | 7 | 6027 031 | 6027 032 |



Mozzi porta truciolatori di ricambio.

Hoggerbody for hogging units.

Flasque de rechange pour dechiqueteurs.

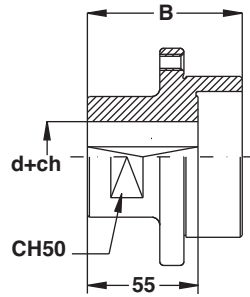
Grundkörper für Zerspaner.

Casquillos portadesmenuzadores como repuestos.

6028

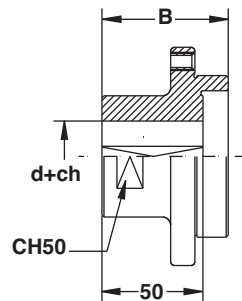
| B | d+ch | ID nr. |
|----|------|-----------------|
| 77 | 35+2 | 6028 001 |
| 77 | 40+2 | 6028 002 |

Ricambio per truciolatori ART. 6024 Ø205
Spare parts for hoggings ART. 6024 Ø205



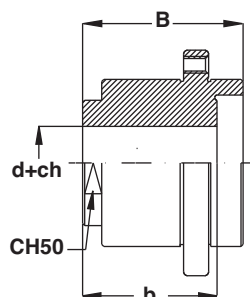
| B | d+ch | ID nr. |
|------|------|-----------------|
| 61,5 | 35+2 | 6028 011 |
| 61,5 | 40+2 | 6028 012 |

Ricambio per truciolatori ART. 6024 Ø255
Spare parts for hoggings ART. 6024 Ø255

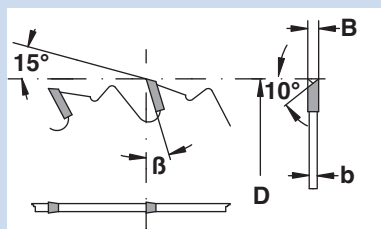


| Per Truc. Ø | N° Truc. | B | b | d+ch | ID nr. |
|-------------|----------|------|----|------|-----------------|
| 255 | 2 | 61,5 | 50 | 35+2 | 6028 021 |
| 255 | 2 | 61,5 | 50 | 40+2 | 6028 022 |
| 255 | 3 | 88 | 77 | 35+2 | 6028 023 |
| 255 | 3 | 88 | 77 | 40+2 | 6028 024 |
| 205 | 2 | 74 | 52 | 35+2 | 6028 025 |
| 205 | 2 | 74 | 52 | 40+2 | 6028 026 |
| 205 | 3 | 100 | 77 | 35+2 | 6028 027 |
| 205 | 3 | 100 | 77 | 40+2 | 6028 028 |

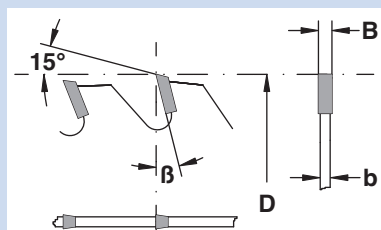
Ricambio per truciolatori ART. 6025
Spare parts for hoggings ART. 6025



6008



6048



Lame circolari con rasanti e limitatore.

Circular sawblades with chip thickness limitation butts and shavings.

Lames circulaires avec refouleur limitant et rasants.

Zuschneid Sägeblätter Wechselzahn.

Discos de sierra con rasantes y limitación para las virutas.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|------|---------|-----------------|
| 300 | 3,2 | 2,2 | 30 | PH03 | 24+4 | 20 | 6008 001 |
| 300 | 3,2 | 2,2 | 35 | - | 24+4 | 20 | 6008 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 28+6 | 20 | 6008 003 |
| 350 | 3,5 | 2,5 | 35 | - | 28+6 | 20 | 6008 004 |
| 400 | 3,8 | 2,5 | 30 | PH03 | 32+6 | 20 | 6008 005 |
| 400 | 3,8 | 2,5 | 35 | - | 32+6 | 20 | 6008 006 |

Per tagli lungo vena di legni duri e teneri, con limitatore per evitare contraccolpi.

Da usare per tutti i tipi di legni, secchi o umidi.

Sawblades for ripping of hardwoods and softwoods, with chip limitation butts.

Use on any kind of woods, dry or wet.

Lame per multilame con rasanti a forte spessore.

Sawblades for multiblades with strong kerf and shavings.

Lames pour multilames avec fort épaisseur de coupe et avec rasants.

Schbklänge für Mehrfachklänge.

Discos de sierra con espesor robusto para sierras multiples con rasantes y limitación para las virutas.

| D | B | b | d | PH | β | ID nr. |
|-----|-----|-----|------|------|---------|-----------------|
| 250 | 4,0 | 2,8 | 60+2 | 16+4 | 25 | 6048 001 |
| 250 | 4,0 | 2,8 | 70+2 | 16+4 | 25 | 6048 002 |
| 250 | 4,0 | 2,8 | 80+2 | 16+4 | 25 | 6048 003 |
| 300 | 4,0 | 2,8 | 60+2 | 20+4 | 25 | 6048 004 |
| 300 | 4,0 | 2,8 | 70+2 | 20+4 | 25 | 6048 005 |
| 300 | 4,0 | 2,8 | 80+2 | 20+4 | 25 | 6048 006 |
| 320 | 4,0 | 2,8 | 70+2 | 20+4 | 25 | 6048 007 |
| 320 | 4,0 | 2,8 | 80+2 | 20+4 | 25 | 6048 008 |
| 350 | 4,0 | 2,8 | 60+2 | 20+6 | 25 | 6048 009 |
| 350 | 4,0 | 2,8 | 70+2 | 20+6 | 25 | 6048 010 |
| 350 | 4,0 | 2,8 | 80+2 | 20+6 | 25 | 6048 011 |

Per tagli lungo vena di legni umidi e resinosi, indicata particolarmente per altezze di taglio importanti.

For longitudinal cutting in damp and resinous woods, suitable for important cutting depth.

Lame per multilame con rasanti.

Sawblades for multiblades with shavings.

Lames pour multilames avec rasants.

Schbklinge für Mehrfachklinge.

Discos de sierra para sierras multiples y con rasantes.

| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|------|----|-----------------|
| 250 | 3,2 | 2,2 | 60+2 | 20+4 | 18 | 6029 001 |
| 250 | 3,2 | 2,2 | 70+2 | 20+4 | 18 | 6029 002 |
| 250 | 3,2 | 2,2 | 80+2 | 20+4 | 18 | 6029 003 |
| 300 | 3,2 | 2,2 | 60+2 | 24+4 | 20 | 6029 004 |
| 300 | 3,2 | 2,2 | 70+2 | 24+4 | 20 | 6029 005 |
| 300 | 3,2 | 2,2 | 80+2 | 24+4 | 20 | 6029 006 |
| 350 | 3,5 | 2,5 | 60+2 | 28+6 | 20 | 6029 007 |
| 350 | 3,5 | 2,5 | 70+2 | 28+6 | 20 | 6029 008 |
| 350 | 3,5 | 2,5 | 80+2 | 28+6 | 20 | 6029 009 |
| 400 | 3,8 | 2,8 | 70+2 | 32+6 | 20 | 6029 010 |

Lama con media finitura per la lavorazione di tavolame distorto secco e umido.

Sawblade with medium finishing for working dry and damp woods.

Lame per multilame con rasanti a spessore sottile.

Sawblades for multiblades with thin kerf and shavings.

Lames pour multilames avec épaisseur mince avec rasants.

Schbklinge für Mehrfachklinge.

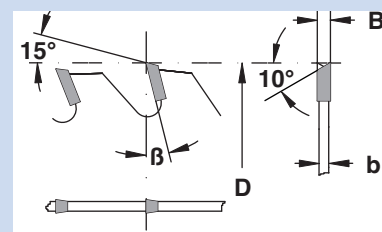
Discos de sierra con espesor fino para sierras multiples con rasantes.

| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|------|----|-----------------|
| 250 | 2,6 | 1,8 | 60+2 | 20+4 | 18 | 6030 001 |
| 250 | 2,6 | 1,8 | 70+2 | 20+4 | 18 | 6030 002 |
| 250 | 2,6 | 1,8 | 80+2 | 20+4 | 18 | 6030 003 |
| 300 | 2,6 | 1,8 | 60+2 | 24+4 | 20 | 6030 004 |
| 300 | 2,6 | 1,8 | 70+2 | 24+4 | 20 | 6030 005 |
| 300 | 2,6 | 1,8 | 80+2 | 24+4 | 20 | 6030 006 |

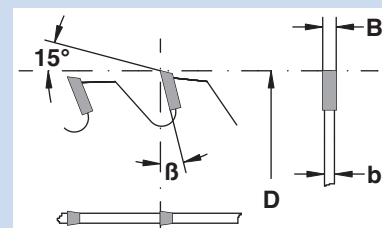
Lama con media finitura per la lavorazione di tavolame distorto secco e umido.

Sawblade with medium finishing for working dry and damp woods.

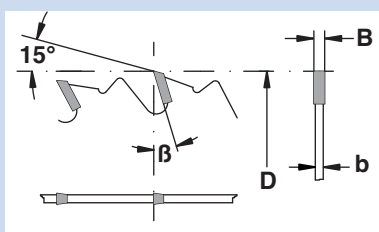
6029



6030



6031



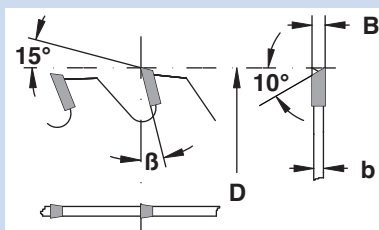
Lame per multilame con rasanti e limitatore di truciolo a spessore sottile.
Sawblades with thin kerf with shavings and chip thickness limitation butt.
 Lames avec largeur de coupe avec rasants et refouleurur limitant.
Schbklinge für Mehrfachklinge.

Discos de sierra con espesor fino para sierras multiples con rasantes y limitación para las virutas.

| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|------|----|-----------------|
| 180 | 2,2 | 1,6 | 40 | 16+2 | 18 | 6031 001 |
| 200 | 2,2 | 1,6 | 40 | 16+2 | 18 | 6031 002 |
| 250 | 2,2 | 1,6 | 60+2 | 20+2 | 18 | 6031 003 |
| 250 | 2,2 | 1,6 | 70+2 | 20+2 | 18 | 6031 004 |
| 250 | 2,2 | 1,6 | 80+2 | 20+2 | 18 | 6031 005 |

Lame con buona finitura indicate per legni pregiati Ø180 e Ø200.
 Si utilizza anche su scorticatrici con alberi universali per la divisione di tavolame.
Sawblades with good finish in high quality wood Ø180 and Ø200.
Suitable on matching machines with universal shaft.

6032



Lame per multilame con taglienti alternativamente inclinati e asole di raffreddamento.
Sawblades for multiblades machine with alternate top bevel teeth and buttonholes.
 Lames pour machines multilames avec denture alternée et boutonnières.
Zuschneidsägeblätter Wechsellzahn mit Knopflochen.

Discos de sierra para sierras multiples con dientes inclinados y alternados y fori-combi de enfriamiento.

| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|----|----|-----------------|
| 250 | 3,2 | 2,2 | 60+2 | 20 | 20 | 6032 001 |
| 250 | 3,2 | 2,2 | 70+2 | 20 | 20 | 6032 002 |
| 300 | 3,2 | 2,2 | 60+2 | 24 | 20 | 6032 003 |
| 300 | 3,2 | 2,2 | 70+2 | 24 | 20 | 6032 004 |
| 350 | 3,5 | 2,5 | 70+2 | 28 | 20 | 6032 005 |

Lama per tagli di legni teneri e duri senza nodi cascanti.
Sawblade for cutting hard and softwoods without loose knots.

Lame con taglienti alternativamente inclinati con limitatore di truciolo e asole di raffreddamento.

Sawblades with thickness limitation butts and alternate top bevel teeth and buttonholes.

Lames circulaires avec denture alternée et fendeur limitant et boutonnières.

Zuschneidsägeblätter Wechselzahn mit Knopflochen.

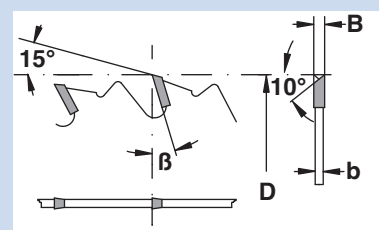
Discos de sierra para sierras multiples con limitación para las virutas y fori-combi di raffreddamento.

6033

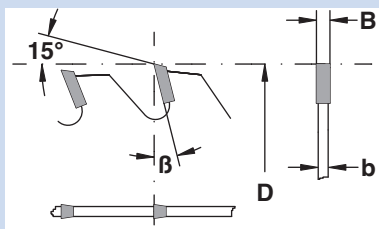
| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|---------|---------|-----------------|
| 250 | 3,2 | 2,2 | 60+2 | 20+Lim. | 18 | 6033 001 |
| 250 | 3,2 | 2,2 | 70+2 | 20+Lim. | 18 | 6033 002 |
| 300 | 3,2 | 2,2 | 60+2 | 24+Lim. | 18 | 6033 003 |
| 300 | 3,2 | 2,2 | 70+2 | 24+Lim. | 18 | 6033 004 |
| 350 | 3,5 | 2,5 | 70+2 | 28+Lim. | 20 | 6033 005 |

Lama per tagli di legni teneri e duri con nodi cascanti.

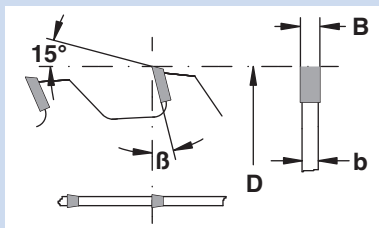
Sawblade for cutting hard and softwoods with loose knots.



6035



6036



Lame circolari per multilame a forte spessore con rasanti.

Thicks circular sawblades for multiblades machines with shavings.

Lames circulaires pour machines multilames à fort épaisseur avec rasants.

Säumer Sägeblätter für Mehrfachklinge.

Discos de sierra con espesor robusto para sierras multiples con rasantes.

| D | B | b | d+ch | Z | β | ID nr. |
|-----|-----|-----|------|------|---------|-----------------|
| 250 | 5,5 | 3,5 | 70+2 | 20+4 | 20 | 6035 001 |
| 250 | 5,5 | 3,5 | 80+2 | 20+4 | 20 | 6035 002 |
| 300 | 5,5 | 3,5 | 70+2 | 24+4 | 20 | 6035 003 |
| 300 | 5,5 | 3,5 | 80+2 | 24+4 | 20 | 6035 004 |
| 350 | 5,5 | 3,5 | 70+2 | 28+6 | 20 | 6035 005 |

Lama utilizzata con lama di guida in coppia con ART. 6028 - 6029 - 6030.

Sawblade used together with ART. 6028 - 6029 - 6030.

Lame circolari con stelo a forte spessore per ottenere incastri da 2,5 a 6mm.

Sawblades for thick thickness in order to obtain grooves from 2,5 to 6mm.

Lames spéciales avec le corp très épais pour obtenir des jeux de 2,5 à 6mm.

Spezial-Kreissägeblätter mit grössen Dicken um Einschnitte von 2,5 zu 6mm.

Discos de sierra con espesor robusto para ranurar de 2,5 a 6 mm.

| D | B | b | d | Z | β | ID nr. |
|-----|-----|-----|----|----|---------|-----------------|
| 125 | 2,5 | 1,8 | 35 | 12 | 8 | 6036 001 |
| 125 | 3,0 | 2,2 | 35 | 12 | 8 | 6036 002 |
| 125 | 4,0 | 2,8 | 35 | 12 | 8 | 6036 003 |
| 125 | 5,0 | 2,8 | 35 | 12 | 8 | 6036 004 |
| 125 | 6,0 | 3,2 | 35 | 12 | 8 | 6036 005 |
| 150 | 2,5 | 1,8 | 35 | 12 | 10 | 6036 006 |
| 150 | 3,0 | 2,2 | 35 | 12 | 10 | 6036 007 |
| 150 | 4,0 | 2,8 | 35 | 12 | 10 | 6036 008 |
| 150 | 5,0 | 2,8 | 35 | 12 | 10 | 6036 009 |
| 150 | 6,0 | 3,2 | 35 | 12 | 10 | 6036 010 |
| 180 | 4,0 | 2,8 | 35 | 18 | 10 | 6036 011 |
| 180 | 5,0 | 2,8 | 35 | 18 | 10 | 6036 012 |
| 180 | 6,0 | 3,2 | 35 | 18 | 10 | 6036 013 |

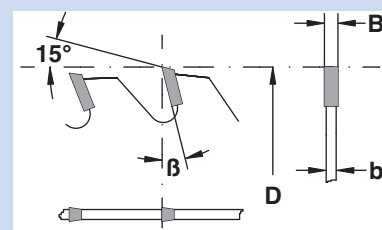
Particolarmente adatte per ottenere incastri di vario spessore, con possibilità di montarle a pacco.

Suitable for obtain grooves of different thickness with the possibility of using in stack.

Lama circolare per lamello.
Special circular sawblade for lamello.
 Lame speciales pour lamello.
Spezial-Kreissägeblätter für lamello.
 Discos de sierra para lamello.

| D | B | b | d | Z | β | ID nr. |
|-----|------|-----|----|---|---------|-----------------|
| 102 | 3,95 | 2,8 | 22 | 8 | 10 | 6037 001 |
| | | | | | | |

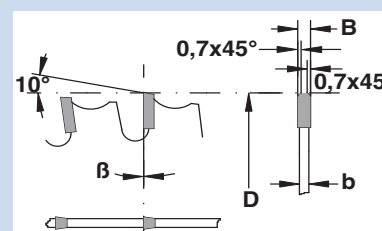
6037



Lame circolari per taglio di materiali ferrosi e coibentati.
Circular sawblades for ferrous materials.
 Lames circulaires pour matière ferreux.
Kreissägeblätter für Metallstoff und isolieren.
 Discos de sierra para cortar materiales en hierro.

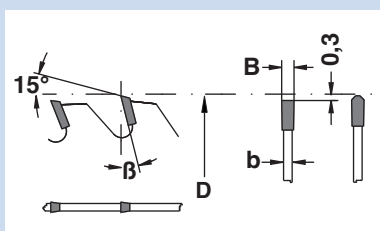
| D | B | b | d | Z | β | ID nr. |
|-----|-----|-----|----|----|---------|-----------------|
| 160 | 2,4 | 1,8 | 20 | 36 | 0 | 6038 010 |
| 180 | 2,4 | 1,8 | 30 | 48 | 0 | 6038 003 |
| 190 | 2,4 | 1,8 | 30 | 48 | 0 | 6038 011 |
| 205 | 2,4 | 1,8 | 30 | 54 | 0 | 6038 012 |
| 230 | 2,4 | 1,8 | 30 | 54 | 0 | 6038 013 |
| 250 | 2,8 | 2,2 | 30 | 60 | 0 | 6038 014 |
| 300 | 2,8 | 2,2 | 30 | 72 | 0 | 6038 015 |
| 350 | 2,8 | 2,2 | 30 | 80 | 0 | 6038 016 |
| | | | | | | |

6038



Lame speciali per taglio di tubolare di ferro, lamiera e plastiche.
Special sawblades for cutting tubes of iron, sheets and plastics.

6040



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari per metalli leggeri non ferrosi con taglio positivo.
Circular sawblades for light not ferrous metals with positive cut.
 Lames circulaires pour des metaux legers non ferreux avec dents positif.
Kreissägeblätter zur Bearbeitung von Aluminium mit positiven Schnitt.
 Discos de sierra con corte positivo para metales ligeros.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|---------|-----|----|-----------------|
| 250 | 3,2 | 2,6 | 30 | PH03 | 60 | 8 | 6040 022 |
| 250 | 3,2 | 2,6 | 32 | 2/11-63 | 60 | 8 | 6040 001 |
| 250 | 3,2 | 2,6 | 20 | - | 80 | 6 | 6040 002 |
| 250 | 3,2 | 2,6 | 32 | 2/11-63 | 80 | 6 | 6040 003 |
| 250 | 3,2 | 2,6 | 32 | 2/11-63 | 100 | 5 | 6040 023 |
| 300 | 3,4 | 2,6 | 30 | PH03 | 72 | 8 | 6040 024 |
| 300 | 3,4 | 2,6 | 32 | 2/11-63 | 72 | 8 | 6040 005 |
| 300 | 3,4 | 2,6 | 32 | 2/11-63 | 84 | 8 | 6040 006 |
| 300 | 3,4 | 2,6 | 32 | 2/11-63 | 96 | 6 | 6040 007 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 84 | 8 | 6040 025 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 84 | 8 | 6040 009 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 96 | 8 | 6040 026 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 96 | 8 | 6040 010 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 108 | 8 | 6040 027 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 108 | 8 | 6040 011 |
| 400 | 4,0 | 3,0 | 30 | PH03 | 96 | 8 | 6040 012 |
| 400 | 4,0 | 3,0 | 32 | 2/11-63 | 96 | 8 | 6040 013 |
| 400 | 4,0 | 3,0 | 30 | PH03 | 120 | 8 | 6040 028 |
| 400 | 4,0 | 3,0 | 32 | 2/11-63 | 120 | 8 | 6040 014 |
| 450 | 4,0 | 3,0 | 30 | PH03 | 108 | 8 | 6040 016 |
| 450 | 4,0 | 3,0 | 32 | 2/11-63 | 108 | 8 | 6040 017 |
| 450 | 4,0 | 3,0 | 30 | PH03 | 128 | 8 | 6040 029 |
| 450 | 4,0 | 3,0 | 32 | 2/11-63 | 128 | 8 | 6040 030 |
| 500 | 4,2 | 3,5 | 30 | PH03 | 120 | 8 | 6040 037 |
| 500 | 4,2 | 3,5 | 32 | 2/11-63 | 120 | 8 | 6040 038 |
| 500 | 4,2 | 3,5 | 30 | PH03 | 140 | 8 | 6040 039 |
| 500 | 4,2 | 3,5 | 32 | 2/11-63 | 140 | 8 | 6040 040 |
| 530 | 4,2 | 3,5 | 30 | PH03 | 120 | 8 | 6040 041 |
| 530 | 4,2 | 3,5 | 30 | PH03 | 140 | 8 | 6040 042 |
| 550 | 4,2 | 3,5 | 30 | PH03 | 120 | 10 | 6040 043 |
| 550 | 4,2 | 3,5 | 32 | 2/11-63 | 120 | 10 | 6040 044 |
| 550 | 4,2 | 3,5 | 30 | PH03 | 148 | 10 | 6040 045 |
| 550 | 4,2 | 3,5 | 32 | 2/11-63 | 148 | 10 | 6040 046 |

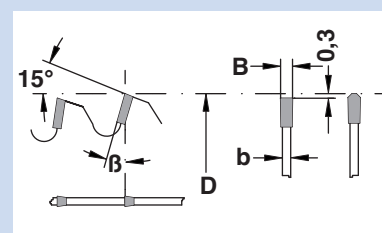
Lame circolari per taglio di leghe leggere non ferrose, come alluminio a forte spessore o pieni.
Circular sawblades for cutting light alloy non-ferrous, as aluminium with big thickness or solids.

Lame circolari per metalli leggeri non ferrosi con taglio negativo.
Circular sawblades for light not ferrous metals with negative cut.
 Lames circulaires pour des métaux légers non ferreux avec dents négatif.
Kreissägeblätter zur Bearbeitung von Aluminium mit negativ Schnitt.
 Discos de sierra con corte negativo para metales ligeros.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|---------|-----|----|-----------------|
| 250 | 3,2 | 2,6 | 20 | - | 80 | -6 | 6041 001 |
| 250 | 3,2 | 2,6 | 30 | PH03 | 80 | -6 | 6041 013 |
| 250 | 3,2 | 2,6 | 32 | 2/11-63 | 80 | -6 | 6041 002 |
| 300 | 3,4 | 2,6 | 30 | PH03 | 96 | -6 | 6041 014 |
| 300 | 3,4 | 2,6 | 32 | 2/11-63 | 96 | -6 | 6041 005 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 84 | -6 | 6041 015 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 84 | -6 | 6041 006 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 96 | -6 | 6041 016 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 96 | -6 | 6041 007 |
| 350 | 3,6 | 2,8 | 30 | PH03 | 108 | -6 | 6041 017 |
| 350 | 3,6 | 2,8 | 32 | 2/11-63 | 108 | -6 | 6041 008 |
| 400 | 4,0 | 3,0 | 30 | PH03 | 96 | -6 | 6041 018 |
| 400 | 4,0 | 3,0 | 32 | 2/11-63 | 96 | -6 | 6041 009 |
| 400 | 4,0 | 3,0 | 30 | PH03 | 120 | -6 | 6041 019 |
| 400 | 4,0 | 3,0 | 32 | 2/11-63 | 120 | -6 | 6041 010 |
| 450 | 4,0 | 3,0 | 30 | PH03 | 108 | -6 | 6041 020 |
| 450 | 4,0 | 3,0 | 32 | 2/11-63 | 108 | -6 | 6041 012 |
| 450 | 4,0 | 3,0 | 30 | PH03 | 128 | -6 | 6041 021 |
| 450 | 4,0 | 3,0 | 32 | 2/11-63 | 128 | -6 | 6041 022 |

Lame circolari per taglio dei profilati di leghe non ferrose come alluminio o altro.
Circular sawblades for cutting light alloy non-ferrous profiles as aluminium and more.

6041



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

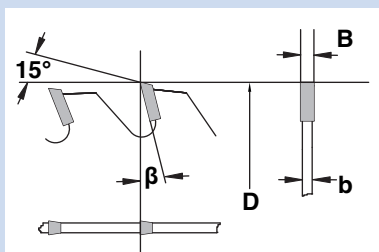
6043



Lame circolari per pantografo.
Circular sawblades for pantograph.
 Lames circulaires pour pantograph.
Zuschneid Sägeblätter für Pantograph.
 Discos de sierra para fresadoras.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|--------|----|---------|-----------------|
| 120 | 3,0 | 2,2 | 20 | 4/7-30 | 24 | 10 | 6043 004 |
| 120 | 4,0 | 2,2 | 20 | 4/7-30 | 24 | 10 | 6043 003 |
| 120 | 5,0 | 2,2 | 20 | 4/7-30 | 24 | 10 | 6043 005 |
| 120 | 6,0 | 2,2 | 20 | 4/7-30 | 24 | 10 | 6043 006 |

Lame circolari da montare su alberino ART. 3514
Circular sawblades to set on chuck ART. 3514

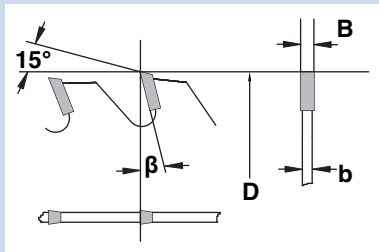


6044



Lame circolari per pantografo e punto-punto.
Circular sawblades for pantograph.
 Lames circulaires pour pantograph.
Zuschneid Sägeblätter für Pantograph.
 Discos de sierra para fresadoras y fresadoras.

| D | B | d | ch | PH | Z | β | Affilatura | ID nr. |
|-----|-----|----|----|------------------|----|---------|------------|-----------------|
| 100 | 4,0 | 20 | - | - | 20 | 10 | PT | 6044 001 |
| 120 | 4,0 | 20 | 2 | - | 20 | 10 | PT | 6044 003 |
| 120 | 4,0 | 20 | - | 3/5-35 | 24 | 10 | PT | 6044 013 |
| 120 | 4,0 | 35 | - | PH06 | 30 | 10 | ALT | 6044 004 |
| 125 | 4,0 | 20 | - | - | 20 | 10 | PT | 6044 006 |
| 150 | 4,0 | 30 | 2 | - | 30 | 10 | PT | 6044 007 |
| 180 | 4,0 | 35 | - | 1/6-46 1/6-50 | 42 | 10 | ALT | 6044 009 |
| 200 | 3,2 | 30 | - | - | 34 | 10 | PT | 6044 010 |
| 215 | 4,0 | 35 | - | 1/6-50 | 50 | 10 | ALT | 6044 011 |



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

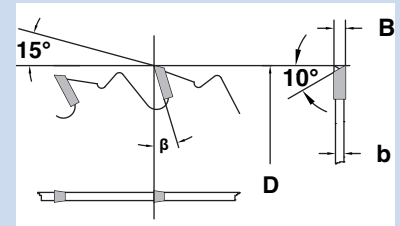
Lame circolari per pantografi da montare su alberini e rinvio angolare.
Circular sawblades for pantograph to set on shaft and angular-return.

Lame circolari universali "SILENZIATE" con limitatore di truciolo.
"SILENCED" universal circular sawblades with chip thickness limitation butts.
 Lames circulaires universelles "SILENCIEUX" avec refouleur limitant.
Universal Zuschneid Sägeblätter "DÄMPFEU" mit Wechselzahn.
 Discos de sierra "SILENCIADAS" con limitación para las virutas.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 300 | 3,2 | 2,2 | 30 | PH03 | 28 | 20 | 6501 001 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 32 | 18 | 6501 002 |
| 350 | 3,5 | 2,5 | 35 | - | 32 | 18 | 6501 003 |

Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.
Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

6501



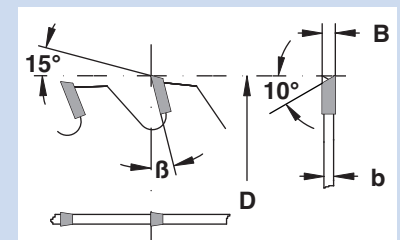
Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.
PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari universali "SILENZIATE".
"SILENCED" universal circular sawblades.
 Lames circulaires universelles "SILENCIEUX".
Universal Zuschneid Sägeblätter "DÄMPFEU".
 Discos de sierra "SILENCIADAS".

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|----|-----------------|
| 300 | 3,2 | 2,2 | 30 | PH03 | 48 | 13 | 6502 001 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 54 | 13 | 6502 002 |
| 350 | 3,5 | 2,5 | 35 | - | 54 | 13 | 6502 003 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 60 | 13 | 6502 006 |

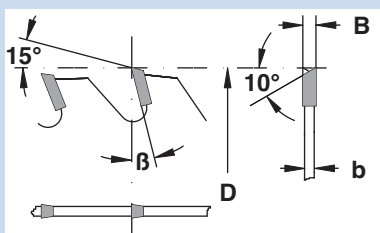
Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.
Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

6502



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.
PH holes see "Reference drawings for standard pin holes" pages 403-404.

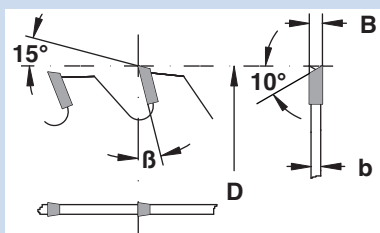
6503



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

6504



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari universali "SILENZIATE".
"SILENCED" universal circular sawblades.
Lames circulaires universelles "SILENCIEUX".
Universal Zuschneid Sägeblätter "DÄMPFEU".
Discos de sierra "SILENCIADAS".

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|----|---------|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | 12 | 6503 001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | 12 | 6503 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | 12 | 6503 003 |
| 350 | 3,5 | 2,5 | 35 | - | 84 | 12 | 6503 004 |
| 400 | 4,0 | 2,8 | 30 | PH03 | 96 | 12 | 6503 007 |

Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.

Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

Lame circolari universali "SILENZIATE".
"SILENCED" universal circular sawblades.
Lames circulaires universelles "SILENCIEUX".
Universal Zuschneid Sägeblätter "DÄMPFEU".
Discos de sierra "SILENCIADAS".

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|---------|-----------------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 80 | 10 | 6504 001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6504 002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 10 | 6504 003 |

Lama per tagli lungo e trasverso vena con ottima finitura di legni duri e pregiati e di pannelli laminati.

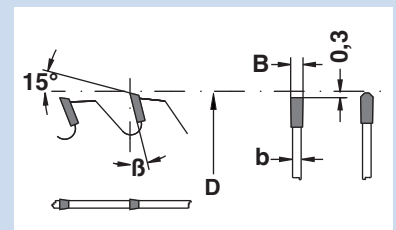
Sawblade for ripping and cross cutting with excellent finish of quality hardwoods and laminated panels.

Lame circolari "SILENZIATE" con taglienti a sbazzare e finire.
 "SILENCED" universal circular sawblades with trapez-flat teeth.
 Lames circulaires universelles "SILENCIEUX" avec dents trapezoidal-plats.
 Universal Zuschneid Sägeblätter "DÄMPFEU" mit schneiden trapez-flach.
 Discos de sierra "SILENCIADAS" con dientes para cantar.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|---------|
| 220 | 3,2 | 2,2 | 30 | PH03 | 64 | 10 | 6505007 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 60 | 12 | 6505006 |
| 250 | 3,2 | 2,2 | 30 | PH03 | 80 | 10 | 6505001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 72 | 12 | 6505004 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 10 | 6505002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 84 | 12 | 6505005 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 10 | 6505003 |

Adatte per il taglio di pannelli laminati.
 Suitable for cutting panels in stack.

6505



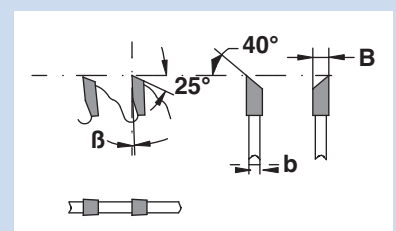
Per forature PH vedi "Disegni di riferimento per forature" pagg 403-404.
 PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari universali "SILENZIATE" per taglio senza incisore.
 "SILENCED" universal circular sawblades for cutting without scoring blade.
 Lames circulaires "SILENCIEUX" pour coupe sans lames inciseuses.
 Universal Zuschneid Sägeblätter "DAMPFEU" für Schnitt ohne Sneider.
 Discos de sierra "SILENCIADAS" para realizar cortes sin incisiones.

| D | B | b | d | PH | Z | β | ID nr. |
|-----|-----|-----|----|------|-----|----|---------|
| 250 | 3,2 | 2,2 | 30 | PH03 | 80 | -2 | 6507001 |
| 300 | 3,2 | 2,2 | 30 | PH03 | 96 | 2 | 6507002 |
| 350 | 3,5 | 2,5 | 30 | PH03 | 108 | 5 | 6507003 |

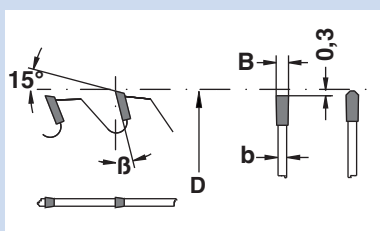
Lama per sezionatura senza l'uso dell'incisore, con ottima finitura su pannelli truciolari e MDF ricoperti in entrambi i lati.
 Sawblade for cutting without scoring blade, with excellent finishing on MDF and chipboard coated on both sides.

6507



Per forature PH vedi "Disegni di riferimento per forature" pagg 403-404.
 PH holes see "Reference drawings for standard pin holes" pages 403-404.

6506



* Vedi "Tabella di riferimento per sezionatrici" pagg. 401-402.

* See "Reference table for panel saws" pages 401-402.

Per forature **PH** vedi "Disegni di riferimento per forature" pagg 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari "SILENZIATE" per sezionatrici con taglienti sbozzatori.
 "SILENCED" thick circular sawblades with trapez-flat teeth.
 Lames circulaires "SILENCIEUX" à fort épaisseur avec dents trapezoidal-plate.
 Sägen "DÄMPFEU" von beachtliche Stärke mit schneiden trapez-flach.
 Discos de sierra "SILENCIADAS" para seccionadoras con dientes para cantar.

| D | B | b | d | PH | MACCHINA | Z | β | ID nr. |
|-----|-----|-----|----|------|----------|----|----|-----------------|
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 54 | 12 | 6506 017 |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 12 | 6506 018 |
| 300 | 4,4 | 3,0 | 30 | 2 | Gabbiani | 72 | 13 | 6506 019 |
| 300 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 13 | 6506 020 |
| 300 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 13 | 6506 021 |
| 320 | 4,4 | 3,0 | 65 | PH05 | Selco | 60 | 16 | 6506 022 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 54 | 16 | 6506 002 |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 54 | 16 | 6506 023 |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 54 | 16 | 6506 003 |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 54 | 16 | 6506 024 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 54 | 16 | 6506 004 |
| 350 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 6506 005 |
| 350 | 4,4 | 3,0 | 60 | PH04 | Holzma | 72 | 14 | 6506 025 |
| 350 | 4,4 | 3,0 | 75 | 3+3 | MacMazza | 72 | 14 | 6506 006 |
| 350 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6506 026 |
| 350 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 6506 007 |
| 360 | 4,4 | 3,0 | 65 | PH05 | Selco | 72 | 14 | 6506 027 |
| 360 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6506 028 |
| 380 | 4,4 | 3,0 | 60 | PH04 | Holzma | 60 | 15 | 6506 029 |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 60 | 15 | 6506 030 |
| 380 | 4,4 | 3,0 | 30 | PH03 | * | 72 | 14 | 6506 031 |
| 380 | 4,4 | 3,0 | 50 | 4 | Giben | 72 | 14 | 6506 032 |
| 380 | 4,4 | 3,0 | 75 | PH02 | * | 72 | 14 | 6506 033 |
| 380 | 4,4 | 3,0 | 80 | PH01 | * | 72 | 14 | 6506 034 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 60 | 16 | 6506 008 |
| 400 | 4,4 | 3,2 | 75 | 3+3 | MacMazza | 60 | 16 | 6506 009 |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 60 | 16 | 6506 035 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 16 | 6506 010 |
| 400 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 15 | 6506 011 |
| 400 | 4,4 | 3,2 | 75 | 3+3 | MacMazza | 72 | 15 | 6506 012 |
| 400 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 15 | 6506 036 |
| 400 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 15 | 6506 013 |
| 420 | 4,4 | 3,2 | 80 | PH01 | * | 60 | 16 | 6506 014 |
| 430 | 4,4 | 3,2 | 75 | PH02 | * | 72 | 16 | 6506 015 |
| 430 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 16 | 6506 016 |
| 450 | 4,4 | 3,2 | 30 | PH03 | * | 72 | 16 | 6506 037 |
| 450 | 4,4 | 3,2 | 80 | PH01 | * | 72 | 16 | 6506 038 |
| 380 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 15 | 6506 039 |
| 400 | 4,8 | 3,5 | 60 | PH04 | Holzma | 60 | 16 | 6506 040 |
| 400 | 4,8 | 3,8 | 60 | PH04 | Holzma | 72 | 15 | 6506 041 |
| 420 | 4,8 | 3,5 | 60 | PH04 | Holzma | 72 | 16 | 6506 042 |
| 450 | 4,8 | 3,8 | 60 | PH04 | Holzma | 72 | 16 | 6506 043 |

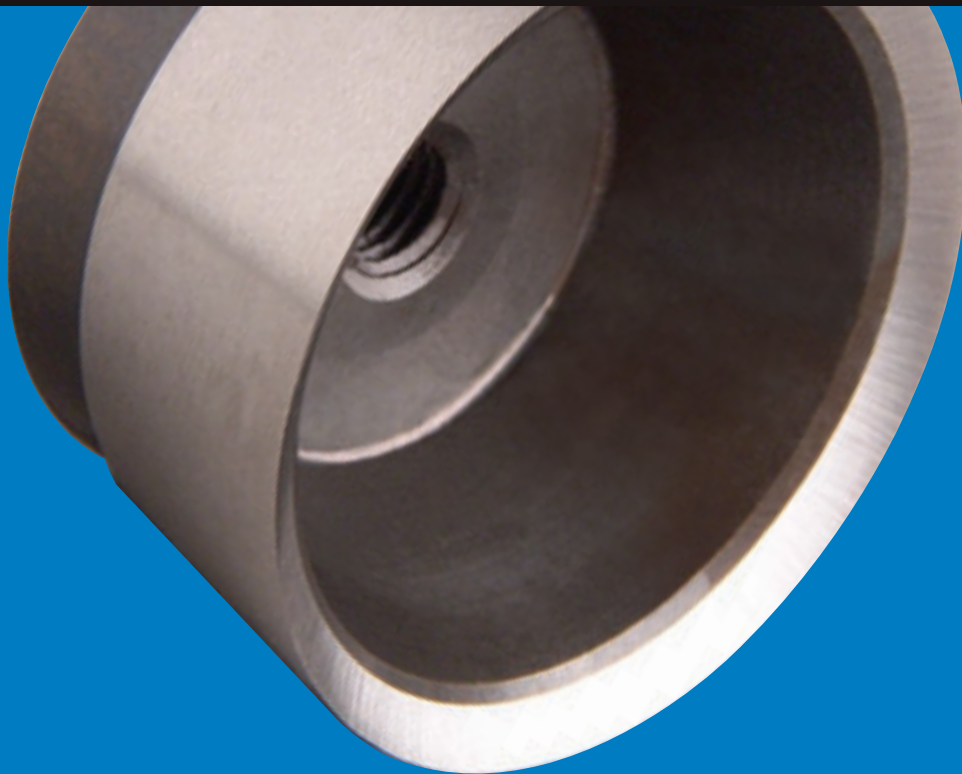
Adatte per il taglio di pannelli disposti a pacco.
 Suitable for cutting panels in stack.

LAVORAZIONI PARTICOLARI ADDITIONAL MANUFACTURES

| DESCRIZIONE/DESCRIPTION | ID nr. |
|---|--------|
| Allargatura foro fino al Ø50 <i>Bore widening until Ø50</i> | AF1 |
| Allargatura foro superiore al Ø50 <i>Upper bore widening until Ø50</i> | AF2 |
| Fori di trascinamento <i>Pin holes</i> | FT1 |
| Fori di trascinamento con svasature <i>Pin holes countersunk</i> | FT2 |
| Chiavetta <i>Key</i> | CH1 |



Evolved**Experience**



Utensili per Tornio e Accessori

Tools for Lathes and Accessories

Utensili per Tornio e Accessori

Tools for Lathes and Accessories



Sgorbie in HSS

Turning cutters in HSS

P 435



Utensili per tornio copiativo

Tools for copying lathes

P 436



Bicchierini e piatti

Cups and plates

P 437



Distanziali e riduzioni

Spacing collars and reducing bushes

P 438



Cuscinetti per Copiatura

Ball bearings for copying

P 440



Seghe a Nastro

Band sawblades

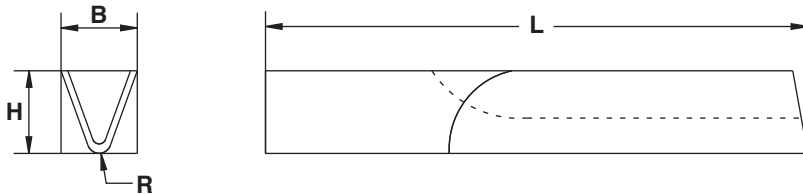
P 442

Sgorbie in acciaio massiccio.
Turning cutters in solid steel.
Gouges en acier massif.
Hohleisen aus massivem Stahl.
Cuchillas de tornio en acero.

8001

| BxHxL | B | ID nr. |
|-----------|-----|-----------------|
| 15x15x150 | 2 | 8001 001 |
| 20x20x200 | 2,5 | 8001 002 |
| 20x20x200 | 5 | 8001 003 |
| 20x25x210 | 2,5 | 8001 004 |
| 20x25x210 | 5 | 8001 005 |
| 25x25x210 | 2,5 | 8001 006 |
| 25x25x210 | 6 | 8001 007 |
| 25x30x220 | 2,5 | 8001 008 |
| 25x30x220 | 5 | 8001 009 |

Esecuzione in HSS
Execution in HSS

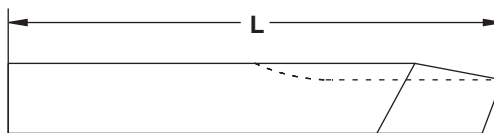
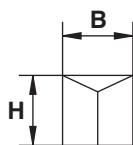


8003



Utensili per tornio copiativo.
Tools for copying lathe.
Outils pour tour à copier.
Werkzeuge für Kopierdrehbank.
Utensilios para tornio copiativo.

| BxHxL | R | ID nr. HSS | ID nr. HM |
|-----------|------|-----------------|-----------------|
| 19x19x185 | 0,75 | 8003 001 | 8003 002 |
| | | | |

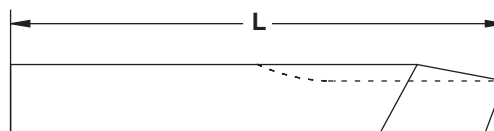
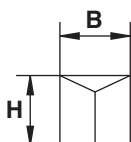


8004



Utensili per tornio copiativo ricoperti di titanio.
Tools for copying lathe covered by titanium.
Outils pour tour à copier couvert avec titane.
Werkzeuge für Kopierdrehbank bedeckt mit Titan.
Utensilios para tornio copiativo con cubertura en titanium.

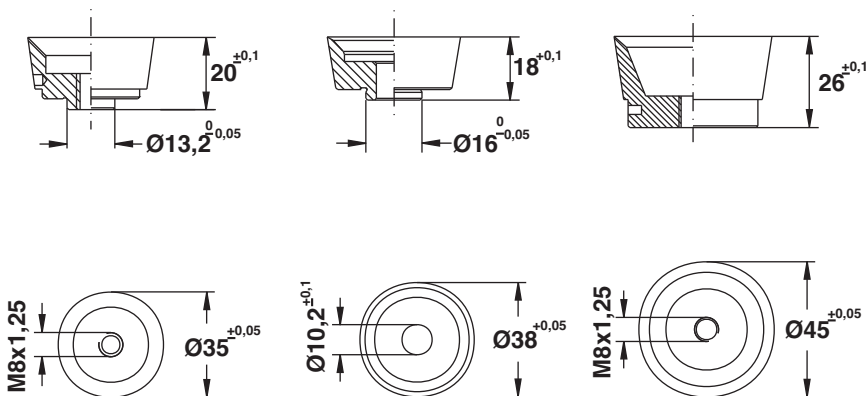
| BxHxL | R | ID nr. HSS-TITANIO |
|-----------|------|--------------------|
| 19x19x185 | 0,75 | 8004 001 |
| | | |



Bicchierini per tornio copiativo.
Tools for copying lathes.
 Outils pour tours à copier.
Werkzeuge für Kopierdrehbänke.
 Vasos para tornio copiativo

| D | R | ID nr. |
|----|----|-----------------|
| 35 | 20 | 8005 001 |
| 38 | 18 | 8005 002 |
| 45 | 26 | 8005 003 |

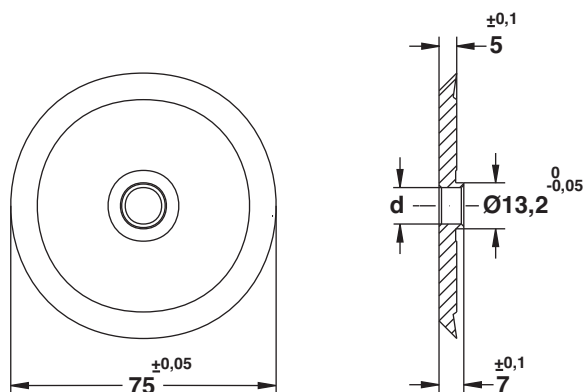
Esecuzione in HSS
 Execution in HSS



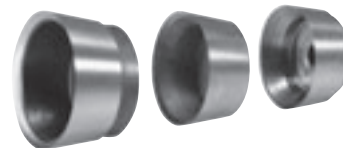
Piattelli per tornio copiativo.
Plates for copying lathes.
 Plateaux pour tour à copier.
Teller für Kopierdrehbänke.
 Discos para tornio copiativo.

| D | d | ID nr. |
|----|------|-----------------|
| 75 | 10,3 | 8006 001 |

Esecuzione in HSS
 Execution in HSS



8005



8006

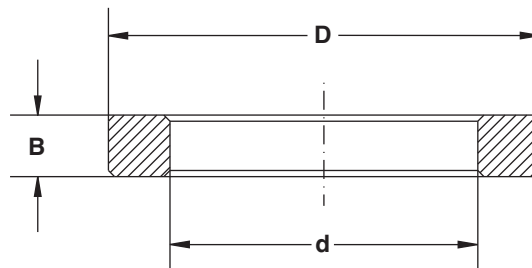


9001

Anelli distanziali.
Spacing collars.
 Bagues épaissées.
Abstandringe.
 Anillos distanciadores.



| DxBxd | ID nr. | DxBxd | ID nr. |
|-----------|-----------------|-----------|-----------------|
| 50x0,1x30 | 9001 001 | 60x8x40 | 9001 036 |
| 50x0,3x30 | 9001 002 | 60x10x40 | 9001 037 |
| 50x0,5x30 | 9001 003 | 60x12x40 | 9001 038 |
| 50x1x30 | 9001 004 | 60x14x40 | 9001 039 |
| 50x2x30 | 9001 005 | 60x16x40 | 9001 040 |
| 50x4x30 | 9001 006 | 60x18x40 | 9001 041 |
| 50x6x30 | 9001 007 | 60x20x40 | 9001 042 |
| 50x8x30 | 9001 008 | 70x0,1x50 | 9001 043 |
| 50x10x30 | 9001 009 | 70x0,3x50 | 9001 044 |
| 50x12x30 | 9001 010 | 70x0,5x50 | 9001 045 |
| 50x14x30 | 9001 011 | 70x1x50 | 9001 046 |
| 50x16x30 | 9001 012 | 70x2x50 | 9001 047 |
| 50x18x30 | 9001 013 | 70x4x50 | 9001 048 |
| 50x20x30 | 9001 014 | 70x6x50 | 9001 049 |
| 55x0,1x35 | 9001 015 | 70x8x50 | 9001 050 |
| 55x0,3x35 | 9001 016 | 70x10x50 | 9001 051 |
| 55x0,5x35 | 9001 017 | 70x12x50 | 9001 052 |
| 55x1x35 | 9001 018 | 70x14x50 | 9001 053 |
| 55x2x35 | 9001 019 | 70x16x50 | 9001 054 |
| 55x4x35 | 9001 020 | 70x18x50 | 9001 055 |
| 55x6x35 | 9001 021 | 70x20x50 | 9001 056 |
| 55x8x35 | 9001 022 | 80x0,1x60 | 9001 057 |
| 55x10x35 | 9001 023 | 80x0,3x60 | 9001 058 |
| 55x12x35 | 9001 024 | 80x0,5x60 | 9001 059 |
| 55x14x35 | 9001 025 | 80x1x60 | 9001 060 |
| 55x16x35 | 9001 026 | 80x2x60 | 9001 061 |
| 55x18x35 | 9001 027 | 80x4x60 | 9001 062 |
| 55x20x35 | 9001 028 | 80x6x60 | 9001 063 |
| 60x0,1x40 | 9001 029 | 80x8x60 | 9001 064 |
| 60x0,3x40 | 9001 030 | 80x10x60 | 9001 065 |
| 60x0,5x40 | 9001 031 | 80x12x60 | 9001 066 |
| 60x1x40 | 9001 032 | 80x14x60 | 9001 067 |
| 60x2x40 | 9001 033 | 80x16x60 | 9001 068 |
| 60x4x40 | 9001 034 | 80x18x60 | 9001 069 |
| 60x6x40 | 9001 035 | 80x20x60 | 9001 070 |



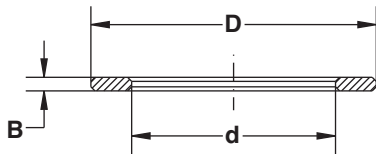
Bussole di riduzione.
Reducing bushes.
 Douilles de réduction.
Reduzierungsbüchse.
 Anillos de reducción del eje.

Per LAME / For SAWBLADES

| DxBxd | ID nr. |
|---------|-----------------|
| 20x2x13 | 9002 001 |
| 20x2x15 | 9002 002 |
| 20x2x16 | 9002 003 |
| 25x2x20 | 9002 004 |
| 30x2x16 | 9002 005 |
| 30x2x20 | 9002 006 |
| 30x2x25 | 9002 007 |
| 32x2x20 | 9002 008 |
| 32x2x25 | 9002 009 |
| 32x2x30 | 9002 010 |
| 35x2x20 | 9002 011 |
| 35x2x25 | 9002 012 |
| 35x2x30 | 9002 013 |

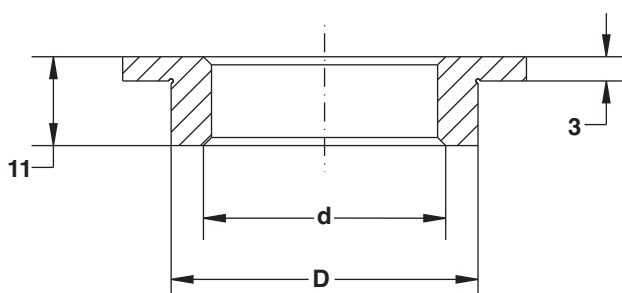
Per FRESE / For CUTTERS

| DxBxd | ID nr. |
|----------|-----------------|
| 35x5x30 | 9002 051 |
| 35x10x30 | 9002 052 |
| 35x15x30 | 9002 053 |
| 35x20x30 | 9002 054 |
| 35x25x30 | 9002 055 |
| 35x30x30 | 9002 056 |
| 35x40x30 | 9002 057 |
| 35x50x30 | 9002 058 |
| 40x5x35 | 9002 059 |
| 40x10x35 | 9002 060 |
| 40x15x35 | 9002 061 |
| 40x20x35 | 9002 062 |
| 40x25x35 | 9002 063 |
| 40x30x35 | 9002 064 |
| 40x40x35 | 9002 065 |
| 40x50x35 | 9002 066 |

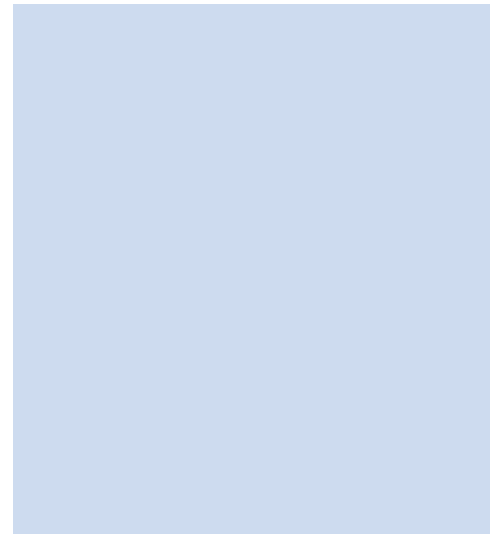


Bussole di riduzione con battuta.
Reducing bushes with collar.
 Douilles de réduction avec épaulement.
Reduzierungsbüchse mit Bund.
 Anillos de reducción del eje con borde.

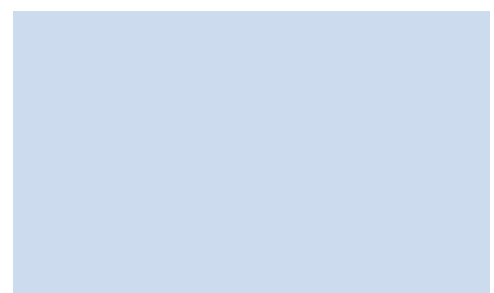
| D | d | ID nr. |
|----|----|-----------------|
| 35 | 30 | 9003 001 |
| 40 | 30 | 9003 002 |
| 40 | 35 | 9003 003 |
| 50 | 30 | 9003 004 |
| 50 | 35 | 9003 005 |
| 50 | 40 | 9003 006 |



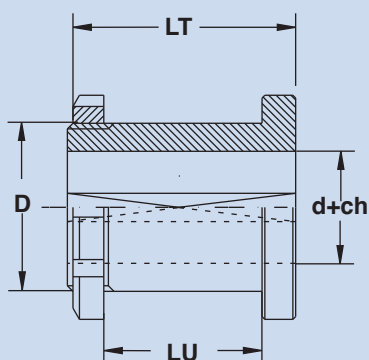
9002



9003



9004



Mozzi porta-frese con ghiera.
Sleeves carrying drills with lockring
 Flasques porte-fraises avec collier de serrage.
Grundkoerper Fraesdorn mit Nutmutter.
 Casquillos portafresas con tuerca.

| D | LU | LT | d+ch | ID nr. |
|----|-----|-----|------|-----------------|
| 50 | 50 | 75 | 30+2 | 9004 001 |
| 50 | 100 | 125 | 30+2 | 9004 002 |
| 50 | 150 | 175 | 30+2 | 9004 003 |
| 50 | 50 | 75 | 35+2 | 9004 007 |
| 50 | 100 | 125 | 35+2 | 9004 008 |
| 50 | 150 | 175 | 35+2 | 9004 009 |
| 50 | 50 | 75 | 40 | 9004 013 |
| 50 | 100 | 125 | 40 | 9004 014 |
| 50 | 150 | 175 | 40 | 9004 015 |
| 60 | 50 | 75 | 35+2 | 9004 010 |
| 60 | 100 | 125 | 35+2 | 9004 011 |
| 60 | 150 | 175 | 35+2 | 9004 012 |
| 60 | 50 | 75 | 40+2 | 9004 004 |
| 60 | 100 | 125 | 40+2 | 9004 005 |
| 60 | 150 | 175 | 40+2 | 9004 006 |
| 60 | 50 | 75 | 50 | 9004 016 |
| 60 | 100 | 125 | 50 | 9004 017 |
| 60 | 150 | 175 | 50 | 9004 018 |

9005



Cassetta completa per copiatura.
Complete box for copying.
 Coffre complete pour copiage.
Kasten komplett für kopieren.
 Estuche con anillos de ataque con cojinete.

| d | ID nr. |
|----|-----------------|
| 30 | 9005 001 |
| 35 | 9005 003 |

Caratteristiche

Il set è composto da: N°1 cuscinetto,
 N°9 anelli D = 100-105-110-115-120-125-
 130-135-140, N°1 cassetta legno.

Characteristics

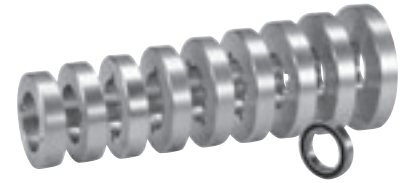
The set is compound of: N°1 ball bearing,
 N°9 rings D = 100-105-110-115-120-125-
 130-135-140, N°1 wood box.

Set di cuscinetti e anelli guida di copiatura.
Set of ball bearings and guide rings for copying.
 Jeu de roulement à billes et anneaux pour copiage.
Set mit Kugellager und Ring für Kopieren.
 Juego de anillos de ataque con cojinete.

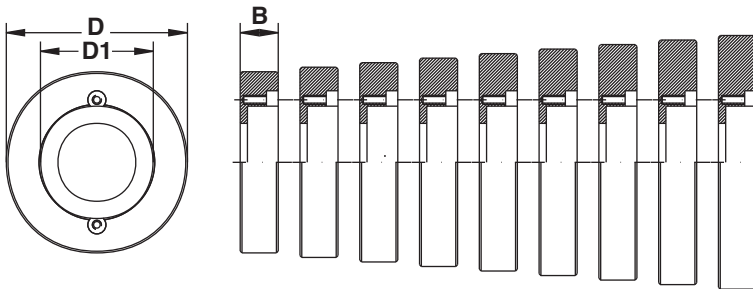
9006

ANELLI GUIDA / GUIDE RINGS

| D | B | D1 | ID nr. |
|-----------|----|----|-----------------|
| 100 | 21 | 62 | 9006 001 |
| 105 | 21 | 62 | 9006 002 |
| 110 | 21 | 62 | 9006 003 |
| 115 | 21 | 62 | 9006 004 |
| 120 | 21 | 62 | 9006 005 |
| 125 | 21 | 62 | 9006 006 |
| 130 | 21 | 62 | 9006 007 |
| 135 | 21 | 62 | 9006 008 |
| 140 | 21 | 62 | 9006 009 |
| SPECIALE* | 21 | 62 | 9006 010 |

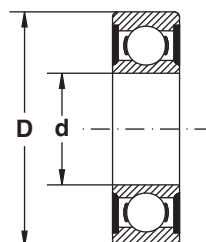


*Su richiesta si costruiscono anelli guida di diametro diverso.
 *On request it is possible to make guide rings of different diameter.



CUSCINETTI / BALL BEARINGS

| D | d | ID nr. |
|----|----|-----------------|
| 62 | 30 | 9006 051 |
| 62 | 35 | 9006 053 |



9007

Lame per seghe a nastro.
Band sawblades.
Lames des scies à ruban.
Bandsägeblätter.
Sierras de cinta.



| H | B | P | ID nr. |
|----|-----|----|-----------------|
| 10 | 0,5 | 5 | 9007 001 |
| 10 | 0,6 | 5 | 9007 002 |
| 10 | 0,6 | 6 | 9007 003 |
| 12 | 0,5 | 6 | 9007 004 |
| 12 | 0,6 | 7 | 9007 005 |
| 15 | 0,6 | 8 | 9007 006 |
| 15 | 0,6 | 10 | 9007 007 |
| 15 | 0,7 | 8 | 9007 008 |
| 15 | 0,7 | 10 | 9007 009 |
| 20 | 0,6 | 8 | 9007 010 |
| 20 | 0,6 | 10 | 9007 011 |
| 20 | 0,7 | 8 | 9007 012 |
| 20 | 0,7 | 10 | 9007 013 |
| 25 | 0,6 | 8 | 9007 014 |
| 25 | 0,6 | 10 | 9007 015 |
| 25 | 0,7 | 8 | 9007 016 |
| 25 | 0,7 | 10 | 9007 017 |
| 30 | 0,6 | 10 | 9007 018 |
| 30 | 0,7 | 10 | 9007 019 |
| 30 | 0,7 | 12 | 9007 020 |
| 35 | 0,6 | 10 | 9007 021 |
| 35 | 0,7 | 12 | 9007 022 |
| 40 | 0,7 | 10 | 9007 023 |
| 40 | 0,8 | 12 | 9007 024 |
| 45 | 0,8 | 10 | 9007 025 |
| 45 | 0,9 | 12 | 9007 026 |
| 50 | 0,9 | 14 | 9007 027 |

N.B.: Il prezzo si intende a metro - un rotolo = 100mt.

ATTENTION: The price is for each meter - a roll = 100mt.



PROFILO DEL DENTE / PROFILE OF THE TOOTH

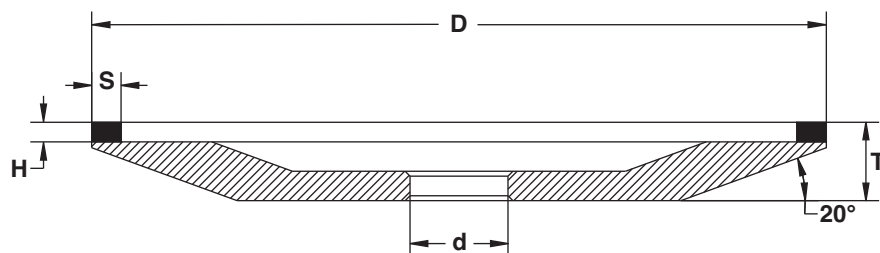
Mole diamante.
 Diamond grinding wheel.
 Meule diamantée.
 Diamants Schlefscheiben.
 Muelas en diamante.

9008



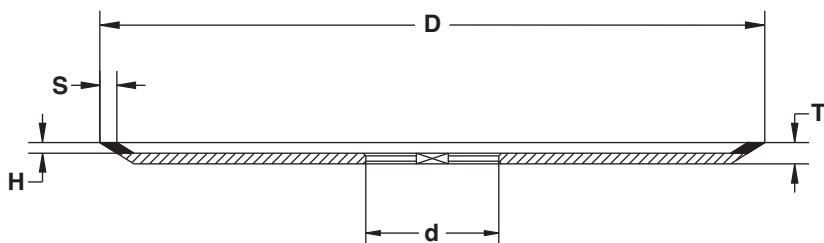
TIPO - A

| D | S | H | T | d | TAGLIENTE | ID nr. |
|-----|---|---|----|----|------------------|-----------------|
| 150 | 4 | 3 | 16 | 20 | C75-D54 | 9008 001 |
| 150 | 6 | 2 | 9 | 20 | Borazon C75-D181 | 9008 002 |
| 150 | 6 | 4 | 16 | 20 | C75-D91 | 9008 003 |



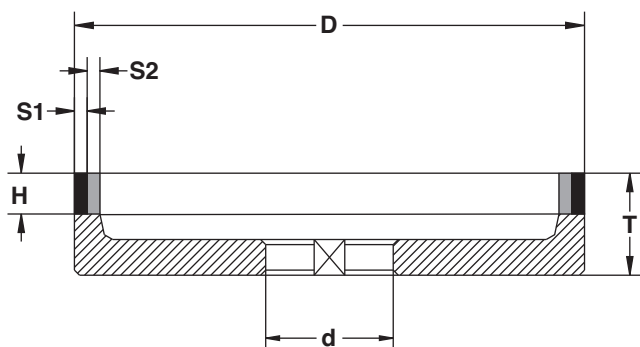
TIPO - B

| D | S | H | T | d | TAGLIENTE | ID nr. |
|-----|---|---|-----|-------|-----------|-----------------|
| 75 | 4 | 2 | 3,2 | 25 | C100-D64 | 9008 004 |
| 150 | 4 | 2 | 4 | 25+ch | C100-D64 | 9008 005 |



TIPO - C

| D | S1 | S2 | H | T | d | TAGLIENTE | ID nr. |
|-----|-----|-----|---|----|-------|--------------|-----------------|
| 75 | 3 | 3 | 6 | 18 | 25 | C100-D126/30 | 9008 006 |
| 100 | 2,5 | 2,5 | 8 | 20 | 25+ch | C100-D126/30 | 9008 007 |



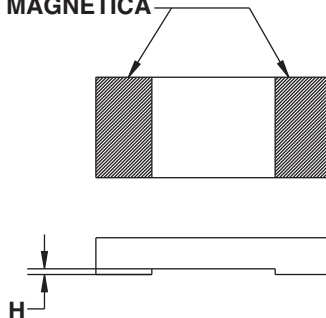
9009



Calibro magnetico per posizionamento coltellini HM.
Magnetic gauge for HM knives positioning.
Calibre magnétique pour positionner couteaux HM.
Magnetisch Lehre zu HM Messer positoinieren.
Calibre magnético para posicionar las cuchillas en HM.

| H | ID nr. |
|-----|-----------------|
| 0,3 | 9009 001 |
| 1 | 9009 002 |

ZONA MAGNETICA



9010



Pompa di ingrassaggio per boccale HYDRO.
Grease gun for system HYDRO.
Pompe d'engrassage pour le système HYDRO.
Schmierpumpe für System HYDRO.
Bomba de engrasamiento para el sistema HYDRO.

| ID nr. |
|-----------------|
| 9010 001 |

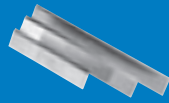


Evolved **Experience**



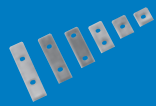
Ricambi Spare parts

Ricambi Spare parts



Coltelli pialla
Plaining knives

P 449



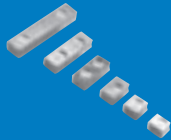
Coltelli standard
Standard knives

P 457



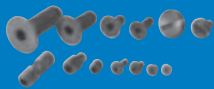
Coltelli sagomati
Shaped knives

P 464



Lardoni di serraggio
Clamping wedge

P 486



Viti di fissaggio
Fixing screws

P 487

Coltelli pialla spessore 3mm.

Planing knives with thickness of 3mm.

Couteaux pour rabots avec épaisseur de 3mm.

Strefenhobelmesser 3mm.

Cuchillas para cepillar 3mm.

Altezza 25mm

Height 25 mm

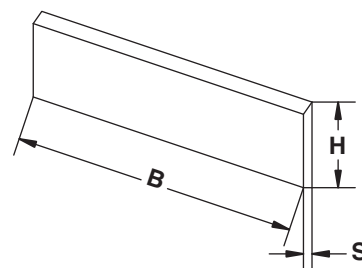
| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|-----|----|---|--------------------|--------------------|--------------------|
| | | | ID nr. | ID nr. | ID nr. |
| 120 | 25 | 3 | 9501 053/25 | 9501 003/25 | 9501 103/25 |
| 190 | 25 | 3 | 9501 060/25 | 9501 010/25 | 9501 110/25 |

Altezza 30mm

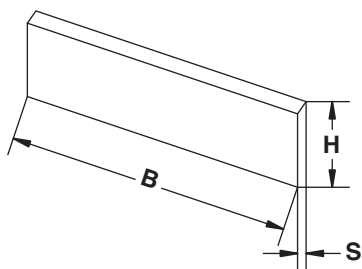
Height 30 mm

| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|------|----|---|--------------------|--------------------|--------------------|
| | | | ID nr. | ID nr. | ID nr. |
| 60 | 30 | 3 | 9501 084/30 | 9501 034/30 | 9501 134/30 |
| 80 | 30 | 3 | 9501 051/30 | 9501 001/30 | 9501 101/30 |
| 100 | 30 | 3 | 9501 052/30 | 9501 002/30 | 9501 102/30 |
| 120 | 30 | 3 | 9501 053/30 | 9501 003/30 | 9501 103/30 |
| 130 | 30 | 3 | 9501 054/30 | 9501 004/30 | 9501 104/30 |
| 140 | 30 | 3 | 9501 055/30 | 9501 005/30 | 9501 105/30 |
| 150 | 30 | 3 | 9501 056/30 | 9501 006/30 | 9501 106/30 |
| 160 | 30 | 3 | 9501 057/30 | 9501 007/30 | 9501 107/30 |
| 170 | 30 | 3 | 9501 058/30 | 9501 008/30 | 9501 108/30 |
| 180 | 30 | 3 | 9501 059/30 | 9501 009/30 | 9501 109/30 |
| 190 | 30 | 3 | 9501 060/30 | 9501 010/30 | 9501 110/30 |
| 200 | 30 | 3 | 9501 061/30 | 9501 011/30 | 9501 111/30 |
| 210 | 30 | 3 | 9501 062/30 | 9501 012/30 | 9501 112/30 |
| 220 | 30 | 3 | 9501 063/30 | 9501 013/30 | 9501 113/30 |
| 230 | 30 | 3 | 9501 064/30 | 9501 014/30 | 9501 114/30 |
| 240 | 30 | 3 | 9501 065/30 | 9501 015/30 | 9501 115/30 |
| 245 | 30 | 3 | 9501 066/30 | 9501 016/30 | 9501 116/30 |
| 250 | 30 | 3 | 9501 067/30 | 9501 017/30 | 9501 117/30 |
| 260 | 30 | 3 | 9501 085/30 | 9501 035/30 | 9501 135/30 |
| 300 | 30 | 3 | 9501 068/30 | 9501 018/30 | 9501 118/30 |
| 350 | 30 | 3 | 9501 069/30 | 9501 019/30 | 9501 119/30 |
| 400 | 30 | 3 | 9501 070/30 | 9501 020/30 | 9501 120/30 |
| 410 | 30 | 3 | 9501 071/30 | 9501 021/30 | 9501 121/30 |
| 430 | 30 | 3 | 9501 072/30 | 9501 022/30 | 9501 122/30 |
| 500 | 30 | 3 | 9501 073/30 | 9501 023/30 | 9501 123/30 |
| 510 | 30 | 3 | 9501 074/30 | 9501 024/30 | 9501 124/30 |
| 520 | 30 | 3 | 9501 075/30 | 9501 025/30 | 9501 125/30 |
| 530 | 30 | 3 | 9501 076/30 | 9501 026/30 | 9501 126/30 |
| 600 | 30 | 3 | 9501 077/30 | 9501 027/30 | 9501 127/30 |
| 610 | 30 | 3 | 9501 078/30 | 9501 028/30 | 9501 128/30 |
| 630 | 30 | 3 | 9501 079/30 | 9501 029/30 | 9501 129/30 |
| 640 | 30 | 3 | 9501 080/30 | 9501 030/30 | 9501 130/30 |
| 700 | 30 | 3 | 9501 139/30 | 9501 136/30 | 9501 142/30 |
| 710 | 30 | 3 | 9501 081/30 | 9501 031/30 | 9501 131/30 |
| 800 | 30 | 3 | 9501 140/30 | 9501 137/30 | 9501 143/30 |
| 810 | 30 | 3 | 9501 082/30 | 9501 032/30 | 9501 132/30 |
| 1080 | 30 | 3 | 9501 083/30 | 9501 033/30 | 9501 133/30 |

9501



9501



Coltelli pialla spessore 3mm.
Plating knives with thickness of 3mm.
 Couteaux pour rabots avec epaisseur de 3mm.
Strefenhobelmesser 3mm.
 Cuchillas para cepillar 3mm.

Altezza 35mm
 Height 35 mm

| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|------|----|---|--------------------|--------------------|--------------------|
| | | | ID nr. | ID nr. | ID nr. |
| 60 | 35 | 3 | 9501 084/35 | 9501 034/35 | 9501 134/35 |
| 80 | 35 | 3 | 9501 051/35 | 9501 001/35 | 9501 101/35 |
| 100 | 35 | 3 | 9501 052/35 | 9501 002/35 | 9501 102/35 |
| 120 | 35 | 3 | 9501 053/35 | 9501 003/35 | 9501 103/35 |
| 130 | 35 | 3 | 9501 054/35 | 9501 004/35 | 9501 104/35 |
| 140 | 35 | 3 | 9501 055/35 | 9501 005/35 | 9501 105/35 |
| 150 | 35 | 3 | 9501 056/35 | 9501 006/35 | 9501 106/35 |
| 160 | 35 | 3 | 9501 057/35 | 9501 007/35 | 9501 107/35 |
| 170 | 35 | 3 | 9501 058/35 | 9501 008/35 | 9501 108/35 |
| 180 | 35 | 3 | 9501 059/35 | 9501 009/35 | 9501 109/35 |
| 190 | 35 | 3 | 9501 060/35 | 9501 010/35 | 9501 110/35 |
| 200 | 35 | 3 | 9501 061/35 | 9501 011/35 | 9501 111/35 |
| 210 | 35 | 3 | 9501 062/35 | 9501 012/35 | 9501 112/35 |
| 220 | 35 | 3 | 9501 063/35 | 9501 013/35 | 9501 113/35 |
| 230 | 35 | 3 | 9501 064/35 | 9501 014/35 | 9501 114/35 |
| 240 | 35 | 3 | 9501 065/35 | 9501 015/35 | 9501 115/35 |
| 245 | 35 | 3 | 9501 066/35 | 9501 016/35 | 9501 116/35 |
| 250 | 35 | 3 | 9501 067/35 | 9501 017/35 | 9501 117/35 |
| 260 | 35 | 3 | 9501 085/35 | 9501 035/35 | 9501 135/35 |
| 300 | 35 | 3 | 9501 068/35 | 9501 018/35 | 9501 118/35 |
| 350 | 35 | 3 | 9501 069/35 | 9501 019/35 | 9501 119/35 |
| 400 | 35 | 3 | 9501 070/35 | 9501 020/35 | 9501 120/35 |
| 410 | 35 | 3 | 9501 071/35 | 9501 021/35 | 9501 121/35 |
| 430 | 35 | 3 | 9501 072/35 | 9501 022/35 | 9501 122/35 |
| 500 | 35 | 3 | 9501 073/35 | 9501 023/35 | 9501 123/35 |
| 510 | 35 | 3 | 9501 074/35 | 9501 024/35 | 9501 124/35 |
| 520 | 35 | 3 | 9501 075/35 | 9501 025/35 | 9501 125/35 |
| 530 | 35 | 3 | 9501 076/35 | 9501 026/35 | 9501 126/35 |
| 600 | 35 | 3 | 9501 077/35 | 9501 027/35 | 9501 127/35 |
| 610 | 35 | 3 | 9501 078/35 | 9501 028/35 | 9501 128/35 |
| 630 | 35 | 3 | 9501 079/35 | 9501 029/35 | 9501 129/35 |
| 640 | 35 | 3 | 9501 080/35 | 9501 030/35 | 9501 130/35 |
| 700 | 35 | 3 | 9501 139/35 | 9501 136/35 | 9501 142/35 |
| 710 | 35 | 3 | 9501 081/35 | 9501 031/35 | 9501 131/35 |
| 800 | 35 | 3 | 9501 140/35 | 9501 137/35 | 9501 143/35 |
| 810 | 35 | 3 | 9501 082/35 | 9501 032/35 | 9501 132/35 |
| 1080 | 35 | 3 | 9501 083/35 | 9501 033/35 | 9501 133/35 |
| | | | | | |
| | | | | | |

Coltelli rigati da sagomare in HSS.

Knives to profile in HSS.

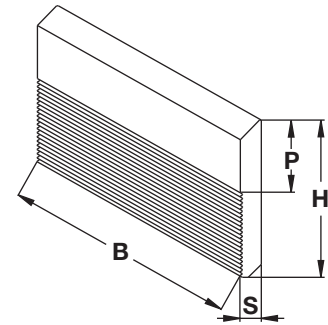
Couteaux à profiler en HSS.

Messern zu profilieren in HSS.

Cuchillas currugadas en HSS por perfilar.

9502

| B | H | P | S | ID nr. |
|-----|----|----|---|-----------------|
| 40 | 50 | 18 | 8 | 9502 001 |
| 50 | 50 | 18 | 8 | 9502 002 |
| 60 | 50 | 18 | 8 | 9502 003 |
| 80 | 50 | 18 | 8 | 9502 004 |
| 100 | 50 | 18 | 8 | 9502 005 |
| 130 | 50 | 18 | 8 | 9502 006 |
| 150 | 50 | 18 | 8 | 9502 007 |
| 180 | 50 | 18 | 8 | 9502 008 |
| 230 | 50 | 18 | 8 | 9502 009 |
| 650 | 50 | 18 | 8 | 9502 010 |
| 40 | 60 | 28 | 8 | 9502 011 |
| 50 | 60 | 28 | 8 | 9502 012 |
| 60 | 60 | 28 | 8 | 9502 013 |
| 80 | 60 | 28 | 8 | 9502 014 |
| 100 | 60 | 28 | 8 | 9502 015 |
| 130 | 60 | 28 | 8 | 9502 016 |
| 150 | 60 | 28 | 8 | 9502 017 |
| 180 | 60 | 28 | 8 | 9502 018 |
| 230 | 60 | 28 | 8 | 9502 019 |
| 650 | 60 | 28 | 8 | 9502 020 |
| 40 | 70 | 38 | 8 | 9502 021 |
| 50 | 70 | 38 | 8 | 9502 022 |
| 60 | 70 | 38 | 8 | 9502 023 |
| 80 | 70 | 38 | 8 | 9502 024 |
| 100 | 70 | 38 | 8 | 9502 025 |
| 130 | 70 | 38 | 8 | 9502 026 |
| 150 | 70 | 38 | 8 | 9502 027 |
| 180 | 70 | 38 | 8 | 9502 028 |
| 230 | 70 | 38 | 8 | 9502 029 |
| 650 | 70 | 38 | 8 | 9502 030 |



9502a

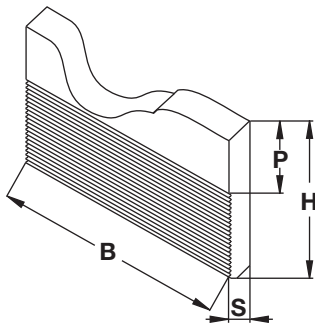
Coltelli rigati sagomati in HSS.

Profiled knives in HSS.

Couteaux profilés en HSS.

Profilierten Messern in HSS.

Cuchillas corrugadas perfiladas en HSS.



| B | H | P | S | ID nr. |
|-----|----|----|---|-----------------|
| 40 | 50 | 18 | 8 | 9502 301 |
| 50 | 50 | 18 | 8 | 9502 302 |
| 60 | 50 | 18 | 8 | 9502 303 |
| 80 | 50 | 18 | 8 | 9502 304 |
| 100 | 50 | 18 | 8 | 9502 305 |
| 130 | 50 | 18 | 8 | 9502 306 |
| 150 | 50 | 18 | 8 | 9502 307 |
| 180 | 50 | 18 | 8 | 9502 308 |
| 230 | 50 | 18 | 8 | 9502 309 |
| 40 | 60 | 28 | 8 | 9502 310 |
| 50 | 60 | 28 | 8 | 9502 311 |
| 60 | 60 | 28 | 8 | 9502 312 |
| 80 | 60 | 28 | 8 | 9502 313 |
| 100 | 60 | 28 | 8 | 9502 314 |
| 130 | 60 | 28 | 8 | 9502 315 |
| 150 | 60 | 28 | 8 | 9502 316 |
| 180 | 60 | 28 | 8 | 9502 317 |
| 230 | 60 | 28 | 8 | 9502 318 |
| 40 | 70 | 38 | 8 | 9502 319 |
| 50 | 70 | 38 | 8 | 9502 320 |
| 60 | 70 | 38 | 8 | 9502 321 |
| 80 | 70 | 38 | 8 | 9502 322 |
| 100 | 70 | 38 | 8 | 9502 323 |
| 130 | 70 | 38 | 8 | 9502 324 |
| 150 | 70 | 38 | 8 | 9502 325 |
| 180 | 70 | 38 | 8 | 9502 326 |
| 230 | 70 | 38 | 8 | 9502 327 |

Coltelli pialla per sistema "Tersa".

System "Tersa" Planer knives.

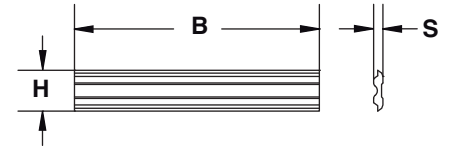
Systemhobelmesser "Tersa".

Couteaux à raboter pour système "Tersa".

Cuchillas para cepillar para sistema "Tersa".

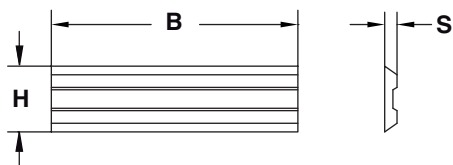
9577

| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|------|----|-----|--------------|-------------|---------|
| | | | ID nr. | ID nr. | ID nr. |
| 60 | 10 | 2,3 | 9577001 | 9577101 | 9577201 |
| 75 | 10 | 2,3 | 9577002 | 9577102 | 9577202 |
| 80 | 10 | 2,3 | 9577003 | 9577103 | 9577203 |
| 90 | 10 | 2,3 | 9577004 | 9577104 | 9577204 |
| 95 | 10 | 2,3 | 9577005 | 9577105 | 9577205 |
| 100 | 10 | 2,3 | 9577006 | 9577106 | 9577206 |
| 110 | 10 | 2,3 | 9577007 | 9577107 | 9577207 |
| 115 | 10 | 2,3 | 9577008 | 9577108 | 9577208 |
| 120 | 10 | 2,3 | 9577009 | 9577109 | 9577209 |
| 125 | 10 | 2,3 | 9577010 | 9577110 | 9577210 |
| 130 | 10 | 2,3 | 9577011 | 9577111 | 9577211 |
| 135 | 10 | 2,3 | 9577012 | 9577112 | 9577212 |
| 140 | 10 | 2,3 | 9577013 | 9577113 | 9577213 |
| 145 | 10 | 2,3 | 9577014 | 9577114 | 9577214 |
| 150 | 10 | 2,3 | 9577015 | 9577115 | 9577215 |
| 160 | 10 | 2,3 | 9577016 | 9577116 | 9577216 |
| 170 | 10 | 2,3 | 9577017 | 9577117 | 9577217 |
| 180 | 10 | 2,3 | 9577018 | 9577118 | 9577218 |
| 185 | 10 | 2,3 | 9577019 | 9577119 | 9577219 |
| 190 | 10 | 2,3 | 9577020 | 9577120 | 9577220 |
| 200 | 10 | 2,3 | 9577021 | 9577121 | 9577221 |
| 210 | 10 | 2,3 | 9577022 | 9577122 | 9577222 |
| 220 | 10 | 2,3 | 9577023 | 9577123 | 9577223 |
| 230 | 10 | 2,3 | 9577024 | 9577124 | 9577224 |
| 235 | 10 | 2,3 | 9577025 | 9577125 | 9577225 |
| 240 | 10 | 2,3 | 9577026 | 9577126 | 9577226 |
| 250 | 10 | 2,3 | 9577027 | 9577127 | 9577227 |
| 260 | 10 | 2,3 | 9577028 | 9577128 | 9577228 |
| 265 | 10 | 2,3 | 9577029 | 9577129 | 9577229 |
| 270 | 10 | 2,3 | 9577030 | 9577130 | 9577230 |
| 280 | 10 | 2,3 | 9577031 | 9577131 | 9577231 |
| 300 | 10 | 2,3 | 9577032 | 9577132 | 9577232 |
| 310 | 10 | 2,3 | 9577033 | 9577133 | 9577233 |
| 320 | 10 | 2,3 | 9577034 | 9577134 | 9577234 |
| 330 | 10 | 2,3 | 9577035 | 9577135 | 9577235 |
| 350 | 10 | 2,3 | 9577036 | 9577136 | 9577236 |
| 360 | 10 | 2,3 | 9577037 | 9577137 | 9577237 |
| 400 | 10 | 2,3 | 9577038 | 9577138 | 9577238 |
| 410 | 10 | 2,3 | 9577039 | 9577139 | 9577239 |
| 415 | 10 | 2,3 | 9577040 | 9577140 | 9577240 |
| 420 | 10 | 2,3 | 9577041 | 9577141 | 9577241 |
| 430 | 10 | 2,3 | 9577042 | 9577142 | 9577242 |
| 450 | 10 | 2,3 | 9577043 | 9577143 | 9577243 |
| 500 | 10 | 2,3 | 9577044 | 9577144 | 9577244 |
| 510 | 10 | 2,3 | 9577045 | 9577145 | 9577245 |
| 520 | 10 | 2,3 | 9577046 | 9577146 | 9577246 |
| 530 | 10 | 2,3 | 9577047 | 9577147 | 9577247 |
| 540 | 10 | 2,3 | 9577048 | 9577148 | 9577248 |
| 600 | 10 | 2,3 | 9577049 | 9577149 | 9577249 |
| 610 | 10 | 2,3 | 9577050 | 9577150 | 9577250 |
| 630 | 10 | 2,3 | 9577051 | 9577151 | 9577251 |
| 635 | 10 | 2,3 | 9577052 | 9577152 | 9577252 |
| 640 | 10 | 2,3 | 9577053 | 9577153 | 9577253 |
| 650 | 10 | 2,3 | 9577054 | 9577154 | 9577254 |
| 710 | 10 | 2,3 | 9577055 | 9577155 | 9577255 |
| 810 | 10 | 2,3 | 9577056 | 9577156 | 9577256 |
| 1050 | 10 | 2,3 | 9577057 | 9577157 | 9577257 |



9578

Coltelli pialla per sistema "Centrolock".
System "Centrolock" Planer knives.
Systemhobelmesser "Centrolock".
Couteaux à raboter pour système "Centrolock".
Cuchillas para cepillar para sistema "Centrolock".



| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|------|----|---|-----------------|-----------------|-----------------|
| | | | ID nr. | ID nr. | ID nr. |
| 10 | 16 | 3 | 9578 001 | 9578 101 | 9578 201 |
| 20 | 16 | 3 | 9578 002 | 9578 102 | 9578 202 |
| 30 | 16 | 3 | 9578 003 | 9578 103 | 9578 203 |
| 40 | 16 | 3 | 9578 004 | 9578 104 | 9578 204 |
| 50 | 16 | 3 | 9578 005 | 9578 105 | 9578 205 |
| 60 | 16 | 3 | 9578 006 | 9578 106 | 9578 206 |
| 65 | 16 | 3 | 9578 007 | 9578 107 | 9578 207 |
| 80 | 16 | 3 | 9578 008 | 9578 108 | 9578 208 |
| 100 | 16 | 3 | 9578 009 | 9578 109 | 9578 209 |
| 115 | 16 | 3 | 9578 010 | 9578 110 | 9578 210 |
| 130 | 16 | 3 | 9578 011 | 9578 111 | 9578 211 |
| 140 | 16 | 3 | 9578 012 | 9578 112 | 9578 212 |
| 150 | 16 | 3 | 9578 013 | 9578 113 | 9578 213 |
| 160 | 16 | 3 | 9578 014 | 9578 114 | 9578 214 |
| 170 | 16 | 3 | 9578 015 | 9578 115 | 9578 215 |
| 180 | 16 | 3 | 9578 016 | 9578 116 | 9578 216 |
| 190 | 16 | 3 | 9578 017 | 9578 117 | 9578 217 |
| 210 | 16 | 3 | 9578 018 | 9578 118 | 9578 218 |
| 220 | 16 | 3 | 9578 019 | 9578 119 | 9578 219 |
| 230 | 16 | 3 | 9578 020 | 9578 120 | 9578 220 |
| 235 | 16 | 3 | 9578 021 | 9578 121 | 9578 221 |
| 240 | 16 | 3 | 9578 022 | 9578 122 | 9578 222 |
| 260 | 16 | 3 | 9578 023 | 9578 123 | 9578 223 |
| 270 | 16 | 3 | 9578 024 | 9578 124 | 9578 224 |
| 300 | 16 | 3 | 9578 025 | 9578 125 | 9578 225 |
| 310 | 16 | 3 | 9578 026 | 9578 126 | 9578 226 |
| 460 | 16 | 3 | 9578 027 | 9578 127 | 9578 227 |
| 650 | 16 | 3 | 9578 028 | 9578 128 | 9578 228 |
| 710 | 16 | 3 | 9578 029 | 9578 129 | 9578 229 |
| 810 | 16 | 3 | 9578 030 | 9578 130 | 9578 230 |
| 1050 | 16 | 3 | 9578 031 | 9578 131 | 9578 231 |

Coltelli pialla per sistema "Terminus".

System "Terminus" Planer knives.

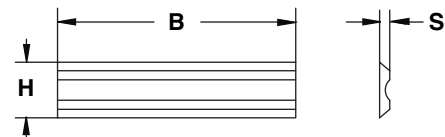
Systemhobelmesser "Terminus".

Couteaux à raboter pour système "Terminus".

Cuchillas para cepillar para sistema "Terminus".

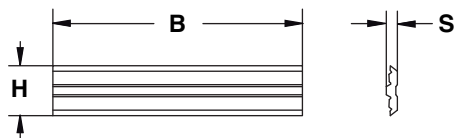
9579

| B | H | S | HSS (13% Cr) | HSS (18% W) | HM |
|-----|----|------|-----------------|-----------------|-----------------|
| | | | ID nr. | ID nr. | ID nr. |
| 50 | 14 | 2,55 | 9579 001 | 9579 101 | 9579 201 |
| 60 | 14 | 2,55 | 9579 002 | 9579 102 | 9579 202 |
| 80 | 14 | 2,55 | 9579 003 | 9579 103 | 9579 203 |
| 100 | 14 | 2,55 | 9579 004 | 9579 104 | 9579 204 |
| 110 | 14 | 2,55 | 9579 005 | 9579 105 | 9579 205 |
| 120 | 14 | 2,55 | 9579 006 | 9579 106 | 9579 206 |
| 130 | 14 | 2,55 | 9579 007 | 9579 107 | 9579 207 |
| 136 | 14 | 2,55 | 9579 008 | 9579 108 | 9579 208 |
| 140 | 14 | 2,55 | 9579 009 | 9579 109 | 9579 209 |
| 150 | 14 | 2,55 | 9579 010 | 9579 110 | 9579 210 |
| 160 | 14 | 2,55 | 9579 011 | 9579 111 | 9579 211 |
| 170 | 14 | 2,55 | 9579 012 | 9579 112 | 9579 212 |
| 180 | 14 | 2,55 | 9579 013 | 9579 113 | 9579 213 |
| 190 | 14 | 2,55 | 9579 014 | 9579 114 | 9579 214 |
| 200 | 14 | 2,55 | 9579 015 | 9579 115 | 9579 215 |
| 210 | 14 | 2,55 | 9579 016 | 9579 116 | 9579 216 |
| 220 | 14 | 2,55 | 9579 017 | 9579 117 | 9579 217 |
| 230 | 14 | 2,55 | 9579 018 | 9579 118 | 9579 218 |
| 240 | 14 | 2,55 | 9579 019 | 9579 119 | 9579 219 |
| 250 | 14 | 2,55 | 9579 020 | 9579 120 | 9579 220 |
| 255 | 14 | 2,55 | 9579 021 | 9579 121 | 9579 221 |
| 260 | 14 | 2,55 | 9579 022 | 9579 122 | 9579 222 |
| 270 | 14 | 2,55 | 9579 023 | 9579 123 | 9579 223 |
| 275 | 14 | 2,55 | 9579 024 | 9579 124 | 9579 224 |
| 280 | 14 | 2,55 | 9579 025 | 9579 125 | 9579 225 |



9580

Coltelli pialla per sistema "Centrofix/Centrostar/Quickfix".
System "Centrofix/Centrostar/Quickfix" Planer knives .
Systemhobelmesser "Centrofix/Centrostar/Quickfix".
Couteaux à raboter pour système "Centrofix/Centrostar/Quickfix".
Cuchillas para cepillar para sistema "Centrofix/Centrostar/Quickfix".



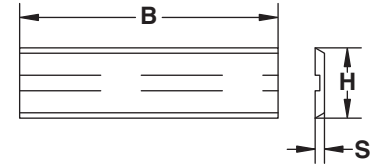
HSS (13% Cr) HSS (18% W) HM

| B | H | S | ID nr. | ID nr. | ID nr. |
|------|----|-----|-----------------|-----------------|-----------------|
| 50 | 12 | 2,7 | 9580 001 | 9580 101 | 9580 201 |
| 80 | 12 | 2,7 | 9580 002 | 9580 102 | 9580 202 |
| 100 | 12 | 2,7 | 9580 003 | 9580 103 | 9580 203 |
| 120 | 12 | 2,7 | 9580 004 | 9580 104 | 9580 204 |
| 130 | 12 | 2,7 | 9580 005 | 9580 105 | 9580 205 |
| 136 | 12 | 2,7 | 9580 006 | 9580 106 | 9580 206 |
| 150 | 12 | 2,7 | 9580 007 | 9580 107 | 9580 207 |
| 170 | 12 | 2,7 | 9580 008 | 9580 108 | 9580 208 |
| 180 | 12 | 2,7 | 9580 009 | 9580 109 | 9580 209 |
| 190 | 12 | 2,7 | 9580 010 | 9580 110 | 9580 210 |
| 210 | 12 | 2,7 | 9580 011 | 9580 111 | 9580 211 |
| 230 | 12 | 2,7 | 9580 012 | 9580 112 | 9580 212 |
| 240 | 12 | 2,7 | 9580 013 | 9580 113 | 9580 213 |
| 310 | 12 | 2,7 | 9580 014 | 9580 114 | 9580 214 |
| 400 | 12 | 2,7 | 9580 015 | 9580 115 | 9580 215 |
| 410 | 12 | 2,7 | 9580 016 | 9580 116 | 9580 216 |
| 420 | 12 | 2,7 | 9580 017 | 9580 117 | 9580 217 |
| 430 | 12 | 2,7 | 9580 018 | 9580 118 | 9580 218 |
| 500 | 12 | 2,7 | 9580 019 | 9580 119 | 9580 219 |
| 510 | 12 | 2,7 | 9580 020 | 9580 120 | 9580 220 |
| 520 | 12 | 2,7 | 9580 021 | 9580 121 | 9580 221 |
| 530 | 12 | 2,7 | 9580 022 | 9580 122 | 9580 222 |
| 540 | 12 | 2,7 | 9580 023 | 9580 123 | 9580 223 |
| 630 | 12 | 2,7 | 9580 024 | 9580 124 | 9580 224 |
| 640 | 12 | 2,7 | 9580 025 | 9580 125 | 9580 225 |
| 650 | 12 | 2,7 | 9580 026 | 9580 126 | 9580 226 |
| 710 | 12 | 2,7 | 9580 027 | 9580 127 | 9580 227 |
| 810 | 12 | 2,7 | 9580 028 | 9580 128 | 9580 228 |
| 1050 | 12 | 2,7 | 9580 029 | 9580 129 | 9580 229 |

Coltelli in HM integrale per sistema Bulldozer di ricambio per art. 2074.
Knives in HM integral for Bulldozer system for art. 2074.
 Couteaux en HM intégral pour le système Bulldozer pour art. 2074.
Messern aus HM integral für Bulldozer System für art. 2074.
 Cuchillas en HM macizo para el sistema Bulldozer como repuestos del art. 2074.

9565

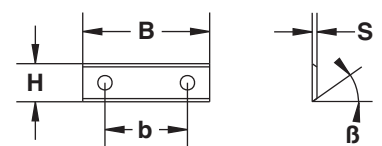
| B | H | S | ID nr. |
|-----|------|-----|-----------------|
| 60 | 13,6 | 1,8 | 9565 008 |
| 70 | 13,6 | 1,8 | 9565 009 |
| 80 | 13,6 | 1,8 | 9565 001 |
| 100 | 13,6 | 1,8 | 9565 002 |
| 110 | 13,6 | 1,8 | 9565 010 |
| 120 | 13,6 | 1,8 | 9565 003 |
| 130 | 13,6 | 1,8 | 9565 011 |
| 140 | 13,6 | 1,8 | 9565 012 |
| 150 | 13,6 | 1,8 | 9565 013 |
| 160 | 13,6 | 1,8 | 9565 014 |
| 180 | 13,6 | 1,8 | 9565 015 |
| 184 | 13,6 | 1,8 | 9565 004 |
| 190 | 13,6 | 1,8 | 9565 016 |
| 200 | 13,6 | 1,8 | 9565 017 |
| 220 | 13,6 | 1,8 | 9565 005 |
| 230 | 13,6 | 1,8 | 9565 006 |
| 240 | 13,6 | 1,8 | 9565 018 |
| 250 | 13,6 | 1,8 | 9565 007 |
| 260 | 13,6 | 1,8 | 9565 019 |



Coltellini a gettare in HM integrale.
Reversible HM integral knives.
 Couteaux reversibles en HM intégral.
Messe zu HM integral Werfen.
 Cuchillas de usar y tirar en HM macizo.

9503

| B | H | S | b | β | ID nr. |
|------|----|-----|----|-----|-----------------|
| 7,65 | 12 | 1,5 | - | 35° | 9503 001 |
| 9,65 | 12 | 1,5 | - | 35° | 9503 002 |
| 12 | 12 | 1,5 | - | 35° | 9503 003 |
| 15 | 12 | 1,5 | - | 35° | 9503 004 |
| 20 | 12 | 1,5 | - | 35° | 9503 005 |
| 30 | 12 | 1,5 | 14 | 35° | 9503 006 |
| 40 | 12 | 1,5 | 26 | 35° | 9503 007 |
| 50 | 12 | 1,5 | 26 | 35° | 9503 008 |
| 60 | 12 | 1,5 | 26 | 35° | 9503 009 |
| 80 | 13 | 2,2 | 60 | 35° | 9503 010 |
| 100 | 13 | 2,2 | 60 | 35° | 9503 011 |
| 120 | 13 | 2,2 | 60 | 35° | 9503 012 |



9504

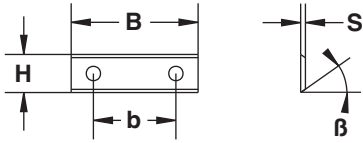
Coltellini a gettare in HM integrale con spoglia a 45°.

Reversible HM integral knives with rake of 45°.

Couteaux reversibles en HM intégral avec depouille à 45°.

Messe zu HM integral Werfen mit Balg 45°.

Cuchillas de usar y tirar en HM macizo con corte inclinado a 45°.



| B | H | S | b | β | ID nr. |
|------|----|-----|----|-----|-----------------|
| 7,65 | 12 | 1,5 | - | 45° | 9504 001 |
| 12 | 12 | 1,5 | - | 45° | 9504 002 |
| 15 | 12 | 1,5 | - | 45° | 9504 003 |
| 20 | 12 | 1,5 | - | 45° | 9504 004 |
| 30 | 12 | 1,5 | 14 | 45° | 9504 005 |
| 40 | 12 | 1,5 | 26 | 45° | 9504 006 |
| 50 | 12 | 1,5 | 26 | 45° | 9504 007 |
| 60 | 12 | 1,5 | 26 | 45° | 9504 008 |

9505

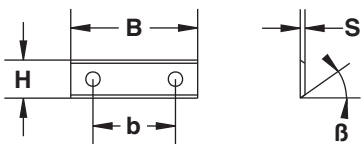
Coltellini a gettare in HM integrale KCR08.

Reversible HM integral knives KCR08.

Couteaux reversibles en HM intégral KCR08.

Messe zu HM integral Werfen KCR08.

Cuchillas de usar y tirar en HM macizo KCR08.

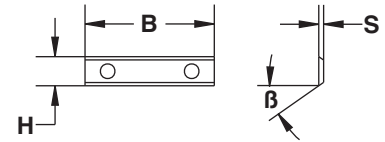


| B | H | S | b | β | ID nr. |
|----|----|-----|----|-----|-----------------|
| 20 | 12 | 1,5 | - | 35° | 9505 001 |
| 30 | 12 | 1,5 | 14 | 35° | 9505 002 |
| 50 | 12 | 1,5 | 26 | 35° | 9505 003 |

Coltellini a gettare in HM integrale altezza 9mm.
Reversible HM integral knives with height of 9mm.
 Couteaux reversibles en HM intégral avec hauteur de 9mm.
Messe zu HM integral Werfen mit Höhe 9mm.
 Cuchillas de usar y tirar en HM macizo altas 9mm.

9506

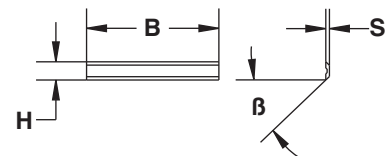
| B | H | S | β | ID nr. |
|------|---|-----|---------|-----------------|
| 7,5 | 9 | 1,5 | 35° | 9506 001 |
| 9,6 | 9 | 1,5 | 35° | 9506 002 |
| 12 | 9 | 1,5 | 35° | 9506 003 |
| 14,6 | 9 | 1,5 | 35° | 9506 004 |
| 20 | 9 | 1,5 | 35° | 9506 005 |
| 30 | 9 | 1,5 | 35° | 9506 006 |
| 40 | 9 | 1,5 | 35° | 9506 007 |
| 50 | 9 | 1,5 | 35° | 9506 008 |
| 60 | 9 | 1,5 | 35° | 9506 009 |



Mini-coltellini a gettare in HM integrale.
Reversible HM integral mini-knives.
 Mini-couteaux reversibles en HM intégral.
Zeitung Hebelkante zu HM integral.
 Mini cuchillas de usar y tirar en HM macizo.

9507

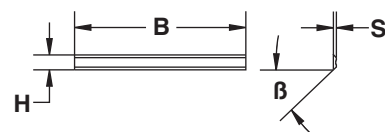
| B | H | S | β | ID nr. |
|----|-----|-----|---------|-----------------|
| 12 | 5,5 | 1,1 | 35° | 9507 001 |
| 20 | 5,5 | 1,1 | 35° | 9507 002 |
| 30 | 5,5 | 1,1 | 35° | 9507 003 |
| 40 | 5,5 | 1,1 | 35° | 9507 004 |
| 50 | 5,5 | 1,1 | 35° | 9507 005 |



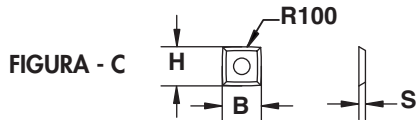
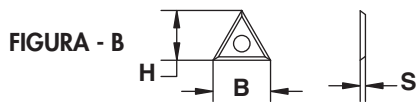
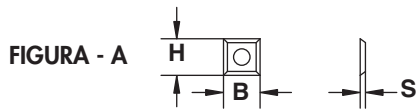
Mini-coltellini a gettare in HM integrale.
Reversible HM integral mini-knives.
 Mini-couteaux reversibles en HM intégral.
Zeitung Hebelkante zu HM integral.
 Mini cuchillas de usar y tirar en HM macizo.

9507a

| B | H | S | β | ID nr. |
|----|-----|-----|---------|-----------------|
| 82 | 5,5 | 1,1 | 35° | 9507 051 |
| | | | | |



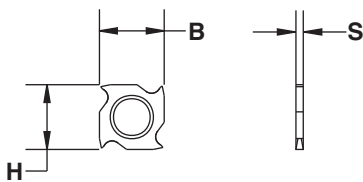
9508



Rasanti in HM integrale.
Reversible HM integral trimmers.
 Rasant en HM intégral.
Vorschneider zu HM integral.
 Cuchillas ralladoras en HM macizo.

| B | H | S | FIGURA | ID nr. |
|----|----|-----|--------|-----------------|
| 14 | 14 | 1,2 | A | 9508 001 |
| 14 | 14 | 2 | A | 9508 002 |
| 22 | 19 | 2 | B | 9508 003 |
| 15 | 15 | 2,5 | C | 9508 011 |

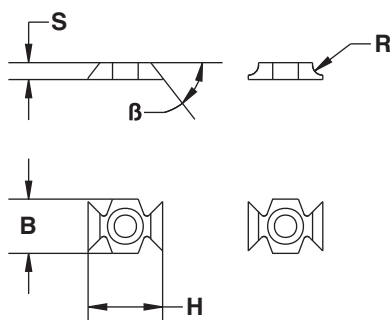
9509



Rosette per teste incastrati in HM integrale.
Reversible HM integral knives for groove cutter heads.
 Couteaux pour têtes encastrement en HM intégral.
Messer für kopf einschnitt zu HM integral.
 Cuchillas ralladoras para ensambles en HM macizo.

| B | H | S | ID nr. |
|----|----|------|-----------------|
| 18 | 18 | 1,95 | 9509 001 |
| 18 | 18 | 2,95 | 9509 002 |

9510



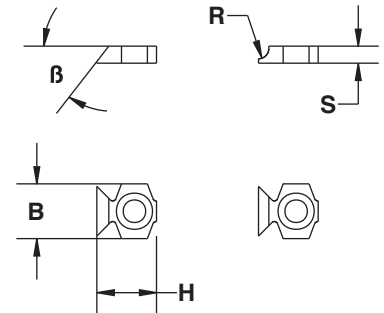
Inserti levaspiglioli in HM integrale.
All-HM integral beveller inserts.
 Insertions leve-angles en HM intégral.
Zeitung Hebelkante zu HM integral.
 Chaflanadores en HM macizo.

| B | H | S | B | RAGGIO | ID nr. |
|----|----|---|-----|--------|-----------------|
| 16 | 22 | 5 | 45° | - | 9510 001 |
| 16 | 22 | 5 | - | R1,5 | 9510 002 |
| 16 | 22 | 5 | - | R2 | 9510 003 |
| 16 | 22 | 5 | - | R3 | 9510 004 |
| 16 | 22 | 5 | - | R4 | 9510 005 |
| 16 | 22 | 5 | - | R5 | 9510 006 |

Inserti levaspigoli in HM integrale tagliati.
All-HM integral beveller inserts.
 Insertions leve-angles en HM intégral.
Zeitung Hebelkante zu HM integral.
 Chafflanadores en HM macizo cortados.

| B | H | S | RAGGIO | ID nr. |
|----|------|---|--------|-----------------|
| 16 | 16,5 | 5 | 45° | 9511 001 |
| 16 | 16,5 | 5 | - | 9511 002 |
| 16 | 16,5 | 5 | - | 9511 003 |
| 16 | 16,5 | 5 | - | 9511 004 |
| 16 | 16,5 | 5 | - | 9511 005 |
| 16 | 16,5 | 5 | - | 9511 006 |

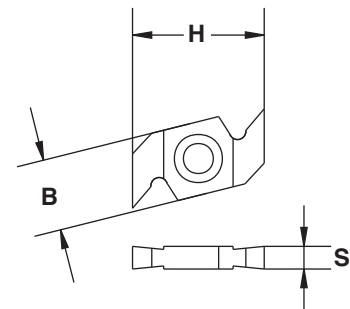
9511



Inserti per canali in HM integrale.
Inserts in HM integral for gasket groove.
 Insertion en HM intégral pour rainure joint.
Zeitung zu HM integral für Rohr besatz.
 Cuchillas para ranuras en HM macizo.

| BxHxS | ID nr. |
|---------|-----------------|
| 16x29x4 | 9512 001 |
| 16x29x5 | 9512 002 |
| 16x29x6 | 9512 003 |

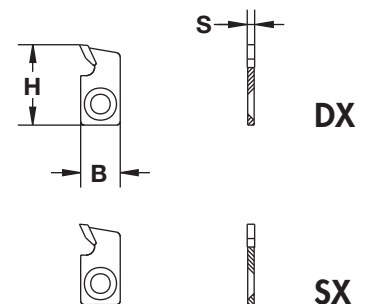
9512



Inserti per canali saldobrasati in HM integrale.
All-HM integral inserts.
 Outils en HM intégral.
Zeitung zu HM integral.
 Cuchillas para ranuras con dientes soldados en HM macizo.

| B | ID nr. | ID nr. |
|-----------|-----------------|-----------------|
| 16x32,5x3 | 9513 051 | 9513 052 |
| 16x32,5x4 | 9513 053 | 9513 054 |
| 16x32,5x5 | 9513 055 | 9513 056 |
| 16x32,5x6 | 9513 057 | 9513 058 |
| 16x32,5x7 | 9513 059 | 9513 060 |

9513



9514

Coltellini a gettare con taglio in testa in HM integrale.

Reversible HM integral knives.

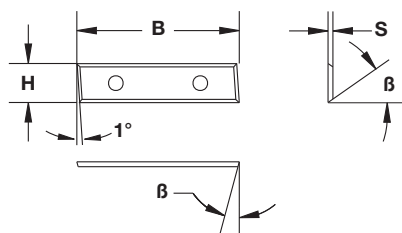
Couteaux reversibles en HM intégral.

Messe zu HM integral Werfen.

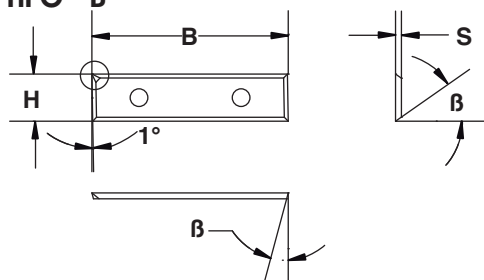
Cuchillas de usar y tirar con los cuatro lados cortantes en HM macizo.

COLTELLI CON TAGLIO LATERALE INCLINATO 1°.
KNIVES WITH INCLINED AT 1° LATERAL CUTTING.

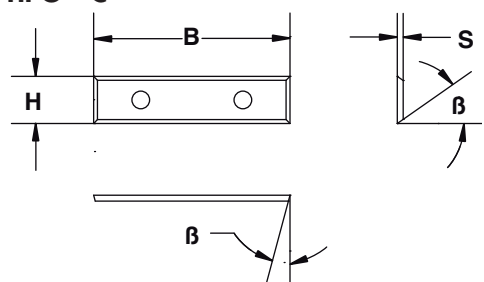
TIPO - A



TIPO - B



TIPO - C



COLTELLI CON TAGLIO LATERALE INCLINATO 1° E DOPPIO SCARTO SUL DORSO.
KNIVES WITH INCLINED AT 1° LATERAL CUTTING AND DOUBLE BACK GRINDING.
DI RICAMBIO PER ART. 3072 / SPARE KNIVES FOR ART. 3072

| B | H | S | TIPO | B | ID nr. |
|----|----|-----|------|-----|-----------------|
| 30 | 12 | 1,5 | A | 35° | 9514 001 |
| 50 | 12 | 1,5 | | 35° | 9514 002 |
| 30 | 9 | 1,5 | | 35° | 9514 011 |
| 50 | 9 | 1,5 | | 35° | 9514 012 |

COLTELLI RETTANGOLARI CON TAGLIO SU 4 LATI.
RECTANGULAR KNIVES WITH 4 SIDES CUTTING.
DI RICAMBIO PER ART. 3038 / SPARE KNIVES FOR ART. 3038

| B | H | S | TIPO | B | ID nr. |
|----|----|-----|------|-----|-----------------|
| 30 | 12 | 1,5 | C | 35° | 9514 051 |
| 40 | 12 | 1,5 | | 35° | 9514 052 |
| 50 | 12 | 1,5 | | 35° | 9514 053 |

9515

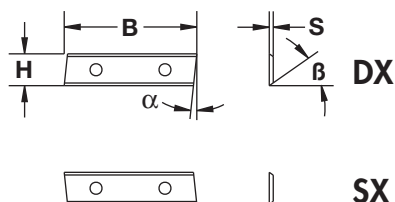
Coltellini a gettare inclinati lateralmente in HM integrale.

Reversible HM integral knives.

Couteaux reversibles en HM intégral.

Messe zu HM integral Werfen.

Cuchillas de usar y tirar con dos lados inclinados en HM macizo.

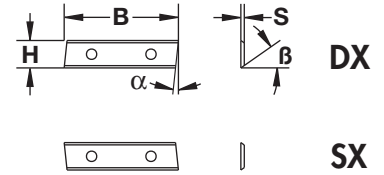


| BxHxS | α | β | ID nr. DX | ID nr. SX |
|-------------|----------|---------|-----------------|-----------------|
| 7,5x12x1,5 | 6° | 35° | 9515 001 | 9515 002 |
| 9,65x12x1,5 | 6° | 35° | 9515 003 | 9515 004 |
| 12x12x1,5 | 6° | 35° | 9515 005 | 9515 006 |
| 15x12x1,5 | 6° | 35° | 9515 007 | 9515 008 |
| 20x12x1,5 | 6° | 35° | 9515 009 | 9515 010 |
| 30x12x1,5 | 6° | 35° | 9515 011 | 9515 012 |
| 40x12x1,5 | 6° | 35° | 9515 013 | 9515 014 |
| 50x12x1,5 | 6° | 35° | 9515 015 | 9515 016 |
| 7,5x12x1,5 | 12° | 35° | 9515 051 | 9515 052 |
| 9,65x12x1,5 | 12° | 35° | 9515 053 | 9515 054 |
| 12x12x1,5 | 12° | 35° | 9515 055 | 9515 056 |
| 15x12x1,5 | 12° | 35° | 9515 057 | 9515 058 |
| 20x12x1,5 | 12° | 35° | 9515 059 | 9515 060 |
| 30x12x1,5 | 12° | 35° | 9515 061 | 9515 062 |
| 40x12x1,5 | 12° | 35° | 9515 063 | 9515 064 |
| 50x12x1,5 | 12° | 35° | 9515 065 | 9515 066 |

Coltellini a gettare in HM integrale inclinati lateralmente con spoglia a 45°.
Reversible HM integral knives with rake of 45°.
 Couteaux reversibles en HM intégral avec depouille à 45°.
Messe zu HM integral Werfen mit Balg 45°.
 Cuchillas de usar y tirar en HM macizo con dos lados inclinados y con radio a 45°

9516

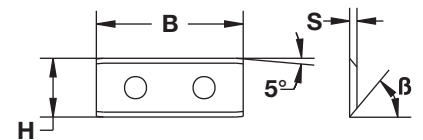
| BxHxS | α | β | ID nr. DX | ID nr. SX |
|------------|----------|---------|-----------------|-----------------|
| 7,5x12x1,5 | 6° | 45° | 9516 001 | 9516 002 |
| 15x12x1,5 | 6° | 45° | 9516 005 | 9516 006 |
| 20x12x1,5 | 6° | 45° | 9516 007 | 9516 008 |
| 30x12x1,5 | 6° | 45° | 9516 009 | 9516 010 |
| 40x12x1,5 | 6° | 45° | 9516 011 | 9516 012 |
| 50x12x1,5 | 6° | 45° | 9516 013 | 9516 014 |
| 7,5x12x1,5 | 12° | 45° | 9516 051 | 9516 052 |
| 15x12x1,5 | 12° | 45° | 9516 055 | 9516 056 |
| 20x12x1,5 | 12° | 45° | 9516 057 | 9516 058 |
| 30x12x1,5 | 12° | 45° | 9516 059 | 9516 060 |
| 40x12x1,5 | 12° | 45° | 9516 061 | 9516 062 |
| 50x12x1,5 | 12° | 45° | 9516 063 | 9516 064 |



Coltellini a gettare in HM integrale affilati a botte.
Reversible HM integral knives bevelled in 4 sides.
 Couteaux reversibles en HM intégral émoussés sur 4 côtés.
Messe zu HM integral stumpf auf 4 Seiten.
 Cuchillas de usar y tirar en HM macizo con corte chafinado.

9517

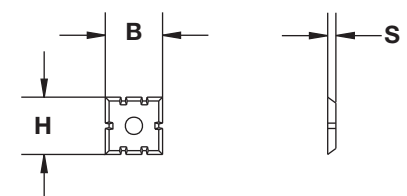
| B | H | S | β | ID nr. |
|----|----|-----|---------|-----------------|
| 30 | 12 | 1,5 | 35° | 9517 001 |
| 40 | 12 | 1,5 | 35° | 9517 002 |
| 30 | 12 | 1,5 | 45° | 9517 051 |



Coltellino in HM integrale con rompitruciolo.
Knife HM integral with chipbreaker.
 Couteau en HM intégral avec brisecoupeau.
Messe zu HM integral mit Spanbrecher.
 Cuchilla en HM macizo con rompevirutas.

9518

| B | H | S | ID nr. |
|----|----|---|-----------------|
| 15 | 15 | 2 | 9518 001 |



9519

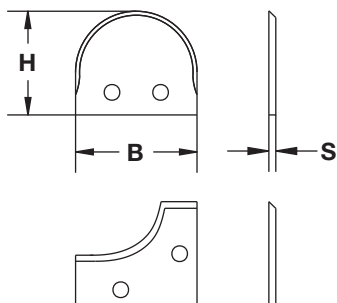
Coltelli sagomati di ricambio in HM integrale.

Profiled spare knives HM integral.

Couteaux profilés de rechange en HM intégral.

Messern mit Profil zu HM integral.

Cuchillas perfiladas utilizadas como repuestos en HM macizo.



| Dimensioni | ID nr. | | | | | |
|------------|---------|-----------|-----------|-----------|-----------|-----------|
| | BxHxS | n°6 pz | n°12 pz | n°24 pz | n°36 pz | n°60 pz |
| 20x20x2 | 9519001 | 9519001/A | 9519001/B | 9519001/C | 9519001/D | 9519001/E |
| 20x25x2 | 9519002 | 9519002/A | 9519002/B | 9519002/C | 9519002/D | 9519002/E |
| 20x30x2 | 9519003 | 9519003/A | 9519003/B | 9519003/C | 9519003/D | 9519003/E |
| 20x35x2 | 9519004 | 9519004/A | 9519004/B | 9519004/C | 9519004/D | 9519004/E |
| 25x20x2 | 9519005 | 9519005/A | 9519005/B | 9519005/C | 9519005/D | 9519005/E |
| 25x25x2 | 9519006 | 9519006/A | 9519006/B | 9519006/C | 9519006/D | 9519006/E |
| 25x30x2 | 9519007 | 9519007/A | 9519007/B | 9519007/C | 9519007/D | 9519007/E |
| 25x35x2 | 9519008 | 9519008/A | 9519008/B | 9519008/C | 9519008/D | 9519008/E |
| 30x20x2 | 9519009 | 9519009/A | 9519009/B | 9519009/C | 9519009/D | 9519009/E |
| 30x25x2 | 9519010 | 9519010/A | 9519010/B | 9519010/C | 9519010/D | 9519010/E |
| 30x30x2* | 9519011 | 9519011/A | 9519011/B | 9519011/C | 9519011/D | 9519011/E |
| 30x35x2 | 9519012 | 9519012/A | 9519012/B | 9519012/C | 9519012/D | 9519012/E |
| 30x40x2 | 9519013 | 9519013/A | 9519013/B | 9519013/C | 9519013/D | 9519013/E |
| 35x25x2 | 9519014 | 9519014/A | 9519014/B | 9519014/C | 9519014/D | 9519014/E |
| 35x30x2* | 9519015 | 9519015/A | 9519015/B | 9519015/C | 9519015/D | 9519015/E |
| 35x35x2* | 9519016 | 9519016/A | 9519016/B | 9519016/C | 9519016/D | 9519016/E |
| 35x40x2 | 9519017 | 9519017/A | 9519017/B | 9519017/C | 9519017/D | 9519017/E |
| 40x20x2 | 9519018 | 9519018/A | 9519018/B | 9519018/C | 9519018/D | 9519018/E |
| 40x25x2 | 9519019 | 9519019/A | 9519019/B | 9519019/C | 9519019/D | 9519019/E |
| 40x30x2* | 9519020 | 9519020/A | 9519020/B | 9519020/C | 9519020/D | 9519020/E |
| 40x35x2* | 9519021 | 9519021/A | 9519021/B | 9519021/C | 9519021/D | 9519021/E |
| 40x40x2* | 9519022 | 9519022/A | 9519022/B | 9519022/C | 9519022/D | 9519022/E |
| 50x25x2 | 9519023 | 9519023/A | 9519023/B | 9519023/C | 9519023/D | 9519023/E |
| 50x30x2 | 9519024 | 9519024/A | 9519024/B | 9519024/C | 9519024/D | 9519024/E |
| 50x35x2 | 9519025 | 9519025/A | 9519025/B | 9519025/C | 9519025/D | 9519025/E |
| 50x40x2 | 9519026 | 9519026/A | 9519026/B | 9519026/C | 9519026/D | 9519026/E |
| 50x45x2 | 9519027 | 9519027/A | 9519027/B | 9519027/C | 9519027/D | 9519027/E |
| 60x30x2 | 9519028 | 9519028/A | 9519028/B | 9519028/C | 9519028/D | 9519028/E |
| 60x35x2 | 9519029 | 9519029/A | 9519029/B | 9519029/C | 9519029/D | 9519029/E |
| 60x40x2 | 9519030 | 9519030/A | 9519030/B | 9519030/C | 9519030/D | 9519030/E |
| 80x30x2 | 9519031 | 9519031/A | 9519031/B | 9519031/C | 9519031/D | 9519031/E |
| 80x35x2 | 9519032 | 9519032/A | 9519032/B | 9519032/C | 9519032/D | 9519032/E |
| 80x40x2 | 9519033 | 9519033/A | 9519033/B | 9519033/C | 9519033/D | 9519033/E |
| 100x30x2 | 9519034 | 9519034/A | 9519034/B | 9519034/C | 9519034/D | 9519034/E |
| 100x35x2 | 9519035 | 9519035/A | 9519035/B | 9519035/C | 9519035/D | 9519035/E |
| 100x40x2 | 9519036 | 9519036/A | 9519036/B | 9519036/C | 9519036/D | 9519036/E |

*Disponibile anche con fori sfalsati

*Also available with staggered holes

Coltelli da sagomare di ricambio in HM integrale.

Spare knives to profile HM integral.

Couteaux à profiler de rechange en HM intégral.

Messern zu profilieren zu HM integral.

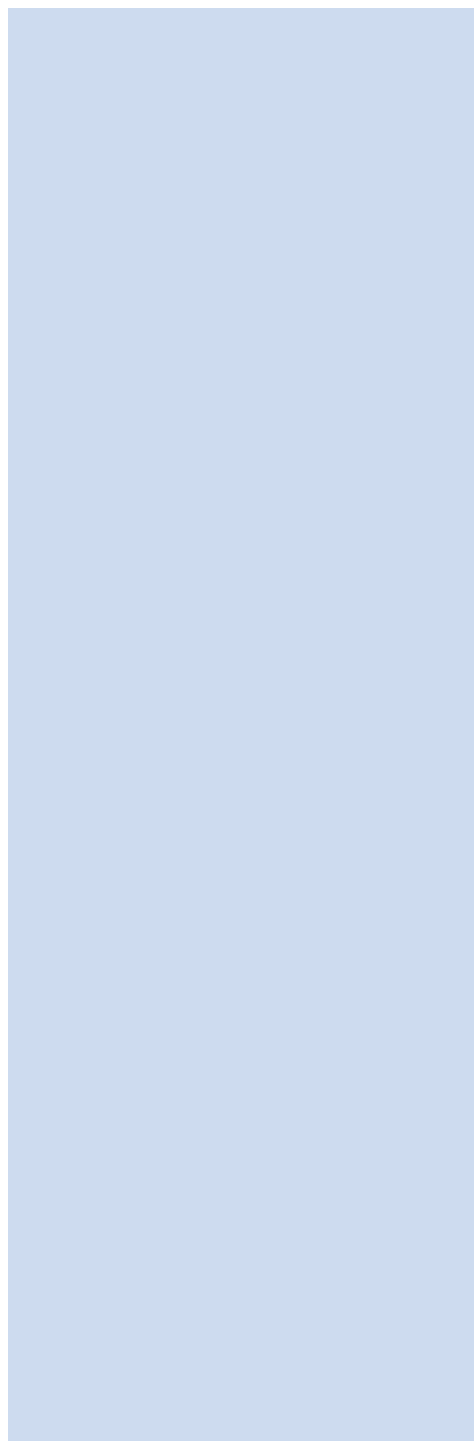
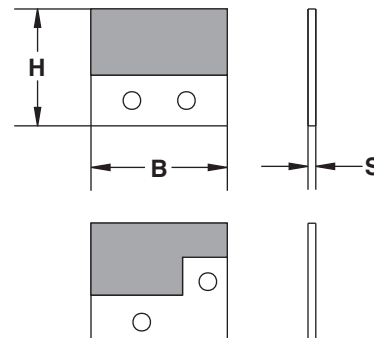
Cuchillas por perfilar utilizadas como repuestos en HM macizo.

| B | ID nr. |
|----------|-----------------|
| BxHxS | n°1 pz |
| 20x20x2 | 9519 101 |
| 20x25x2 | 9519 102 |
| 20x30x2 | 9519 103 |
| 20x35x2 | 9519 104 |
| 25x20x2 | 9519 105 |
| 25x25x2 | 9519 106 |
| 25x30x2 | 9519 107 |
| 25x35x2 | 9519 108 |
| 30x20x2 | 9519 109 |
| 30x25x2 | 9519 110 |
| 30x30x2* | 9519 111 |
| 30x35x2 | 9519 112 |
| 30x40x2 | 9519 113 |
| 35x25x2 | 9519 114 |
| 35x30x2* | 9519 115 |
| 35x35x2* | 9519 116 |
| 35x40x2 | 9519 117 |
| 40x20x2 | 9519 118 |
| 40x25x2 | 9519 119 |
| 40x30x2* | 9519 120 |
| 40x35x2* | 9519 121 |
| 40x40x2* | 9519 122 |
| 50x25x2 | 9519 123 |
| 50x30x2 | 9519 124 |
| 50x35x2 | 9519 125 |
| 50x40x2 | 9519 126 |
| 50x45x2 | 9519 127 |
| 60x30x2 | 9519 128 |
| 60x35x2 | 9519 129 |
| 60x40x2 | 9519 130 |
| 80x30x2 | 9519 131 |
| 80x35x2 | 9519 132 |
| 80x40x2 | 9519 133 |

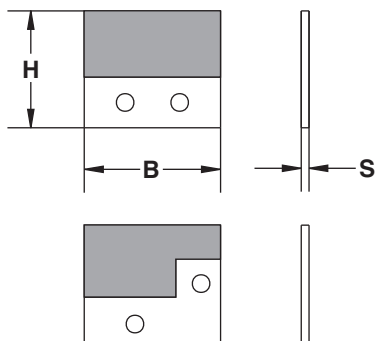
*Disponibile anche con fori sfalsati

*Also available with staggered holes

9519a



9519b



Controcoltelli da sagomare di ricambio in HM integrale.

Spare back-knives to profile HM integral.

Derrière-couteaux à profiler de rechange en HM intégral.

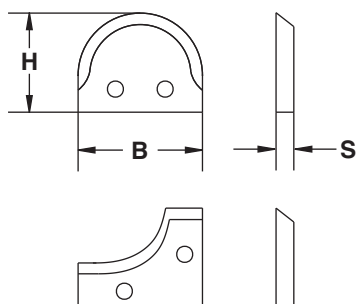
Gegen-Messern zu profilieren zu HM integral.

Contracuchillas por perfilar utilizadas como repuestos en HM macizo.

| Dimensioni | ID nr. |
|------------|-----------------|
| BxHxS | n°1 pz |
| 30x28x5 | 9519 201 |
| 30x33x5 | 9519 202 |
| 30x38x5 | 9519 203 |
| 35x28x5 | 9519 213 |
| 35x33x5 | 9519 214 |
| 35x38x5 | 9519 215 |
| 40x28x5 | 9519 204 |
| 40x33x5 | 9519 205 |
| 40x38x5 | 9519 206 |
| 60x28x5 | 9519 207 |
| 60x33x5 | 9519 208 |
| 60x38x5 | 9519 209 |
| 80x28x5 | 9519 210 |
| 80x33x5 | 9519 211 |
| 80x38x5 | 9519 212 |

■ = AREA SAGOMABILE / AREA THAT CAN BE SHAPED

9519c



Controcoltelli sagomati di ricambio in HM integrale.

Profiled spare back-knives HM integral.

Derrière-couteaux profilés de rechange en HM intégral.

Gegen-Messern mit profil zu HM integral.

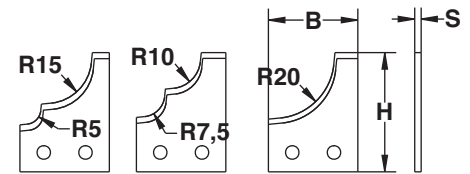
Contracuchillas perfiladas utilizadas como repuestos en HM macizo.

| Dimensioni | ID nr. |
|------------|-----------------|
| BxHxS | n°1 pz |
| 30x28x5 | 9519 301 |
| 30x33x5 | 9519 302 |
| 30x38x5 | 9519 303 |
| 35x28x5 | 9519 313 |
| 35x33x5 | 9519 314 |
| 35x38x5 | 9519 315 |
| 40x28x5 | 9519 304 |
| 40x33x5 | 9519 305 |
| 40x38x5 | 9519 306 |
| 60x28x5 | 9519 307 |
| 60x33x5 | 9519 308 |
| 60x38x5 | 9519 309 |
| 80x28x5 | 9519 310 |
| 80x33x5 | 9519 311 |
| 80x38x5 | 9519 312 |

Coltelli sagomati di ricambio per art. 2007.
Shaped spare cutters for art. 2007.
 Couteaux de rechange à profil pour art. 2007.
Messern mit Profil für art. 2007.
 Cuchillas perfiladas utilizadas como repuestos del art. 2007.

| COLTELLI SAGOMATI | | | |
|-------------------|--------------------|------------------|-----------------|
| Dimensioni BxHxS | R7,5-10 30x40x2 | R5-15 30x40x2 | R20 30x40x2 |
| ID nr. | 9520 001 | 9520 002 | 9520 003 |

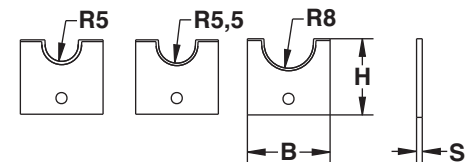
9520



Coltelli sagomati di ricambio per art. 2008.
Shaped spare cutters for art. 2008.
 Couteaux de rechange à profil pour art. 2008.
Messern mit Profil für art. 2008.
 Cuchillas perfiladas utilizadas como repuestos del art. 2008.

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | R5 25x30x2 | R5,5 25x30x2 | R8 25x30x2 |
| ID nr. | 9521 001 | 9521 002 | 9521 003 |

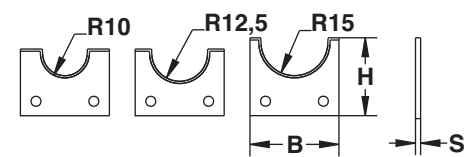
9521



Coltelli sagomati di ricambio per art. 2009.
Shaped spare cutters for art. 2009.
 Couteaux de rechange à profil pour art. 2009.
Messern mit Profil für art. 2009.
 Cuchillas perfiladas utilizadas como repuestos del art. 2009.

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|------------------|-----------------|
| Dimensioni BxHxS | R10 40x35x2 | R12,5 40x35x2 | R15 40x35x2 |
| ID nr. | 9522 001 | 9522 002 | 9522 003 |

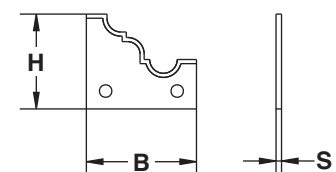
9522



Coltelli sagomati di ricambio per art. 2010.
Shaped spare cutters for art. 2010.
 Couteaux de rechange à profil pour art. 2010.
Messern mit Profil für art. 2010.
 Cuchillas perfiladas utilizadas como repuestos del art. 2010.

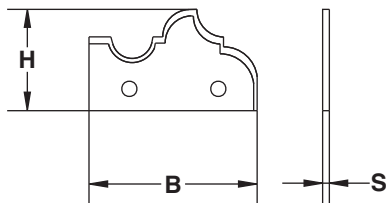
| COLTELLI SAGOMATI | |
|-------------------|-----------------|
| Dimensioni BxHxS | 40x35x2 |
| ID nr. | 9523 001 |

9523



9524

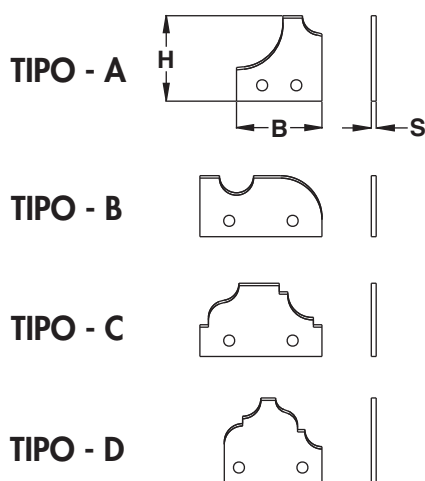
Coltelli sagomati di ricambio per art. 2011.
Shaped spare cutters for art. 2011.
 Couteaux de rechange à profil pour art. 2011.
Messern mit Profil für art. 2011.
 Cuchillas perfiladas utilizadas como repuestos del art. 2011.



| COLTELLI SAGOMATI | |
|-------------------|-----------------|
| Dimensioni BxHxS | 50x30x2 |
| ID nr. | 9524 001 |
| | |

9525

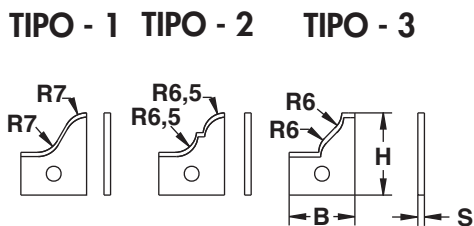
Coltelli sagomati di ricambio per art. 2012.
Shaped spare cutters for art. 2012.
 Couteaux de rechange à profil pour art. 2012.
Messern mit Profil für art. 2012.
 Cuchillas perfiladas utilizadas como repuestos del art. 2012.



| COLTELLI SAGOMATI | | |
|-------------------|-----------------|-----------------|
| TIPO | A | B |
| Dimensioni BxHxS | 35x35x2 | 50x30x2 |
| ID nr. | 9525 001 | 9525 002 |
| | | |
| TIPO | C | D |
| Dimensioni BxHxS | 50x35x2 | 40x35x2 |
| ID nr. | 9525 003 | 9525 004 |

9526

Coltelli sagomati di ricambio per art. 2015.
Shaped spare cutters for art. 2015.
 Couteaux de rechange à profil pour art. 2015.
Messern mit Profil für art. 2015.
 Cuchillas perfiladas utilizadas como repuestos del art. 2015.

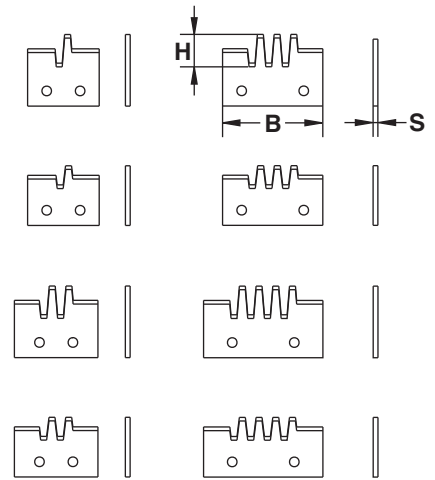


| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| TIPO | A | 2 | 3 |
| Dimensioni BxHxS | 35x35x2 | 20x25x2 | 20x25x2 |
| ID nr. | 9525 001 | 9526 002 | 9526 003 |

Coltelli sagomati di ricambio per art. 2028.
Shaped spare cutters for art. 2028.
 Couteaux de rechange à profil pour art. 2028.
Messern mit Profil für art. 2028.
 Cuchillas perfiladas utilizadas como repuestos del art. 2028.

9527

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Altezza | n°incastrati=1 | | n°incastrati=2 | |
| | H=8 | H=12 | H=8 | H=12 |
| Dimensioni BxHxS | 30x25x2 | 30x30x2 | 50x25x2 | 50x30x2 |
| ID nr. | 9527 001 | 9527 002 | 9527 007 | 9527 008 |

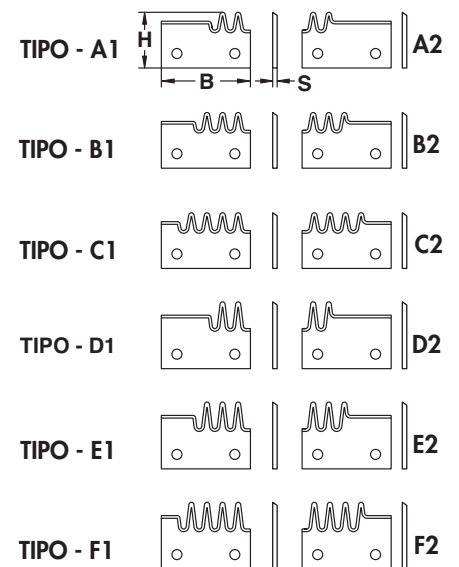


| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Altezza | n°incastrati=3 | | n°incastrati=4 | |
| | H=8 | H=12 | H=8 | H=12 |
| Dimensioni BxHxS | 42x25x2 | 42x28x2 | 50x25x2 | 50x30x2 |
| ID nr. | 9527 005 | 9527 006 | 9527 007 | 9527 008 |

Coltelli sagomati di ricambio per art. 2029.
Shaped spare cutters for art. 2029.
 Couteaux de rechange à profil pour art. 2029.
Messern mit Profil für art. 2029.
 Cuchillas perfiladas utilizadas como repuestos del art. 2029.

9528

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A1 | A2 | B1 | B2 |
| Dimensioni BxHxS | 40x25x2 | 40x25x2 | 40x25x2 | 40x25x2 |
| ID nr. | 9528 011 | 9528 012 | 9528 013 | 9528 014 |
| TIPO | C1 | C2 | D1 | D2 |
| Dimensioni BxHxS | 40x25x2 | 40x25x2 | 40x30x2 | 40x30x2 |
| ID nr. | 9528 015 | 9528 016 | 9528 021 | 9528 022 |
| TIPO | E1 | E2 | F1 | F2 |
| Dimensioni BxHxS | 40x30x2 | 40x30x2 | 40x30x2 | 40x30x2 |
| ID nr. | 9528 023 | 9528 024 | 9528 025 | 9528 026 |



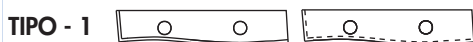
9532

DX SX



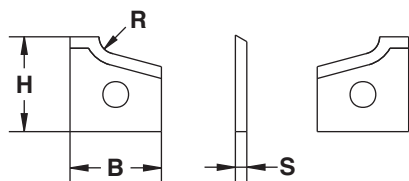
9533

DX SX



9534

DX SX



Coltelli sagomati di ricambio per art. 2040.
Shaped spare cutters for art. 2040.
 Couteaux de rechange à profil pour art. 2040.
Messern mit Profil für art. 2040.
 Cuchillas perfiladas utilizadas como repuestos del art. 2040.

COLTELLI SAGOMATI

| TIPO | 1 | 2 | 3 | 4 | 5 |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 60x12x1,5 | 60x12x1,5 | 60x12x1,5 | 20x12x1,5 | 20x12x1,5 |
| ID nr. DX | 9532 001 | 9532 003 | 9532 005 | 9532 021 | 9532 023 |
| ID nr. SX | 9532 002 | 9532 004 | 9532 006 | 9532 022 | 9532 024 |

Coltelli sagomati di ricambio per art. 2041.
Shaped spare cutters for art. 2041.
 Couteaux de rechange à profil pour art. 2041.
Messern mit Profil für art. 2041.
 Cuchillas perfiladas utilizadas como repuestos del art. 2041.

COLTELLI SAGOMATI

| TIPO | 1 | 4 | 5 |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 60x12x1,5 | 20x12x1,5 | 20x12x1,5 |
| ID nr. DX | 9533 001 | 9532 021 | 9532 023 |
| ID nr. SX | 9533 002 | 9532 022 | 9532 024 |

N.B.: I coltelli tipo 4/5 sono gli stessi utilizzati nell'art. 2040.
 ATTENTION: Knives type 4/5 are the same used on art. 2040.

Coltelli sagomati di ricambio per art. 2045.
Shaped spare cutters for art. 2045.
 Couteaux de rechange à profil pour art. 2045.
Messern mit Profil für art. 2045.
 Cuchillas perfiladas utilizadas como repuestos del art. 2045.

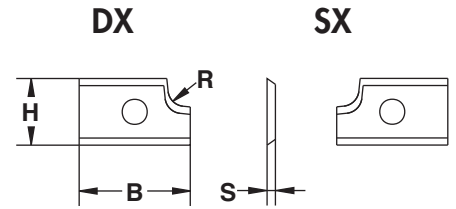
Dimensioni BxHxS ID nr. DX ID nr. SX

| | | | |
|--------------------------------|---------|-----------------|-----------------|
| COLTELLI R2 (MiniMax) | 16x17x2 | 9534 001 | 9534 002 |
| COLTELLI R2 (SM.Mec) | 16x17x2 | 9534 005 | 9534 006 |
| COLTELLI R3 (MiniMax)/(SM.Mec) | 16x17x2 | 9534 003 | 9534 004 |
| COLTELLI R2-2° (SM.Mec) | 16x17x2 | 9534 007 | 9534 008 |
| COLTELLI R2 -1,5° (SM.Mec) | 16x17x2 | 9534 009 | 9534 010 |

Coltelli sagomati di ricambio per art. 2046.
Shaped spare cutters for art. 2046.
 Couteaux de rechange à profil pour art. 2046.
Messern mit Profil für art. 2046.
 Cuchillas perfiladas utilizadas como repuestos del art. 2046.

9535

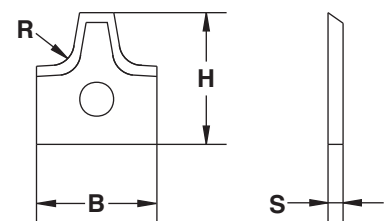
| COLTELLI SAGOMATI | | |
|-------------------|-----------------|-----------------|
| | RAGGIO-2 | RAGGIO-3 |
| Dimensioni BxHxS | 20x12x1,5 | 20x12x1,5 |
| ID nr. DX | 9535 001 | 9535 003 |
| ID nr. SX | 9535 002 | 9535 004 |



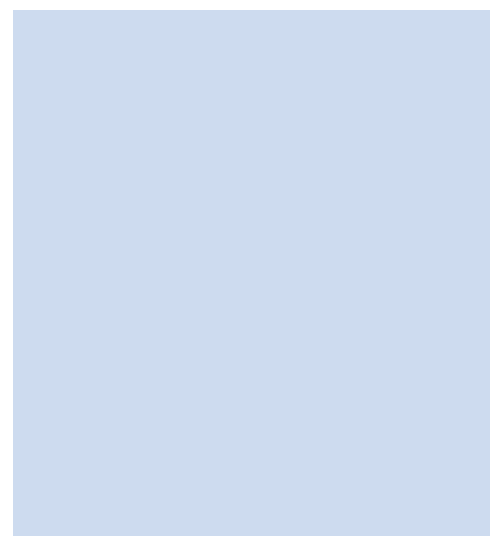
Coltelli sagomati di ricambio per art. 2047 - 3041.
Shaped spare cutters for art. 2047 - 3041.
 Couteaux de rechange à profil pour art. 2047 - 3041.
Messern mit Profil für art. 2047 - 3041.
 Cuchillas perfiladas utilizadas como repuestos del art. 2047 - 3041.

9536

| TIPO - A | PER ART. 2047009/010/011/012 | COLTELLI |
|------------------|--|-----------------|
| Dimensioni BxHxS | | 16x14x2 |
| ID nr. | | 9536 001 |
| TIPO - B | PER ART. 2047005/006/007/008/017/018/019/020 | COLTELLI |
| Dimensioni BxHxS | | 16x17,5x2 |
| ID nr. | | 9536 002 |
| TIPO - C | PER ART. 2047001/002/003/004/0210 | COLTELLI |
| Dimensioni BxHxS | | 16x13,4x2 |
| ID nr. | | 9536 003 |
| TIPO - D | PER ART. 2047013/014/015/016 | COLTELLI |
| Dimensioni BxHxS | | 16x14,4x2 |
| ID nr. | | 9536 004 |
| TIPO - E | PER ART. 2047101 | COLTELLI |
| Dimensioni BxHxS | | 16x13,15x2 |
| ID nr. | | 9536 101 |
| TIPO - F | PER ART. 2047022/023 | COLTELLI |
| Dimensioni BxHxS | | 16x14,4x2 |
| ID nr. | | 9536 005 |



N.B.: NELL'ORDINE INDICARE CODICE E RAGGIO.
 ATTENTION: PLEASE SPECIFY BSP CODE AND RADIUS IN YOUR ORDER.



9538

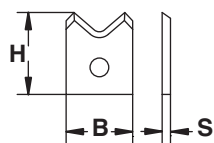
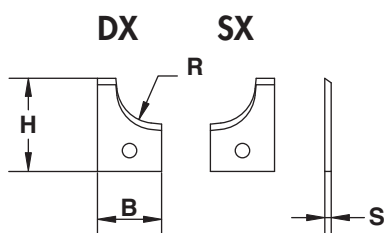
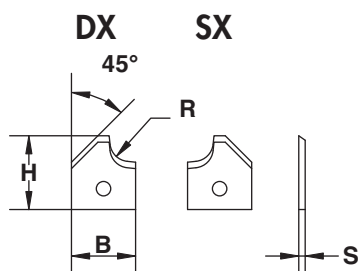
Coltelli sagomati di ricambio per art. 3040 - 2032.

Shaped spare cutters for art. 3040 - 2032.

Couteaux de rechange à profil pour art. 3040 - 2032.

Messern mit Profil für art. 3040 - 2032.

Cuchillas perfiladas utilizadas como repuestos del art. 3040 - 2032.



| PER ART. 3040 | | COLTELLI SAGOMATI | | |
|------------------|--|--------------------|--------------------|--------------------|
| Raggio | | 2-45° | 3-45° | 4-45° |
| Dimensioni BxHxS | | 20x25x2 | 20x25x2 | 20x25x2 |
| ID nr. DX | | 9538 001-01 | 9538 001-02 | 9538 001-03 |
| ID nr. SX | | 9538 002-01 | 9538 002-02 | 9538 002-03 |
| Raggio | | 5-45° | 6-45° | |
| Dimensioni BxHxS | | 20x25x2 | 20x25x2 | |
| ID nr. DX | | 9538 001-04 | 9538 001-05 | |
| ID nr. SX | | 9538 002-04 | 9538 002-05 | |

| PER ART. 3040 | | COLTELLI SAGOMATI | | | |
|---------------|--|--------------------|--------------------|--------------------|--------------------|
| Raggio | | 6 | 7 | 8 | 9 |
| BxHxS | | 20x30x2 | 20x30x2 | 20x30x2 | 20x30x2 |
| ID nr. DX | | 9538 003-01 | 9538 003-02 | 9538 003-03 | 9538 003-04 |
| ID nr. SX | | 9538 004-01 | 9538 004-02 | 9538 004-03 | 9538 004-04 |
| Raggio | | 10 | 11 | 12 | |
| BxHxS | | 20x30x2 | 20x30x2 | 20x30x2 | |
| ID nr. DX | | 9538 003-05 | 9538 003-06 | 9538 003-07 | |
| ID nr. SX | | 9538 004-05 | 9538 004-06 | 9538 004-07 | |

| PER ART. 2032 | | COLTELLI SAGOMATI | | |
|------------------|--|-------------------|-----------------|-----------------|
| Raggio | | 2 | 3 | 4 |
| Dimensioni BxHxS | | 16x20x2 | 16x20x2 | 16x20x2 |
| ID nr. DX | | 9538 011 | 9538 012 | 9538 013 |
| ID nr. SX | | - | - | - |
| Raggio | | 5 | 6 | |
| Dimensioni BxHxS | | 16x20x2 | 16x20x2 | |
| ID nr. DX | | 9538 014 | 9538 015 | |
| ID nr. SX | | - | - | |

Coltelli sagomati di ricambio per art. 3050.

Shaped spare cutters for art. 3050.

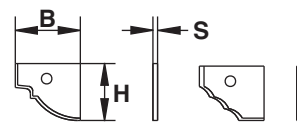
Couteaux de rechange à profil pour art. 3050.

Messern mit Profil für art. 3050.

Cuchillas perfiladas utilizadas como repuestos del art. 3050.

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D |
| Dimensioni BxHxS | 30x25x2 | 30x25x2 | 15x25x2 | 30x25x2 |
| ID nr. | 9539 001 | 9539 002 | 9539 003 | 9539 004 |

9539

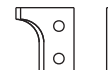


TIPO - A

TIPO - B



TIPO - C



TIPO - D

Coltelli sagomati di ricambio per art. 3051.

Shaped spare cutters for art. 3051.

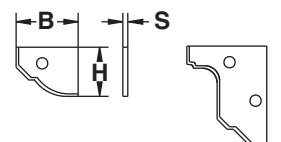
Couteaux de rechange à profil pour art. 3051.

Messern mit Profil für art. 3051.

Cuchillas perfiladas utilizadas como repuestos del art. 3051.

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D |
| Dimensioni BxHxS | 25x20x2 | 40x35x2 | 22,4x12x1,5* | 23,8x12x1,5* |
| ID nr. | 9540 001 | 9540 002 | 9540 003 | 9540 004 |

9540



TIPO - A

TIPO - B



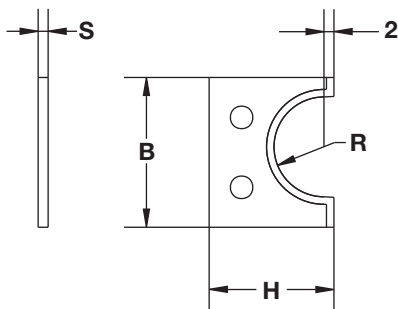
TIPO - C



TIPO - D

*Ricavati dal 30x12x1,5 / Realised using knife 30x12x1,5

9542



Coltelli sagomati di ricambio per art. 3055.

Shaped spare cutters for art. 3055.

Couteaux de rechange à profil pour art. 3055.

Messern mit Profil für art. 3055.

Cuchillas perfiladas utilizadas como repuestos del art. 3055.

COLTELLI SAGOMATI

| | R6 | R8 | R9 | R10 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 35x30x2 |
| ID nr. | 9542 011 | 9542 012 | 9542 013 | 9542 014 |

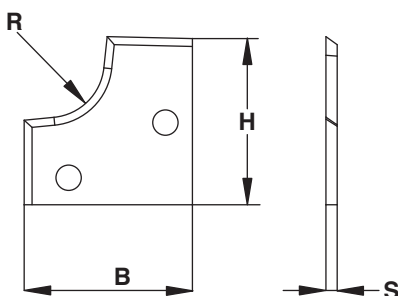
COLTELLI SAGOMATI

| | R12 | R12,5 | R15 | R17,5 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x30x2 | 35x30x2 | 50x35x2 | 50x35x2 |
| ID nr. | 9542 015 | 9542 016 | 9542 017 | 9542 018 |

COLTELLI SAGOMATI

| | R20 | R22,5 | R25 |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x35x2 | 60x40x2 | 60x40x2 |
| ID nr. | 9542 019 | 9542 020 | 9542 021 |

9543



Coltelli sagomati di ricambio per art. 3056.

Shaped spare cutters for art. 3056.

Couteaux de rechange à profil pour art. 3056.

Messern mit Profil für art. 3056.

Cuchillas perfiladas utilizadas como repuestos del art. 3056.

COLTELLI SAGOMATI

| | R6 | R8 | R9 | R10 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 30x30x2 |
| ID nr. | 9543 011 | 9543 012 | 9543 013 | 9543 014 |

COLTELLI SAGOMATI

| | R12 | R12,5 | R15 | R17,5 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x30x2 | 35x30x2 | 50x35x2 | 50x35x2 |
| ID nr. | 9542 015 | 9542 016 | 9542 017 | 9542 018 |

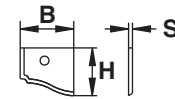
COLTELLI SAGOMATI

| | R20 | R22,5 | R25 |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 35x35x2 | 40x40x2 | 40x40x2 |
| ID nr. | 9543 019 | 9543 020 | 9543 021 |

Coltelli sagomati di ricambio per art. 3061.
Shaped spare cutters for art. 3061.
 Couteaux de rechange à profil pour art. 3061.
Messern mit Profil für art. 3061.
 Cuchillas perfiladas utilizadas como repuestos del art. 3061.

| COLTELLI SAGOMATI | | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D | E |
| BxHxS | 30x25x2 | 25x25x2 | 15x25x2 | 15x25x2 | 30x30x2 |
| ID nr. | 9549 001 | 9549 002 | 9549 003 | 9549 004 | 9549 005 |

9549



TIPO - A



TIPO - B



TIPO - C



TIPO - D

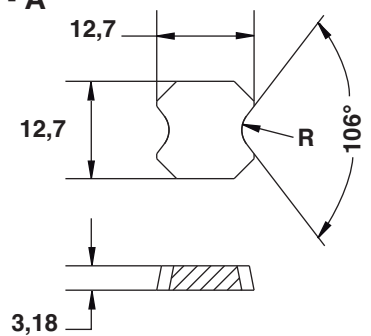


TIPO - E

Placchette di ricambio per raschiabordi art. 2048 - 2057 - 2058.
Spared tips for scraper art. 2048 - 2057 - 2058.
 Plaque de rechange pour racler art. 2048 - 2057 - 2058.
Ersatz Schneidplatte für Schaber art. 2048 - 2057 - 2058.
 Cuchillas de repuesto para rascadores art. 2048 - 2057 - 2058.

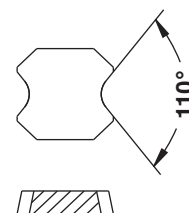
| FIGURA-A PER ART.2048 | PLACCHETTA 12,7x12,7x3,18 SAGOMATA 106° | TIPO SCM |
|-----------------------|---|---|
| Raggio | 1 | 1,5 2 3 |
| ID nr. | 9550 001 | 9550 002 9550 003 9550 004 |

FIGURA - A



| FIGURA-B PER ART.2048 | PLACCHETTA 12,7x12,7x3,18 SAGOMATA 110° | TIPO BIESSE |
|-----------------------|---|---|
| Raggio | 1 | 1,5 2 3 |
| ID nr. | 9550 101 | 9550 102 9550 103 9550 104 |

FIGURA - B



9550

Placchette di ricambio per raschiabordi art. 2048 - 2057 - 2058.

Spared tips for scraper art. 2048 - 2057 - 2058.

Plaque de rechange pour racler art. 2048 - 2057 - 2058.

Ersatz Schneidplatte für Schaber art. 2048 - 2057 - 2058.

Cuchillas de repuesto para rascadores art. 2048 - 2057 - 2058.

FIGURA - C

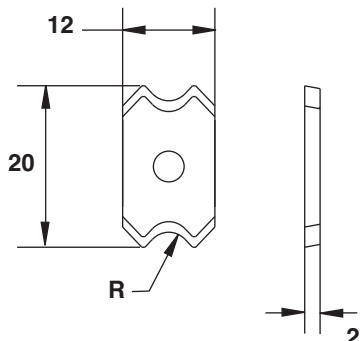


FIGURA-C PER ART.2057

PLACCHETTA 20x12x2 SAGOMATA

| Raggio | 1 | 1,5 | 2 | 3 |
|--------|-----------------|-----------------|-----------------|-----------------|
| ID nr. | 9550 201 | 9550 202 | 9550 203 | 9550 204 |

FIGURA - D

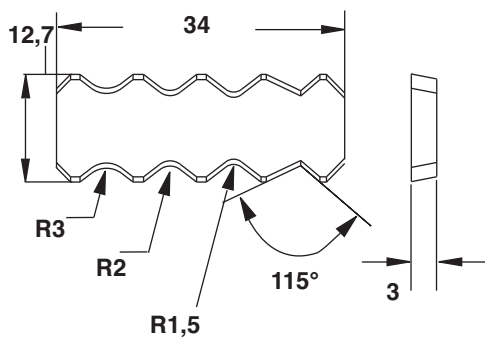


FIGURA-D PER ART.2058

PLACCHETTA 34x12,7x3 SAGOMATA

| Raggio | 1,0-2,0-3,0-115° | 1,5-2,0-3,0-115° |
|--------|------------------|------------------|
| ID nr. | 9550 301 | 9550 302 |
| Raggio | 2,0-3,0-5,0-115° | 1,5-2,0-2,5-115° |
| ID nr. | 9550 303 | 9550 304 |

FIGURA - E

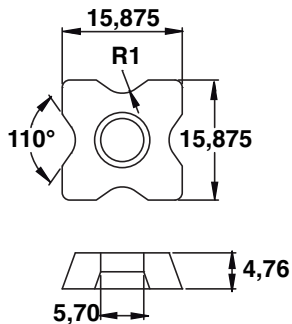


FIGURA-E

PLACCHETTA RCS 15,87x15,87x4,76

| Raggio | 1 | 1,5 | 2 | 3 |
|--------|-----------------|-----------------|-----------------|-----------------|
| ID nr. | 9550 401 | 9550 402 | 9550 403 | 9550 404 |

FIGURA - F

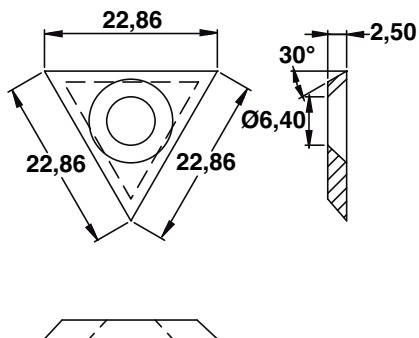


FIGURA-F

RASANTI IN HM TRIANGOLARI 22,86 SP = 2,5

| | |
|--------|-----------------|
| ID nr. | 9550 501 |
|--------|-----------------|

Coltelli sagomati di ricambio per art. 2052.
Shaped spare cutters for art. 2052.
 Couteaux de rechange à profil pour art. 2052.
Messern mit Profil für art. 2052.
 Cuchillas perfiladas utilizadas como repuestos del art. 2052.

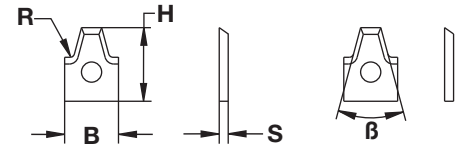
FIGURA-B PER ART.2048 PLACCHETTA 12,7x12,7x3,18 SAGOMATA 110°

| RAGGIO | 1,5 | 2,0 | 3,0 | 4,0 | 5,0 |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 12x20x2 | 12x20x2 | 12x20x2 | 12x20x2 | 15x20x2 |
| ID nr. | 9551 003 | 9551 004 | 9551 006 | 9551 008 | 9551 010 |

COLTELLI SAGOMATI

| β | 30° | 45° | 60° |
|---------|-----------------|-----------------|-----------------|
| BxHxS | 12x20x2 | 12x20x2 | 12x20x2 |
| ID nr. | 9551 021 | 9551 022 | 9551 023 |

9551

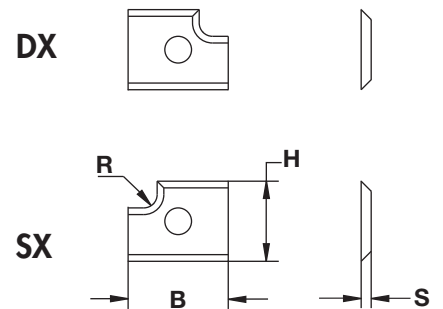


Coltelli sagomati di ricambio per art. 2051.
Shaped spare cutters for art. 2051.
 Couteaux de rechange à profil pour art. 2051.
Messern mit Profil für art. 2051.
 Cuchillas perfiladas utilizadas como repuestos del art. 2051.

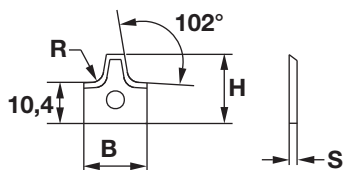
COLTELLI SAGOMATI

| RAGGIO | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 15x12x1,5 | 15x12x1,5 | 15x12x1,5 | 15x12x1,5 | 15x12x1,5 |
| ID nr. | 9553 001 | 9553 003 | 9553 005 | 9553 007 | 9553 009 |
| ID nr. SX | 9553 002 | 9553 004 | 9553 006 | 9553 008 | 9553 010 |

9553

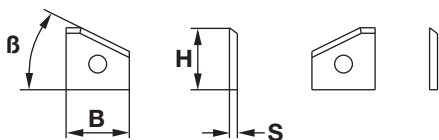


9554



DX

SX



Coltelli sagomati di ricambio per art. 2054.

Shaped spare cutters for art. 2054.

Couteaux de rechange à profil pour art. 2054.

Messern mit Profil für art. 2054.

Cuchillas perfiladas utilizadas como repuestos del art. 2054.

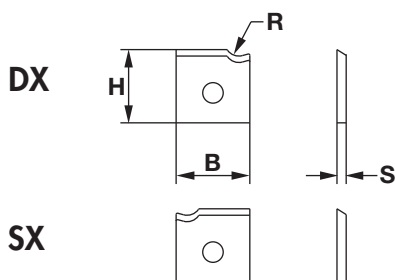
COLTELLI SAGOMATI

| RAGGIO | 1,5 | 2,0 | 3,0 | 4,0 | 5,0 |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 16x17,5x2 | 16x17,5x2 | 16x17,5x2 | 16x17,5x2 | 16x17,5x2 |
| ID nr. | 9554 001 | 9554 002 | 9554 003 | 9554 004 | 9554 005 |

COLTELLI SAGOMATI

| | |
|-----------|-----------------|
| β | 25° |
| BxHxS | 16x15,7x2 |
| ID nr. DX | 9554 011 |
| ID nr. SX | 9554 012 |

9555



DX

SX

Coltelli sagomati di ricambio per art. 2055.

Shaped spare cutters for art. 2055.

Couteaux de rechange à profil pour art. 2055.

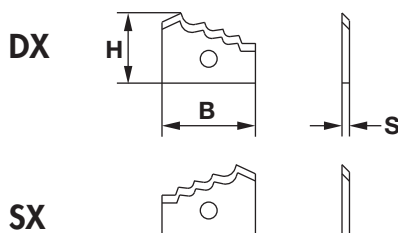
Messern mit Profil für art. 2055.

Cuchillas perfiladas utilizadas como repuestos del art. 2055.

COLTELLI SAGOMATI

| RAGGIO | 1,5 | 2,0 | 3,0 |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 16x15,9x2 | 16x15,9x2 | 16x15,9x2 |
| ID nr. DX | 9555 001 | 9555 003 | 9555 005 |
| ID nr. SX | 9555 002 | 9555 004 | 9555 006 |

9556



DX

SX

Coltelli sagomati di ricambio per art. 2056.

Shaped spare cutters for art. 2056.

Couteaux de rechange à profil pour art. 2056.

Messern mit Profil für art. 2056.

Cuchillas perfiladas utilizadas como repuestos del art. 2056.

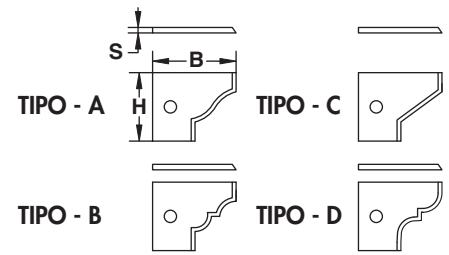
COLTELLI SAGOMATI

| | |
|------------------|-------------------------|
| RAGGIO | DIRITTO 1,5 - 2,0 - 3,0 |
| Dimensioni BxHxS | 25x18,7x2 |
| ID nr. DX | 9556 001 |
| ID nr. SX | 9556 002 |

Coltelli sagomati di ricambio per art. 2060.
Shaped spare cutters for art. 2060.
 Couteaux de rechange à profil pour art. 2060.
Messern mit Profil für art. 2060.
 Cuchillas perfiladas utilizadas como repuestos del art. 2060.

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D |
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. | 9557 001 | 9557 002 | 9557 003 | 9557 004 |

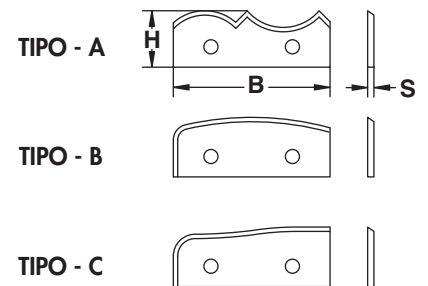
9557



Coltelli sagomati di ricambio per art. 2065.
Shaped spare cutters for art. 2065.
 Couteaux de rechange à profil pour art. 2065.
Messern mit Profil für art. 2065.
 Cuchillas perfiladas utilizadas como repuestos del art. 2065.

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| RAGGIO | A | B | C |
| Dimensioni BxHxS | 50x18x2 | 50x19x2 | 50x19x2 |
| ID nr. | 9558 001 | 9558 002 | 9558 003 |

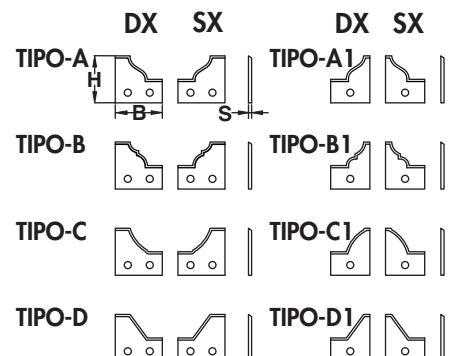
9558



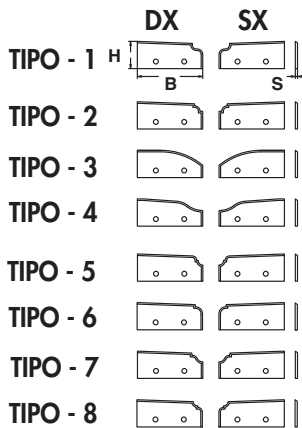
Coltelli sagomati di ricambio per art. 2066 - 2067.
Shaped spare cutters for art. 2066 - 2067.
 Couteaux de rechange à profil pour art. 2066 - 2067.
Messern mit Profil für art. 2066 - 2067.
 Cuchillas perfiladas utilizadas como repuestos del art. 2066 - 2067.

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | A | B | C | D |
| Dimensioni BxHxS | 30x30x2 | 30x30x2 | 30x30x2 | 30x30x2 |
| ID nr. DX | 9559 001 | 9559 003 | 9559 005 | 9559 007 |
| ID nr. SX | 9559 002 | 9559 004 | 9559 006 | 9559 008 |
| TIPO | A1 | B1 | C1 | D1 |
| Dimensioni BxHxS | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. DX | 9559 009 | 9559 011 | 9559 013 | 9559 015 |
| ID nr. SX | 9559 010 | 9559 012 | 9559 014 | 9559 016 |

9559



9560



Coltelli sagomati di ricambio per art. 2069.

Shaped spare cutters for art. 2069.

Couteaux de rechange à profil pour art. 2069.

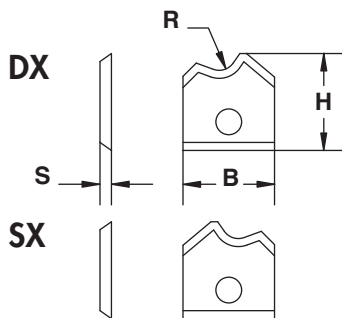
Messern mit Profil für art. 2069.

Cuchillas perfiladas utilizadas como repuestos del art. 2069.

COLTELLI SAGOMATI

| TIPO | 1 | 2 | 3 | 4 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 60x25x2 | 60x25x2 | 60x25x2 | 60x25x2 |
| ID nr. DX | 9560 001 | 9560 003 | 9560 005 | 9560 007 |
| ID nr. SX | 9560 002 | 9560 004 | 9560 006 | 9560 008 |
| TIPO | 5 | 6 | 7 | 8 |
| Dimensioni BxHxS | 60x25x2 | 60x25x2 | 60x25x2 | 60x25x2 |
| ID nr. DX | 9560 009 | 9560 011 | 9560 013 | 9560 015 |
| ID nr. SX | 9560 010 | 9560 012 | 9560 014 | 9560 016 |

9562



Coltelli sagomati di ricambio per art. 2071.

Shaped spare cutters for art. 2071.

Couteaux de rechange à profil pour art. 2071.

Messern mit Profil für art. 2071.

Cuchillas perfiladas utilizadas como repuestos del art. 2071.

COLTELLI SAGOMATI

| RAGGIO | 1 | 2 | 3 |
|------------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 16x17x2 | 16x17x2 | 16x17x2 |
| ID nr. DX | 9562 001 | 9562 003 | 9562 005 |
| ID nr. SX | 9562 002 | 9562 004 | 9562 006 |

Coltelli sagomati di ricambio per art. 2072.

Shaped spare cutters for art. 2072.

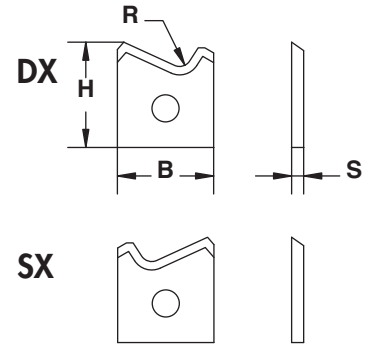
Couteaux de rechange à profil pour art. 2072.

Messern mit Profil für art. 2072.

Cuchillas perfiladas utilizadas como repuestos del art. 2072.

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|--|
| RAGGIO | 2 | 3 | |
| Dimensioni BxHxS | 16x17,5x2 | 16x17,5x2 | |
| ID nr. DX | 9563 001 | 9563 003 | |
| ID nr. SX | 9563 002 | 9563 004 | |

9563



Coltelli sagomati di ricambio per art. 3049.

Shaped spare cutters for art. 3049.

Couteaux de rechange à profil pour art. 3049.

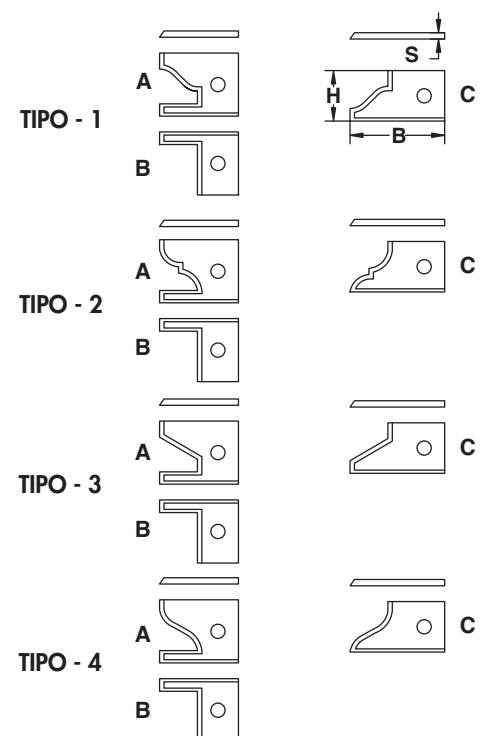
Messern mit Profil für art. 3049.

Cuchillas perfiladas utilizadas como repuestos del art. 3049.

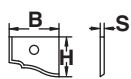
| PER ART. 3049001 COLTELLI SAGOMATI | | | | |
|------------------------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO - C | 1 | 2 | 3 | 4 |
| Dimensioni BxHxS | 16x30x2 | 16x30x2 | 16x30x2 | 16x30x2 |
| ID nr. | 9564 001 | 9564 002 | 9564 003 | 9564 004 |

| PER ART. 3049003 COLTELLI SAGOMATI | | | | |
|------------------------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO - A | 1 | 2 | 3 | 4 |
| Dimensioni BxHxS | 20x25x2 | 20x25x2 | 20x25x2 | 20x25x2 |
| ID nr. | 9564 011 | 9564 012 | 9564 013 | 9564 014 |
| TIPO - B | 1 | | | |
| Dimensioni BxHxS | 20x25x2 | | | |
| ID nr. | 9564 021 | | | |

9564



9566



TIPO - A



TIPO - B



TIPO - C



TIPO - D



TIPO - E

Coltelli sagomati di ricambio per art. 3069.

Shaped spare cutters for art. 3069.

Couteaux de rechange à profil pour art. 3069.

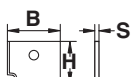
Messern mit Profil für art. 3069.

Cuchillas perfiladas utilizadas como repuestos del art. 3069.

COLTELLI SAGOMATI

| TIPO | A | B | C | D | E |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BxHxS | 25x20x2 | 20x20x2 | 15x25x2 | 15x25x2 | 30x30x2 |
| ID nr. | 9566 001 | 9566 002 | 9566 003 | 9566 004 | 9566 005 |

9567



TIPO - A



TIPO - B



TIPO - C



TIPO - D

Coltelli sagomati di ricambio per art. 3070.

Shaped spare cutters for art. 3070.

Couteaux de rechange à profil pour art. 3070.

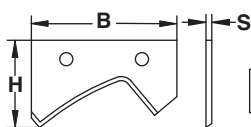
Messern mit Profil für art. 3070.

Cuchillas perfiladas utilizadas como repuestos del art. 3070.

COLTELLI SAGOMATI

| TIPO | A | B | C | D |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Dimensioni BxHxS | 25x20x2 | 25x20x2 | 15x25x2 | 30x30x2 |
| ID nr. | 9567 001 | 9567 002 | 9567 003 | 9567 004 |

9568



TIPO - A



TIPO - B

Coltelli sagomati di ricambio per art. 3071.

Shaped spare cutters for art. 3071.

Couteaux de rechange à profil pour art. 3071.

Messern mit Profil für art. 3071.

Cuchillas perfiladas utilizadas como repuestos del art. 3071.

COLTELLI SAGOMATI

| TIPO | A | B |
|------------------|-----------------|-----------------|
| Dimensioni BxHxS | 50x30x2 | 30x20x2 |
| ID nr. | 9568 001 | 9568 002 |

Coltelli sagomati di ricambio per art. 3062.

Shaped spare cutters for art. 3062.

Couteaux de rechange à profil pour art. 3062.

Messern mit Profil für art. 3062.

Cuchillas perfiladas utilizadas como repuestos del art. 3062.

| PER ART. 3062001/002/003/004 | | | | |
|------------------------------|-----------------|-----------------|-----------------|-----------------|
| COLTELLI SAGOMATI | | | | |
| TIPO | 1 | 2 | 3 | 4 |
| Dimensioni | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. DX | 9569 001 | 9569 003 | 9569 005 | 9569 007 |
| ID nr. SX | 9569 002 | 9569 004 | 9569 006 | 9569 008 |
| TIPO | 5 | 6 | 7 | 8 |
| Dimensioni | 25x30x2 | 25x30x2 | 25x30x2 | 25x30x2 |
| ID nr. DX | 9569 009 | 9569 011 | 9569 013 | 9569 015 |
| ID nr. SX | 9569 010 | 9569 012 | 9569 014 | 9569 016 |

| PER ART. 3062007 | | |
|-------------------|-----------------|-----------------|
| COLTELLI SAGOMATI | | |
| TIPO | 9 | 10 |
| Dimensioni | 50x25x2 | 50x25x2 |
| ID nr. DX | 9569 017 | 9569 019 |
| ID nr. SX | 9569 018 | 9569 020 |

| PER ART. 3062006 | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| COLTELLI SAGOMATI | | | | |
| TIPO | 11 | 12 | 13 | 14 |
| Dimensioni | 12x19,85x2 | 12x19,85x2 | 12x19,85x2 | 12x19,85x2 |
| ID nr. DX | 9569 021 | 9569 022 | 9569 023 | 9569 024 |
| ID nr. SX | - | - | - | - |

Coltelli sagomati di ricambio per art. 3063.

Shaped spare cutters for art. 3063.

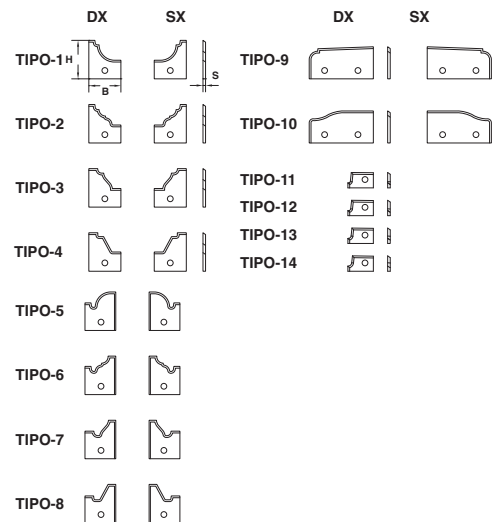
Couteaux de rechange à profil pour art. 3063.

Messern mit Profil für art. 3063.

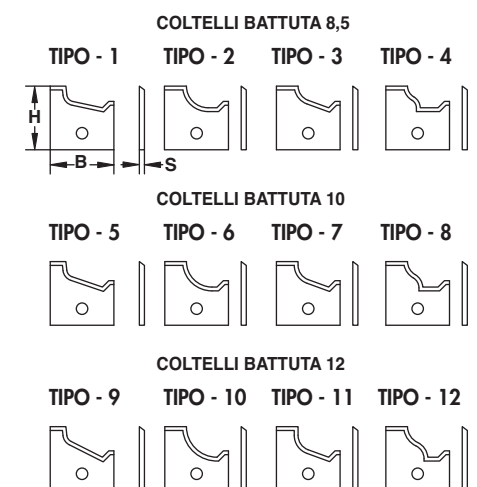
Cuchillas perfiladas utilizadas como repuestos del art. 3063.

| COLTELLI SAGOMATI | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | 1 | 2 | 3 | 4 |
| Dimensioni | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. DX | 9570 001 | 9570 002 | 9570 003 | 9570 004 |
| TIPO | 5 | 6 | 7 | 8 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. DX | 9570 011 | 9570 012 | 9570 013 | 9570 014 |
| TIPO | 9 | 10 | 11 | 12 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. DX | 9570 021 | 9570 022 | 9570 023 | 9570 024 |

9569

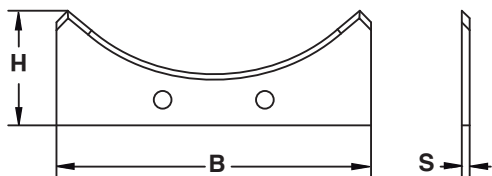


9570



9571

Coltelli sagomati di ricambio per art. 2076.
Shaped spare cutters for art. 2076.
 Couteaux de rechange à profil pour art. 2076.
Messern mit Profil für art. 2076.
 Cuchillas perfiladas utilizadas como repuestos del art. 2076.

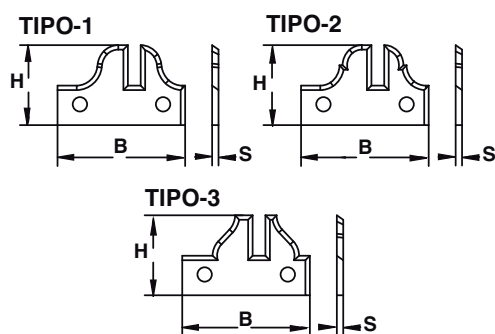


| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| | R30 | R35 | R40 |
| Dimensioni BxHxS | 60x30x2 | 60x30x2 | 60x30x2 |
| ID nr. DX | 9571 001 | 9571 002 | 9571 003 |
| ID nr. SX | - | - | - |

| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| | R45 | R50 | R55 |
| Dimensioni BxHxS | 80x30x2 | 80x30x2 | 80x30x2 |
| ID nr. DX | 9571 011 | 9571 012 | 9571 013 |
| ID nr. SX | - | - | - |

9572

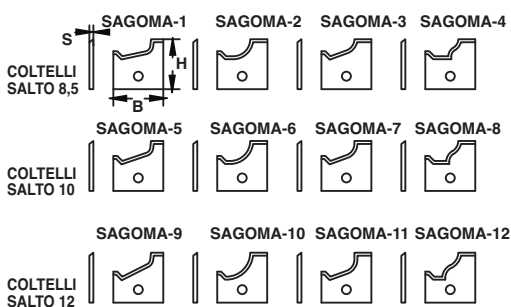
Coltelli sagomati di ricambio per art. 2077.
Shaped spare cutters for art. 2077.
 Couteaux de rechange à profil pour art. 2077.
Messern mit Profil für art. 2077.
 Cuchillas perfiladas utilizadas como repuestos del art. 2077.



| COLTELLI SAGOMATI | | | |
|-------------------|-----------------|-----------------|-----------------|
| | 1 | 2 | 3 |
| Dimensioni BxHxS | 40x25x2 | 40x25x2 | 40x25x2 |
| ID nr. DX | 9572 001 | 9572 002 | 9572 003 |

9573

Coltelli sagomati di ricambio per art. 2038.
Shaped spare cutters for art. 2038.
 Couteaux de rechange à profil pour art. 2038.
Messern mit Profil für art. 2038.
 Cuchillas perfiladas utilizadas como repuestos del art. 2038.



| BATTUTA 8,5 COLTELLI SAGOMATI | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | 1 | 2 | 3 | 4 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. | 9573 001 | 9573 002 | 9573 003 | 9573 004 |

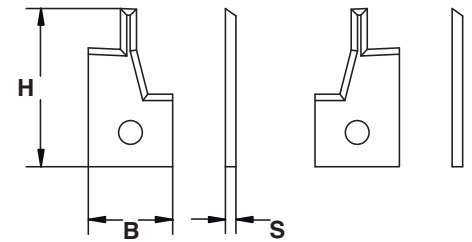
| BATTUTA 10 COLTELLI SAGOMATI | | | | |
|------------------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | 5 | 6 | 7 | 8 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. | 9573 011 | 9573 012 | 9573 013 | 9573 014 |

| BATTUTA 12 COLTELLI SAGOMATI | | | | |
|------------------------------|-----------------|-----------------|-----------------|-----------------|
| TIPO | 9 | 10 | 11 | 12 |
| Dimensioni BxHxS | 25x25x2 | 25x25x2 | 25x25x2 | 25x25x2 |
| ID nr. | 9573 021 | 9573 022 | 9573 023 | 9573 024 |

Coltelli sagomati di ricambio per art. 2080.
Shaped spare cutters for art. 2080.
 Couteaux de rechange à profil pour art. 2080.
Messern mit Profil für art. 2080.
 Cuchillas perfiladas utilizadas como repuestos del art. 2080.

| COLTELLI SAGOMATI | |
|-------------------|-----------------|
| Dimensioni BxHxS | 16x30x2 |
| ID nr. DX | 9574 001 |
| ID nr. SX | 9574 002 |

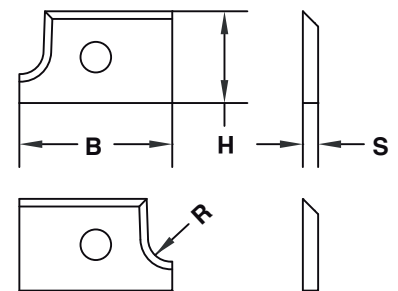
9574



Coltelli sagomati di ricambio per art. 2081.
Shaped spare cutters for art. 2081.
 Couteaux de rechange à profil pour art. 2081.
Messern mit Profil für art. 2081.
 Cuchillas perfiladas utilizadas como repuestos del art. 2081.

| COLTELLI SAGOMATI | | |
|-------------------|-----------------|-----------------|
| RAGGIO | 2 | 3 |
| Dimensioni BxHxS | 20x12x2 | 20x12x2 |
| ID nr. DX | 9575 001 | 9575 003 |
| ID nr. SX | 9575 002 | 9575 004 |

9575

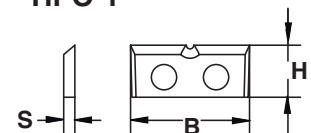


Coltelli sagomati di ricambio per art. 3073.
Shaped spare cutters for art. 3073.
 Couteaux de rechange à profil pour art. 3073.
Messern mit Profil für art. 3073.
 Cuchillas perfiladas utilizadas como repuestos del art. 3073.

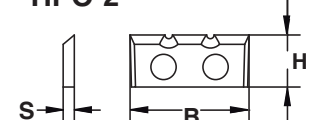
| COLTELLI SAGOMATI | | |
|-------------------|-----------------|-----------------|
| TIPO | 1 | 2 |
| Dimensioni BxHxS | 16x7x1,5 | 16x7x1,5 |
| ID nr. | 9576 001 | 9576 002 |

9576

TIPO-1



TIPO-2



9545

Lardoni di serraggio per coltelli.

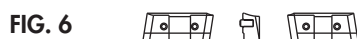
Clamping wedge.

Coins de serrage.

Keil von Sperren.

Cuñas para las cuchillas.

Lardoni di ricambio per fissaggio standard/Spare clamping wedges for standard fixing - **FIG.1**



| Dimensioni | Impiego | ID nr. |
|------------|-----------------------|-----------------|
| 6,5x12x7,5 | per coltello da 7,65 | 9545 001 |
| 8,5x12x7,5 | per coltello da 9,65 | 9545 002 |
| 10x12x7,5 | per coltello da 12 | 9545 003 |
| 13x12x7,5 | per coltello da 15-16 | 9545 004 |
| 18x12x7,5 | per coltello da 20-25 | 9545 005 |
| 28x12x7,5 | per coltello da 30-35 | 9545 006 |
| 38x12x7,5 | per coltello da 40 | 9545 007 |
| 48x12x7,5 | per coltello da 50 | 9545 008 |
| 58x12x7,5 | per coltello da 60 | 9545 009 |
| 78x12x7,5 | per coltello da 80 | 9545 010 |

| Dimensioni | Impiego | ID nr. |
|------------|-----------------------|-----------------|
| 10x12x7,5 | per coltello da 12 | 9545 021 |
| 13x12x7,5 | per coltello da 15-16 | 9545 022 |
| 18x12x7,5 | per coltello da 20-25 | 9545 023 |
| 28x12x7,5 | per coltello da 30-35 | 9545 024 |
| 38x12x7,5 | per coltello da 40 | 9545 025 |
| 48x12x7,5 | per coltello da 50 | 9545 026 |

Lardoni di ricambio per art. 2046/Spare clamping wedges for art. 2046 - **FIG.3**

| Dimensioni | Impiego | ID nr. Dx. |
|------------|-----------------------|-----------------------------------|
| 18x12x7,5 | per coltello ART.9535 | 9545 031 9545 032 |

Lardoni di ricambio per art. 2047/Spare clamping wedges for art. 2047 - **FIG.4**

| Dimensioni | Impiego | ID nr. |
|------------|--------------------|-----------------|
| 13x12x6 | per coltello da 16 | 9545 041 |

Lardoni di ricambio per art. 2047/Spare clamping wedges for art. 2047 - **FIG.6**

| Dimensioni | Impiego | ID nr. |
|-------------|------------------------|-----------------|
| 31,7x12x7,5 | per coltello ART. 9517 | 9545 061 |

Lardoni di ricambio per art. 2056/Spare clamping wedges for art. 2056 - **FIG.7**

| Dimensioni | Impiego | ID nr. |
|-------------|------------------------|-----------------|
| 23,5x10x7,5 | per coltello ART. 9556 | 9545 071 |

Viti.
Screws.
Vis.
Schraube.
Tornillos.

9546

| Dimensioni | Impiego | ID nr. | FIG. |
|--|---|---|--------|
| M5x5 | Vite di battuta testa piccola | 9546 001 | FIG.1 |
| M5x5 | Vite di battuta testa grande | 9546 002 | FIG.2 |
| M6 / M3 | Vite di battuta regolabile | 9546 026 | FIG.2A |
| M5x10 | Vite di fissaggio per levaspigli ART.9510/9511 inserti ART.9512/9513 | 9546 003 | FIG.3 |
| M5x6 M5x8 | Vite di fissaggio per rasanti ART.9508 | 9546 004 9546 005 | FIG.4 |
| M3,5x6 | Vite TORX per fissaggio coltellini testa Ø7 | 9546 006 | FIG.5 |
| M3,5x6 | Vite TORX per fissaggio coltellini testa Ø6 | 9546 025 | FIG.5A |
| M3,5x5 | Vite di battuta testa Ø9 | 9546 029 | FIG.6A |
| M4x3 M4x4 | Vite di fissaggio per rosette ART.9509 (M4x3 solo su art.2021) | 9546 008 9546 009 | FIG.7 |
| M5x16Dx/Sx M8x22Dx/Sx | Vite prigioniera per fissaggio lardoni tramite ogiva | 9546 010 9546 011 | FIG.8 |
| M6x16 M6x10 | Vite fissaggio lama truc. | 9546 012 9546 013 | FIG.9 |
| M5x16 M6x12 M6x14 M6x16 M6x20 M8x16 M8x20 M8x25 M10x25 | Grani di serraggio per ART.9545 | 9546 015 9546 016 9546 017 9546 018 9546 019 9546 020 9546 021 9546 022 9546 023 | FIG.11 |
| M6x6 | Grani di serraggio per mandrini porta-punte | 9546 024 | FIG.12 |
| M5x14 | Vite TORX T20 per fissaggio di precisione su rasanti | 9546 027 | FIG.13 |
| M4x10 | Vite di fissaggio spigolatori ART.5058 | 9546 028 | FIG.14 |

FIG. 1 

FIG. 2 

FIG. 2A 

FIG. 3 

FIG. 4 

FIG. 5 

FIG. 5A 

FIG. 6A 

FIG. 7 

FIG. 8 

FIG. 9 

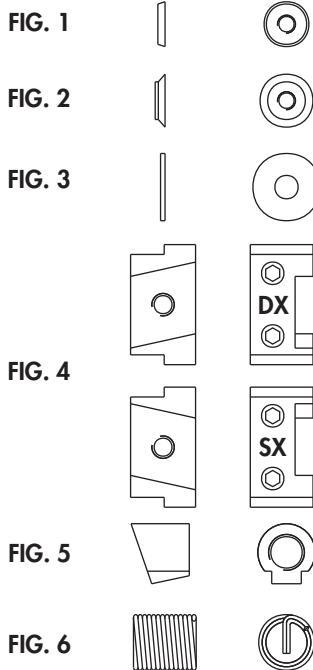
FIG. 11 

FIG. 12 

FIG. 13 

FIG. 14 

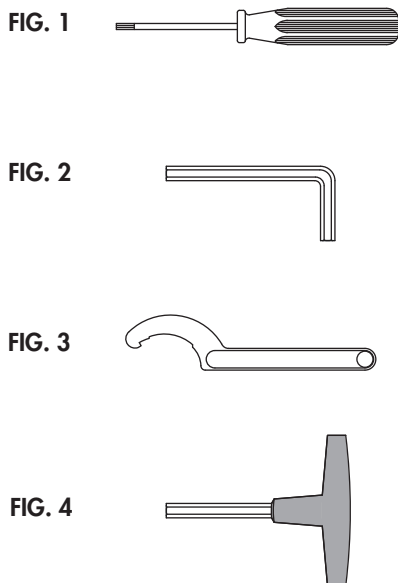
9547



Controviti.
Back-screws.
Vis derrières.
Hinter-schraube.
Cuñas.

| Dimensioni | Impiego | ID nr. | FIG. |
|--|--|--|-------|
| M4 Ø10,2 | Controvite per rasanti ART. 9508 | 9547 001 | FIG.1 |
| M4 Ø11,6 | Controvite per rosette ART. 9509 | 9547 002 | FIG.2 |
| Ø13x0,1x6,2 Ø13x0,3x6,2 Ø13x0,5x6,2 Ø13x1x6,2 | Spessori per levaspighi ART. 9510/9511 e inserti ART. 9512/9513 | 9547 003 9547 004 9547 005 9547 006 | FIG.3 |
| 27x14,5x14 DX 27x14,5x14 SX | Supporti regolabili per levaspighi ART. 9510/9511 e inserti ART. 9512/9513 | 9547 007DX 9547 007SX | FIG.4 |
| M5 Ø8 M8 Ø12 | Ogiva di fissaggio per coltellini | 9547 008 9547 009 | FIG.5 |
| M10x14 | Elicoidi per teste pialla Art. 2017 | 9547 010 | FIG.6 |

9548



Chiavi.
Keys.
Clefs.
Llave.
Llaves.

| Dimensioni | Impiego | ID nr. | FIG. |
|--|-----------------------------|------------------------------------|-------|
| T9 T15 | Chiave per viti TORX | 9548 001 9548 002 | FIG.1 |
| Chiave esagonale 3mm | M6 | 9548 003 | FIG.2 |
| Chiave esagonale 6mm | M12 | 9548 006 | FIG.2 |
| 45/50 58/62 | Chiave settore per ghiera | 9548 007 9548 008 | FIG.3 |
| Chiave esagonale 4mm Chiave esagonale 5mm | Per viti M8 Per viti M10 | 9548 009 9548 010 | FIG.5 |

INDICE / INDEX

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I disegni, le fotografie e i dati tecnici relativi agli utensili illustrati in questo catalogo sono da intendersi come indicativi e suscettibili di variazioni nel corso del tempo, senza preavviso.

The drawings, pictures and technical specifications for the tools illustrated on this catalogue have to be considered indicatives and open to changes during the time without any notice.

Les dessins, les photographies et les données techniques pour les outils illustrés dans ce catalogue sont à considérer comme indicatifs et susceptibles à variations pendant le temps sans préavis.

Die Zeichnung, die Photographien und die technisch Informationen für die Werkzeuge in diese Katalog einverstanden sien wie weisend und fähig zu Änderung in Zeit ohne Voranzeige.

Los dibujos, las fotografías y los datos técnicos de los utensilios que están ilustrados en este catálogo son indicativos y con la posibilidad de variaciones sin preaviso.

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