



catalogo
catalogue

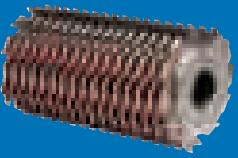
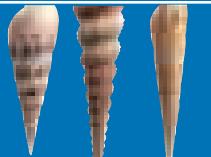
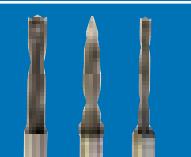
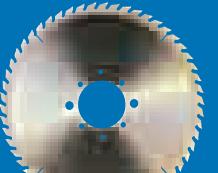
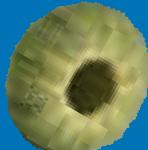
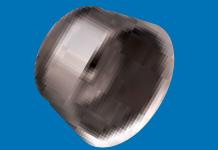
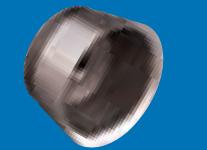


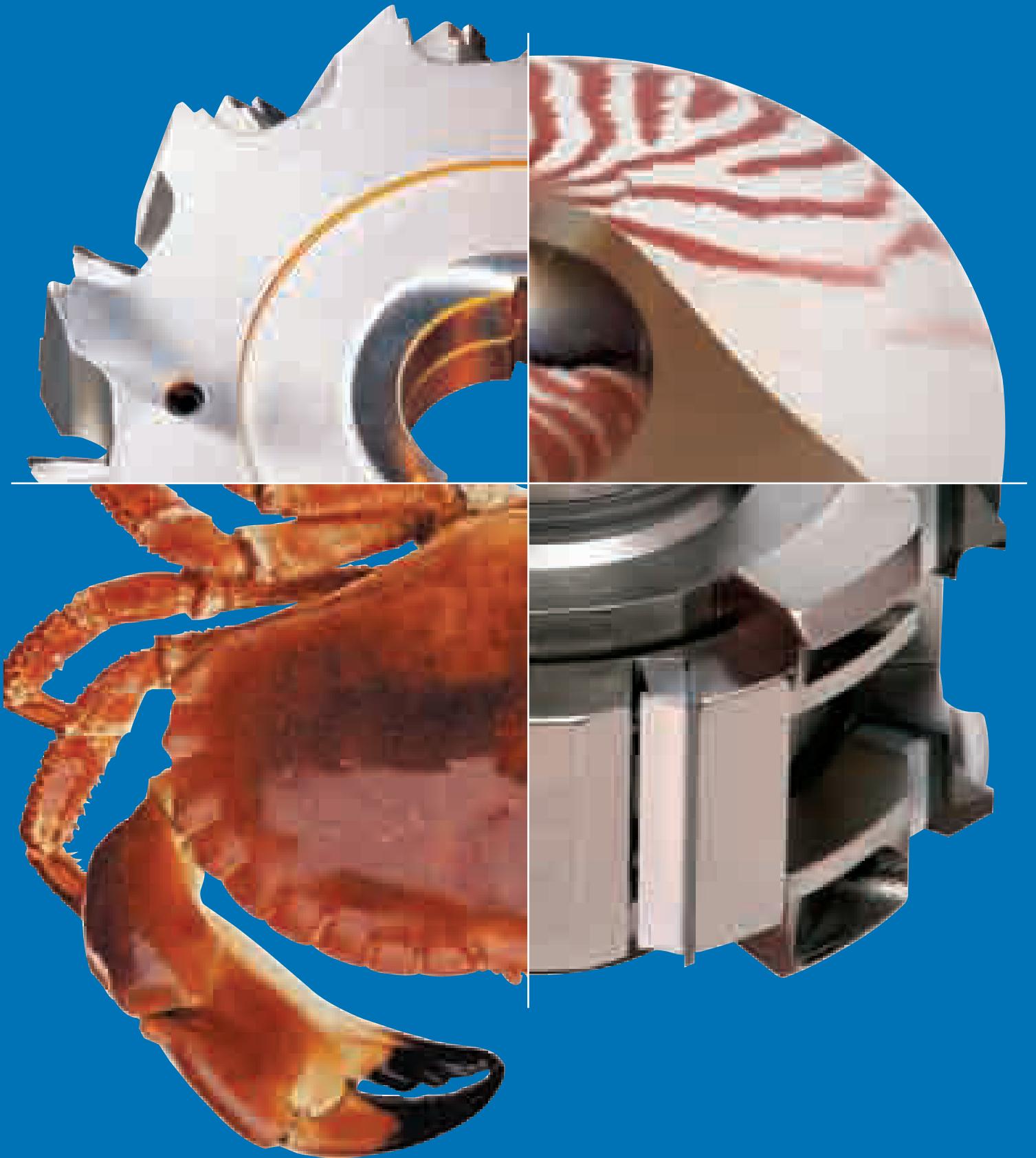
2011

Evolved Experience



B&P
GLI UTENSILI DEL LEGNO

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Introduzione

Introduction

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Profilo aziendale

Profilo aziendale

Company profile



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.

Company profile

The history of BSP starts over 30 years ago in Pesaro, renowned 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 enviable 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)

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

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

dove:

D = diametro dell'utensile

n = numero di giri

Z = numero dei taglienti

Vf = velocità di avanzamento

Fz = avanzamento per tagliente (vedi Fig.1)

Vc = 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)

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

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

where:

D = tool diameter

n = number of revolutions

Z = number of teeth

Vf = feed rate

Fz = tooth advance (see Fig.1)

Vc = 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.

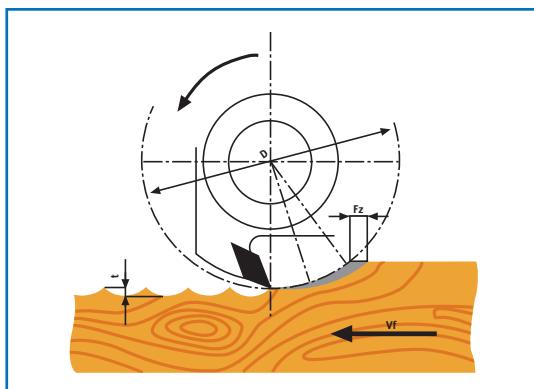


Fig.1

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”**

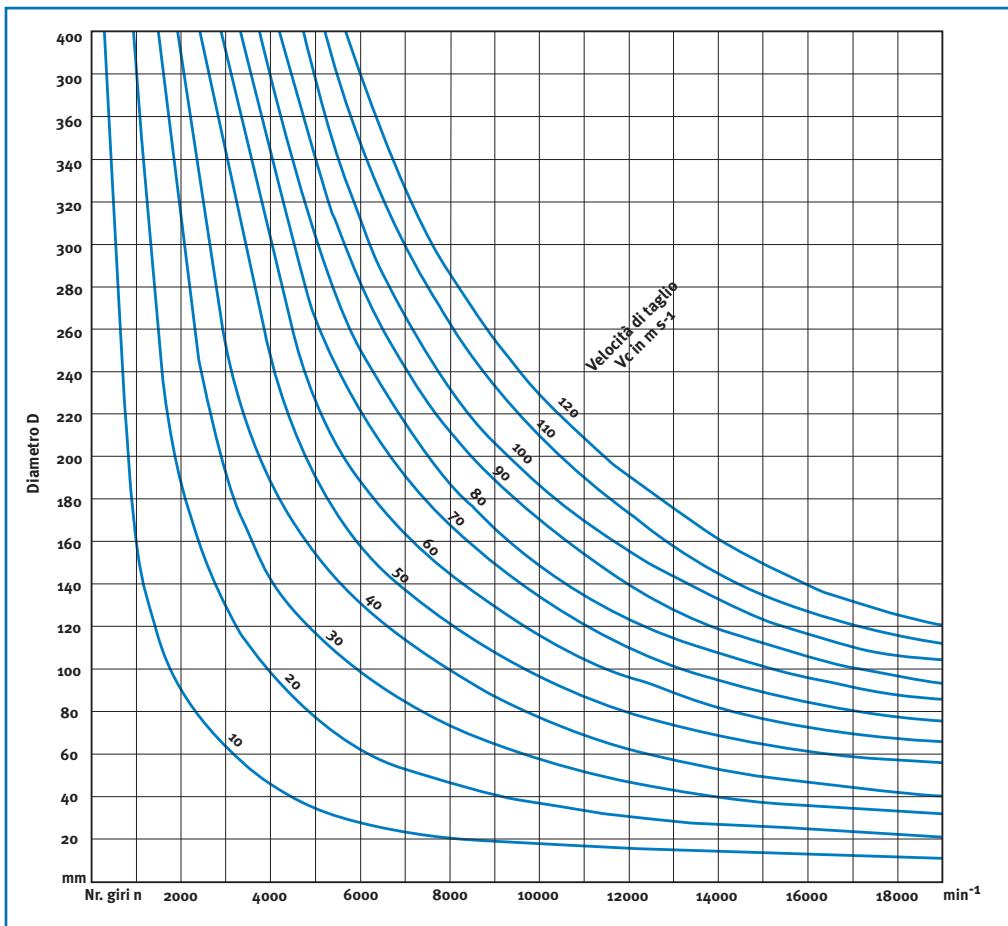


Diagramma A

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.

Valori indicativi per le velocità di taglio

Materiale	Frese	Frese	Lame
Legni teneri	HSS [m/s]	HM [m/s]	HW [m/s]
Legni duri	50ff180	60ff190	70ff1100
Truciolari	40ff160	50ff180	70ff190
Multistrati	-	60ff180	60ff180
Multistrati duri	-	60ff180	60ff180
Truciolari con rivestimento plastico	-	40ff160	60ff120

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.

Esempi:

1. Teste portacolletti $D = 140\text{mm}$, $n = 1000\text{o.giri/min}$ ‘ $V_c = 74\text{m/s}$
2. Frese $D = 120\text{mm}$ $V_c = 80\text{m/s}$ ‘ $n = 1250\text{o.giri/min}$
3. Frese per pantografo $n = 1800\text{o.giri/min}$ $V_c = 50\text{m/s}$ ‘ $D = 58\text{mm}$

Examples:

1. Cutterheads $D = 140\text{mm}$, $n = 1000\text{o.p.m.}$ ‘ $V_c = 74\text{m/s}$
2. Cutters $D = 120\text{mm}$, $V_c = 80\text{m/s}$ ‘ $n = 1250\text{o.p.m.}$
3. Routing disc cutters $n = 1800\text{o.p.m.}$ $V_c = 50\text{m/s}$ ‘ $D = 58\text{mm}$



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

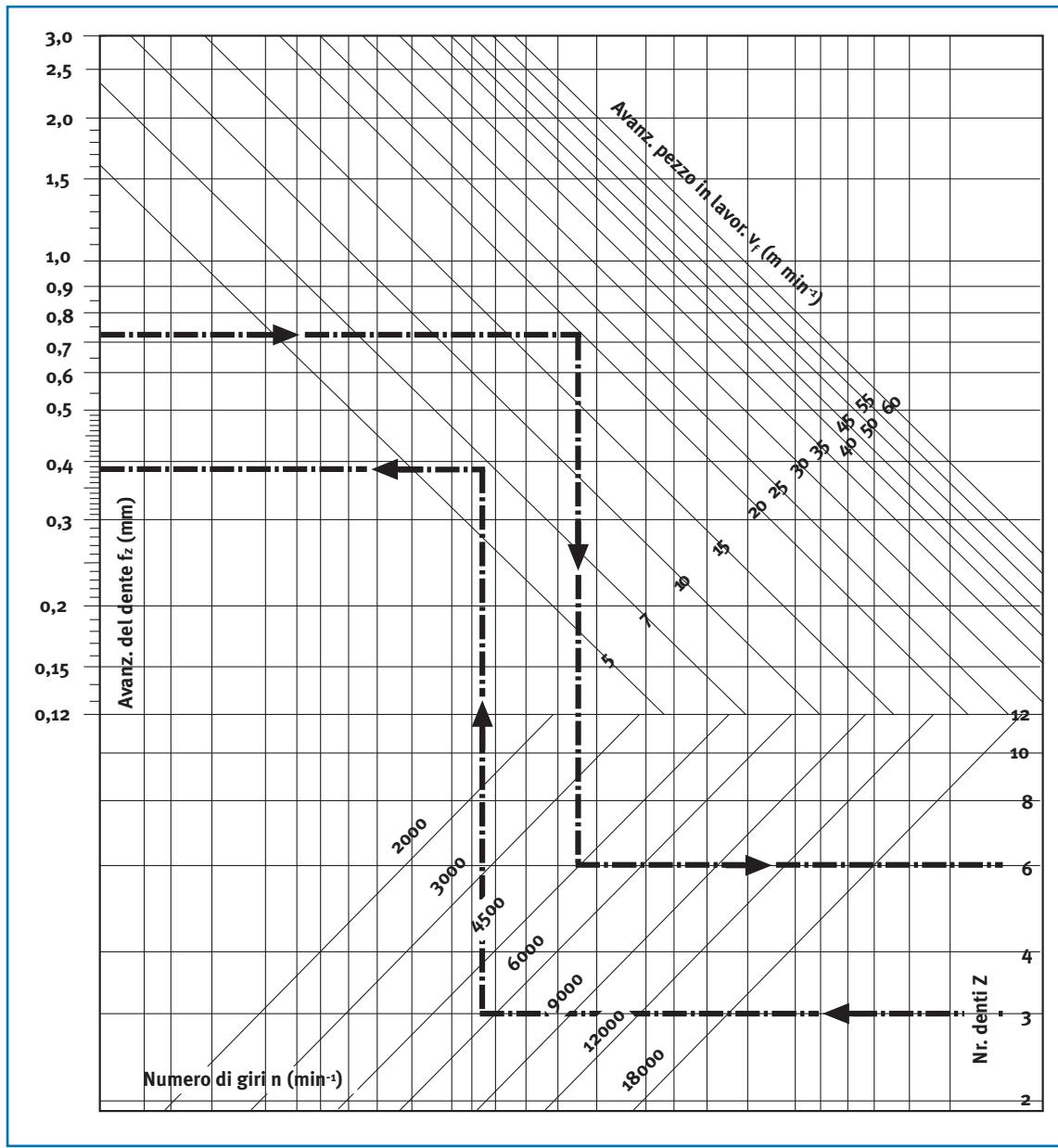


Diagramma B

Esempi:

- 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.
- 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:

- 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.
- 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

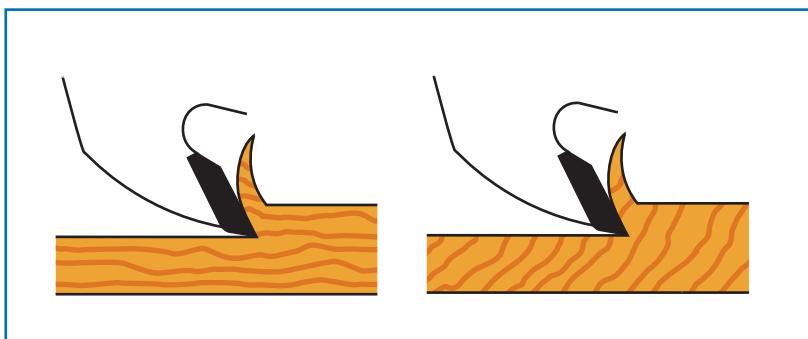


Fig. 2

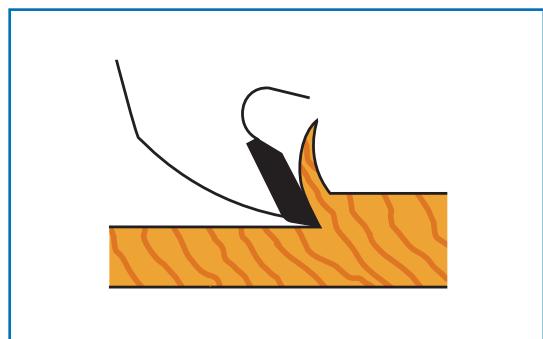


Fig. 3

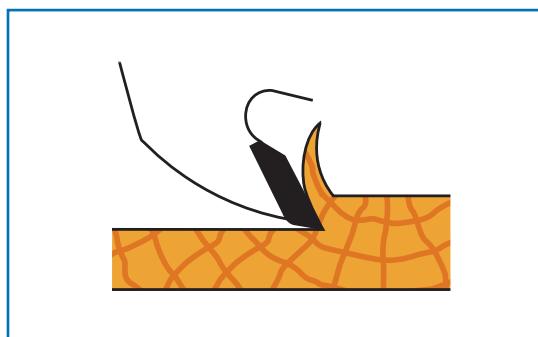


Fig. 4

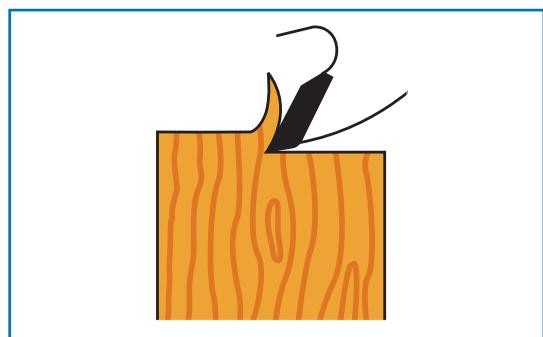


Fig. 5

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 peggio 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

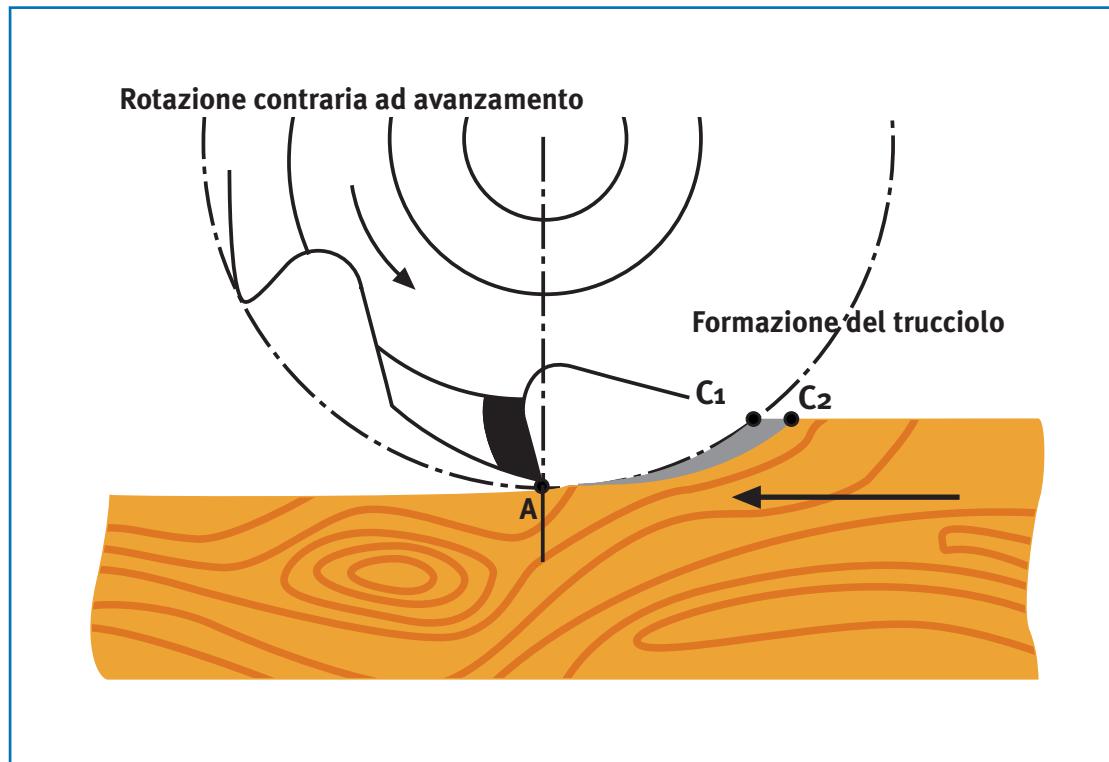


Fig. 6

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 0 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.

Asportazione del Truciolo Removal of Shavings

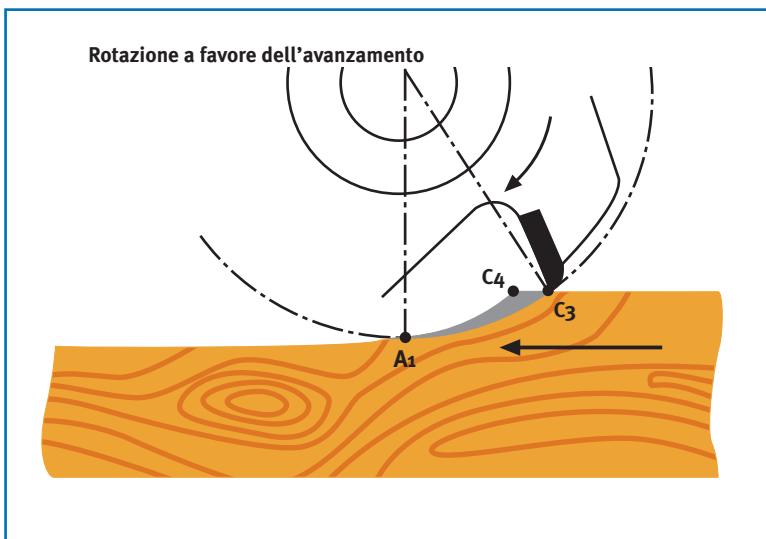


Fig. 7

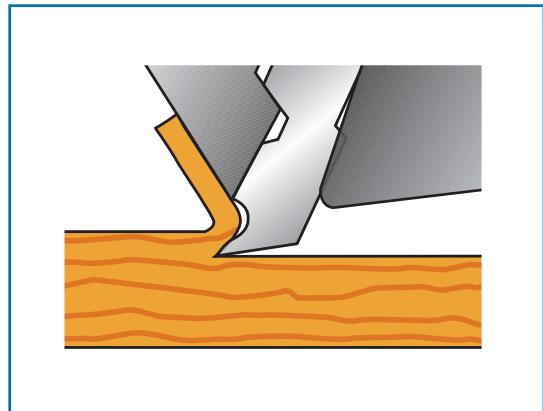


Fig. 8

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.

2. ROTATION WITH THE FEED DIRECTION – Fig. 7

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.

Sicurezza

Safety

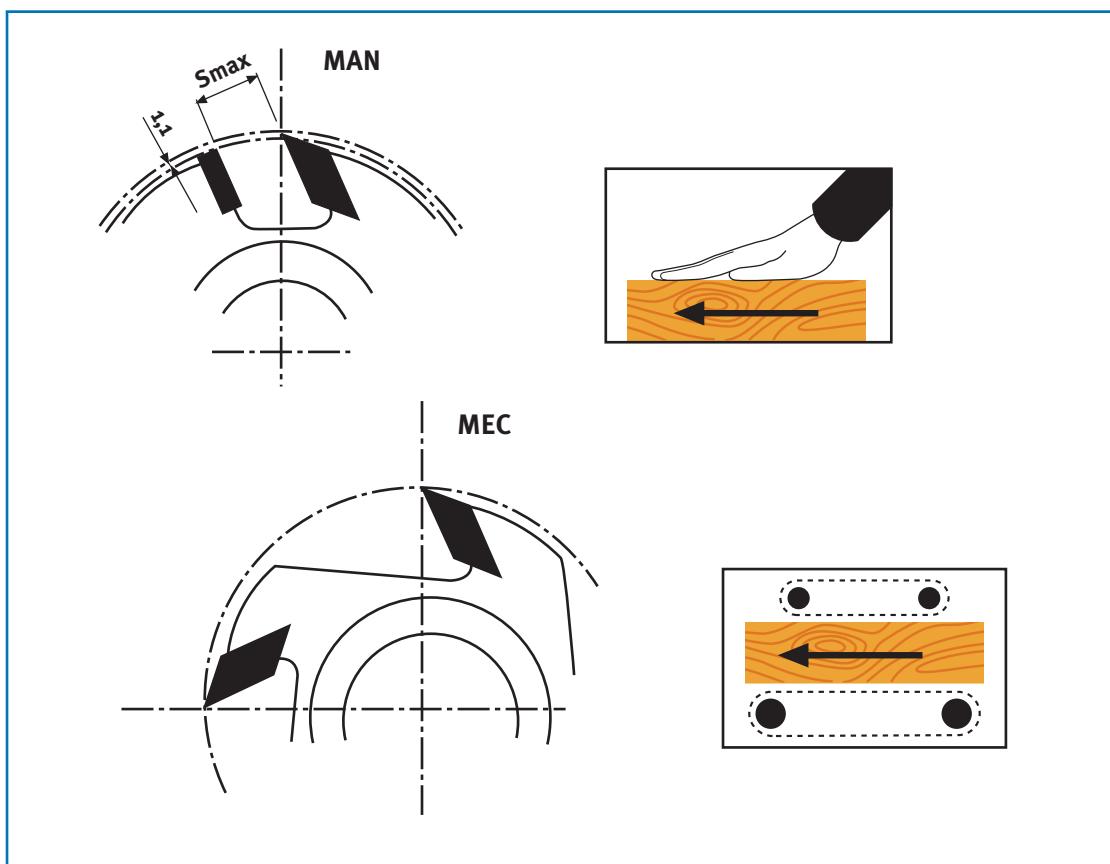


Fig. 9

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:

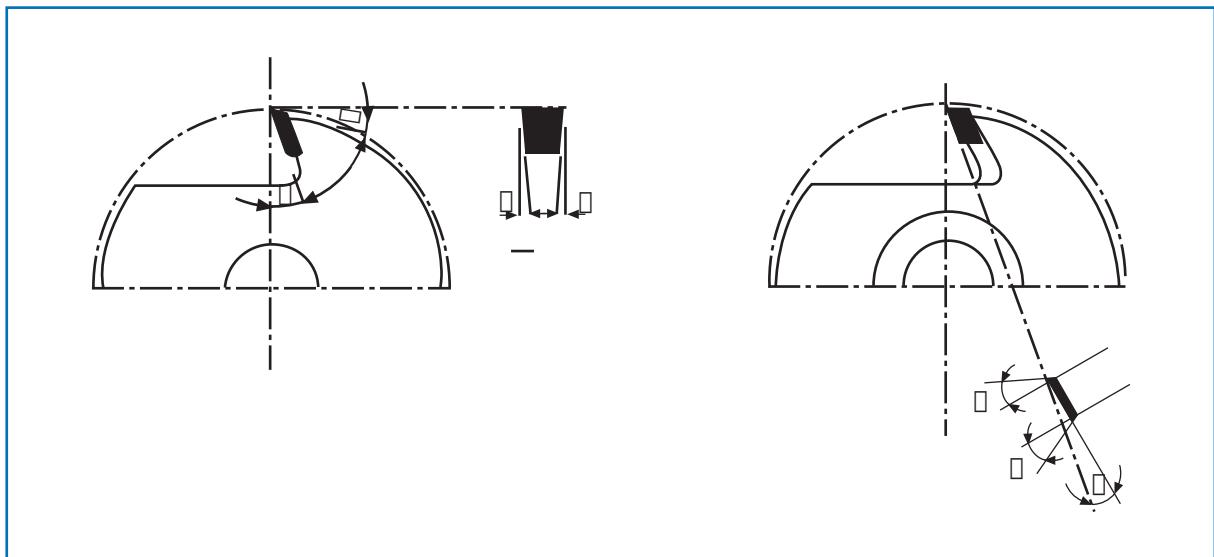
- tools to be used with manual feed systems (Fig. 9)
- tools to be used with mechanical feed systems (Fig. 10)

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 che la 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)

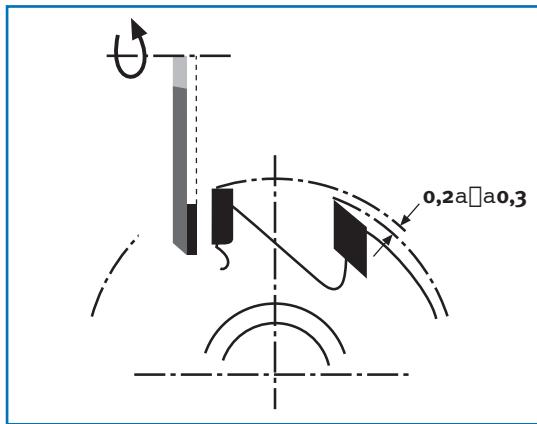


Fig. 11

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)

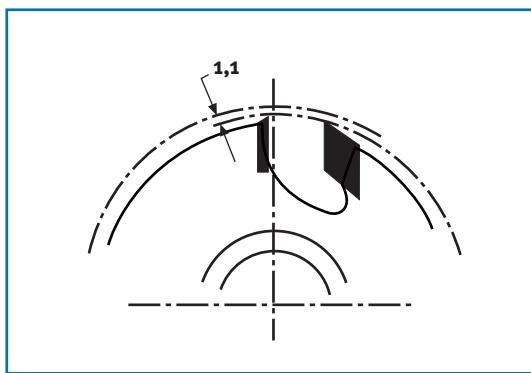


Fig. 12

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 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).

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).

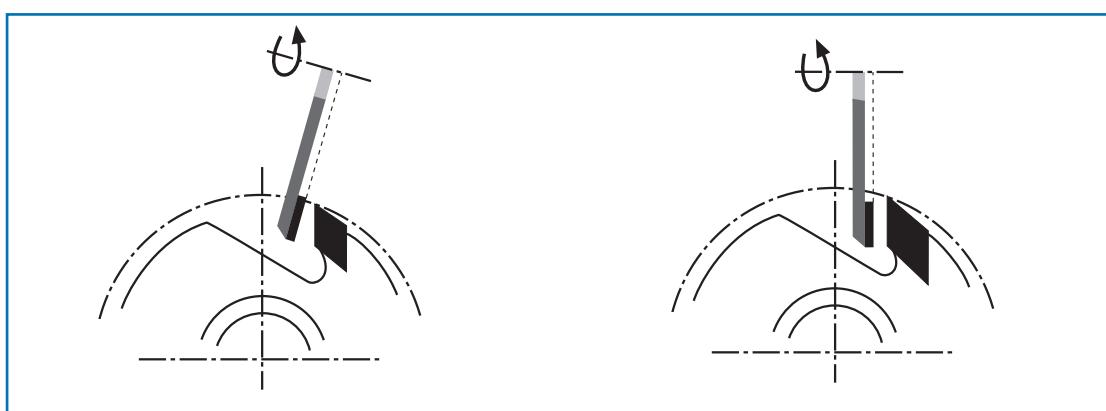
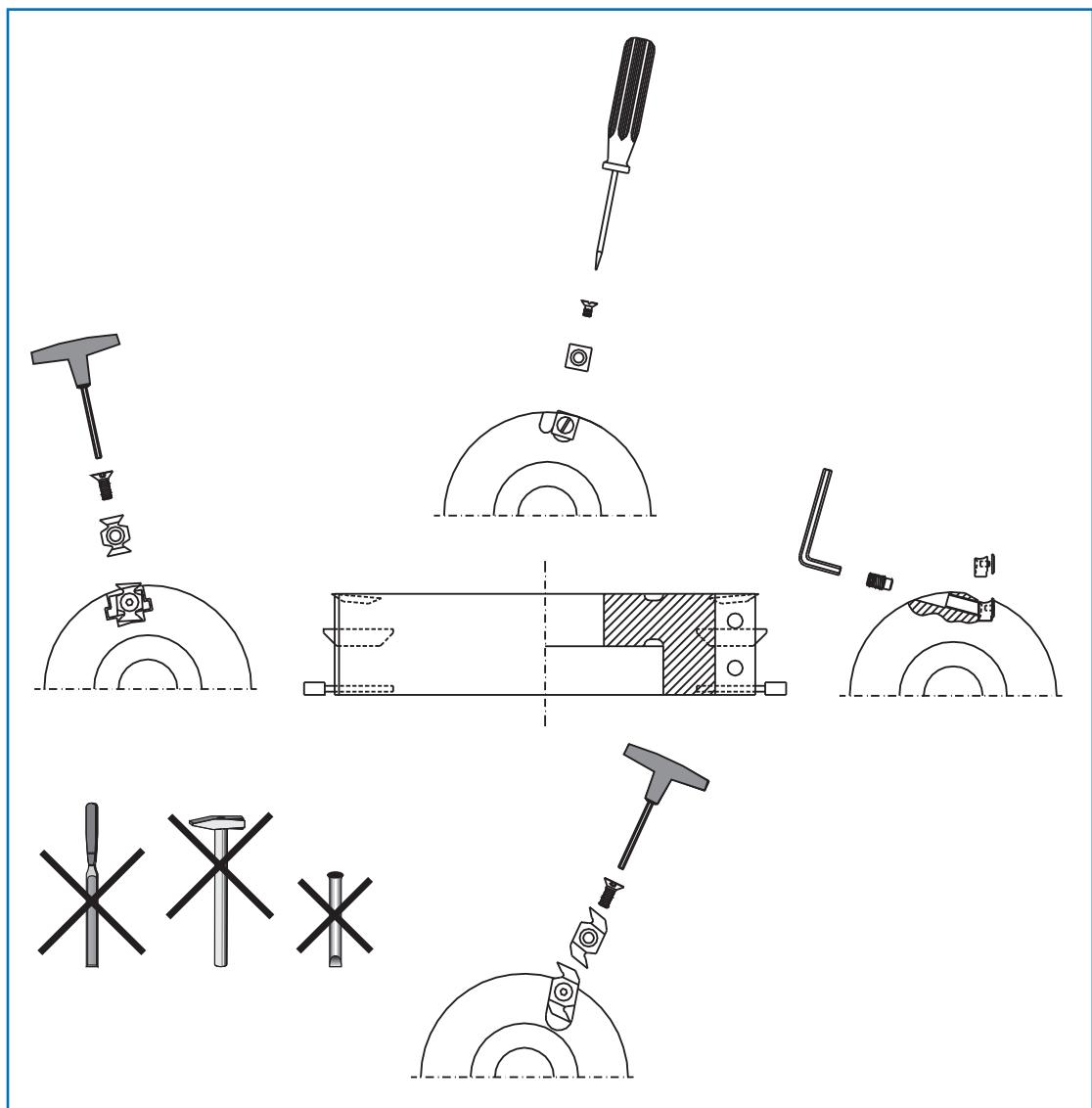


Fig. 13

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 rettificate 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

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

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	-	-	-	-	-	-	-	-	-	-	-	-

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

6	12	24	36	48	60	72	80	96	120	Cz (mm)	
										0,03 +	0,06
3.000	1.500	—	—	—	—	—	—	—	—	0,5 ÷	1,1
4.000	2.000	1.000	—	—	—	—	—	—	—	0,7 ÷	1,4
5.000	2.500	—	—	—	—	—	—	—	—	0,9 ÷	1,8
6.000	3.000	1.500	1.000	—	—	—	—	—	—	1,1 ÷	2,2
7.000	3.500	—	—	—	—	—	—	—	—	1,3 ÷	2,5
8.000	4.000	2.000	—	1.000	—	—	—	—	—	1,4 ÷	2,9
9.000	4.500	—	1.500	—	—	—	—	—	—	1,6 ÷	3,2
10.000	5.000	2.500	—	—	1.000	—	—	—	—	1,8 ÷	3,6
12.000	6.000	3.000	2.000	1.500	—	1.000	—	—	—	2,2 ÷	4,3
—	—	—	—	—	—	—	1.000	—	—	2,4 ÷	4,8
14.000	7.000	3.500	—	—	—	—	—	—	—	2,5 ÷	5
—	—	—	2.500	—	1.500	—	—	—	—	2,7 ÷	5,4
16.000	8.000	4.000	—	2.000	—	—	—	1.000	—	2,9 ÷	5,8
18.000	9.000	4.500	3.000	—	—	1.500	—	—	—	3,2 ÷	6,5
—	10.000	5.000	—	2.500	2.000	—	1.500	—	1.000	3,6 ÷	7,2
—	—	—	3.500	—	—	—	—	—	—	3,8 ÷	7,6
—	12.000	6.000	4.000	3.000	—	2.000	—	1.500	—	4,3 ÷	8,6
—	—	—	—	—	2.500	—	—	—	—	4,5 ÷	9
—	—	—	—	4.500	—	—	—	—	—	4,8 ÷	9,1
—	14.000	7.000	—	3.500	—	—	—	—	—	4,9 ÷	9,7
—	—	—	5.000	—	3.000	2.500	—	—	1.500	5 ÷	10,1
—	16.000	8.000	—	4.000	—	—	2.000	—	—	5,4 ÷	10,8
—	—	—	—	—	3.500	—	2.500	—	—	5,8 ÷	11,5
—	—	—	—	—	—	—	—	—	—	6 ÷	10
—	—	—	—	—	—	2.000	—	—	—	6,3 ÷	10,6
—	18.000	9.000	6.000	4.500	—	3.000	—	—	—	6,5 ÷	13
—	—	10.000	—	5.000	4.000	—	3.000	2.500	2.000	7,2 ÷	14,4
—	—	—	7.000	—	—	3.500	—	—	—	7,6 ÷	15,1
—	—	—	—	—	4.500	—	—	—	—	8,1 ÷	16,2
—	—	—	—	—	—	3.500	—	—	—	8,4 ÷	16,828 ÷ 56
—	—	12.000	8.000	6.000	—	4.000	—	3.000	—	8,6 ÷	17,3
—	—	—	—	—	5.000	—	—	—	2.500	9 ÷	18
—	—	—	—	—	—	—	4.000	—	—	9,6 ÷	19,2
—	—	—	9.000	—	—	4.500	—	—	—	9,7 ÷	19,4
—	—	14.000	—	7.000	—	—	—	3.500	—	10,1 ÷	20,2
—	—	—	10.000	—	6.000	5.000	4.500	—	3.000	10,8 ÷	21,6

Tabella C

$$n \text{ (g/min)} \quad vf \text{ (m/min)}$$

$$Vf = (Z \times n \times Cz) : 1000$$

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.

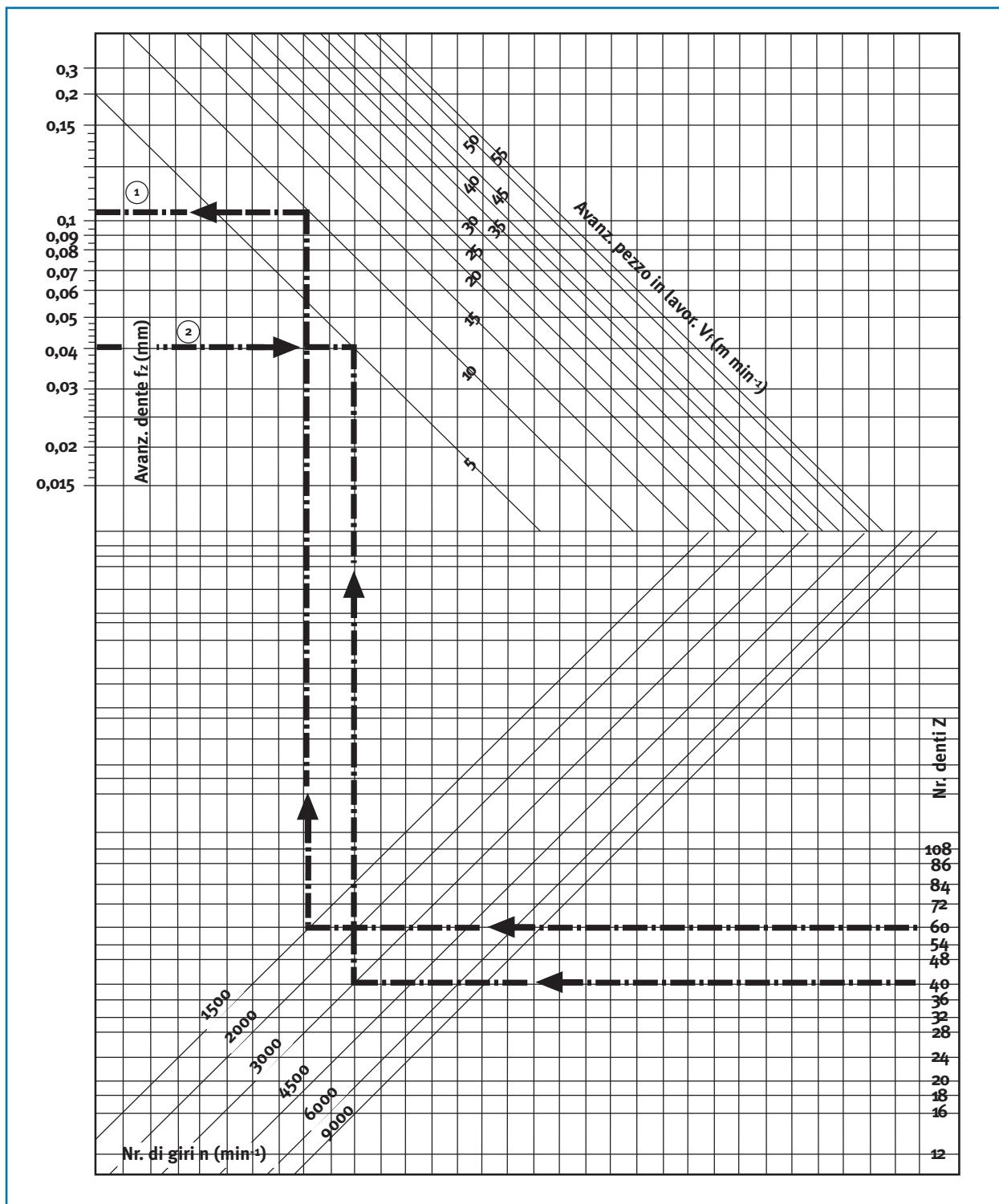
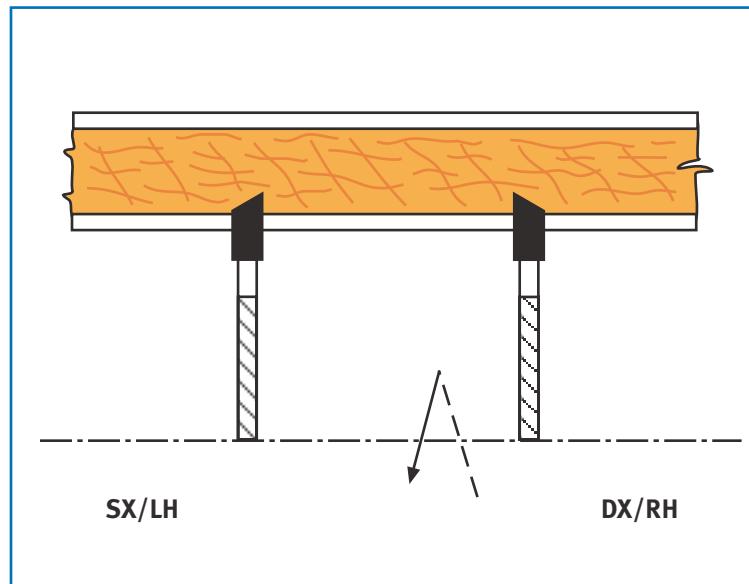
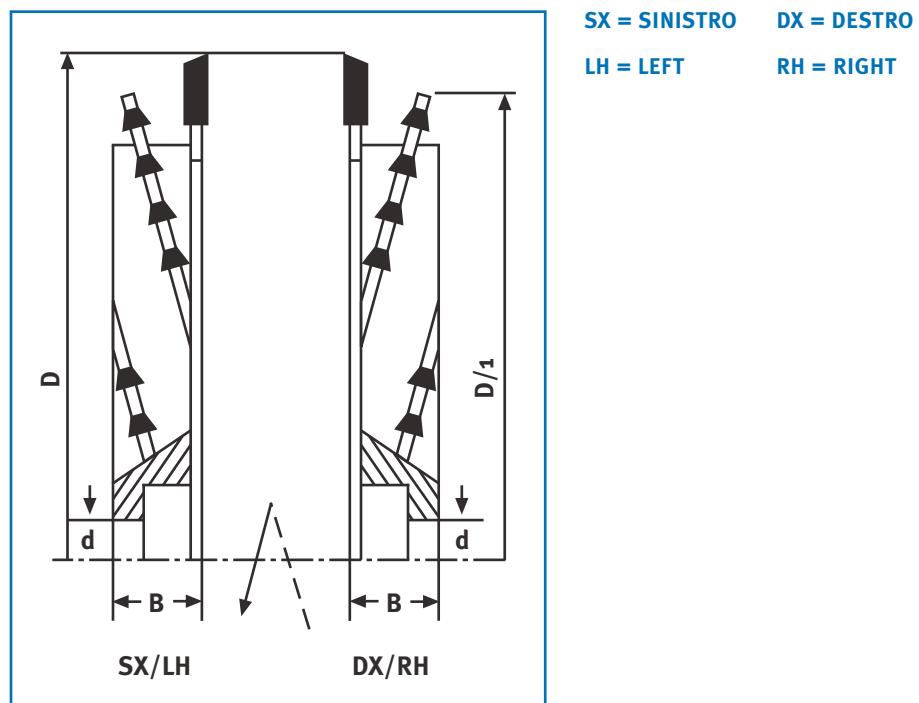


Diagramma C

Come Determinare il Senso di Rotazione di una Lama

How to Determine the Rotational Direction of a Blade

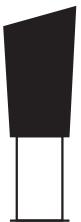


Tipi di Affilatura

Type of Sharpening



Alternato
Alternate



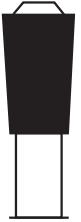
Sinistro
Left



Destro
Right



Piano
Flat



Trapezoidale/Pieno
Trapezoidal/Falt



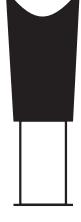
Alternato/Sbozzatore
Alternate/Trapez-Flat



Cupside
Inverted V



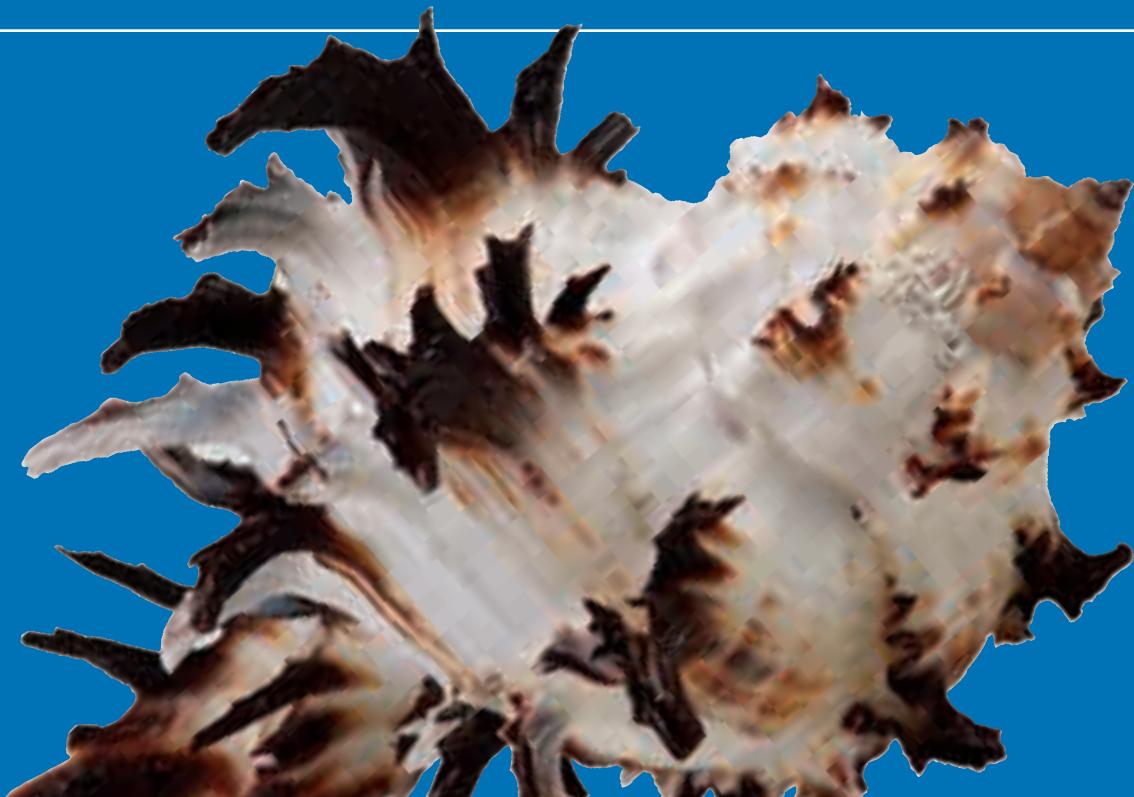
Conico
Conical



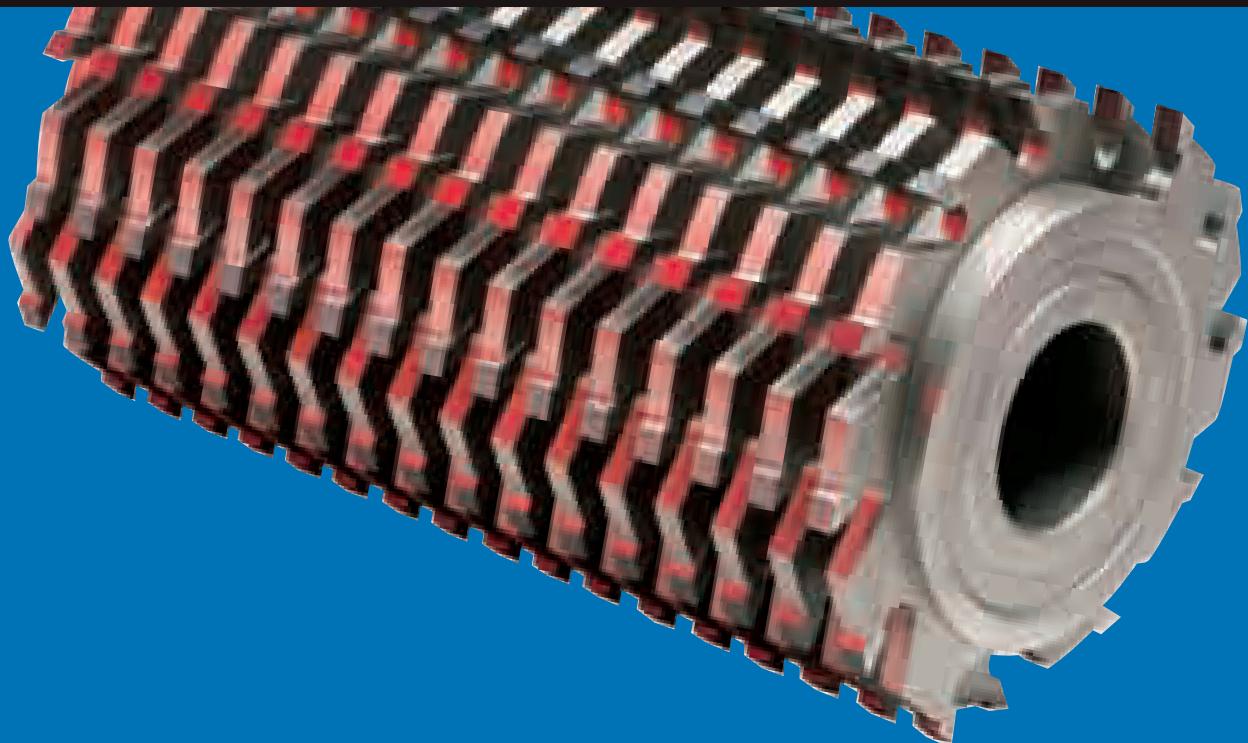
Concavo
Inverted V – Hollow



Sbozzatore
Trapez-Flat



Evolved**Experience**



Frese Saldobrasate Braze Welded Cutters

Frese Saldobrasate Braze Welded Cutters

1



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

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



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

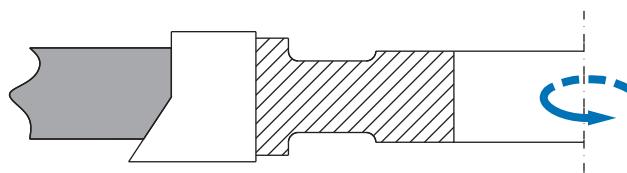
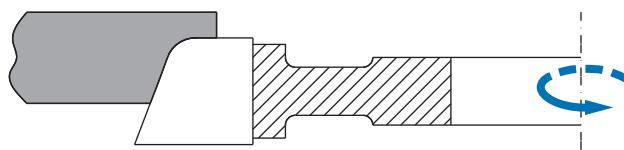
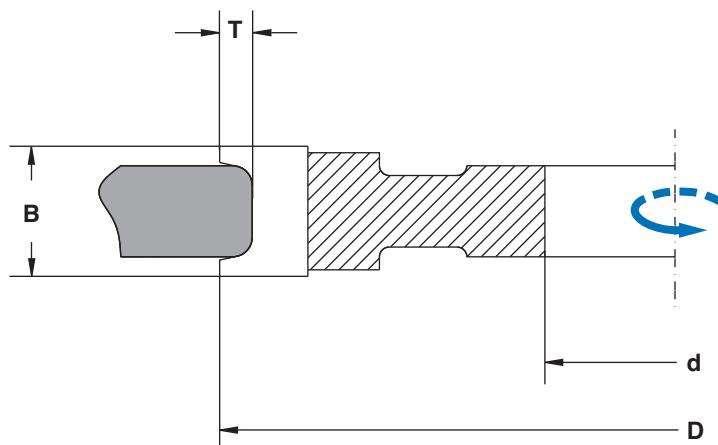
Profiled cutter HM or HSS according to different working needs:
 HM execution for abrasive, soft, hard, MDF,
 glued woods, plywood and chipboard;
 HSS for soft and hard not-glued woods.
 Straight or shear cutting angles according to profile.

ESEMPI DI PROFILI SEMPLICI

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.



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

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



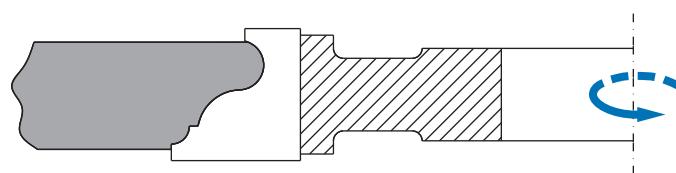
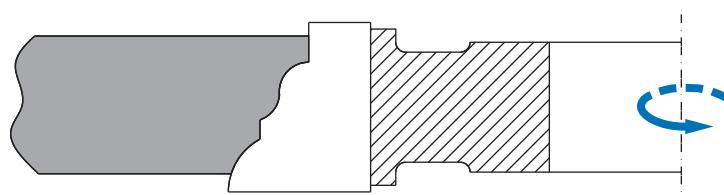
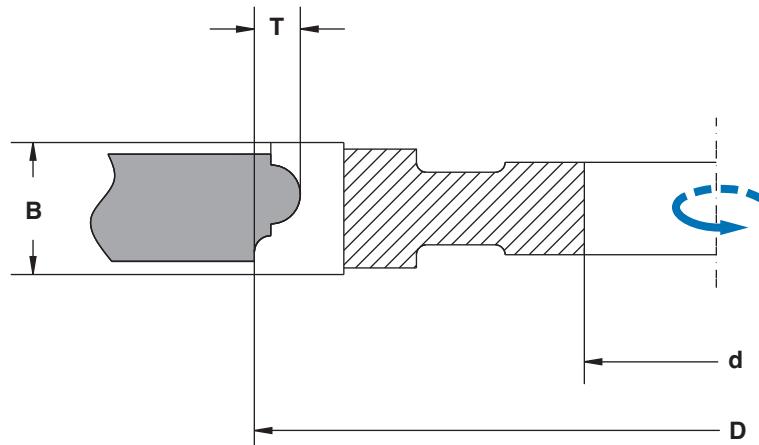
Caratteristiche

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,
 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



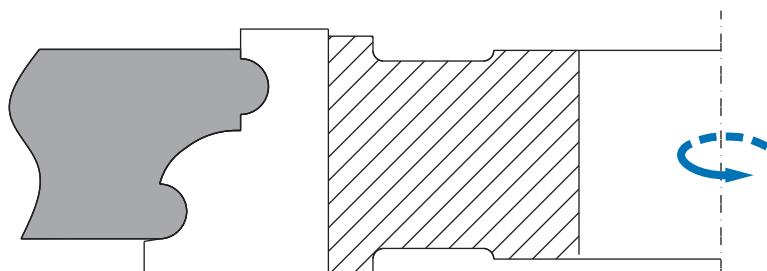
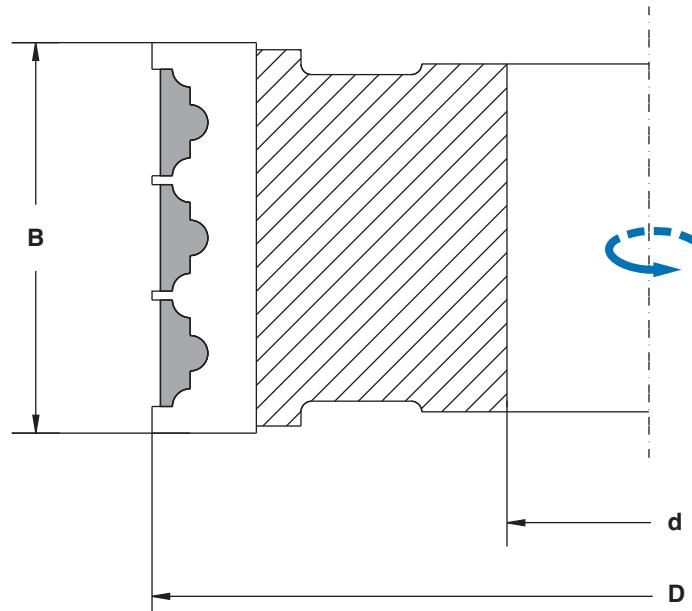
ESEMPI DI PROFILI SPECIALI

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.



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

Per frese Z3 sconto 10%

Per frese Z6 aumento 20%

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

For cutters Z3 discount 10%

For cutters Z6 increase 20%

1004

Frese concave per quarti di tondo Z4.
Concave cutters for quarter circles Z4.
 Fraise 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	1004001	1004002
140	21,5	7,5	30	50	9400	1004003	1004004
140	24	10	30	50	9400	1004005	1004006
140	26,5	12,5	30	50	9400	1004007	1004008
140	29	15	30	50	9400	1004009	1004010
140	35	20	30	50	9400	1004011	1004012
160	40	25	30	50	8500	1004013	1004014
160	46	30	30	50	8500	1004015	1004016
180	54	35	30	50	7800	1004017	1004018
180	56	40	30	50	7800	1004019	1004020

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.

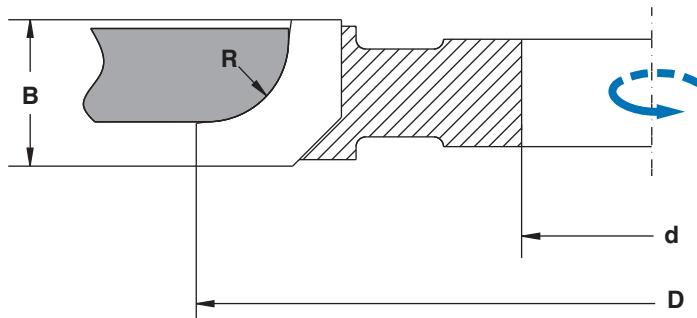
Characteristics

Execution in HM or HSS:

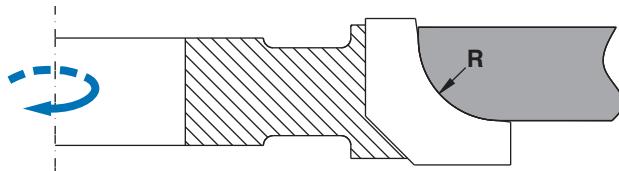
HM execution for abrasive, soft, hard, glued woods, MDF, plywood and chipboard;

HSS for soft and hard not-glued woods.

DX



SX



Frese concave per mezzi-tondi Z4.

Concave cutters for semi-circles Z4.

Fraises concaves pour demi-rond Z4.

Halbstabfräser Z4.

Fresas cóncavas para barras semicirculares Z4.

1005

D	B	R	d	d/max	rpm	ID nr.
140	30	5	30	50	9400	1005001
140	30	6	30	50	9400	1005002
140	35	7,5	30	50	9400	1005003
140	40	10	30	50	9400	1005004
140	45	12,5	30	50	9400	1005005
140	50	15	30	50	9400	1005006
140	62	20	30	50	9400	1005007
160	72	25	30	50	8500	1005008
160	77	30	30	50	8500	1005009



MAN



Caratteristiche

Esecuzione in HM o HSS:

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

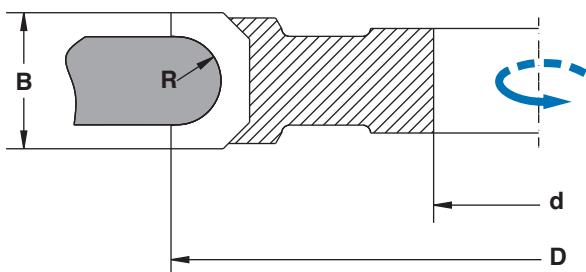
HSS per legni teneri e duri non incollati.

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	1006001	1006002
140	13	7,5	30	50	9400	1006003	1006004
140	15	10	30	50	9400	1006005	1006006
140	18	12,5	30	50	9400	1006007	1006008
140	20	15	30	50	9400	1006009	1006010
140	22	18	30	50	9400	1006011	1006012
140	25	20	30	50	9400	1006013	1006014
160	30	25	30	50	8500	1006015	1006016
160	35	30	30	50	8500	1006017	1006018

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.

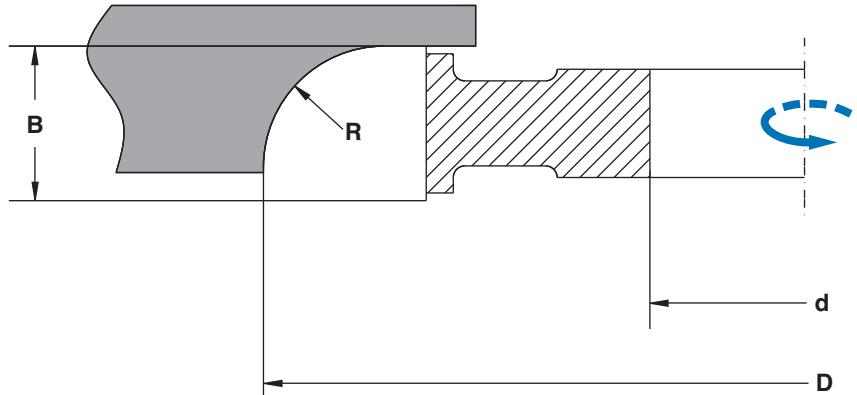
Characteristics

Execution in HM or HSS:

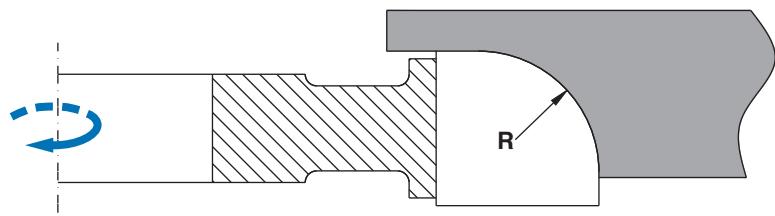
HM execution for abrasive, soft, hard, glued woods, MDF, plywood and chipboard;

HSS for soft and hard not-glued woods.

DX



SX



Frese 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	1007001
140	12	6	30	50	9400	1007002
140	15	7,5	30	50	9400	1007003
140	20	10	30	50	9400	1007004
140	25	12,5	30	50	9400	1007005
140	30	15	30	50	9400	1007006
140	40	20	30	50	9400	1007007
160	50	25	30	50	8500	1007008
160	60	30	30	50	8500	1007009



MAN



Caratteristiche

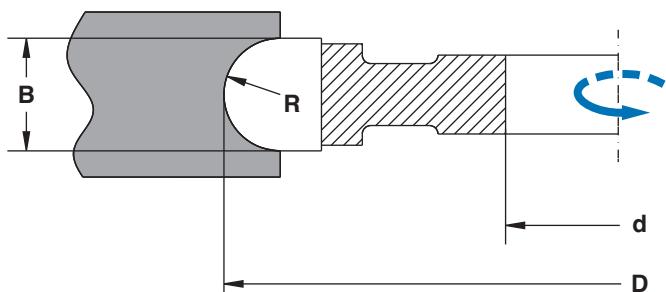
Esecuzione in HM o HSS:

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

Fresa sagomata multiprofilo.

Multiprofile cutter.

Fraise multiprofil.

Top-profiler.

Fresa moldurada para perfiles múltiples.



MAN



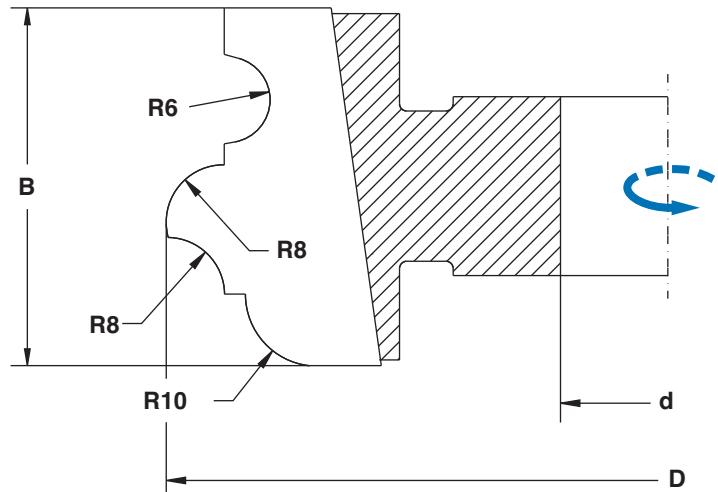
Caratteristiche

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

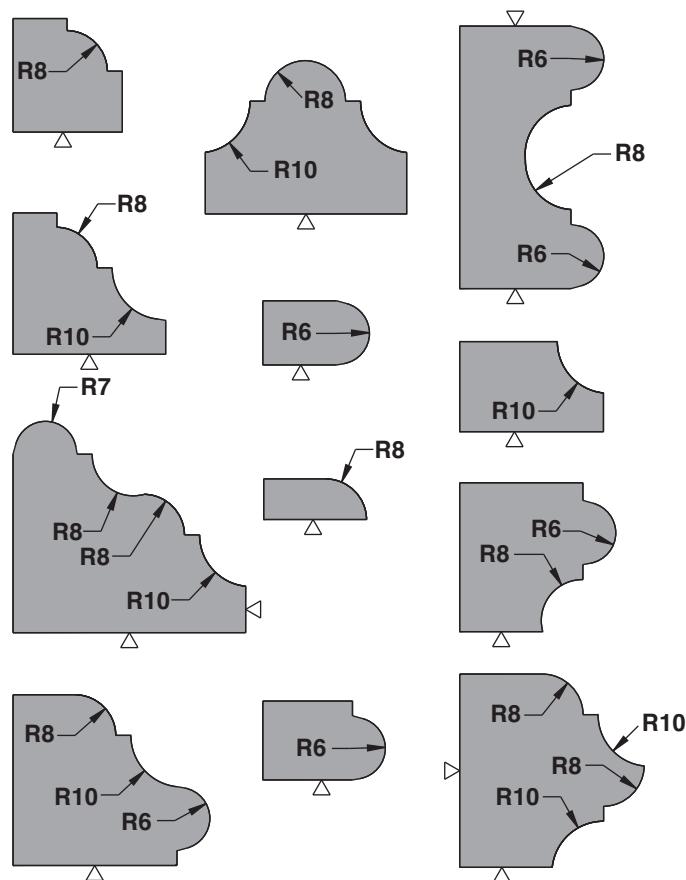
Characteristics

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

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



ESEMPI DI PROFILI ESEGUITIBILI



Frese per giunzioni regolabili Z3+3.

Adjustable cutters for joints Z3+3.

Fraises pour jonctions réglables Z3+3.

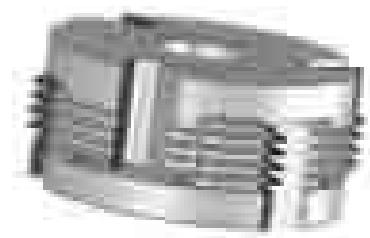
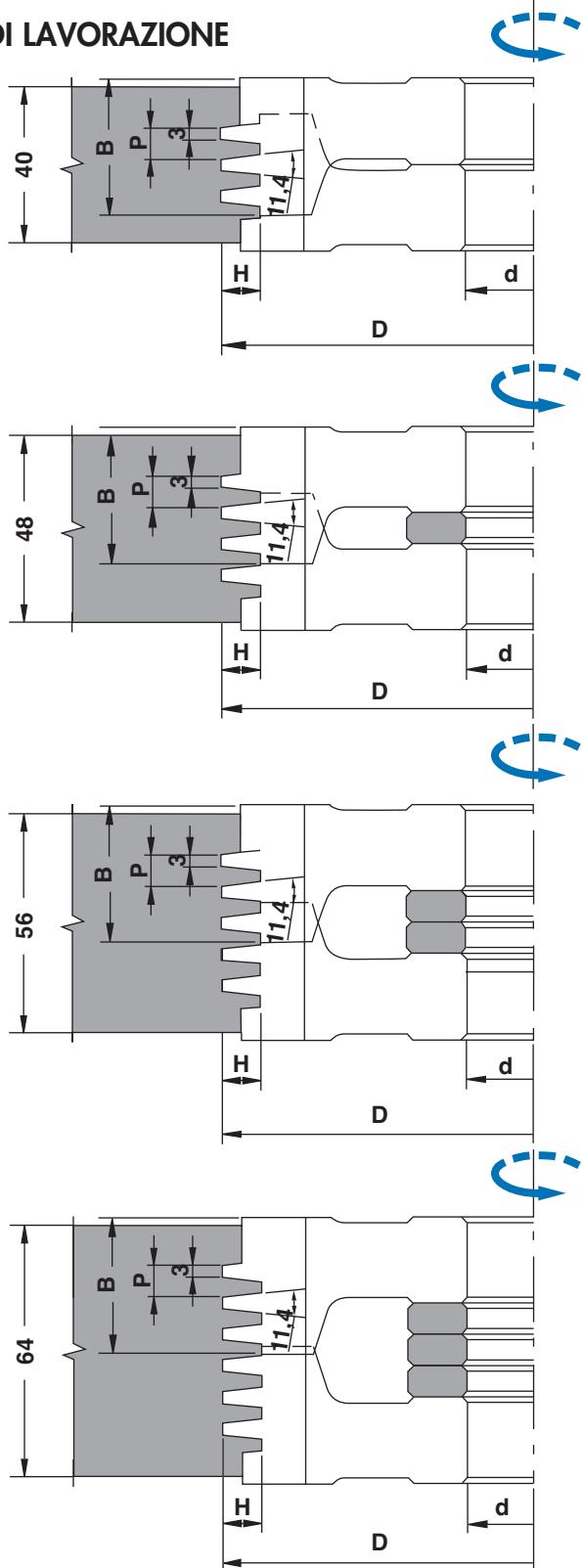
Verstellbarer Fräser für Nute und Fugen Z3+3.

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	1020051

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



MAN



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.

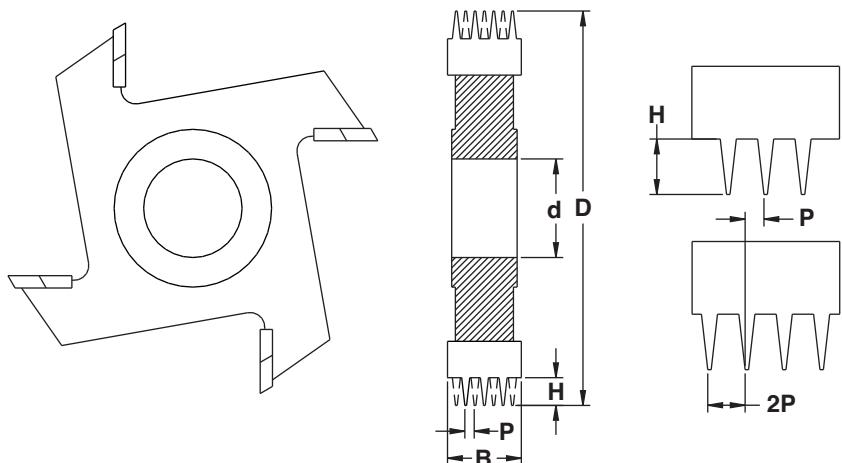
In this way the empty spaces between the connections can be changed for different kind of woods to carve.

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.

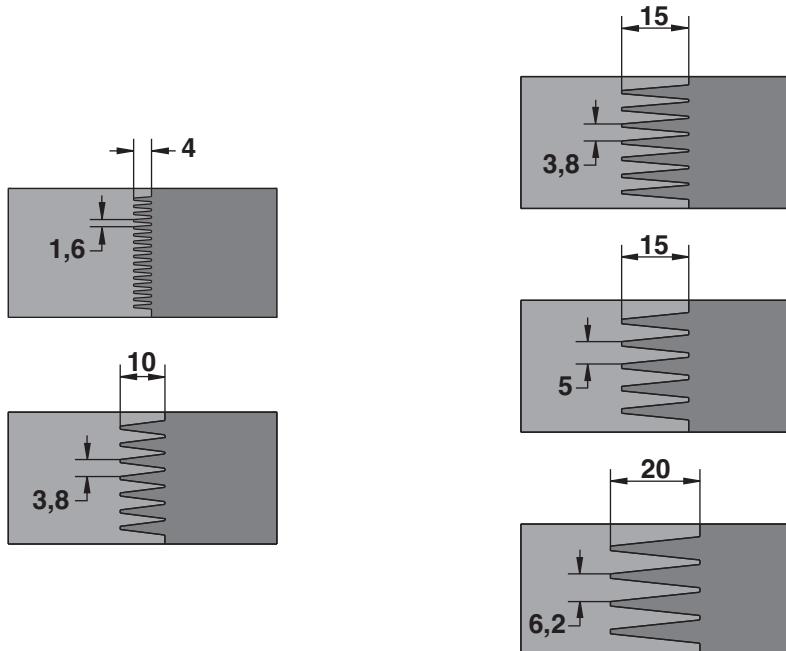
D	B	d	d/max	P	H	rpm	ID nr.
160*	26	30	50	1,6	4	8200	1022001
160*	28,6	30	50	3,8	10-10/11	8200	1022002
160*	36,2	30	50	3,8	10-10/11	8200	1022006
170	28,6	30	50	3,8	15-15/16,5	7200	1022003
170	36,2	30	50	3,8	15-15/16,5	7200	1022007
170*	42	30	50	5	15-15/16,5	7200	1022004
180	33	30	50	6,2	20-20/22	7000	1022005
180	45,4	30	50	6,2	20-20/22	7000	1022008
250*	28,6	30	50	3,8	10-10/11	6000	1022009
250*	36,2	30	50	3,8	10-10/11	6000	1022010
260	28,6	30	50	3,8	15-15/16,5	5800	1022011
260	33	30	50	6,2	20-20/22	5800	1022012
260	36,2	30	50	3,8	15-15/16,5	5800	1022013
260	45,4	30	50	6,2	20-20/22	5800	1022014

*Esecuzione in HM su richiesta

*Execution in HM on request



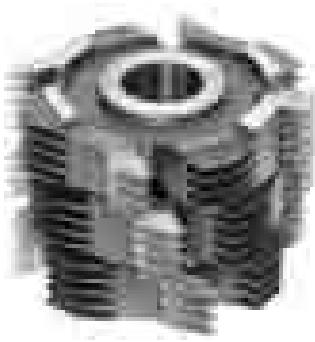
PROFILI ESEGUIBILI



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.

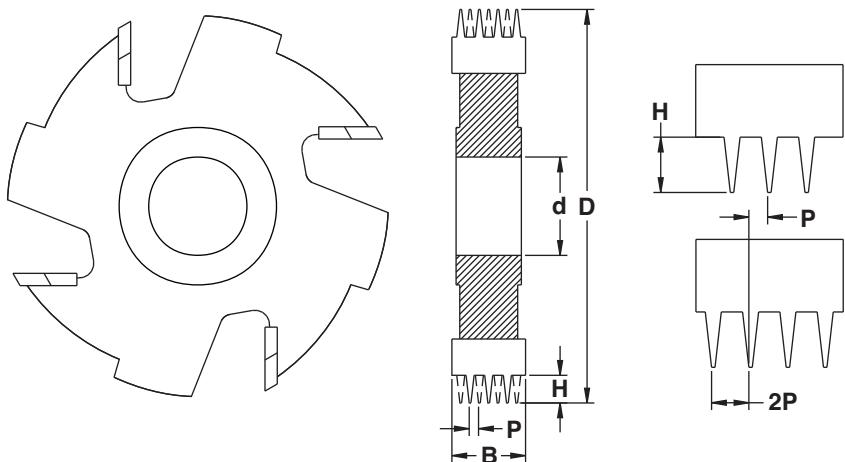
Fräser MINIZINKEN Z2+2 mit Zuschneid.

Fresas MINIZINKEN Z2+2 con limitación de virutas para el avance manual.

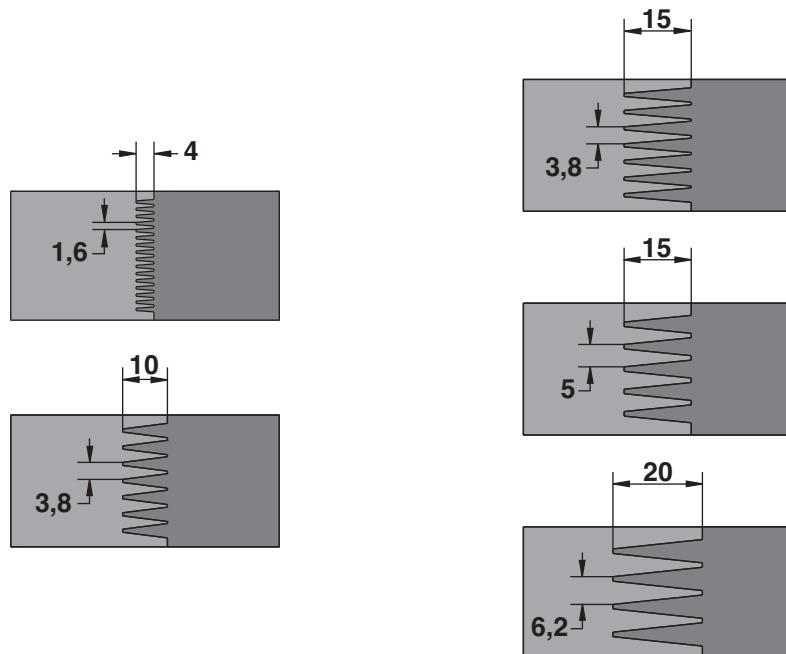
D	B	d	d/max	P	H	rpm	ID nr.
160*	26	30	50	1,6	4	8200	1023003
160*	28,6	30	50	3,8	10-10/11	8200	1023001
160*	36,2	30	50	3,8	10-10/11	8200	1023002
170	28,6	30	50	3,8	15-15/16,5	7200	1023004
170	36,2	30	50	3,8	15-15/16,5	7200	1023005
170*	42	30	50	5	15-15/16,5	7200	1023006
180	33	30	50	6,2	20-20/22	7000	1023007
180	45,4	30	50	6,2	20-20/22	7000	1023008
250*	28,6	30	50	3,8	10-10/11	6000	1023009
250*	36,2	30	50	3,8	10-10/11	6000	1023010
260	28,6	30	50	3,8	15-15/16,5	5800	1023011
260	33	30	50	6,2	20-20/22	5800	1023012
260	36,2	30	50	3,8	15-15/16,5	5800	1023013
260	45,4	30	50	6,2	20-20/22	5800	1023014

*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

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

MEC



*Esecuzione in HM su richiesta

*Execution in HM on request

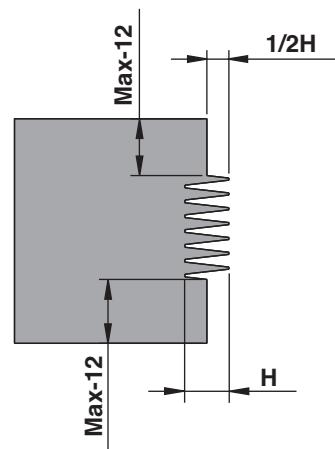
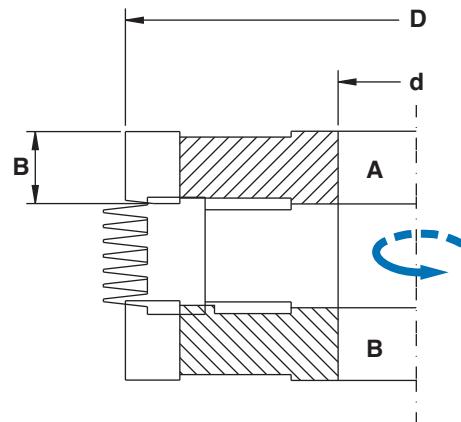
Caratteristiche

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

Characteristics

Joint cutter for working together with
MINIZINKEN cutters.

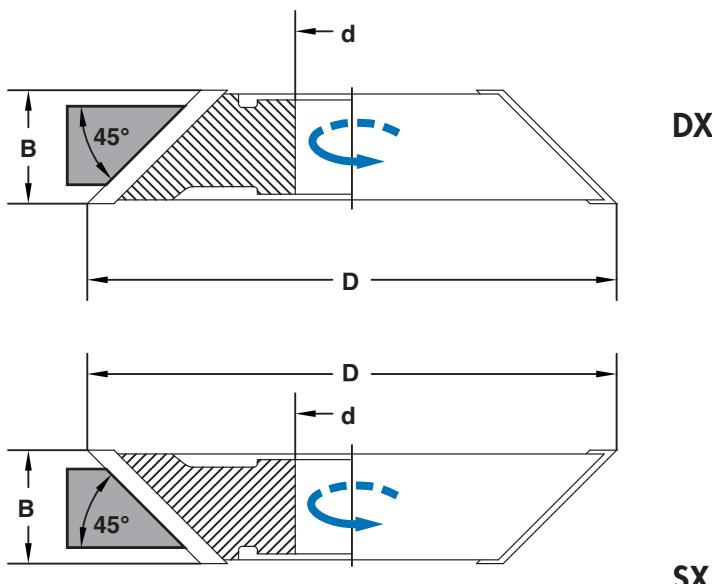
Suitable for soft and hardwoods.



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

1027

D	B	d	d/max	rpm	ID nr. DX	ID nr. SX
120	10	30	50	10500	1027101	1027102
120	15	30	50	10500	1027103	1027104
120	20	30	50	10500	1027105	1027106
140	10	30	50	9400	1027107	1027108
140	15	30	50	9400	1027109	1027110
140	20	30	50	9400	1027111	1027112
140	25	30	50	9400	1027113	1027114
140	30	30	50	9400	1027115	1027116
160	10	30	50	8500	1027117	1027118
160	15	30	50	8500	1027119	1027120
160	20	30	50	8500	1027121	1027122
160	25	30	50	8500	1027123	1027124
160	30	30	50	8500	1027125	1027126
160	35	30	50	8300	1027127	1027128
160	40	30	50	8300	1027129	1027130
180	10	30	50	7400	1027131	1027132
180	15	30	50	7400	1027133	1027134
180	20	30	50	7400	1027135	1027136
180	25	30	50	7400	1027137	1027138
180	30	30	50	7400	1027139	1027140
180	35	30	50	7400	1027141	1027142
180	40	30	50	7400	1027143	1027144
180	45	30	50	7400	1027145	1027146
180	50	30	50	7400	1027147	1027148



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, plywood and chipboard;

HSS for soft and hard not-glued woods.

1028

Frese per canali a spessore costante.
Grooving cutters with constant thickness.
Fraises à rainer avec épaisseur constant.
Nutfräser mit konstanter Stärke.
Fresas para ranuras a espesor constante.



D	B	d	d/max	Z	rpm	ID nr.
140	4	30	50	6	10500	1028001
140	6	30	50	6	10500	1028002
140	8	30	50	6	10500	1028003
140	10	30	50	6	10500	1028004
140	12	30	50	6	10500	1028005
140	14	30	50	6	10500	1028006
140	16	30	50	6	10500	1028007
140	18	30	50	6	10500	1028008
140	20	30	50	6	10500	1028009

MEC			
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Caratteristiche

Esecuzione in HM o HSS:

HM per legni esotici, incollati e truciolari;
 HSS per legni teneri e duri non incollati.

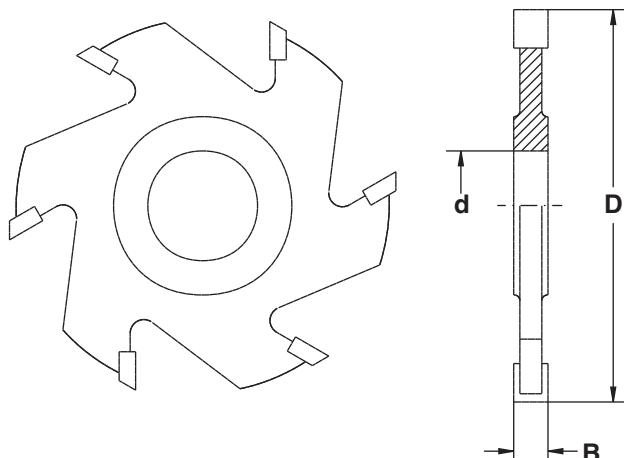
Characteristics

Execution in HM or HSS:

HM for glued woods, exotics and chipboard;
 HSS for soft and hardwoods not glued.

160	4	30	50	6	9500	1028021
160	6	30	50	6	9500	1028022
160	8	30	50	6	9500	1028023
160	10	30	50	6	9500	1028024
160	12	30	50	6	9500	1028025
160	14	30	50	6	9500	1028026
160	16	30	50	6	9500	1028027
160	18	30	50	6	9500	1028028
160	20	30	50	6	9500	1028029

200	4	30	50	6	8000	1028031
200	6	30	50	6	8000	1028032
200	8	30	50	6	8000	1028033
200	10	30	50	6	8000	1028034
200	12	30	50	6	8000	1028035
200	14	30	50	6	8000	1028036
200	16	30	50	6	8000	1028037
200	18	30	50	6	8000	1028038
200	20	30	50	6	8000	1028039



Frese per canali a spessore costante.

Grooving cutters with constant thickness.

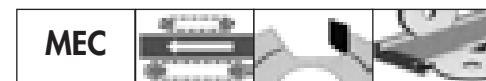
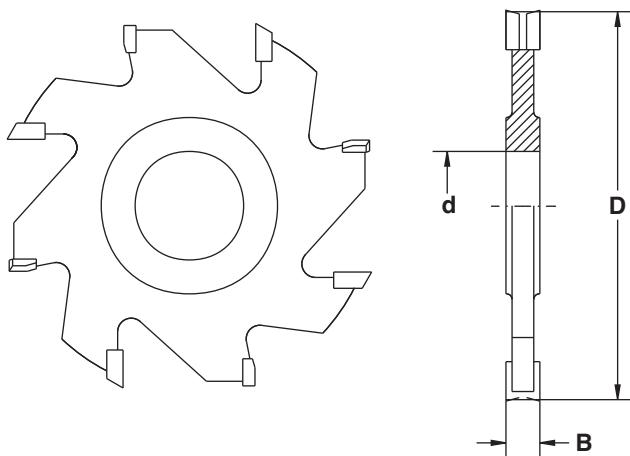
Fraises à rainer avec épaisseur constant.

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	1029001
140	5	30	50	4+4	9400	1029002
140	6	30	50	4+4	9400	1029003
140	8	30	50	4+4	9400	1029004
140	10	30	50	4+4	9400	1029005
140	12	30	50	4+4	9400	1029006
140	14	30	50	4+4	9400	1029007
140	16	30	50	4+4	9400	1029008
140	18	30	50	4+4	9400	1029009
140	20	30	50	4+4	9400	1029010
160	4	30	50	4+4	9500	1029021
160	5	30	50	4+4	9500	1029022
160	6	30	50	4+4	9500	1029023
160	8	30	50	4+4	9500	1029024
160	10	30	50	4+4	9500	1029025
160	12	30	50	4+4	9500	1029026
160	14	30	50	4+4	9500	1029027
160	16	30	50	4+4	9500	1029028
160	18	30	50	4+4	9500	1029029
160	20	30	50	4+4	9500	1029030
200	4	30	50	8+8	8000	1029031
200	5	30	50	8+8	8000	1029032
200	6	30	50	8+8	8000	1029033
200	8	30	50	8+8	8000	1029034
200	10	30	50	8+8	8000	1029035
200	12	30	50	8+8	8000	1029036
200	14	30	50	8+8	8000	1029037
200	16	30	50	8+8	8000	1029038
200	18	30	50	8+8	8000	1029039
200	20	30	50	8+8	8000	1029040



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 or HSS:

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

HSS for soft and hardwoods not glued with good finish.

1030

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.

Verstellnutterfräser mit regelbar Stärke durch Ring.

Fresas para ranuras con pre cortadores regulables con anillos.



MAN



Caratteristiche

Esecuzione in HM o HSS:

HM per legni abrasivi, teneri, duri, incollati, laminati, compensati, trucioliari 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:

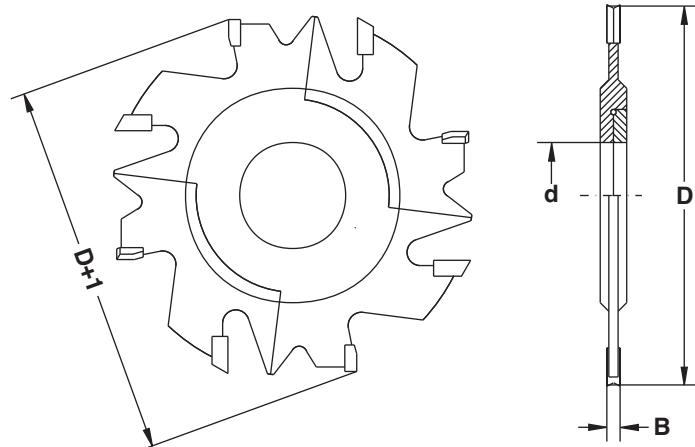
HM execution for abrasive, soft, hard, glued wood plywood, laminated panels and chipboard and more;

HSS for soft and hard not-glued woods.

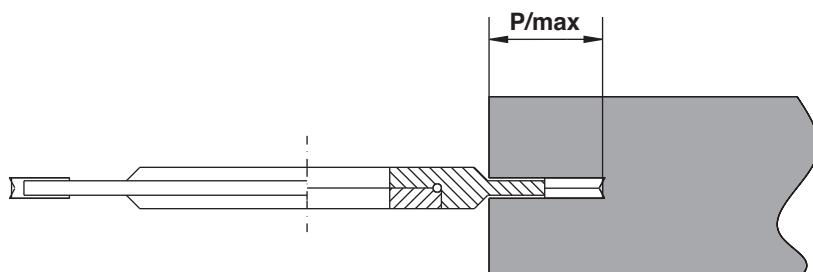
With 4 cutting edges and 4 spurs (2 for each side) with chip limiting device.

P/max = maximum depth of groove.

D	B	P/max	d	d/max	Z	rpm	ID nr.
140	2,5÷5	25	30	50	4+4	9400	1030001
140	4÷7,5	25	30	50	4+4	9400	1030002
140	7,5÷14	25	30	50	4+4	9400	1030003
140	10÷19,5	25	30	50	4+4	9400	1030004
140	15÷29,5	25	30	50	4+4	9400	1030005
180	2,5÷5	30	30	50	4+4	7400	1030006
180	4÷7,5	30	30	50	4+4	7400	1030007
180	7,5÷14	35	30	50	4+4	7400	1030008
180	10÷19,5	35	30	50	4+4	7400	1030009
180	15÷29,5	35	30	50	4+4	7400	1030010
250	5÷9,5	50	30	50	8+8	5400	1030011
250	7,5÷14	50	30	50	8+8	5400	1030012
250	10÷19,5	50	30	50	8+8	5400	1030013



ESEMPIO DI LAVORAZIONE



Frese multitaglienti per tenonatrici.

Multicuts cutters for tenoning machines.

Fraises multidents pour tenoneuses.

Spezialfräsen für Zapfen Fräsmaschinen.

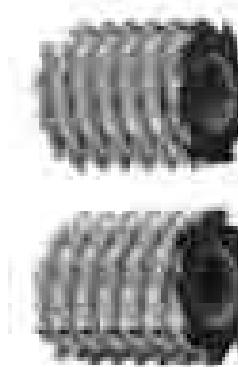
Fresas multifilo cortante para espigadoras.

1033

D	B	d	Z	rpm	ID nr. DX	ID nr. SX
85	115	25	8	10000	1033007	1033008
100	115	25	8	9000	1033001	1033002
120	130	30	12	9000	1033003	1033004
220	140	40	16	5500	1033005	1033006

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



MEC



Caratteristiche

Esecuzione in HM con 8/12/16 taglienti in HM riportato.

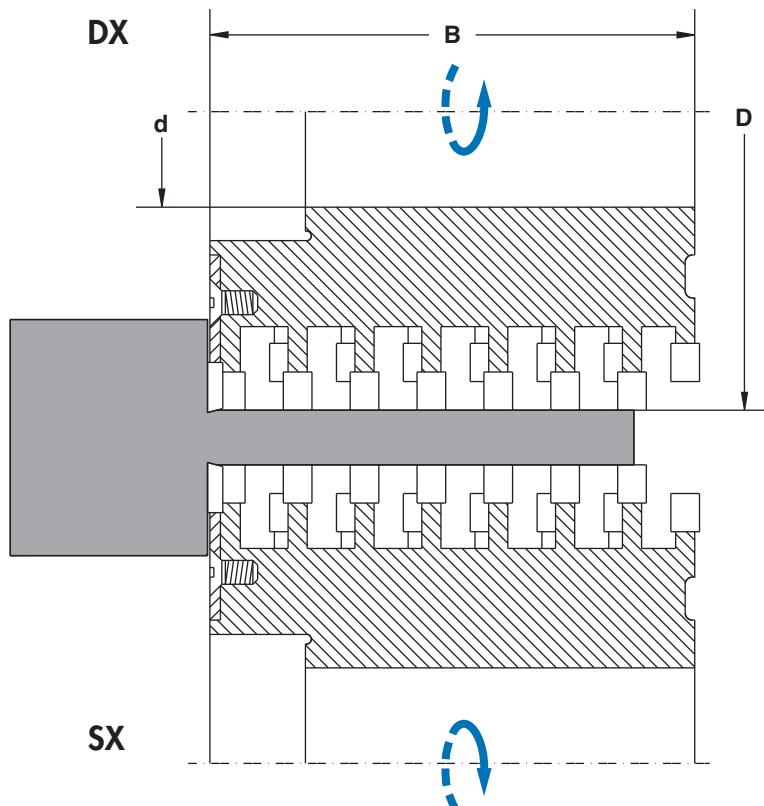
Fresa a taglienti frazionati posizionati su sedi ad andamento spiroideale di lame rasanti. Particolarmente idonea per la lavorazione con forti asportazioni anche in controvena con totale assenza di scheggiature.

Characteristics

Execution in HM with Braised 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	1033057	1033058
101	3,2	60+4	8	1033051	1033052
121	3,2	60+4	12	1033053	1033054
221	3,2	60+4	16	1033055	1033056

1034

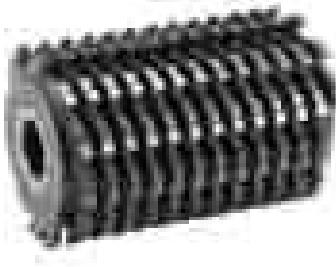
Frese multitaglienti per spianare su macchine scorticatrici.

Multicuts cutters to level on four sides machines.

Fraises multidents à dresser sur quatre faces.

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

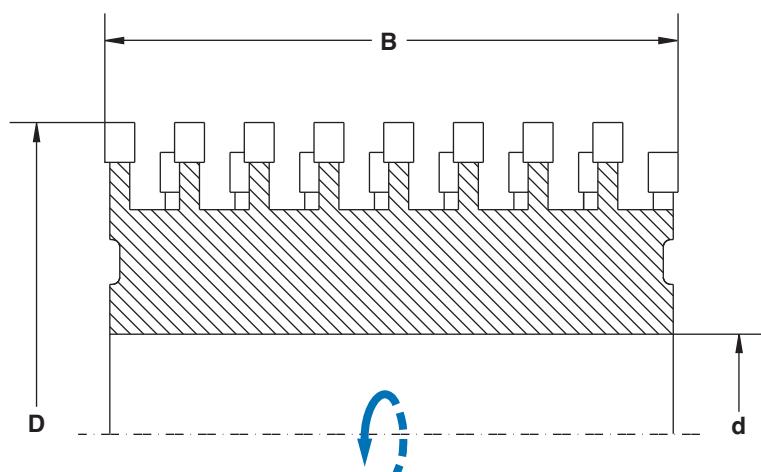
Characteristics

Execution in HM with Braised 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.

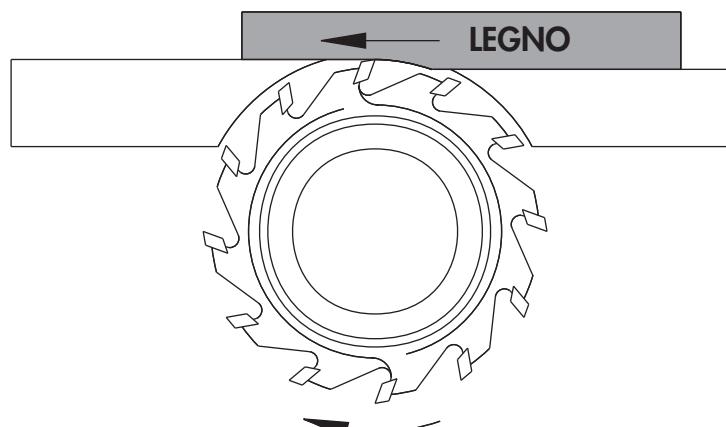
D	B	d	Z	rpm	ID nr. SX
100	120	35	12	9400	1034001
100	180	35	12	9400	1034002
125	120	35	12	9000	1034003
125	150	35	12	9000	1034004
125	180	35	12	9000	1034005
125	120	40	12	9000	1034010
125	150	40	12	9000	1034011
125	180	40	12	9000	1034012
125	230	40	12	9000	1034006
125	240	40	12	9000	1034013
140	120	40	12	8300	1034007
140	180	40	12	8300	1034008
140	230	40	12	8300	1034009
140	240	40	12	8300	1034014

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

2



Teste multiprofilo
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

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



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



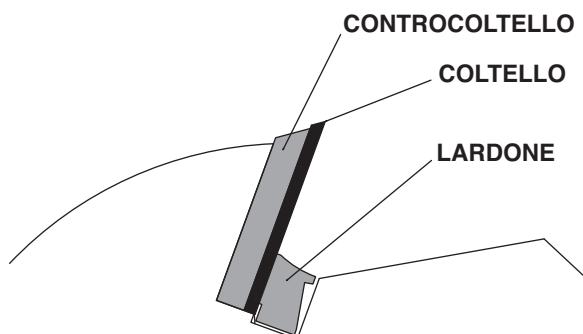
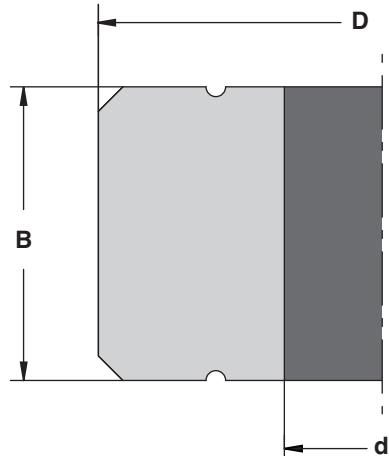
Caratteristiche

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

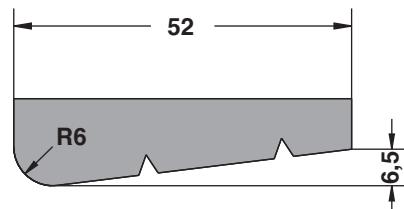
The tool is supplied without knives and back-knives.
 This cutterhead is with 3 cutting for execution of shaped profiles inside the area B÷P.
 The tool can be used to make different profiles changing only knives and back-knives.

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



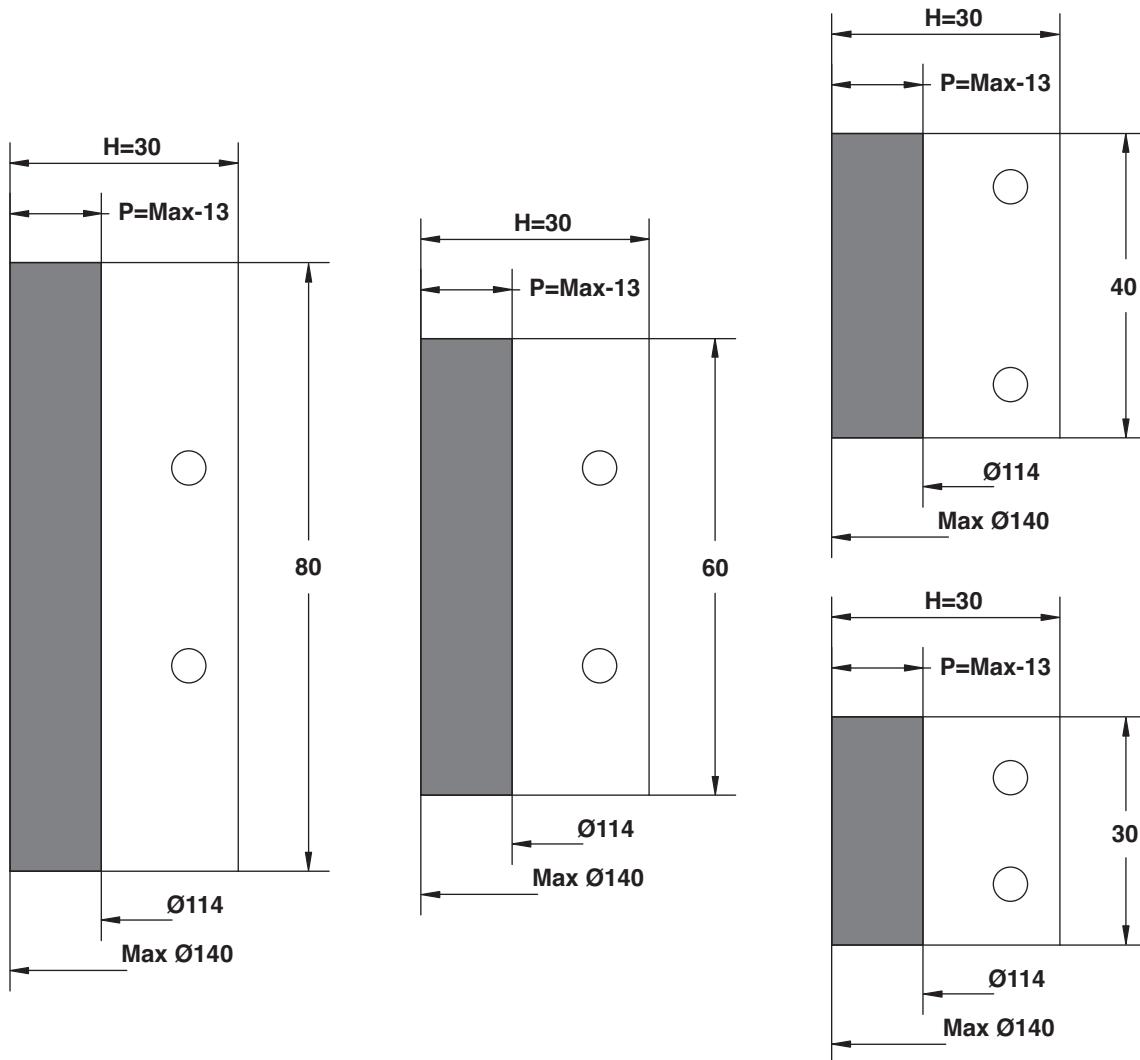
Come determinare il prezzo - ESEMPIO:
 How to make the price - EXAMPLE:

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

= AREA SAGOMABILE / AREA THAT CAN BE SHAPED



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 multiprofilo.
Cutterheads for multiprofiles.
 Têtes porte-couteaux pour multiprofiles.
Profilplatten Messerköpf.
 Cabezales con cuchillas para perfiles multiples.



D	B	d	Z	rpm	ID nr.
114	40	35	3	10500	2002001
114	60	35	3	10500	2002002
114	80	35	3	10500	2002003
114	40	40	3	10500	2002004
114	60	40	3	10500	2002005
114	80	40	3	10500	2002006

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

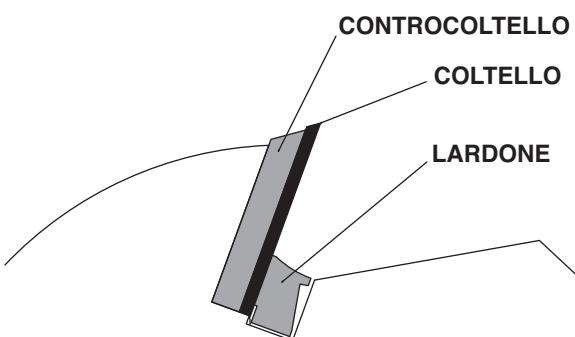
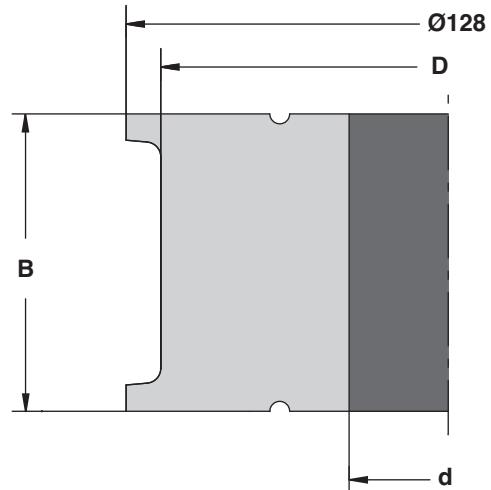


Caratteristiche

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.

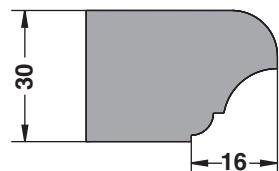
Characteristics

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.



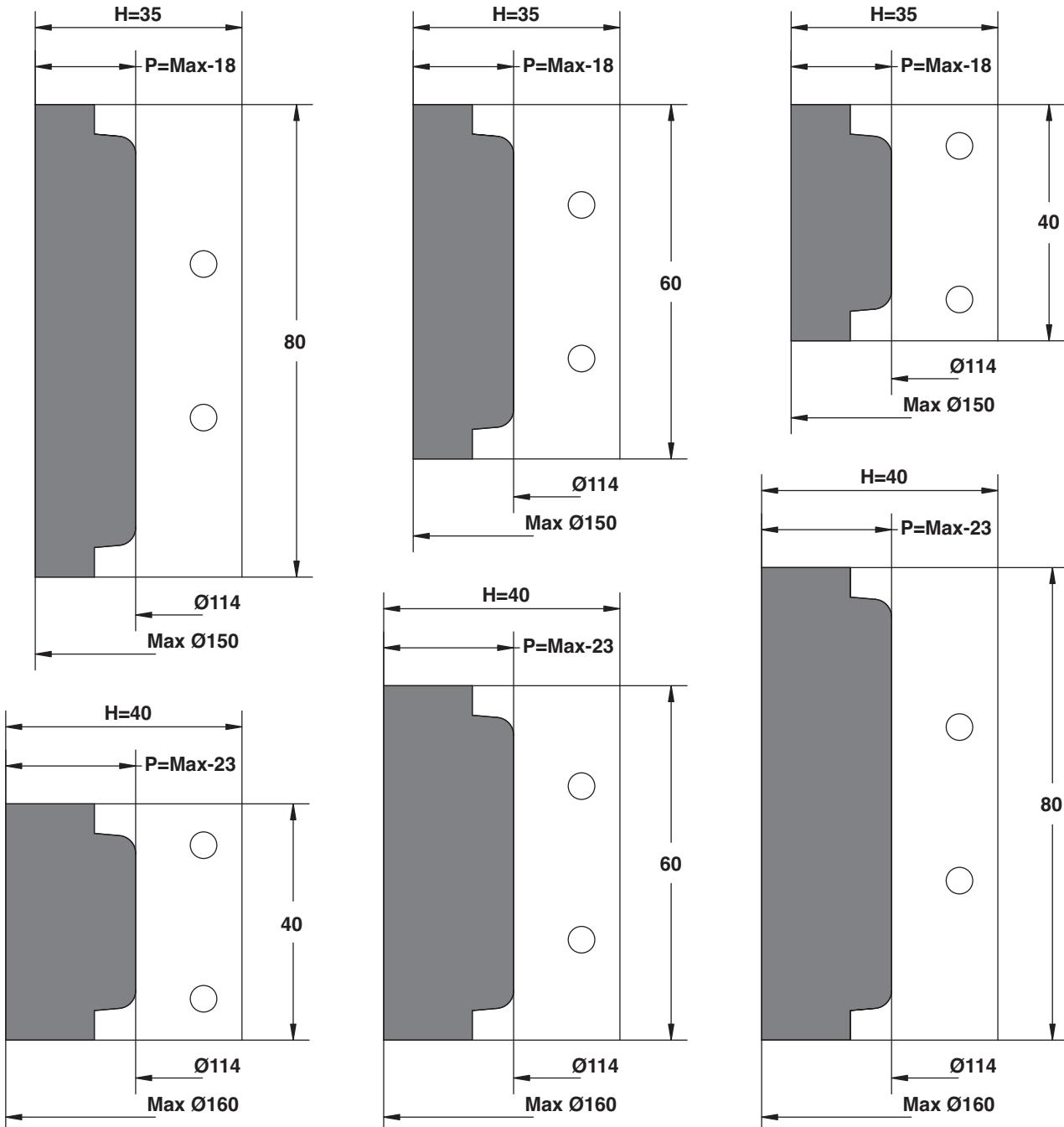
Come determinare il prezzo - ESEMPIO:
 How to make the price - EXAMPLE:

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.	9519121	9519122	9519129	9519130	9519132	9519133

COLTELLI SAGOMATI

Dimensioni BxHxS	40x35x2	40x40x2	60x35x2	60x40x2	80x35x2	80x40x2
ID nr.	9519021	9519022	9519029	9519030	9519032	9519033

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519205	9519206	9519208	9519209	9519211	9519212

CONTROCOLTELLI SAGOMATI

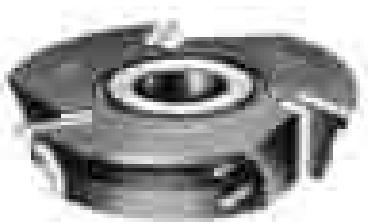
Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519305	9519306	9519308	9519309	9519311	9519312

VITI

Dimensioni	M8x20				
ID nr.	9546021				

2003

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



D	B	d	Z	rpm	ID nr. DX	ID nr. SX
114	40	35	3	10500	2003001	2003002
114	60	35	3	10500	2003003	2003004
114	80	35	3	10500	2003005	2003006
114	40	40	3	10500	2003007	2003008
114	60	40	3	10500	2003009	2003010
114	80	40	3	10500	2003011	2003012

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

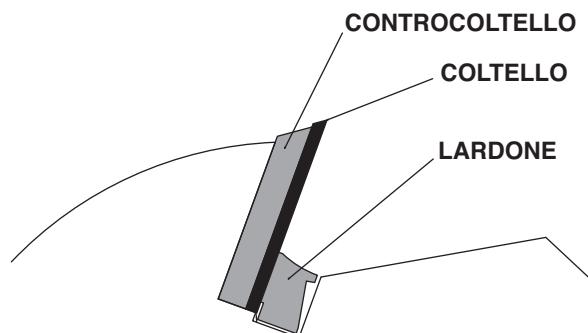
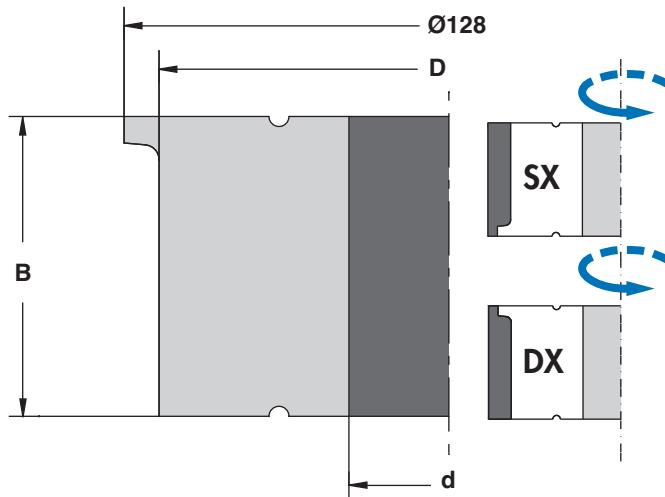


Caratteristiche

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.

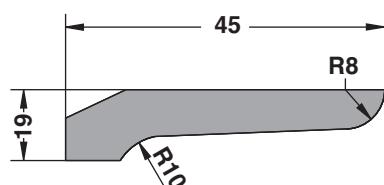
Characteristics

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.



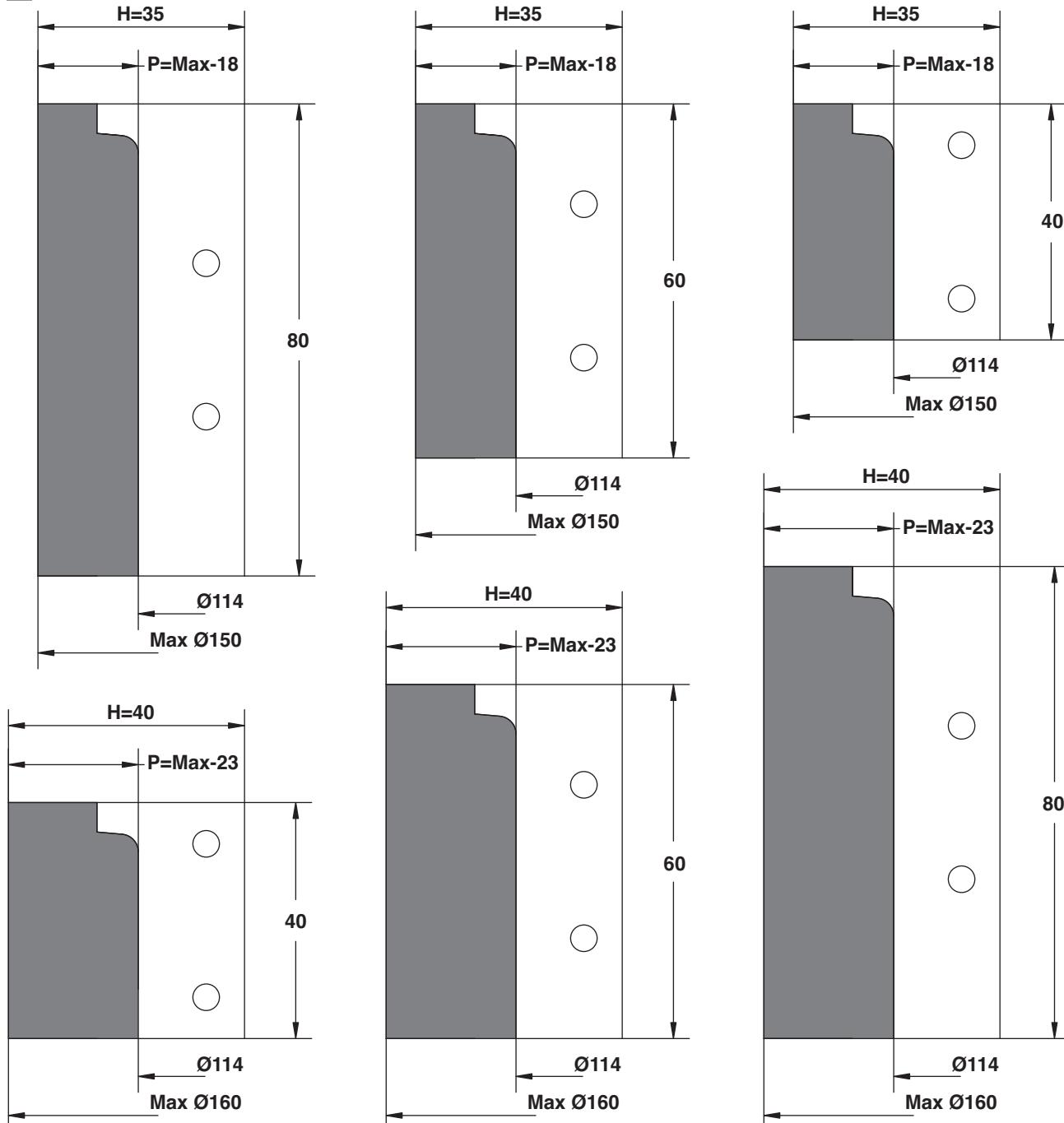
Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

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.	9519121	9519122	9519129	9519130	9519132	9519133

COLTELLI SAGOMATI

Dimensioni BxHxS	40x35x2	40x40x2	60x35x2	60x40x2	80x35x2	80x40x2
ID nr.	9519021	9519022	9519029	9519030	9519032	9519033

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519205	9519206	9519208	9519209	9519211	9519212

CONTROCOLTELLI SAGOMATI

Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519305	9519306	9519308	9519309	9519311	9519312

VITI

Dimensioni	M8x20				
ID nr.	9546021				

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



D	B	d	Z	rpm	ID nr.
114	40	35	3	10500	2004001
114	60	35	3	10500	2004002
114	80	35	3	10500	2004003
114	40	40	3	10500	2004004
114	60	40	3	10500	2004005
114	80	40	3	10500	2004006

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

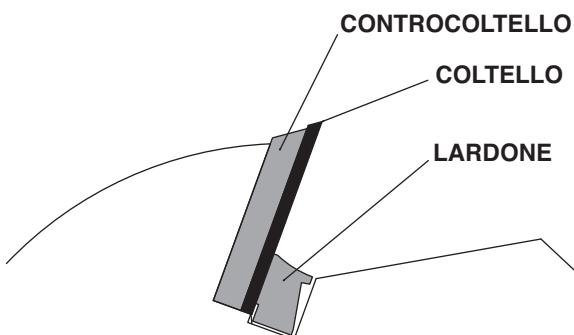
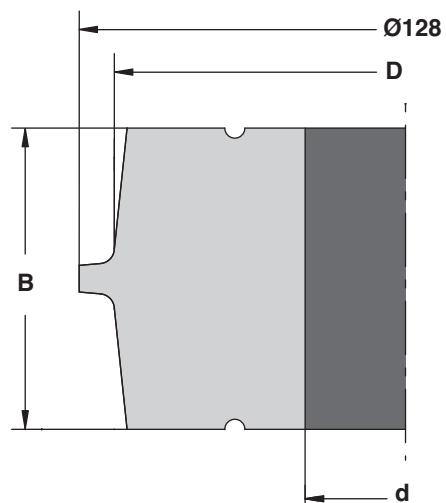


Caratteristiche

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.

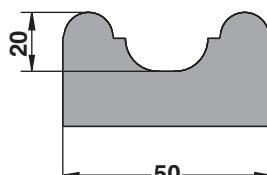
Characteristics

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.



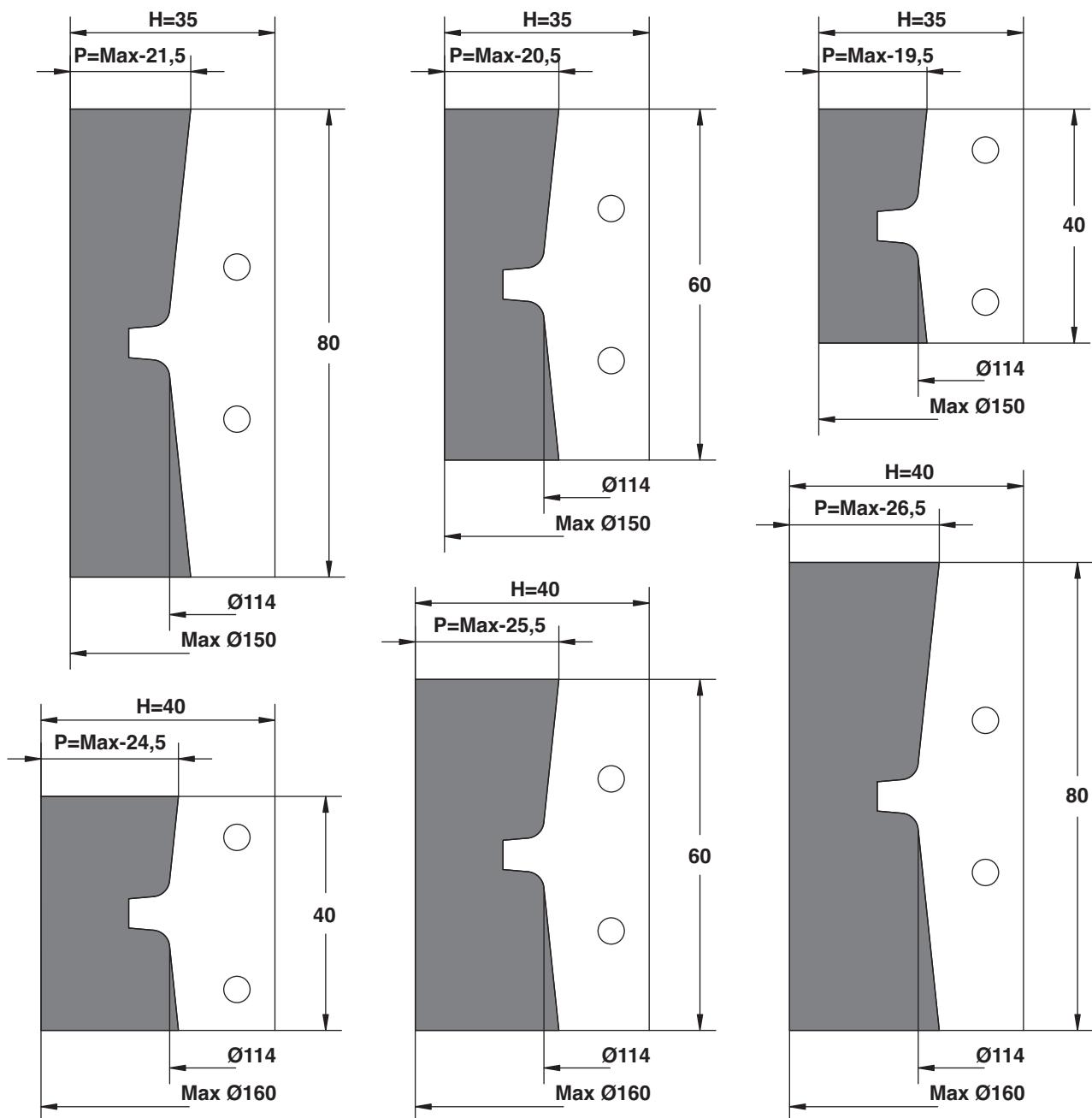
Come determinare il prezzo - ESEMPIO:
How to make the price - EXAMPLE:

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

= AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

Dimensioni BxHxS	40x35x2	40x40x2	60x35x2	60x40x2	80x35x2	80x40x2
ID nr.	9519121	9519122	9519129	9519130	9519132	9519133

COLTELLI SAGOMATI

Dimensioni BxHxS	40x35x2	40x40x2	60x35x2	60x40x2	80x35x2	80x40x2
ID nr.	9519021	9519022	9519029	9519030	9519032	9519033

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519205	9519206	9519208	9519209	9519211	9519212

CONTROCOLTELLI SAGOMATI

Dimensioni BxHxS	40x33x5	40x38x5	60x33x5	60x38x5	80x33x5	80x38x5
ID nr.	9519305	9519306	9519308	9519309	9519311	9519312

VITI

Dimensioni	M8x20				
ID nr.	9546021				

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

Inserti fissi / Fixed inserts



Aumento ID nr. IF01
Increase ID nr. IF01

Inserti regolabili / Adjustable inserts



Aumento ID nr. IR01
Increase ID nr. IR01

Rasanti / Reversible trimmers

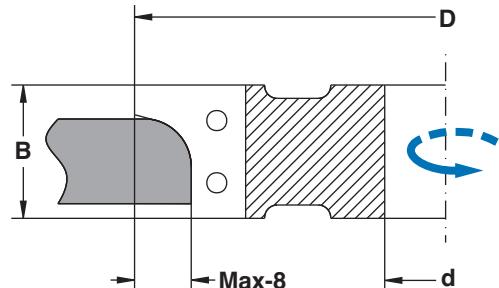


Aumento ID nr. RA01
Increase ID nr. RA01

D	B	d	d/max	Z	rpm	ID nr.
120	20	30	50	4	9000	2005001
120	30	30	50	4	9000	2005002
120	40	30	50	4	9000	2005003
120	50	30	50	4	9000	2005004
120	60	30	50	4	9000	2005005
140	20	30	50	4	8000	2005006
140	30	30	50	4	8000	2005007
140	40	30	50	4	8000	2005008
140	50	30	50	4	8000	2005009
140	60	30	50	4	8000	2005010
160	20	30	50	4	7000	2005011
160	30	30	50	4	7000	2005012
160	40	30	50	4	7000	2005013
160	50	30	50	4	7000	2005014
160	60	30	50	4	7000	2005015
180	20	30	50	4	6000	2005016
180	30	30	50	4	6000	2005017
180	40	30	50	4	6000	2005018
180	50	30	50	4	6000	2005019
180	60	30	50	4	6000	2005020
200	20	30	50	4	5500	2005021
200	30	30	50	4	5500	2005022
200	40	30	50	4	5500	2005023
200	50	30	50	4	5500	2005024
200	60	30	50	4	5500	2005025
250	20	30	50	4	5000	2005026
250	30	30	50	4	5000	2005027
300	20	30	50	4	4000	2005028
300	30	30	50	4	4000	2005029

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

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



RICAMBI

COLTELLI SAGOMATI

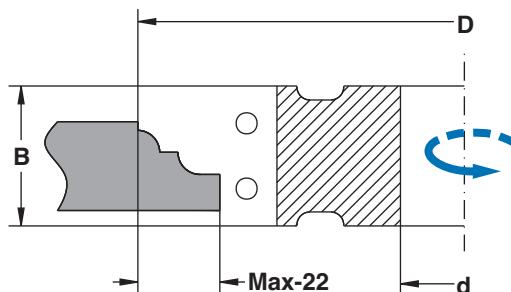
ID nr.	9519
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Teste portacoltelli sagomate a piacere (profilo complesso).
 Cutterheads with knives for mouldering on demand (complex profile).
 Têtes porte-couteaux à profiler à la demande (profile complexe).
 Messerkopf zu modellieren zu Frage (umfassend Profil).
 Cabezales moldurados a gusto con cuchillas (perfil complejo).

D	B	d	d/max	Z	rpm	ID nr.
120	20	30	50	4	9000	2006 001
120	30	30	50	4	9000	2006 002
120	40	30	50	4	9000	2006 003
120	50	30	50	4	9000	2006 004
120	60	30	50	4	9000	2006 005
140	20	30	50	4	8000	2006 006
140	30	30	50	4	8000	2006 007
140	40	30	50	4	8000	2006 008
140	50	30	50	4	8000	2006 009
140	60	30	50	4	8000	2006 010
160	20	30	50	4	7000	2006 011
160	30	30	50	4	7000	2006 012
160	40	30	50	4	7000	2006 013
160	50	30	50	4	7000	2006 014
160	60	30	50	4	7000	2006 015
180	20	30	50	4	6000	2006 016
180	30	30	50	4	6000	2006 017
180	40	30	50	4	6000	2006 018
180	50	30	50	4	6000	2006 019
180	60	30	50	4	6000	2006 020
200	20	30	50	4	5500	2006 021
200	30	30	50	4	5500	2006 022
200	40	30	50	4	5500	2006 023
200	50	30	50	4	5500	2006 024
200	60	30	50	4	5500	2006 025
250	20	30	50	4	5000	2006 026
250	30	30	50	4	5000	2006 027
300	20	30	50	4	4000	2006 028
300	30	30	50	4	4000	2006 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
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2006



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

Inserti fissi / Fixed inserts



Aumento ID nr. IF01
 Increase ID nr. IF01

Inserti regolabili / Adjustable inserts



Aumento ID nr. IR01
 Increase ID nr. IR01

Rasanti / Reversible trimmers



Aumento ID nr. RA01
 Increase ID nr. RA01

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.



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

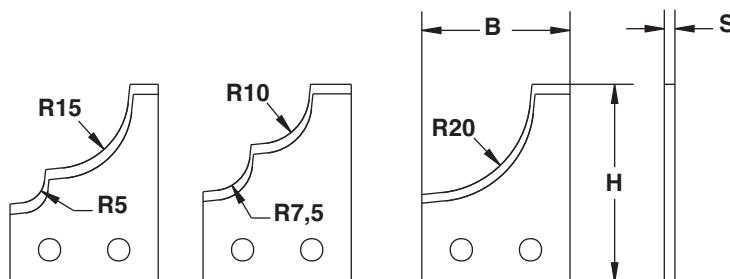
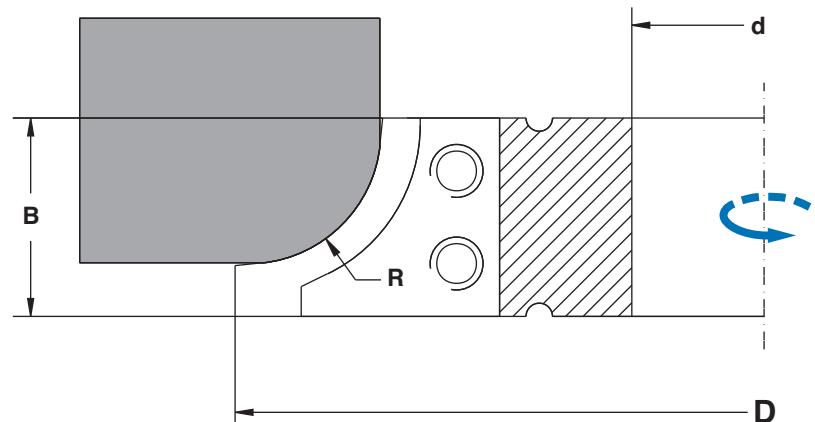
The box is supplied with a Kit of knives and back-knives R5-7,5-10-15-20 and with a cutterhead in steel with rotation for toupie (see draw).

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

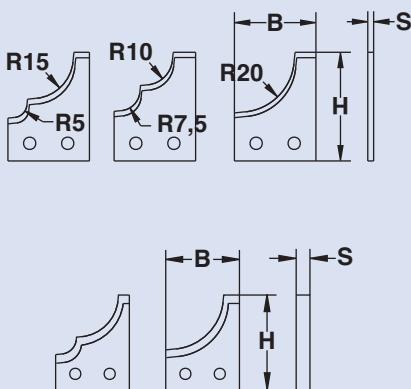
D	B	d	Z	R	rpm	ID nr.
150	30	35	3	5-7,5-10-15-20	9500	2007001
150	30	40	3	5-7,5-10-15-20	9500	2007002

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



RICAMBI



COLTELLI SAGOMATI			
IMPIEGO	R7,5-10	R5-15	R20
Dimensioni BxHxS	30x40x2	30x40x2	30x40x2
ID nr.	9520001	9520002	9520003

CONTROCOLTELLI SAGOMATI		LARDONE
IMPIEGO	R5-7,5-10-15	R20
Dimensioni BxHxS	30x38x5	30x38x5
ID nr.	2007301	2007302

IMPIEGO	VITI	CHIAVE
Dimensioni	PER LARDONI M8x20	PER GRANI M8 ESAGONALE 4mm
ID nr.	9546021	9548009

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.

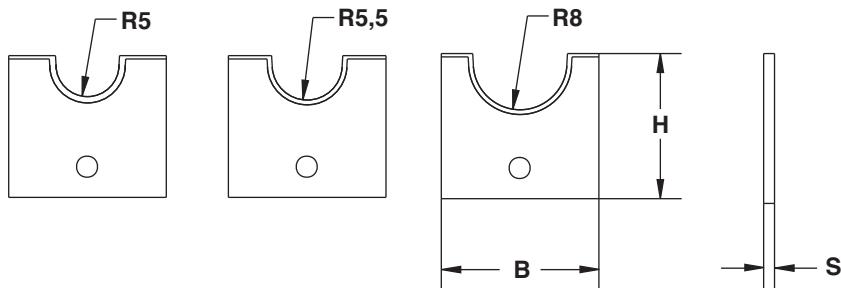
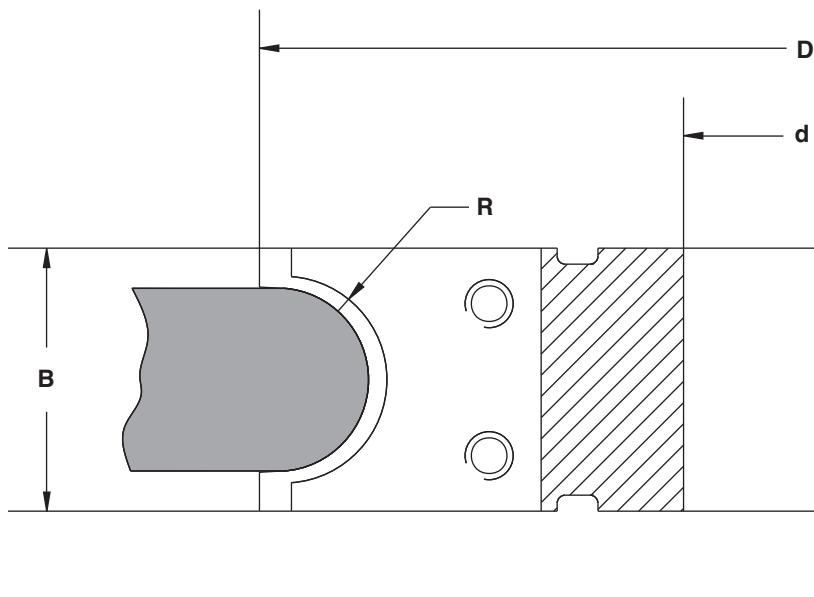
Estuche multiradio para barras semicirculares cóncavos R5-5,5-8.

2008

D	B	d	Z	R	rpm	ID nr.
140	25	35	3	5-5,5-8	10500	2008002
140	25	40	3	5-5,5-8	10500	2008003

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.	9521001	9521002	9521003

CONTROCOLTELLI SAGOMATI

LARDONE

IMPIEGO	R5-5,5	R8	PER TUTTI I RAGGI
Dimensioni BxHxS	25x28x5	25x28x5	18x12x7,5
ID nr.	2008301	2008302	9545005

VITI

CHIAVE

IMPIEGO	PER LARDONI	PER GRANI M8 ESAGONALE 4mm
Dimensioni	M8x20	
ID nr.	9546021	9548009



MEC



Caratteristiche

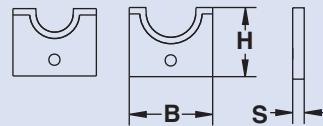
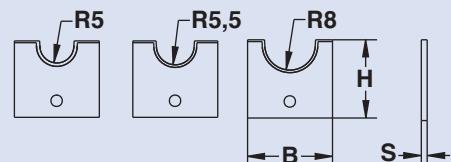
La cassetta viene fornita di un Kit di coltelli con relativi controcoltelli R5-5,5-8 e di testa portacoltelli con corpo in acciaio.

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 cóncavos R10-12,5-15.



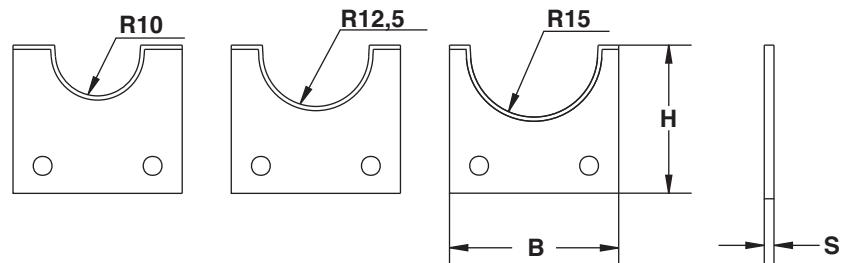
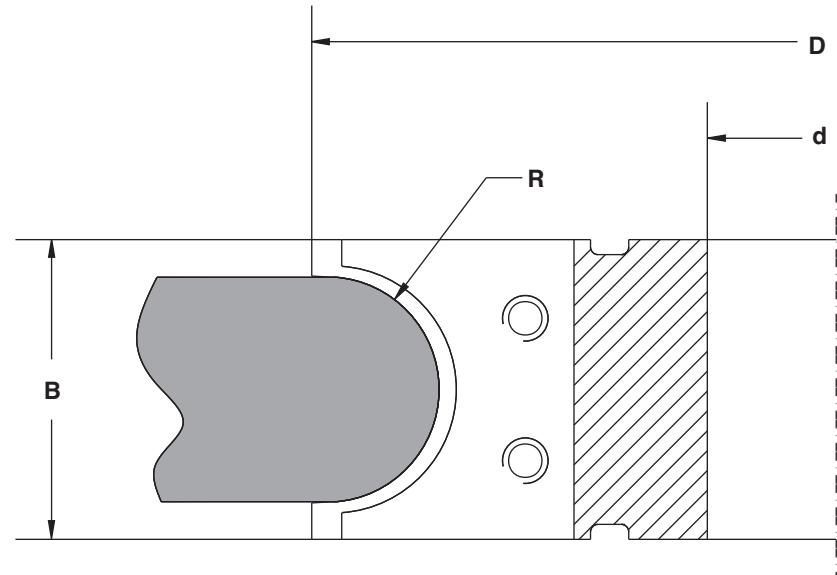
Caratteristiche

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.

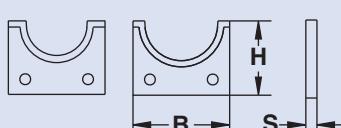
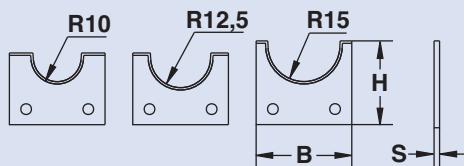
Characteristics

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.

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



RICAMBI



COLTELLI SAGOMATI

IMPIEGO	R10	R12,5	R15
Dimensioni BxHxS	40x35x2	40x35x2	40x35x2
ID nr.	9522001	9522002	9522003

CONTROCOLTELLI SAGOMATI

LARDONE

IMPIEGO	R10-12,5	R15	PER TUTTI I RAGGI
Dimensioni BxHxS	40x33x5	40x33x5	38x12x7,5
ID nr.	2009301	2009302	9545007

VITI

CHIAVE

IMPIEGO	PER LARDONI	PER GRANI 8 M8x20	ESAGONALE 4mm
Dimensioni			
ID nr.	9546021		9548009

Teste portacoltellini sagomate per quarti di tondo.

Cutterheads for quarter circles.

Têtes porte-couteaux pour quart de rond.

Messerköpfe für Abrund

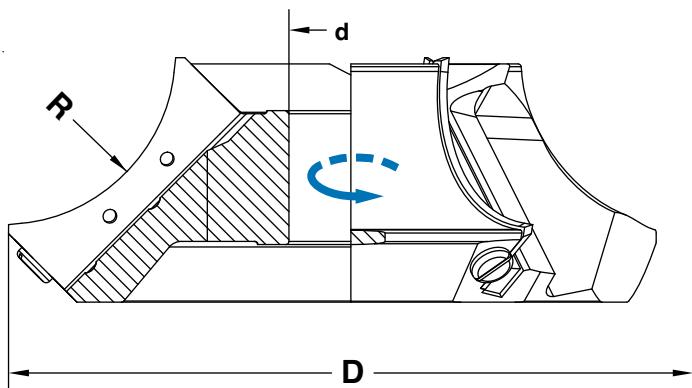
Fresas perfiladas con cuchillas para cuartos de barras.

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



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

Dimensioni	58x12x7,5	78x12x7,5	VITI
ID nr.	9545 009	9545 010	9546 020



MAN

Caratteristiche

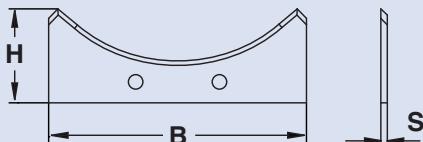
Esecuzione Z3 con coltello in HM spessore 2mm, senza angolo assiale.

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.



2010

Testa portacoltelli multisagoma.

Cutterhead for multiprofiles.

Tête porte-couteaux pour multiprofils.

Profilplatten-Messerköpf.

Cabezal con cuchillas para perfiles múltiples.



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

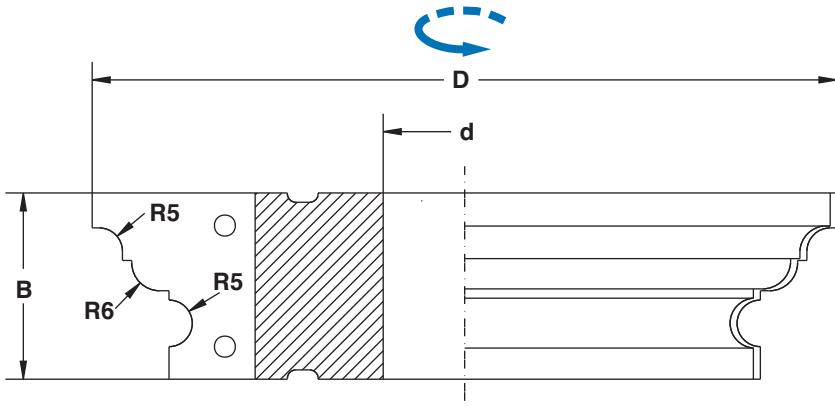
Cutterhead for shape frames, panels and more.

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

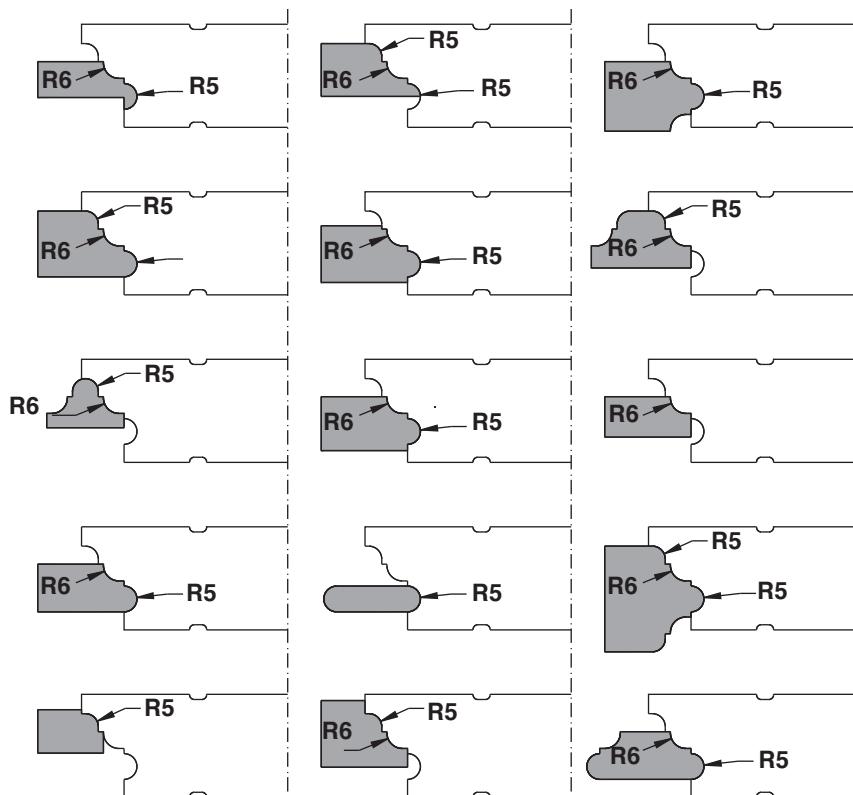
D	B	d	Z	rpm	ID nr.
160	40	35	3	8000	2010001
160	40	40	3	8000	2010002

Esecuzione foro d = 50 a richiesta

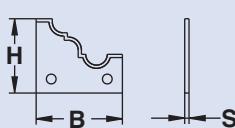
Execution with bore d = 50 by request



ESEMPI DI LAVORAZIONE



RICAMBI



	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	40x35x2	38x12x7,5	M8x16
ID nr.	9523001	9545007	9546020

Testa portacoltelli multisagoma.

Cutterhead for multiprofiles.

Tête porte-couteaux pour multiprofils.

Profilplatten-Messerköpf.

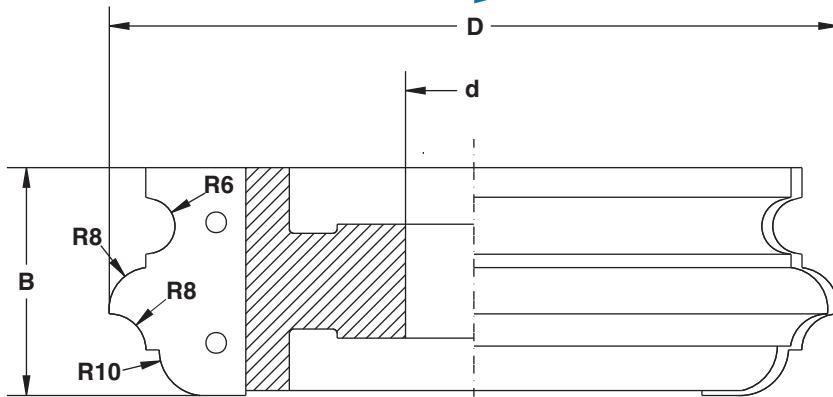
Cabezal con cuchillas para perfiles múltiples.

2011

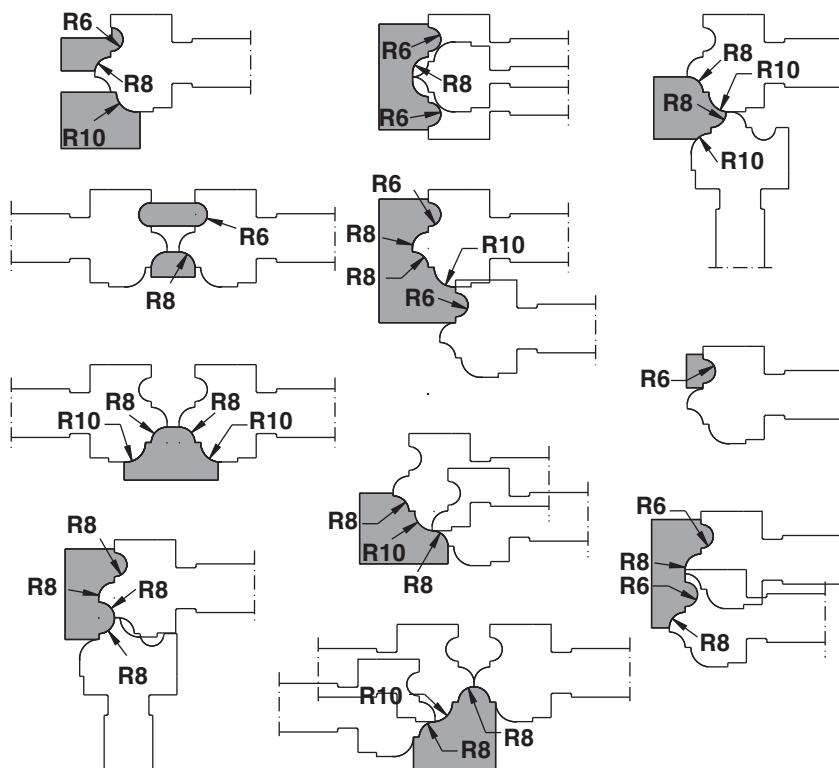
D	B	d	Z	rpm	ID nr.
160	50	35	3	8000	2011001
160	50	40	3	8000	2011002

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request

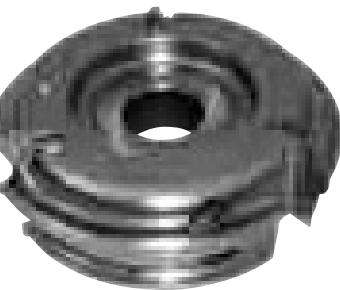


ESEMPI DI LAVORAZIONE



RICAMBI

	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x30x2	48x12x7,5	M6x16
ID nr.	9524001	9545008	9546018



MAN



Caratteristiche

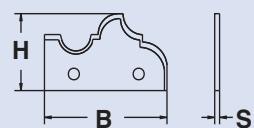
Testa portacoltelli per la sagomatura di cornici, pannelli o altro.

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.



2012

Cassetta multisagomata completa di 4 teste portacolelli 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 Messerköpfen.

Estuche con 4 cabezales para muebles en estilo.



MAN



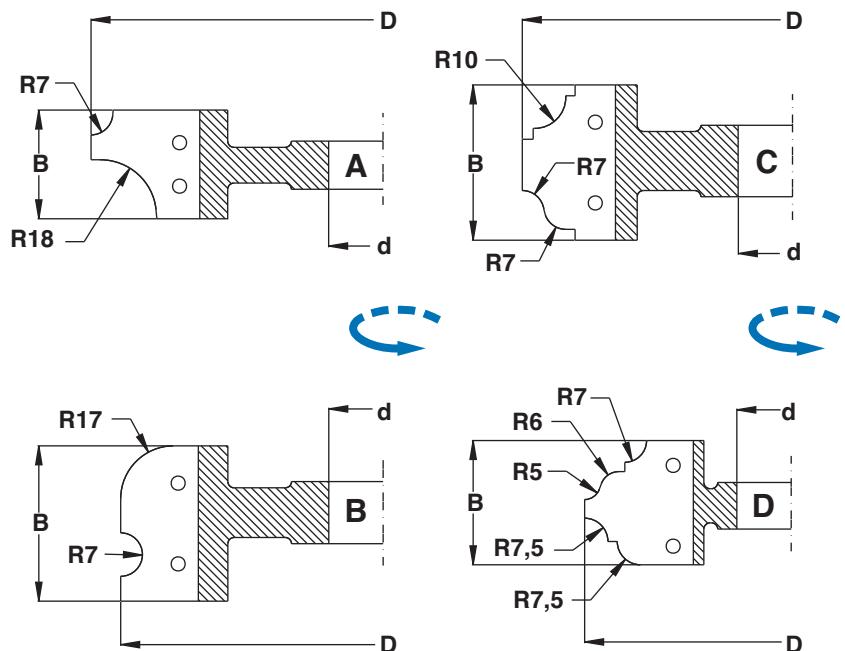
Caratteristiche

La cassetta è composta da N°4 teste portacolelli 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.

D/max	B	d/max	rpm	ID nr.	
188	35	50	8000	2012001	
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

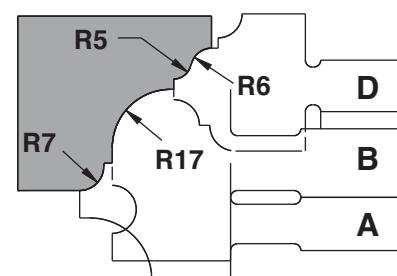
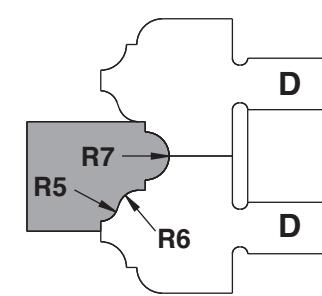
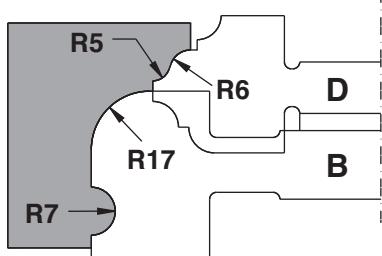
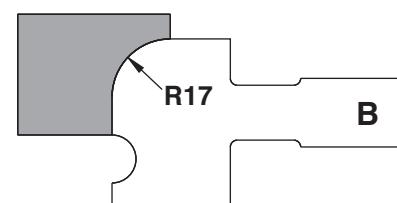
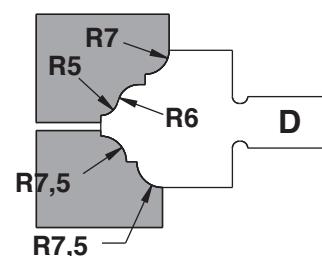
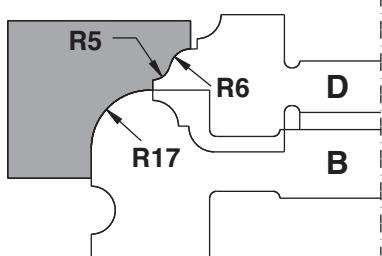
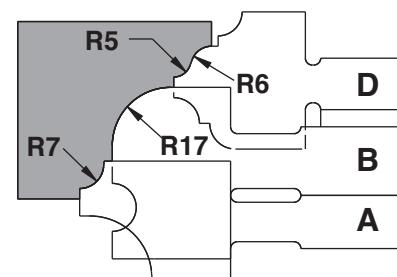
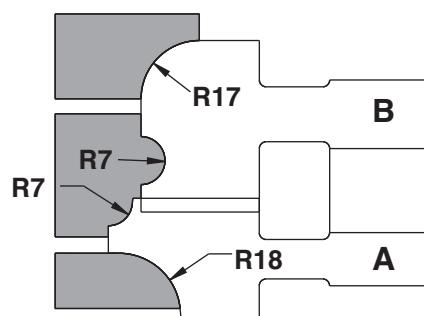
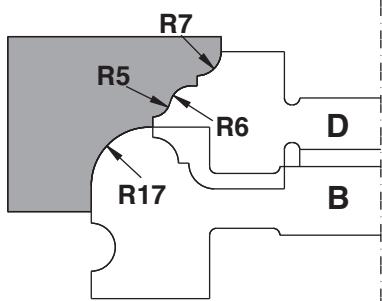
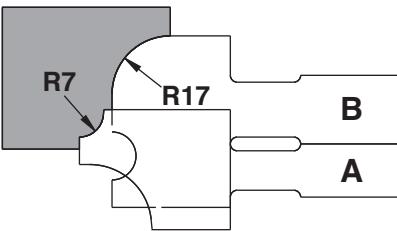
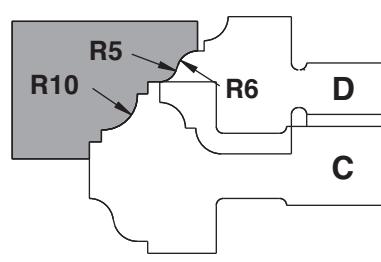
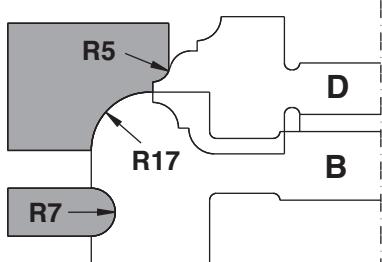
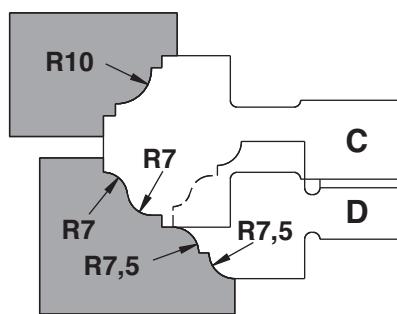
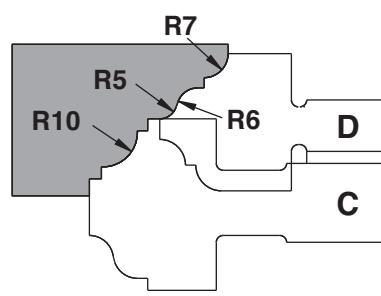
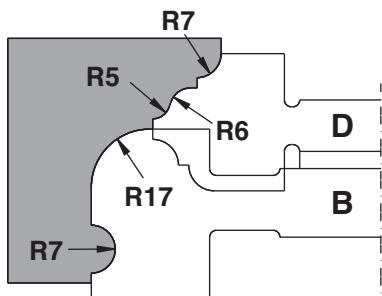


RICAMBI

TIPO - A		
TIPO - A		
TIPO - B		
TIPO - C		
TIPO - D		

TIPO-A	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	35x35x2	28x12x7,5	M6x16
ID nr.	9525001	9545006	9546018
TIPO-B	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x30x2	48x12x7,5	M6x16
ID nr.	9525002	9545008	9546018
TIPO-C	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x35x2	48x12x7,5	M6x16
ID nr.	9525003	9545008	9546018
TIPO-D	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	40x35x2	38x12x7,5	M6x16
ID nr.	9525004	9545007	9546018

ESEMPI DI PROFILI ESEGUITI



2013

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



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.

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		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4	40x38,5x4

PROFILO 96÷99		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4	40x38,5x4

PROFILO 100		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4	40x38,5x4

Testa singola in acciaio.

Cutterhead in steel.

Tête en acier.

Messerkopf zu Stahl.

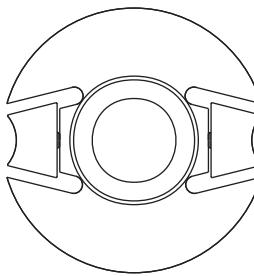
Cabezal de acero sin cuchillas.

2013

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)

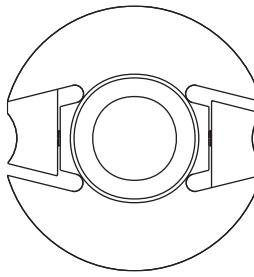
MAN



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

Dimensioni	COLTELLI 40x40x4	LIMITATORI 40x38,5x4
ID nr.	2013 101	2013 301

PROFILO 96÷99

Dimensioni	COLTELLI 40x40x4	LIMITATORI 40x38,5x4
ID nr.	2013 102	2013 302

PROFILO 100

Dimensioni	COLTELLI 40x40x4	LIMITATORI 40x38,5x4
ID nr.	2013 103	2013 303

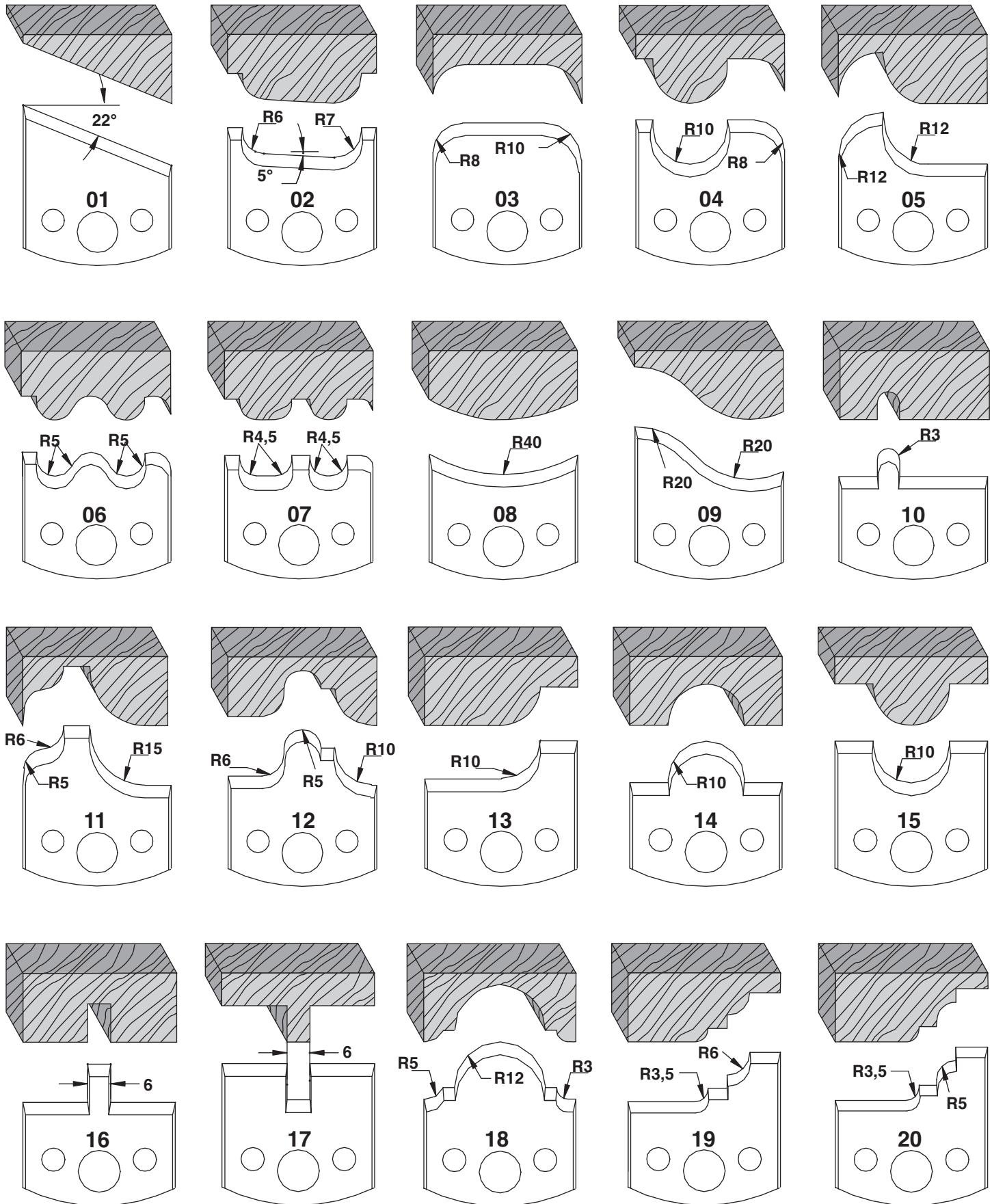
Caratteristiche

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.

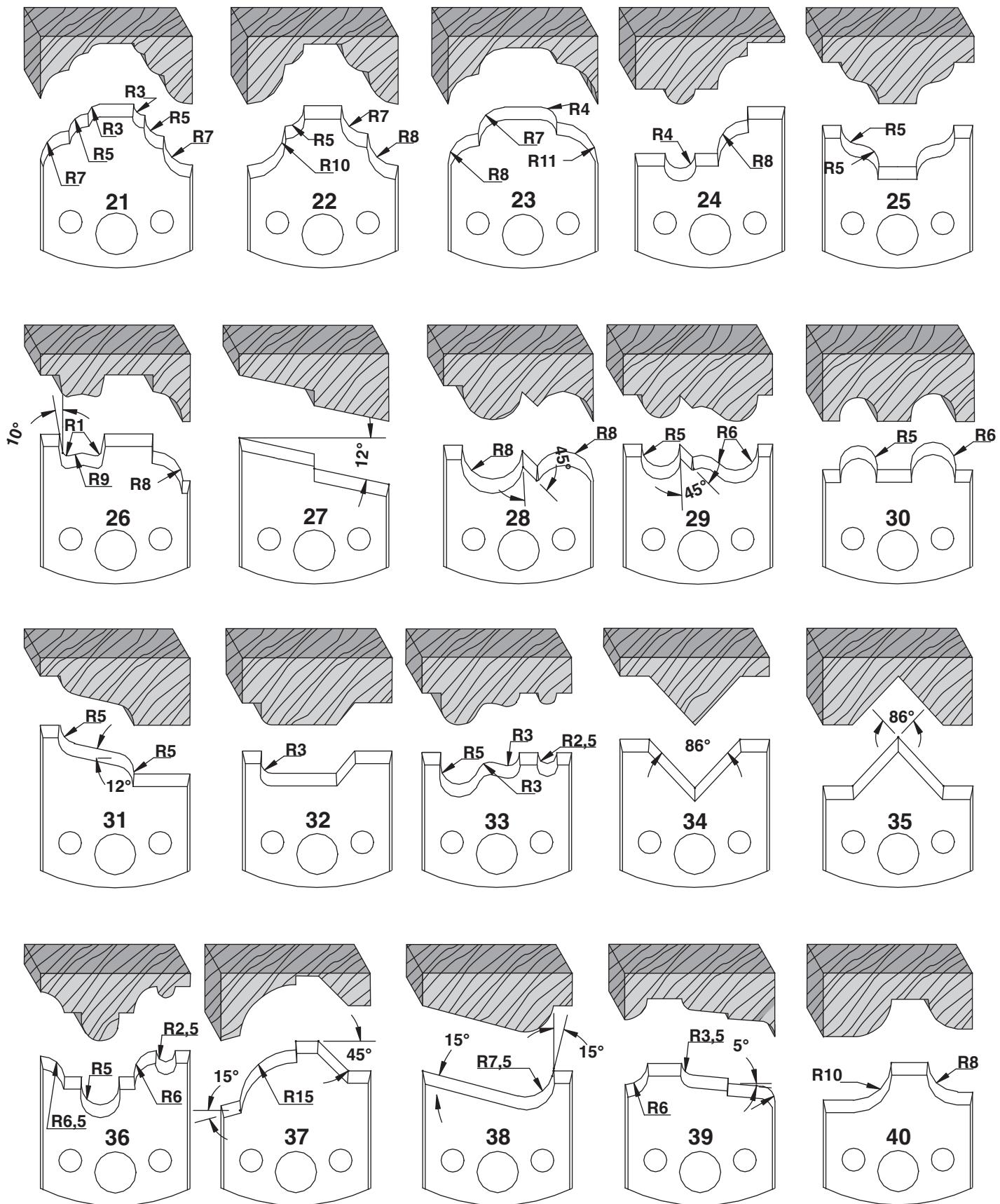
Characteristics

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.

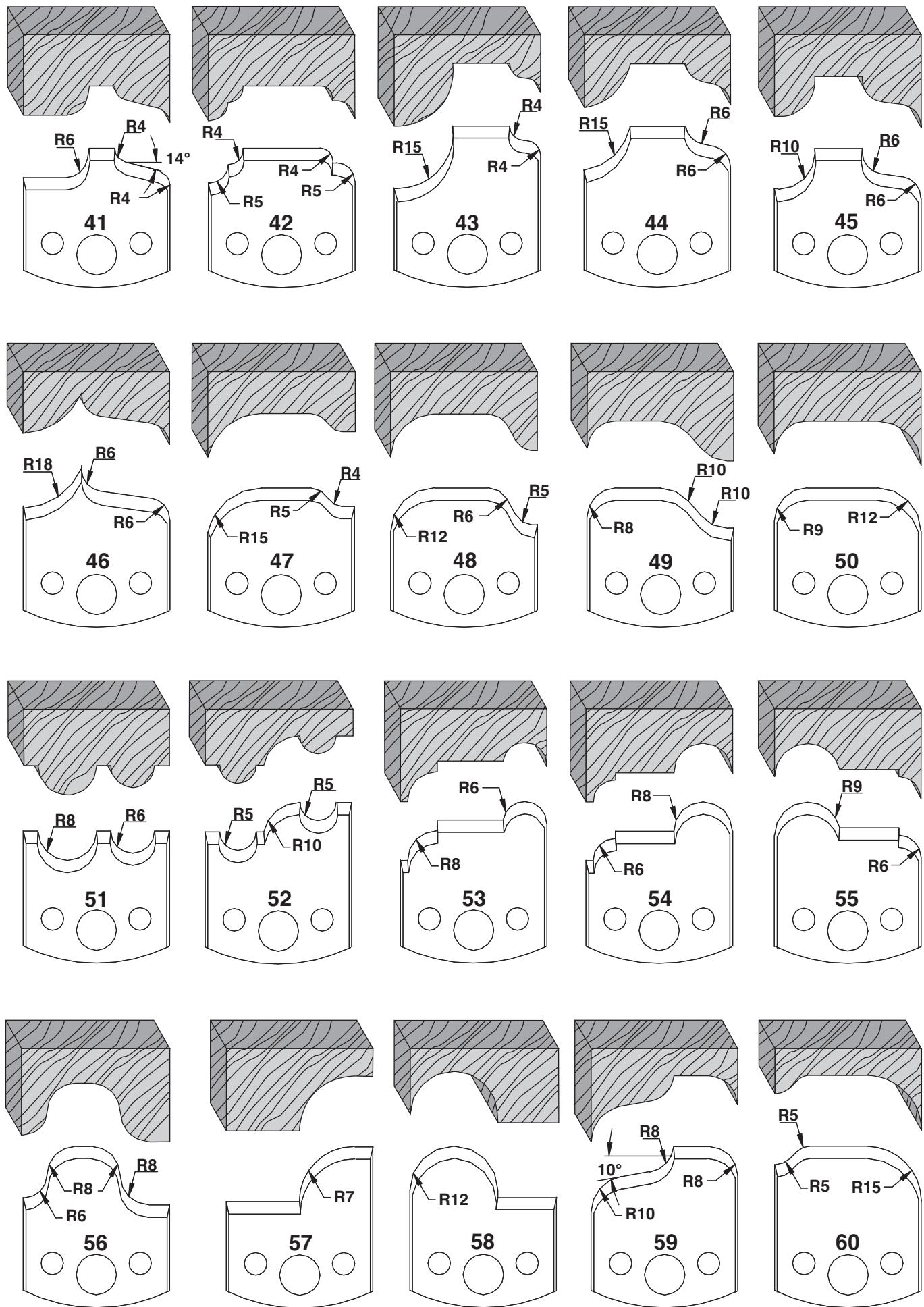
COLTELLI SAGOMATI dal n°01 al n°20



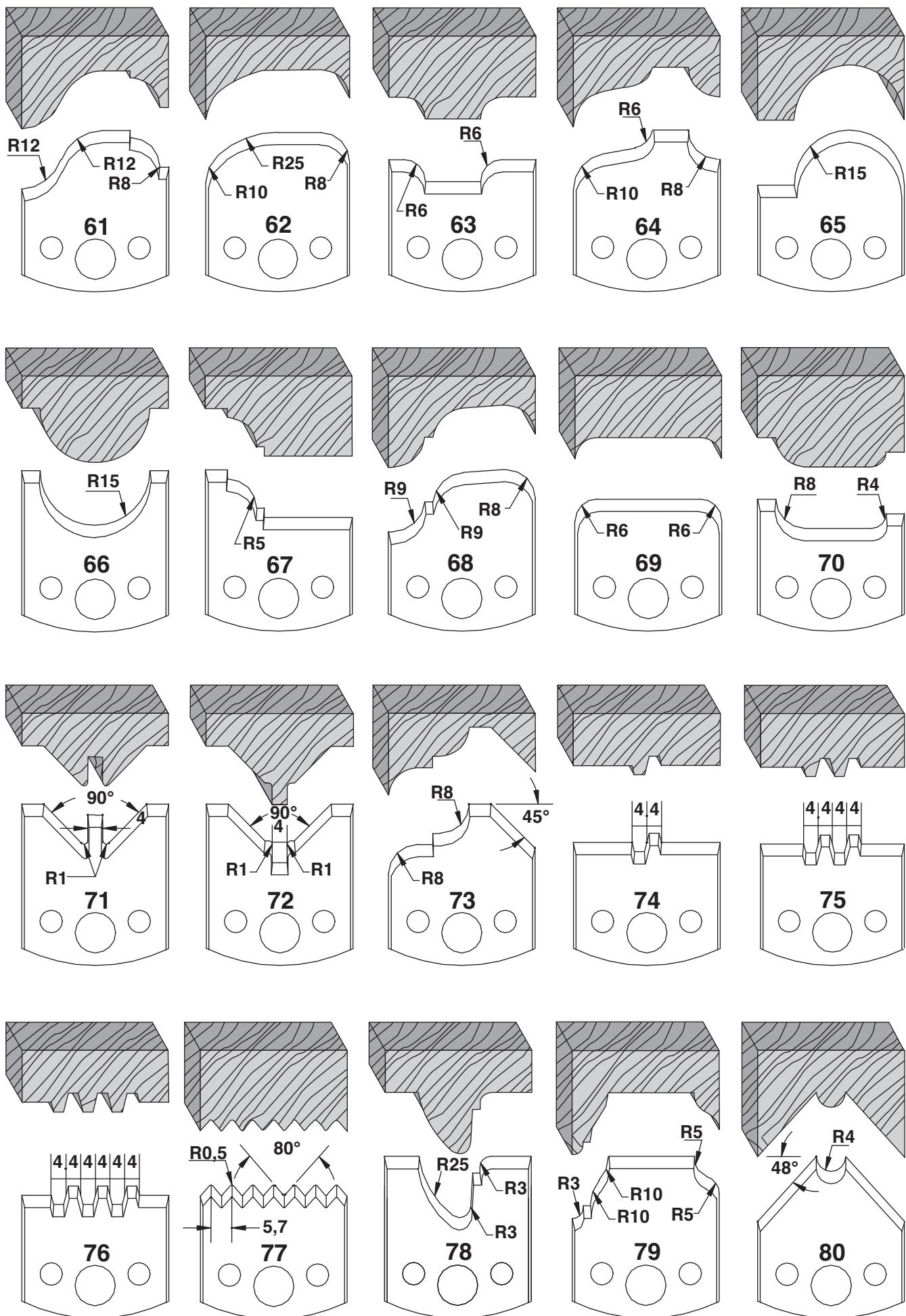
COLTELLI SAGOMATI dal n°21 al n°40



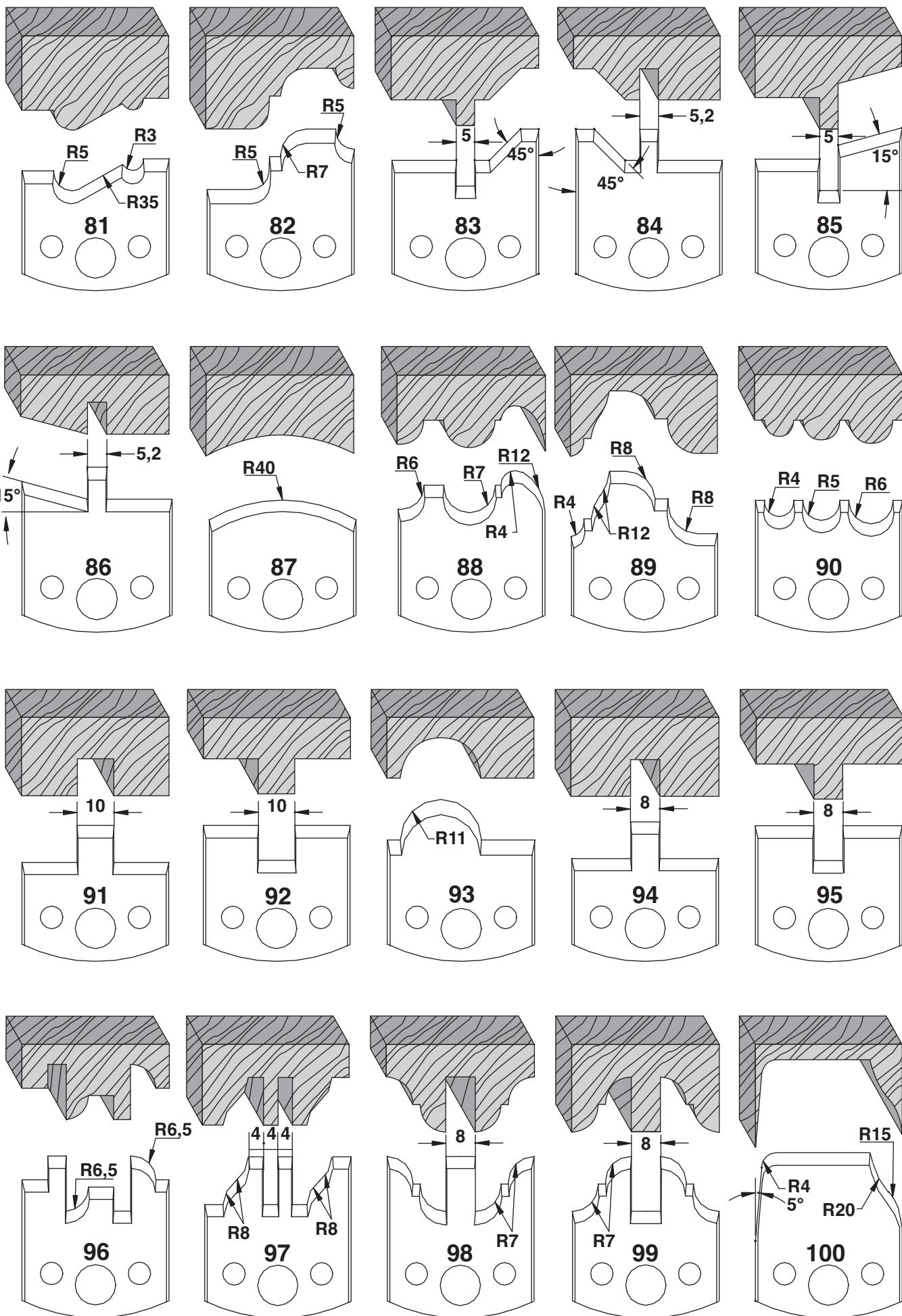
COLTELLI SAGOMATI dal n°41 al n°60



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 pâties portes.

Messerköpkasten für Möbeltüren und Türen.

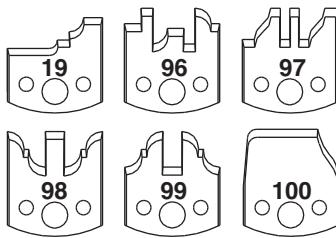
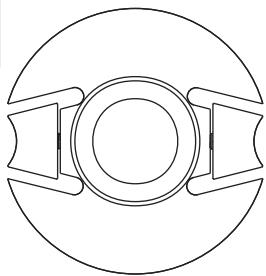
Estuche con cuchillas para puertas de muebles y puertas.

2014

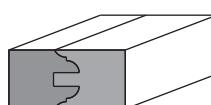
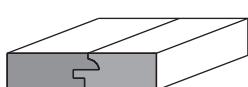
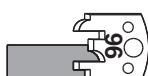
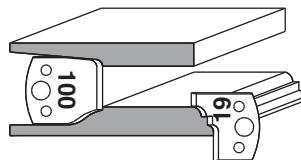
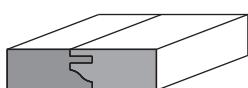
D	B	d	d/max	Z	rpm	ID nr.
93	40	30	35	2	8000	2014001
120	40	30	40	2	8000	2014002

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

MAN



PROFILI ESEGUITIBILI



RICAMBI

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

PROFILO 19		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4 2013101	40x38,5x4 2013301

PROFILO 96-99		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4 2013102	40x38,5x4 2013302

PROFILO 100		
Dimensioni	COLTELLI	LIMITATORI
ID nr.	40x40x4 2013103	40x38,5x4 2013303



MAN



Caratteristiche

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

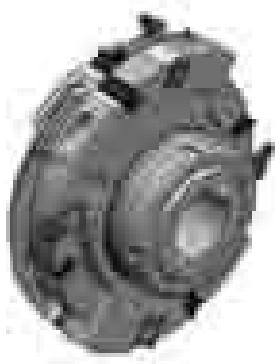
Questa cassetta è stata ideata per la profilatura di antine e portoncini.

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.

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



D/max	d+ch	Z	rpm	ID nr.
160	35+2	2	8000	2015001
160	40+2	2	8000	2015002

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

MAN

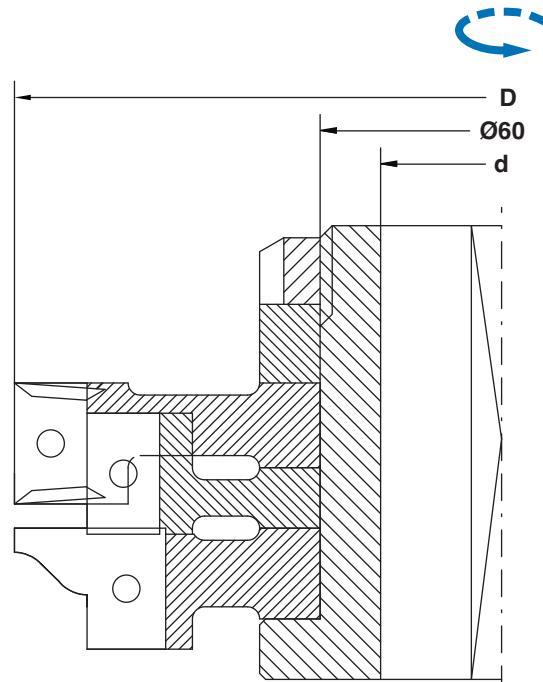


Caratteristiche

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

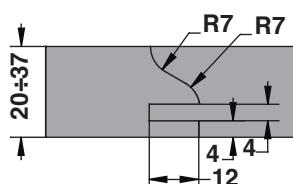
Characteristics

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

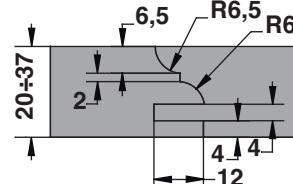


PROFILI ESEGUITIBILI

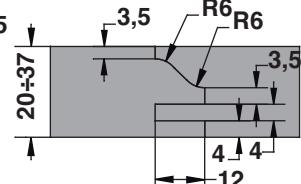
TIPO - 1



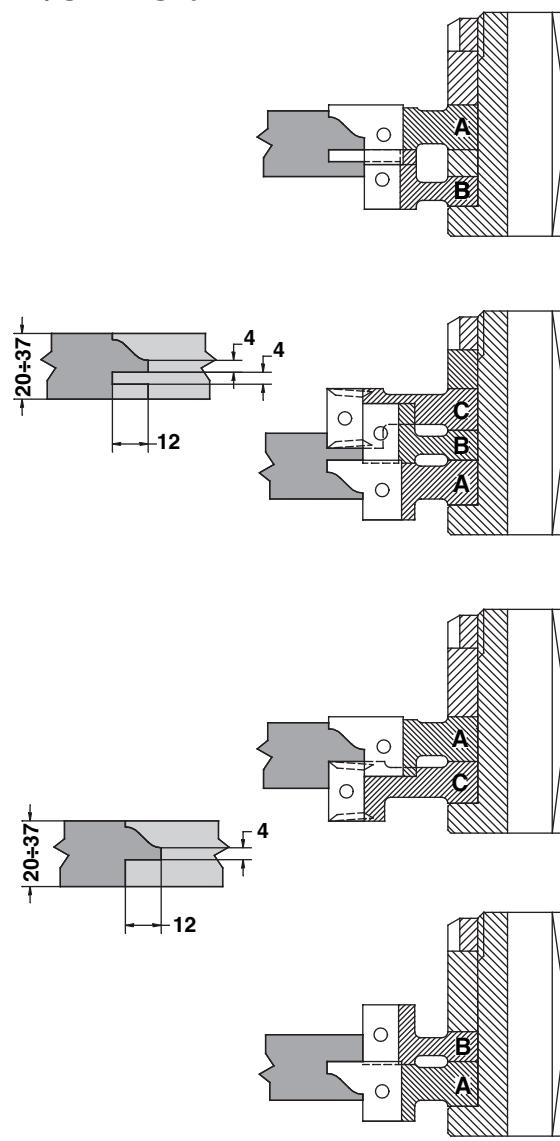
TIPO - 2



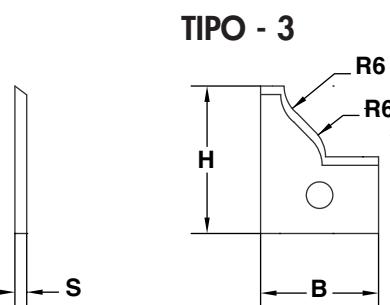
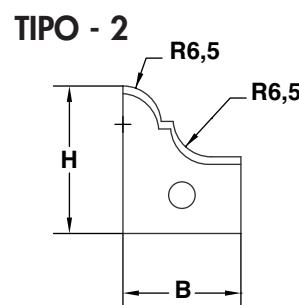
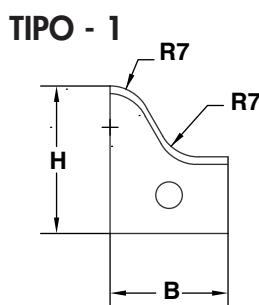
TIPO - 3



ESEMPI DI LAVORAZIONE



RICAMBI



COLTELLI SAGOMATI

TIPO	1	2	3	LARDONI
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2	18x12x7,5
ID nr.	9526001	9526002	9526003	9545005

STANDARD

TIPO	COLTELLI	LARDONI	RASANTI	INSERTI
Dimensioni BxHxS	20x12x1,5	18x12x7,5	14x14x2	16x32,5x4
ID nr.	9503005	9545005	9508002	9513

VITI

IMPIEGO	PER LARDONI	PER RASANTI	PER INSERTI
Dimensioni	M8x16	M5x6	M5x10
ID nr.	9546020	9546004	9546003

2077

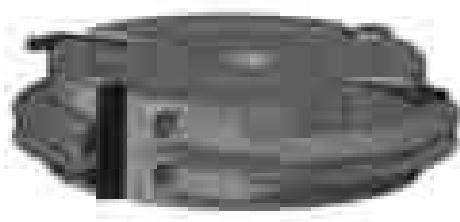
Testa portacoltelli per ante.

Cutterheads for cabinet doors.

Têtes porte-couteaux pour portes des meubles.

Messerköpfe für Möbeltüren.

Fresas perfiladas con cuchillas para puertas de muebles.



D/max	B	d	Z	rpm	ID nr.
160	40	30	2	8000	2077001
160	40	35	2	8000	2077002
160	40	40	2	8000	2077003

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

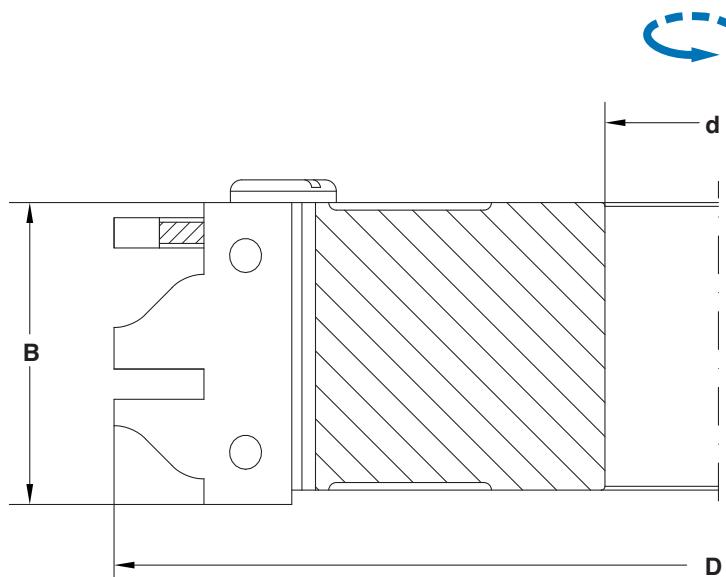


Caratteristiche

La cassetta è composta da N°1 teste portacoltelli.
Inside there are N°3 different shaped knives.

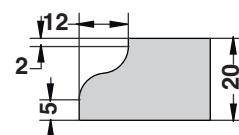
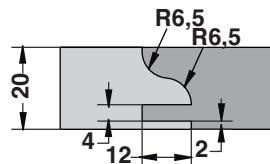
Characteristics

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

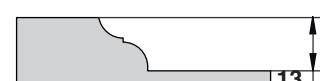
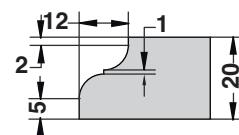
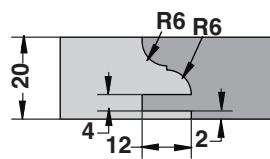


PROFILI ESEGUITIBILI

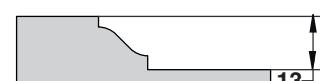
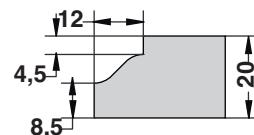
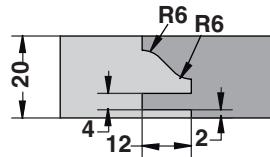
TIPO - 1



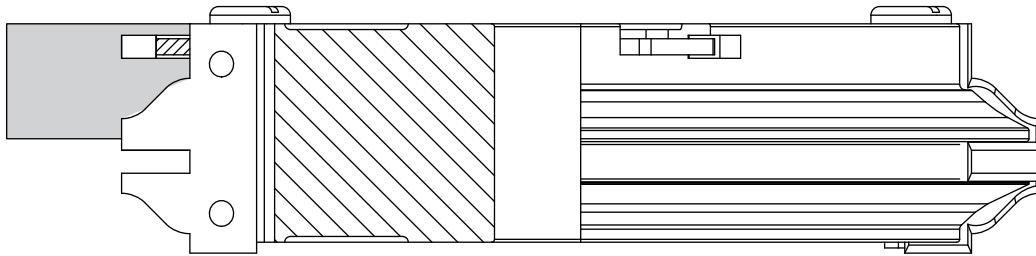
TIPO - 2



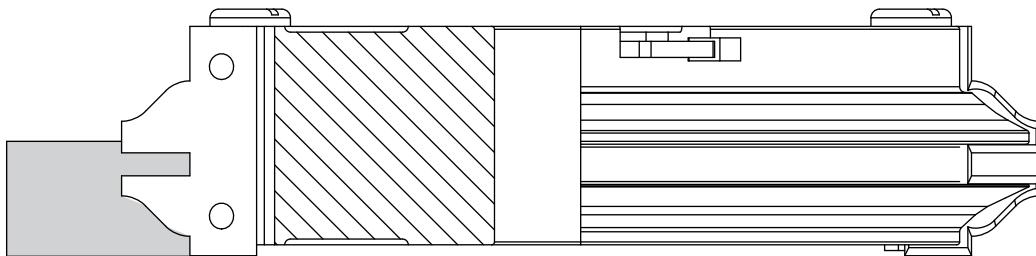
TIPO - 3



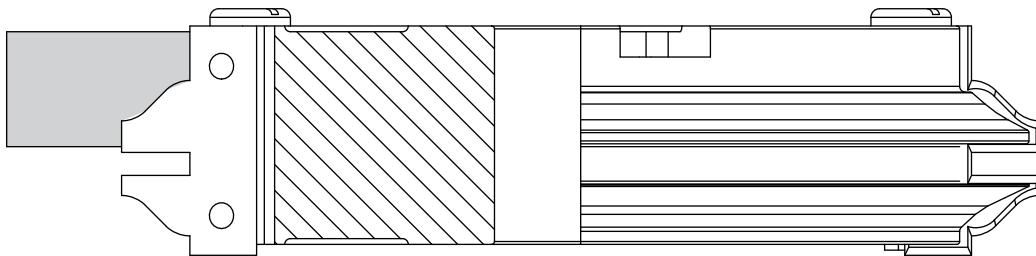
ESEMPI DI LAVORAZIONE



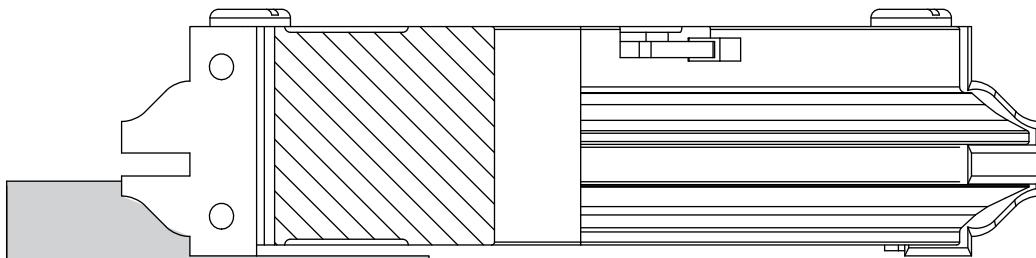
SAGOMA



CONTRO SAGOMA



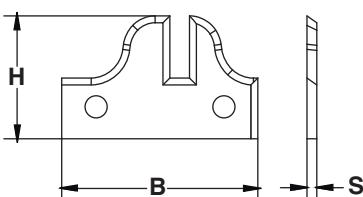
ESTERNO



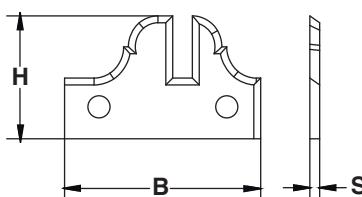
BUGNA

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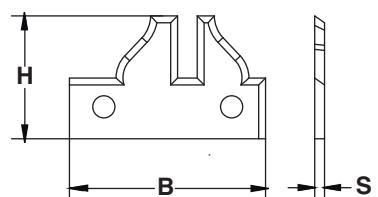
TIPO - 1



TIPO - 2



TIPO - 3



COLTELLI SAGOMATI

TIPO	1	2	3	LARDONI
Dimensioni BxHxS	40x25x2	40x25x2	40x25x2	38x12x7,5
ID nr.	9572001	9572002	9572003	9545007

STANDARD

TIPO	INSERTI	PER LARDONI	PER INSERTI
Dimensioni	16x32,5x4	M8x16	M5x10
ID nr.	9513053	9546020	9546003

2060

Testa portacoltelli multiprofilo per esecuzione di porte.

Cutterhead multiprofile to realize doors.

Tête porte-couteaux multiprofils pour portes.

Wendeplatten-Kanterkopf 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	2060001
180	25	40	2+2+2	7500	2060002

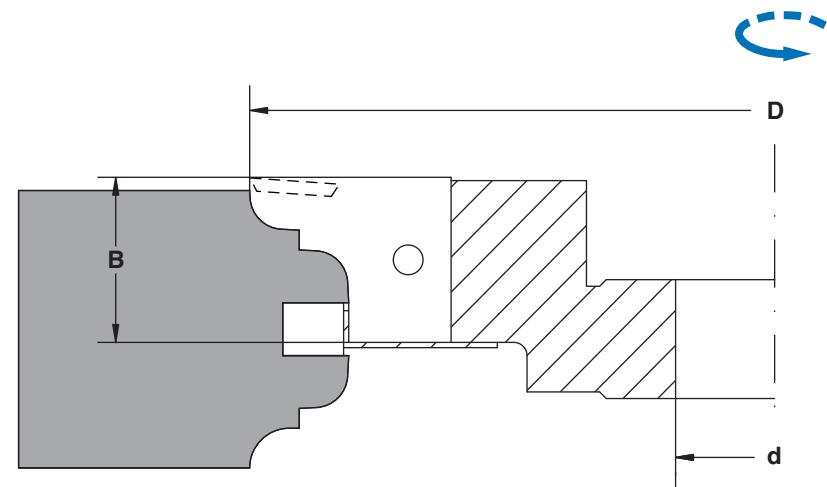


Caratteristiche

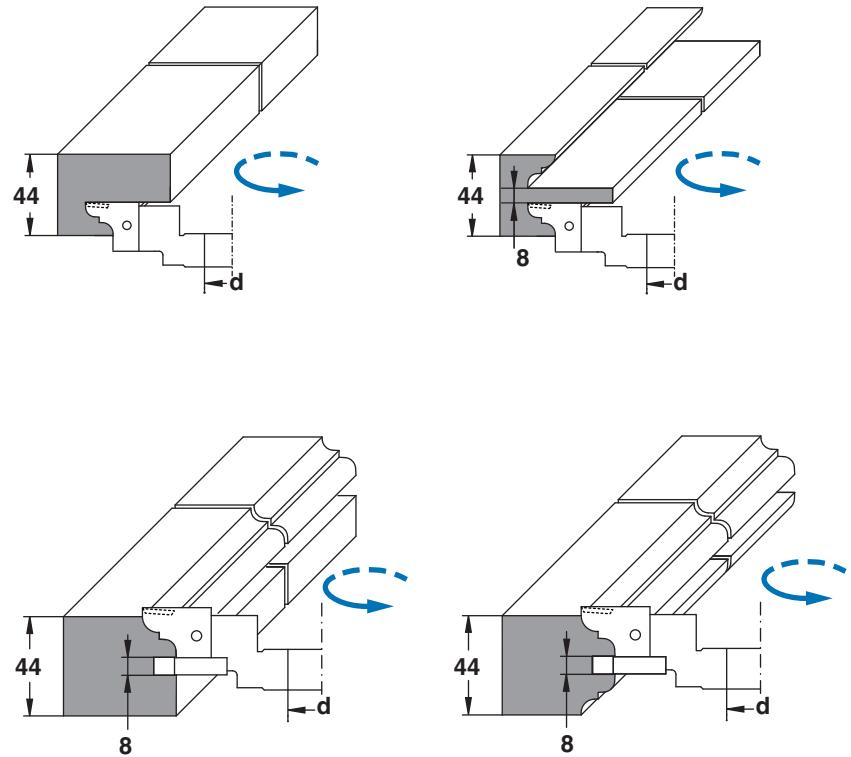
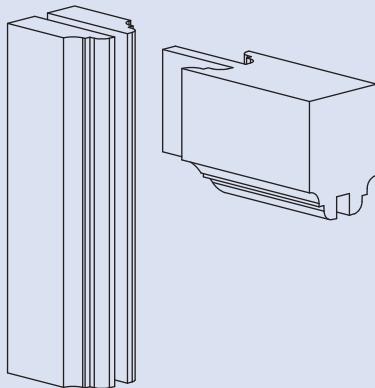
Testa per Toupie per la profilatura di porte.
È possibile ottenere porte con spessori da 44 semplicemente rovesciando il pezzo da lavorare.
Possibilità di scegliere tra le sagome proposte.
Ottima finitura su legni teneri, duri e esotici.

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.

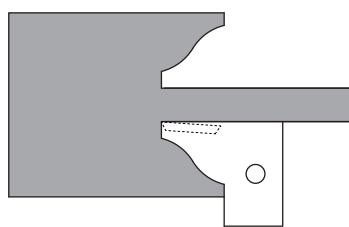
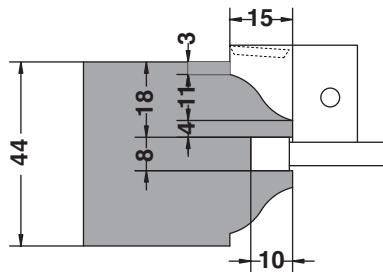


ESEMPI DI LAVORAZIONE

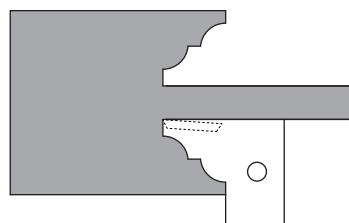
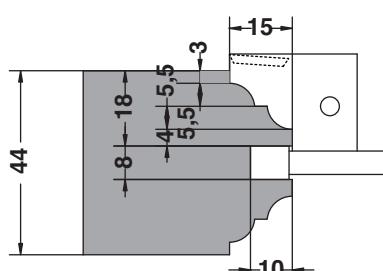


PROFILI ESEGUITIBILI

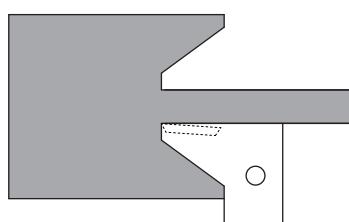
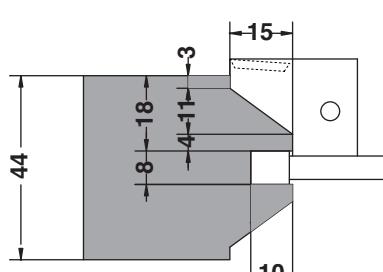
TIPO - A



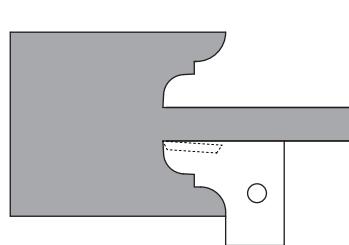
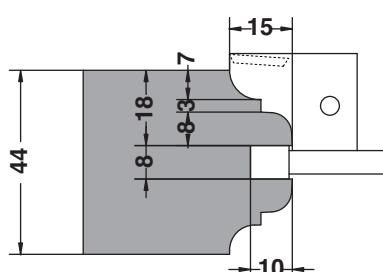
TIPO - B



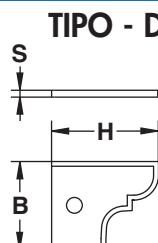
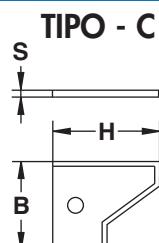
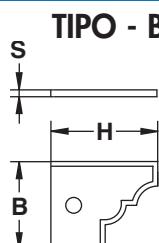
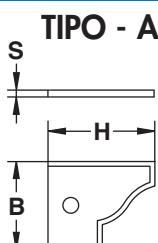
TIPO - C



TIPO - D



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COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	25x30x2	25x30x2	25x30x2	25x30x2
ID nr.	9557001	9557002	9557003	9557004

STANDARD

TIPO	LARDONI	RASANTI	INSERTI
Dimensioni BxHxS	18x12x7	14x14x2	16x32,5x8
ID nr.	9545005	9508002	9513062

VITI

IMPIEGO	PER LARDONI	PER RASANTI	PER INSERTI
Dimensioni	M8x16	M5x8	M5x10
D nr.	9546020	9546005	9546003

2016

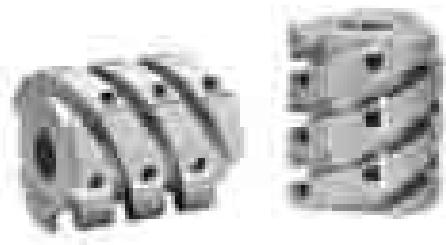
Testa portacoltelli multitaglienti per spianare in lega leggera.

Spiral staggered tooth planer cutterhead multicuts in aluminium.

Tête multideux pour raboter en aluminium.

Wendeplatten-Füge-und Hobelkopf multischneiden zu Aluminium.

Cabezal en aleación ligera multifilo cortante para alisar.



D	B	d	Z	n° coltelli	rpm	ID nr.
100	120	35	6	15	13000	2016001
100	190	35	6	24	13000	2016002
120	118	40	6	15	11500	2016003
120	184	40	6	24	11500	2016004
120	220	40	6	30	11500	2016005
120	230	40	6	30	11500	2016006
125	118	40	6	15	11000	2016007
125	140	40	6	18	11000	2016008
125	184	40	6	24	11000	2016009
125	220	40	6	30	11000	2016010
125	230	40	6	30	11000	2016011
125	240	40	6	33	11000	2016016
140	118	40	6	15	8000	2016012
140	184	40	6	24	8000	2016013
140	220	40	6	30	8000	2016014
140	230	40	6	30	8000	2016015
140	240	40	6	33	8000	2016017



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.

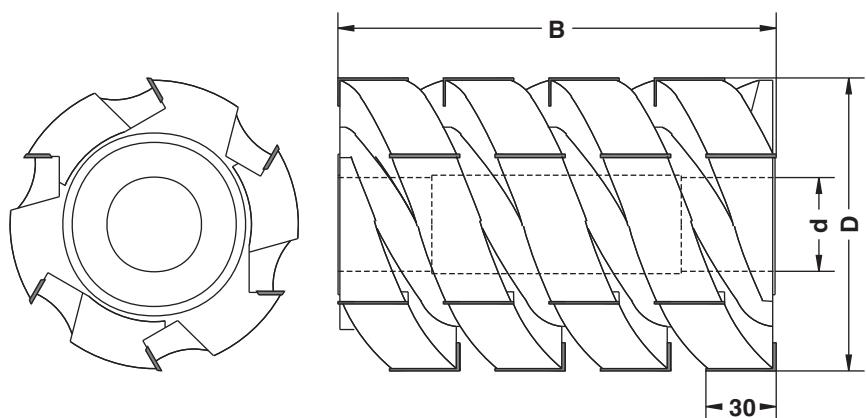
Characteristics

Cutterhead for great wood removal and high silence.

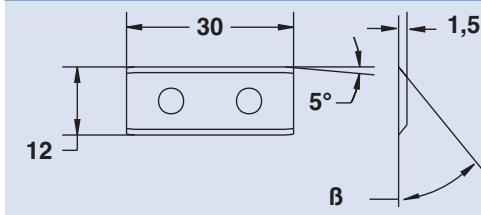
Low cost of production because the knives are reversibles and it possible to change just the damaged ones.

Corpo in acciaio aumento 20%

Steel body increase 20%



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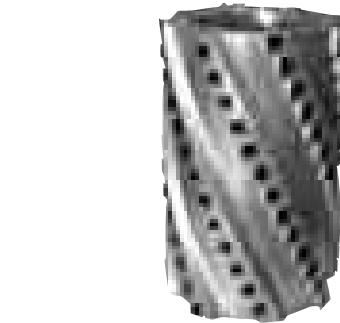
	COLTELLI	LARDONI	VITI	OGIVA	
Dimensioni	30x12x1,5-35°	30x12x1,5-45°	31,7x12x7,5	M8x22	M8 Ø12
ID nr.	9517001	9517051	9545061	9546011	9547009

Testa multitaglienti con coltelli 15x15x2,5 per spianare in lega leggera.
Spiral staggered tooth planer cutterhead in aluminium with knives 15x15x2,5.
 Tête multidents 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	11000	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



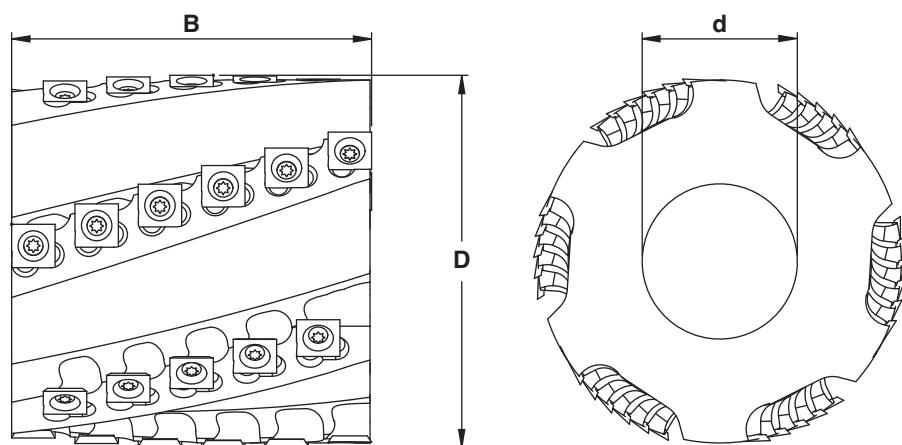
Caratteristiche

Testa portacoltelli per alberi preallattatori 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

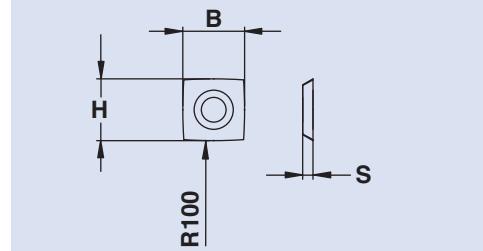
Cutterhead for great wood removal and high silence.

Low cost of production because the knives are reversibles "in 4 positions" and it is possible to change just the damage ones.



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



2062



Testa multitaglienti con coltelli 14x14x2 per spianare in lega leggera.
Spiral staggered tooth planer cutterhead in aluminium with knives 14x14x2.

Tête multidents pour raboter en aluminium avec couteaux 14x14x2.

Wendeplatten-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	2062001
100	182	35	4	34	13000	2062002
120	119	40	4	22	11500	2062003
120	182	40	4	34	11500	2062004
120	224	40	4	42	11500	2062005
120	235	40	4	44	11500	2062006
125	119	40	6	33	11000	2062007
125	140	40	6	39	11000	2062008
125	182	40	6	51	11000	2062009
125	224	40	6	63	11000	2062010
125	235	40	6	66	11000	2062011
125	245	40	6	69	11000	2062012
140	119	40	6	33	8000	2062013
140	182	40	6	53	8000	2062014
140	224	40	6	63	8000	2062015
140	235	40	6	66	8000	2062016
140	245	40	6	69	8000	2062017

MEC



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.

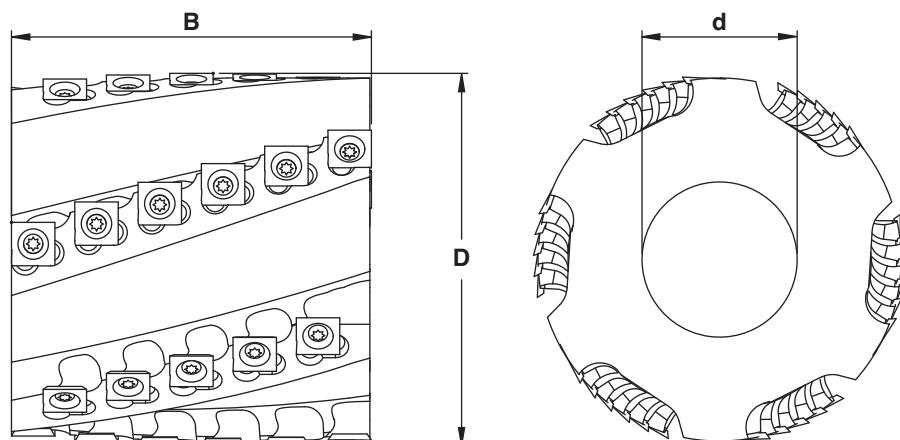
Characteristics

Cutterhead for great wood removal and high silence.

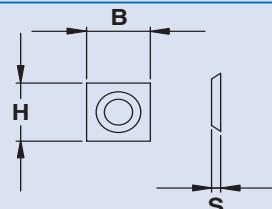
Low cost of production because the knives are reversibles "in 4 positions" and it is possible to change just the damage ones.

Corpo in acciaio aumento 20%

Steel body increase 20%



RICAMBI



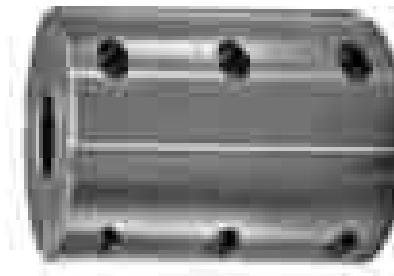
	RASANTI	VITI
Dimensioni BxHxS	14x14x2	M5x14
ID nr.	9508002	9546027

Testa pialla in lega leggera per scorticatrici con coltelli in HM sistema Bulldozer.
Planer head for automatic planer in aluminium with HM knives Bulldozer system.
 Tête porte-outil pour moulure en aluminium avec couteaux en HM système Bulldozer.
Druckleisten-hobelkopf 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	2074001
100	100	35	4	13000	2074002
100	120	35	4	13000	2074003
100	184	35	4	13000	2074004
100	220	40	4	13000	2074005
100	230	40	4	13000	2074006
120	80	40	4	9500	2074007
120	100	40	4	9500	2074008
120	120	40	4	9500	2074009
120	184	40	4	9500	2074010
120	220	40	4	9500	2074011
120	230	40	4	9500	2074012
125	80	40	4	9000	2074013
125	100	40	4	9000	2074014
125	120	40	4	9000	2074015
125	184	40	4	9000	2074016
125	220	40	4	9000	2074017
125	230	40	4	9000	2074018
125	250	40	4	9000	2074019
140	80	40	4	7000	2074020
140	100	40	4	7000	2074021
140	120	40	4	7000	2074022
140	184	40	4	7000	2074023
140	220	40	4	7000	2074024
140	230	40	4	7000	2074025
140	250	40	4	7000	2074026

Corpo in acciaio aumento 20%
 Steel body increase 20%

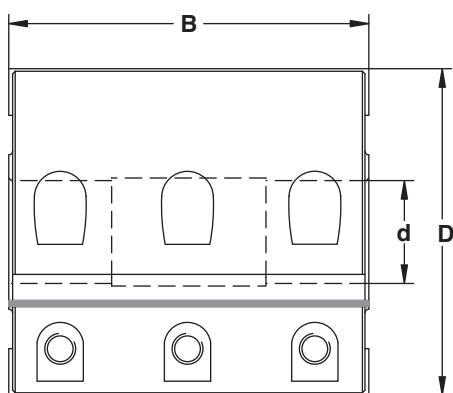
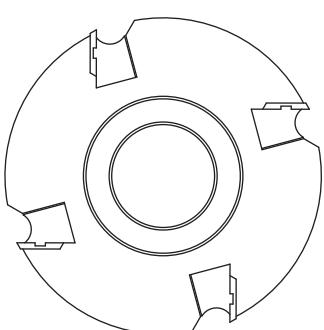


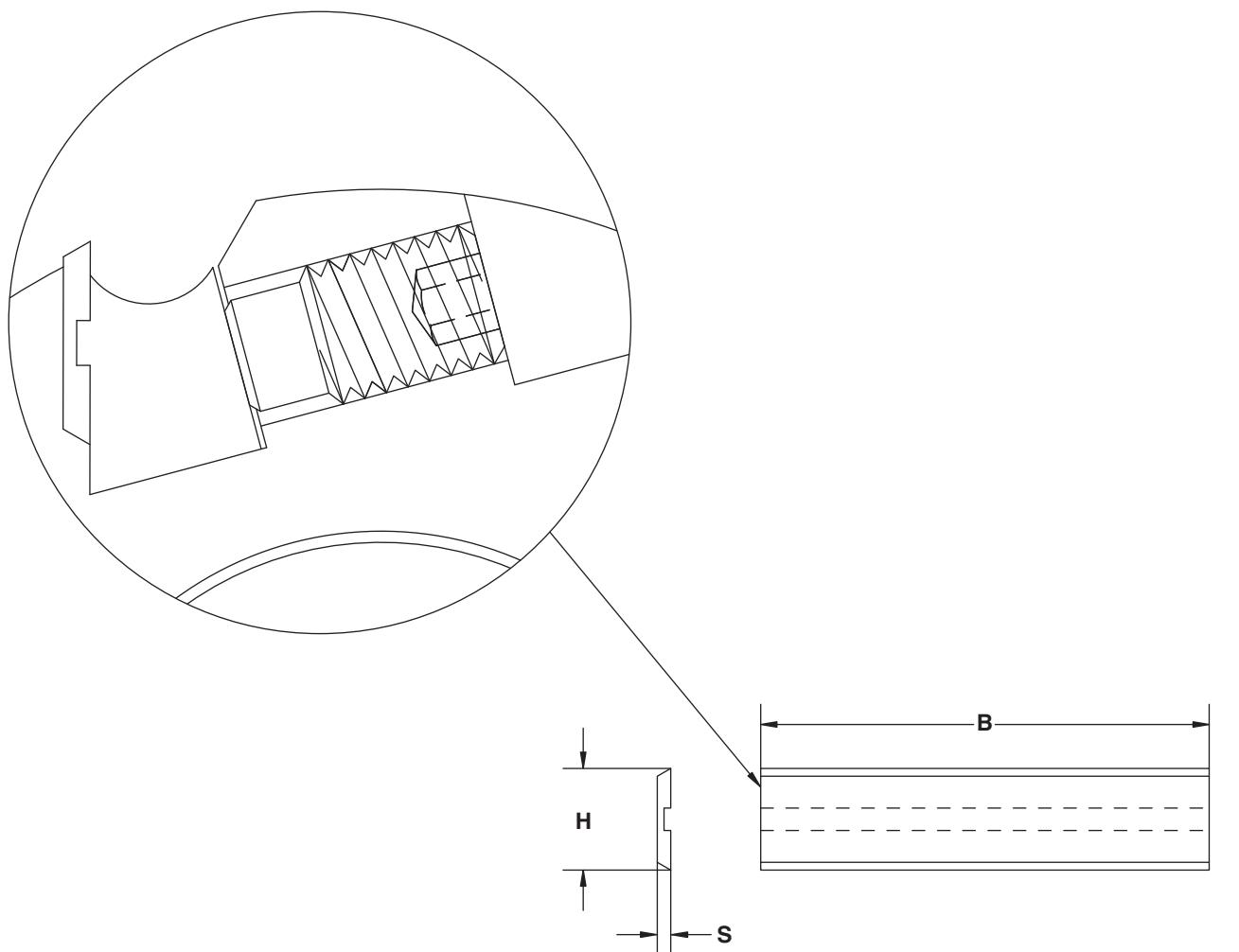
Caratteristiche

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.





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.	9565001	9565002	9565003	9565004	9565005	9565006	9565007

LARDONI							
Dimensioni	80	100	120	184	220	230	250
ID nr.	2074501	2074502	2074503	2074504	2074505	2074506	2074507

VITI							
Dimensioni	M10x25						
ID nr.	9546023						

Testa portacoltelli per spianare in lega leggera per scorniciatrici.

Planer head for automatic modular in aluminium.

Tête porte-outil pour moulure en aluminium.

Druckleisten-hobelkopf zu Aluminium.

Cabezal en aleación ligera para cepillar.

2075

D	B	d	Z	rpm	ID nr.
125	30	35	4	10500	2075001
125	30	40	4	10500	2075002
125	40	35	4	10500	2075003
125	40	40	4	10500	2075004
125	50	35	4	10500	2075005
125	50	40	4	10500	2075006
140	30	35	4	9000	2075007
140	30	40	4	9000	2075008
140	40	35	4	9000	2075009
140	40	40	4	9000	2075010
140	50	35	4	9000	2075011
140	50	40	4	9000	2075012

Corpo in acciaio aumento 20%
Steel body increase 20%



MEC



Caratteristiche

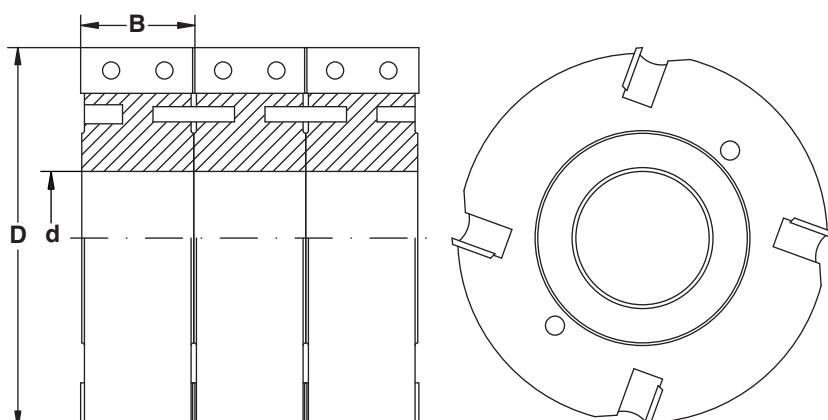
Teste per piallare su scorniciatrice con coltelli reversibili e corpo in alluminio ad alta resistenza.

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

Characteristics

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

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



RICAMBI

PER ART. 2075001/2/7/8	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	30x12x1,5	28x12x7,5	M6x16
ID nr.	9503006	9545006	9546018

PER ART. 2075003/4/9/10	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	40x12x1,5	38x12x7,5	M6x16
ID nr.	9503007	9545007	9546018

PER ART. 2075005/6/11/12	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x12x1,5	48x12x7,5	M6x16
ID nr.	9503008	9545008	9546018

Teste piatta in lega leggera per scorniciatrici con coltelli in HSS 18%.
Planer heads for automatic moduler with knives HSS 18% in aluminium.
 Têtes porte-outils pour muoluriere 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.



MEC			
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Caratteristiche

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

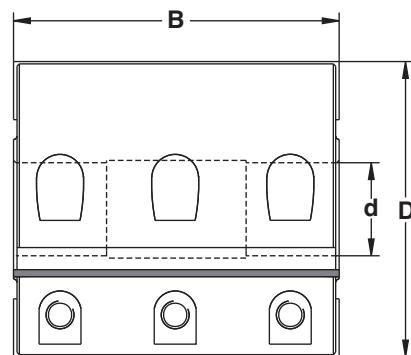
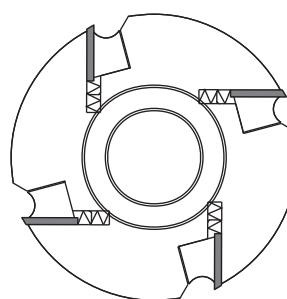
Characteristics

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	2017001
125	100	40	4	9000	2017002
125	120	40	4	9000	2017003
125	130	40	4	9000	2017004
125	140	40	4	9000	2017005
125	150	40	4	9000	2017006
125	180	40	4	9000	2017007
125	190	40	4	9000	2017008
125	220	40	4	9000	2017009
125	230	40	4	9000	2017010
125	240	40	4	9000	2017011
125	245	40	4	9000	2017012

Corpo in acciaio aumento 20%

Steel body increase 20%



RICAMBI

COLTELLI

BxHxS	80x30x3	100x30x3	120x30x3	130x30x3	140x30x3	150x30x3
ID nr.	9501001	9501002	9501003	9501004	9501005	9501006

COLTELLI

BxHxS	180x30x3	190x30x3	220x30x3	230x30x3	240x30x3	245x30x3
ID nr.	9501009	9501010	9501013	9501014	9501015	9501016

LARDONI

Dimensioni	80	100	120	130	140	150
ID nr.	2017501	2017502	2017503	2017504	2017505	2017506

LARDONI

Dimensioni	180	190	220	230	240	245
ID nr.	2017509	2017510	2017513	2017514	2017515	2017516

VITI

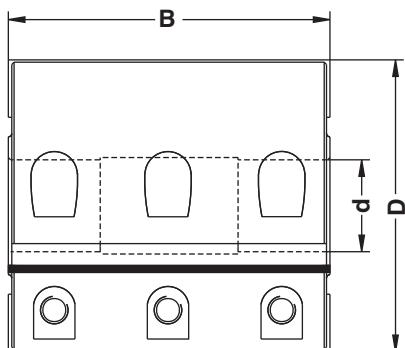
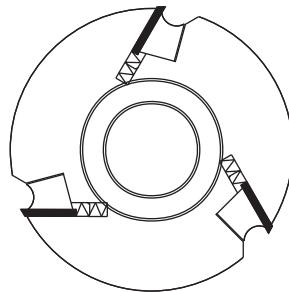
Dimensioni	M10x25
ID nr.	9546023

Teste piatta in lega leggera per scorniciatrici con coltelli in HSS 18%.
Planer heads for automatic modular 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

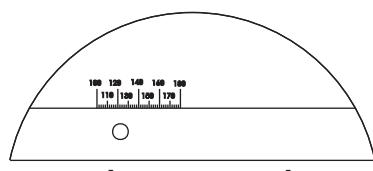
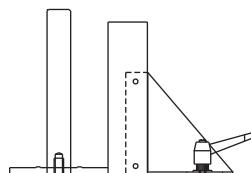
D	B	d	Z	rpm	ID nr.
100	120	35	3	13000	2017021
100	190	35	3	13000	2017022

Corpo in acciaio aumento 20%
 Steel body increase 20%



CALIBRO REGISTRACOLTELLI UNIVERSALE		
PER FORO d=	35	40

ID nr. 2017031 2017032

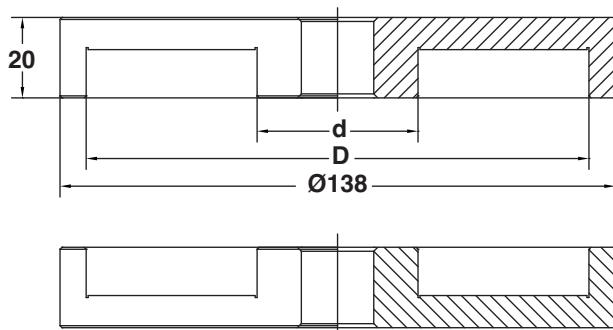


Particolare "A" scala 2:1

CALIBRO REGISTRACOLTELLI		
PER FORO d=	35	40
PER TESTE D=	100	125

ID nr. 2017041* 2017042*

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



RICAMBI

	COLTELLI	LARDONI	VITI
Dimensioni	120x25x3	190x25x3	120

ID nr. 9501201 9501202 2017503 190 M10x25
 ID nr. 9546023



Caratteristiche

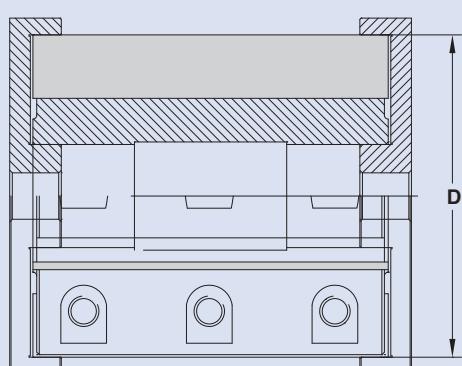
Testa piatta ad alta resistenza per piallature. In dotazione la testa monta coltelli in HSS 18%, ma su richiesta si possono avere coltelli in HM.

Characteristics

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



Esempio di montaggio



2063



MEC



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.

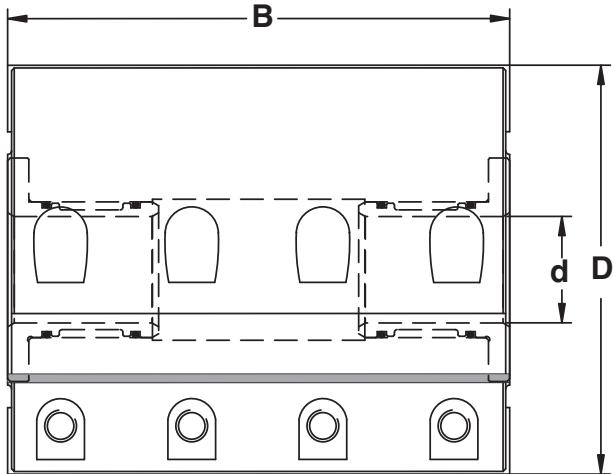
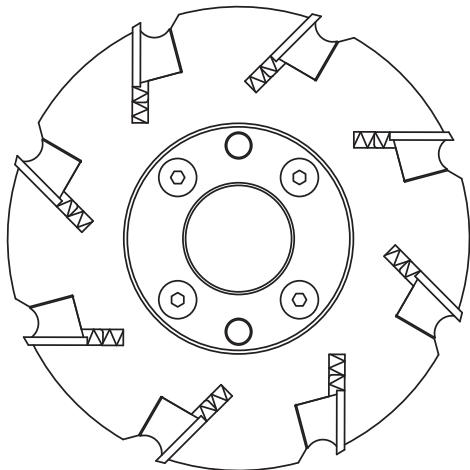
The cutterhead has knives 30x3 in HSS 18%, but on request it is possible to have them in HM. Body in steel with Hidro bushes that fix the tool to the shaft of the machine.

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

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



D	B	d	Z	rpm	MACCHINA	ID nr.
120	12	35	3+3	10000	SCM	2018001
145	12	40	4+2	9000	GRIGGIO	2018007
150	12	40	4+2	9000	SCM	2018003
154	12	40	4+2	9000	SICAR	2018004
165	12	40	4+2	9000	SCM	2018005
174	10	40	2+2	8000	SICAR	2018006

MAN

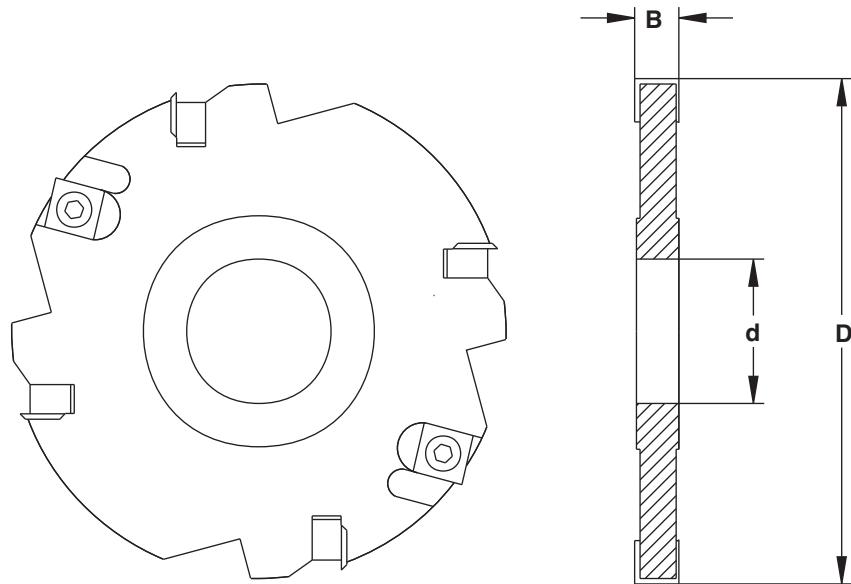


Caratteristiche

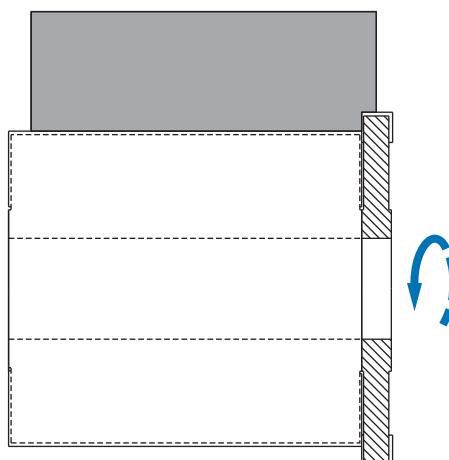
Testa portacoltelli con rasanti da abbinare ai gruppi prepiallatori della scorniciatrice per eseguire su legno la battuta di appoggio.

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.	9503003	9545003	9503002	9545002	9546018

	RASANTI	VITI
Dimensioni	14x14x2	M5x8
ID nr.	9508002	9546005

Gruppi prepiallatori per banchi rigati.

Guide groove moulder cutterhead.

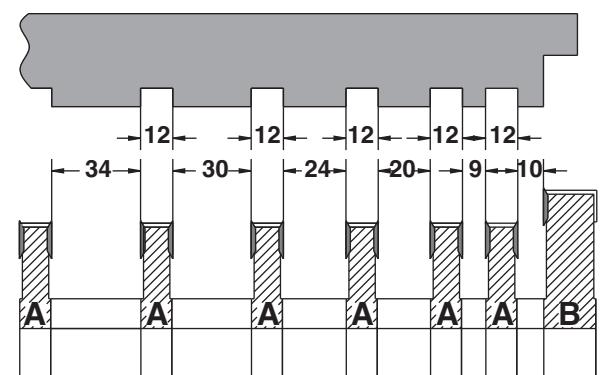
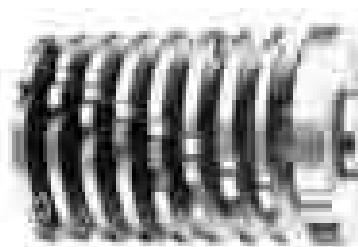
Groupes pour rainer sur moulurier.

Wendeplatten-Nutbetsatz.

Juego de precepilladores para mesas rayadas.

2019

D	B	d	Z	TIPO	ID nr.
120	12	40	4+4	A	2019001
145	20	40	4+2	B	2019002
125	10	40	4+4	C	2019003
125	9	40	4+4	D	2019004
125	17	40	4+2	E	2019005
125	20	40	4+2	F	2019006



Piano rigato - SCM

	L=80	L=100	L=120	L=140	L=170
TIPO - A	/	/	/	/	6
TIPO - B	/	/	/	/	1
ID nr.	/	/	/	/	2019051



Caratteristiche

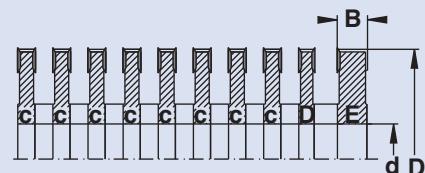
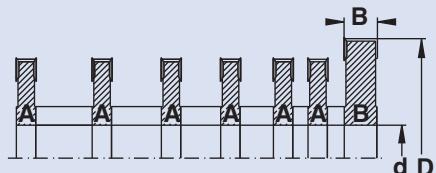
Combinazione di teste portacoltelli con coltellini reversibili per prepialatura.

Characteristics

Set of cutterheads with reversible knives for pre-grooving.

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.	2019061	2019062	2019063	2019064	2019065



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.	9503003	9545003	9503002	9545002	9503001	9545001

	COLTELLI	LARDONI	COLTELLI	LARDONI	RASANTI
Dimensioni	15x12x1,5	13x12x7,5	20x12x1,5	18x12x7,5	14x14x2
ID nr.	9503004	9545004	9503005	9545005	9508002

VITI

IMPIEGO	PER COLTELLI		PER RASANTI	
Dimensioni	M5x16		M6x16	
ID nr.	9546015		9546018	
				9546005

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

MEC			
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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

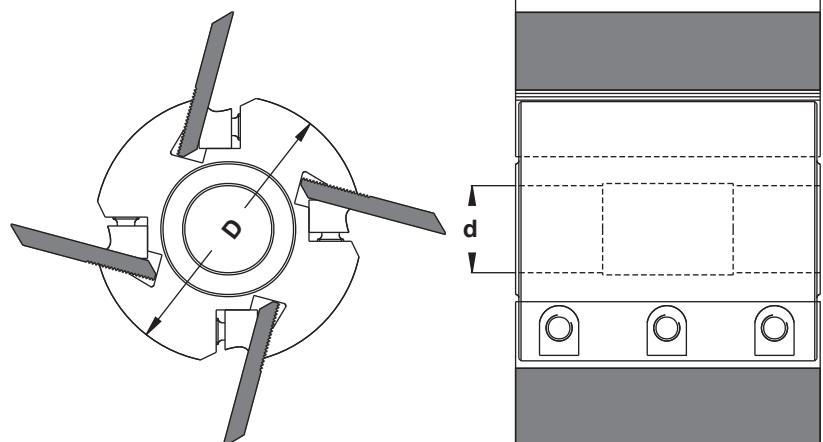
The tool is supplied without knives.

Cutterhead in steel with knives in HSS with thickness 8mm.

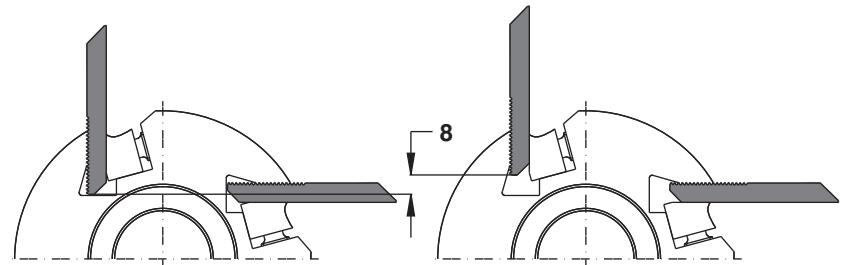
The ruled of knives and of seat gives security and precision.

The cutterhead is supplied without knives that will sharped 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

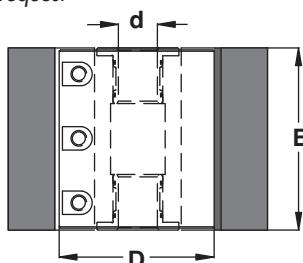
Teste portacoltelli sagomati in acciaio, con serraggio HIDRO.
Cutterheads with shaped steel knives and HIDRO system.
 Têtes porte-couteaux avec couteaux profilés en acier et système HIDRO.
Profil-Köpf mit Messer zu Stahl und HIDRO System.
 Cabezales con cuchillas perfiladas en acero y con sistema HIDRO.

2064

D	B	d	Z	rpm	ID nr.
152	60	40	4	8000	2064001
152	60	50	4	8000	2064002
152	100	40	4	8000	2064003
152	100	50	4	8000	2064004
152	130	40	4	8000	2064005
152	130	50	4	8000	2064006
152	150	40	4	8000	2064007
152	150	50	4	8000	2064008
152	180	40	4	8000	2064009
152	180	50	4	8000	2064010
152	230	40	4	8000	2064011
152	230	50	4	8000	2064012
152	60	40	6	8000	2064021
152	60	50	6	8000	2064022
152	100	40	6	8000	2064023
152	100	50	6	8000	2064024
152	130	40	6	8000	2064025
152	130	50	6	8000	2064026
152	150	40	6	8000	2064027
152	150	50	6	8000	2064028
152	180	40	6	8000	2064029
152	180	50	6	8000	2064030
152	230	40	6	8000	2064031
152	230	50	6	8000	2064032
163	60	40	8	7600	2064041
163	60	50	8	7600	2064042
163	100	40	8	7600	2064043
163	100	50	8	7600	2064044
163	130	40	8	7600	2064045
163	130	50	8	7600	2064046
163	150	40	8	7600	2064047
163	150	50	8	7600	2064048
163	180	40	8	7600	2064049
163	180	50	8	7600	2064050
163	230	40	8	7600	2064051
163	230	50	8	7600	2064052

Esecuzione foro d = 60 a richiesta

Execution with bore d = 60 by request



RICAMBI

COLTELLI SAGOMATI

ID nr.	9502

2073



MEC

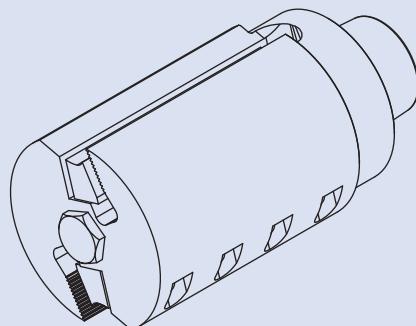


Caratteristiche

Corpo utensile escluso coltelli.
Testa in acciaio portacoltelli in 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.

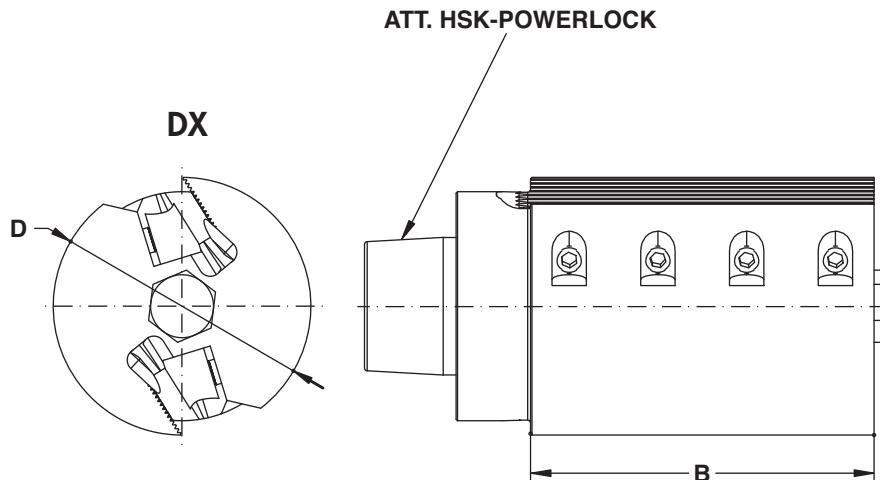
Characteristics

The tool is supplied without knives.
Cutterhead in steel with 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 sharped on request, see list.

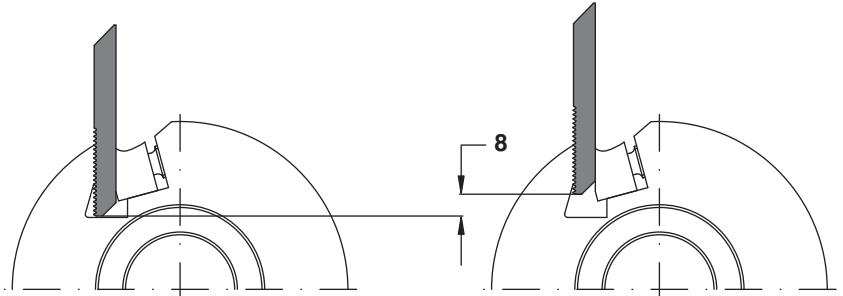


Teste PowerLock portacoltelli sagomati in acciaio per macchine Weinig.
PowerLock cutterheads with shaped steel knives for Weinig machine.
Têtes PowerLock avec couteaux profilés en acier pour machine Weinig.
Profil-Köpf PowerLock mit Messer zu Stahl für Weinig machine.
Cabezales PowerLock con cuchillas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

D	B	Att.	Z	rpm	ID nr. DX	ID nr. SX
90	40	HSK-PowerLock	2	1200	2073 001	2073 002
90	60	HSK-PowerLock	2	1200	2073 003	2073 004
90	80	HSK-PowerLock	2	1200	2073 005	2073 006
90	100	HSK-PowerLock	2	1200	2073 007	2073 008
90	130	HSK-PowerLock	2	1200	2073 009	2073 010
90	150	HSK-PowerLock	2	1200	2073 011	2073 012
90	170	HSK-PowerLock	2	1200	2073 017	2073 018
90	180	HSK-PowerLock	2	1200	2073 013	2073 014
90	190	HSK-PowerLock	2	1200	2073 019	2073 020
90	210	HSK-PowerLock	2	1200	2073 021	2073 022
90	230	HSK-PowerLock	2	1200	2073 015	2073 016
90	40	HSK-PowerLock	3	1200	2073 051	2073 052
90	60	HSK-PowerLock	3	1200	2073 053	2073 054
90	80	HSK-PowerLock	3	1200	2073 055	2073 056
90	100	HSK-PowerLock	3	1200	2073 057	2073 058
90	130	HSK-PowerLock	3	1200	2073 059	2073 060
90	150	HSK-PowerLock	3	1200	2073 061	2073 062
90	170	HSK-PowerLock	3	1200	2073 063	2073 064
90	180	HSK-PowerLock	3	1200	2073 065	2073 066
90	190	HSK-PowerLock	3	1200	2073 067	2073 068
90	210	HSK-PowerLock	3	1200	2073 069	2073 070
90	230	HSK-PowerLock	3	1200	2073 071	2073 072

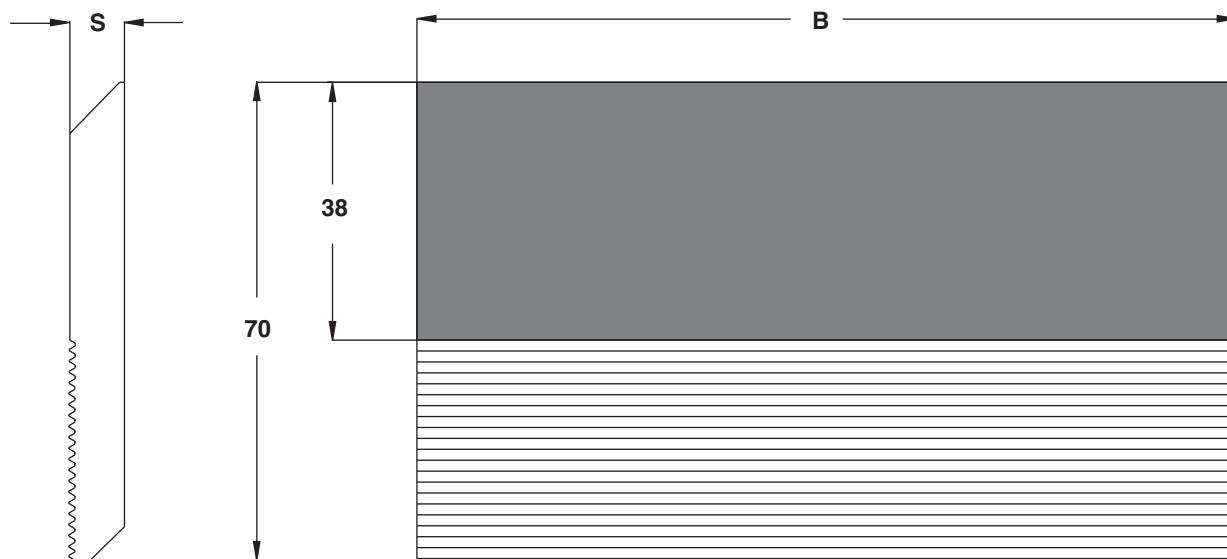
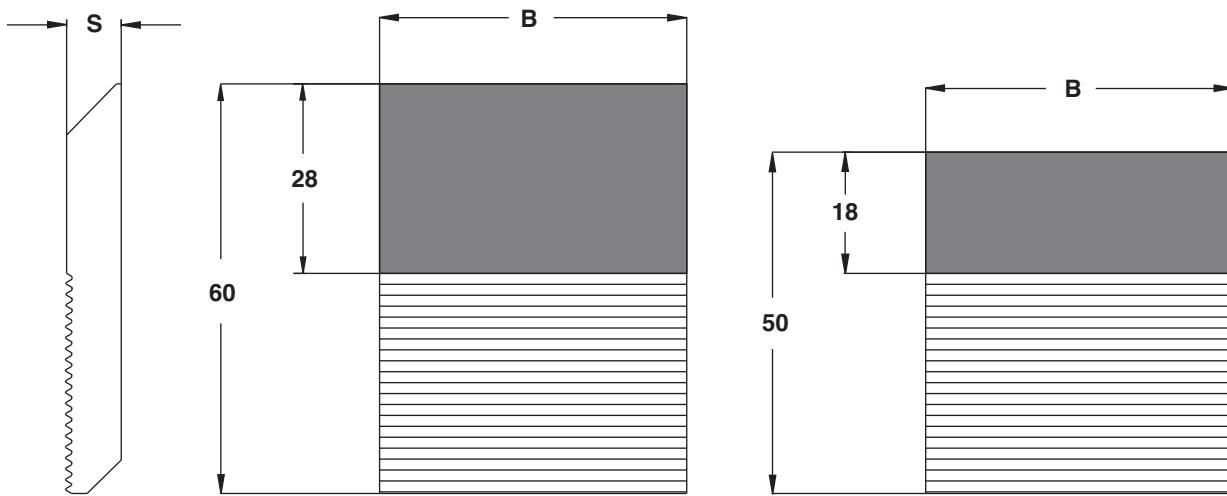


REGOLAZIONE 8mm PER AFFILATURA



RICAMBI

ID nr.	COLTELLI SAGOMATI
	9502



RICAMBI

COLTELLI IN HSS

DA SAGOMARE		SAGOMATI		DA SAGOMARE		SAGOMATI		DA SAGOMARE		SAGOMATI	
BxHxS	ID nr.	ID nr.	BxHxS	ID nr.	ID nr.	BxHxS	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



MEC



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 production because the knives are reversible "in 4 positions" and it is possible to change just the damage ones.



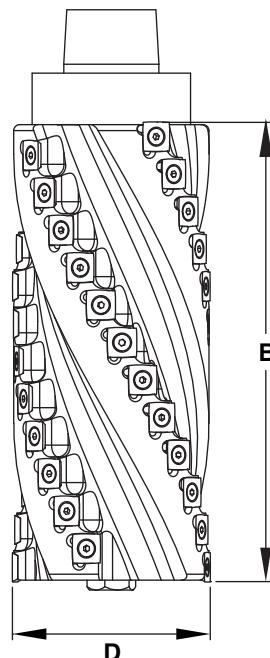
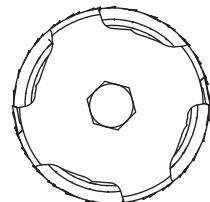
Testa elicoidale PowerLock multitaglienti con coltelli 15x15x2,5 per spianare in acciaio.
Spiral Powerlock staggered tooth planer cutterhead in steel with knives 15x15x2,5.

Tête Powerlock multidents hélicoïdal pour raboter en acier avec couteaux 15x15x2,5

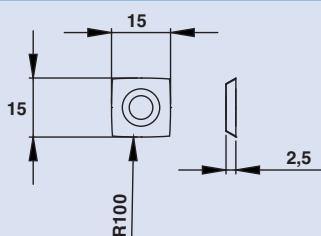
Fräser PowerLock multischneiden schraubenförmig zu Stahl mit Messern 15x15x2,5

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	2078001
100	190	HSK-PowerLock	4	40	1200	2078002
100	210	HSK-PowerLock	4	44	1200	2078003
100	230	HSK-PowerLock	4	48	1200	2078004



RICAMBI



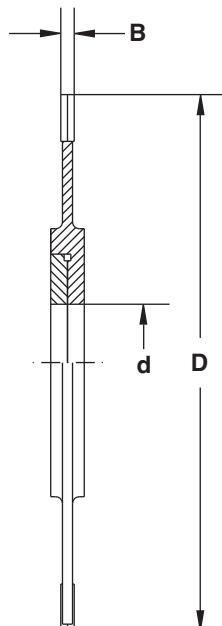
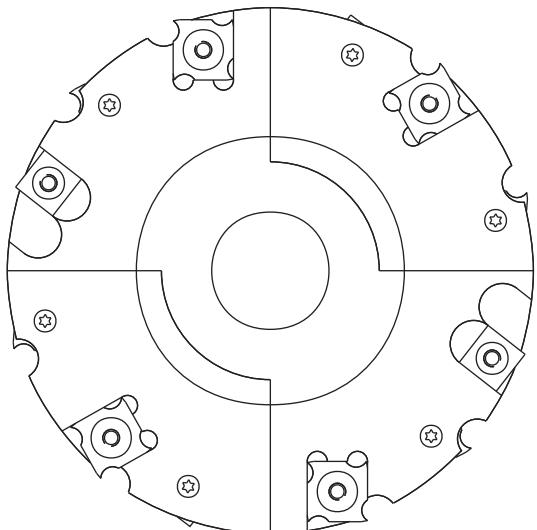
	COLTELLI	VITI
Dimensioni	15x15x2,5	M5x14
ID nr.	9508011	9546027

Testa portacoltelli per canali sottili regolabile con anelli.
Grooving cutterhead adjustable by rings.
 Tête porte-couteaux à rainer réglable par anneaux.
Wendeplatten-Verstellnutter.
 Cabezal para pequeñas ranuras regulables por medio de anillos.

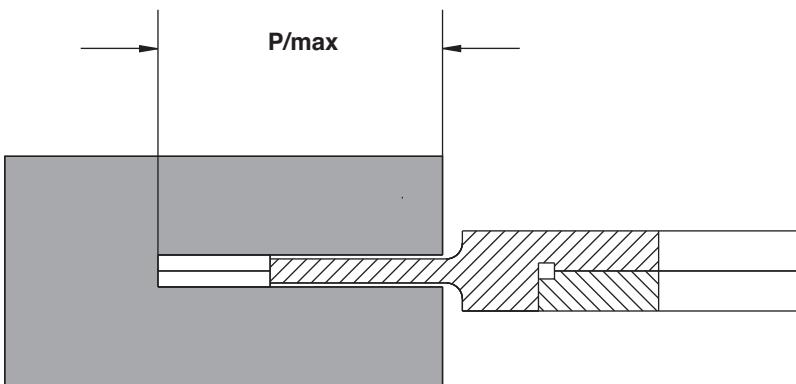
2021

D	B	P/max	d	Z	rpm	ID nr.
120	4÷7,5	25	30	8+4	10500	2021002
120	4÷7,5	25	35	8+4	10500	2021004
160	4÷7,5	30	35	8+4	8000	2021005
160	4÷7,5	30	40	8+4	8000	2021006
200	4÷7,5	40	35	8+4	6000	2021003
200	4÷7,5	40	40	8+4	6000	2021007

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



ESEMPIO DI LAVORAZIONE



RICAMBI

ROSETTE		RASANTI		
Dimensioni	18x18x1,95	14x14x1,2		
ID nr.		9509001	9508001	
PER ROSETTE		PER RASANTI		
Dimensioni	VITI M4x3	CONTROVITI M4 Ø11,6	VITI M5x6	CONTROVITI M4 Ø10,2
ID nr.	9546008	9547002	9546004	9547001



MAN



Caratteristiche

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

Characteristics

Grooving cutterhead adjustable with reversible knives and complete of spacers.

2022

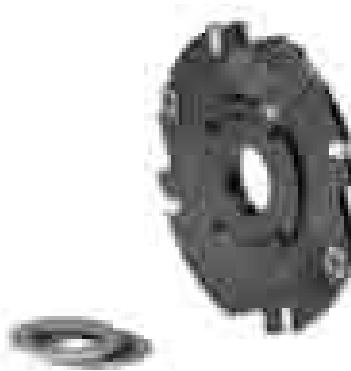
Teste portacoltelli per canali regolabili mediante anelli.

Grooving cutterheads adjustable by rings.

Têtes porte-couteaux à rainer réglable par anneaux.

Wendeplatten-Verstellnuter.

Cabezales para ranuras regulables por medio de anillos.



Caratteristiche

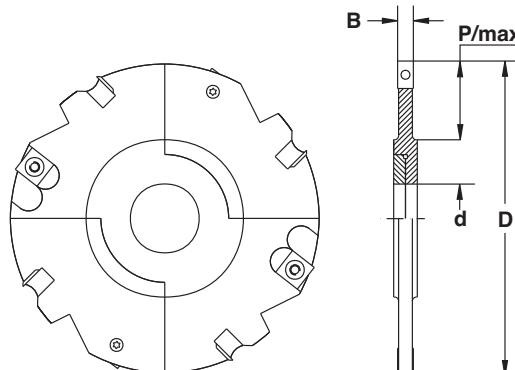
Testa portacoltelli regolabile per canali con coltellini reversibili completa di distanziali.

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	2022016
160	8÷15,5	35	35	4+4	8000	2022006
160	8÷15,5	35	40	4+4	8000	2022007
160	12,5÷24	35	35	4+4	8000	2022008
160	12,5÷24	35	40	4+4	8000	2022009
160	15,5÷30	35	35	4+4	8000	2022010
160	15,5÷30	35	40	4+4	8000	2022011
160	20,5÷40	35	35	4+4	8000	2022012
160	20,5÷40	35	40	4+4	8000	2022013
160	30,5÷60	35	35	4+4	8000	2022014
160	30,5÷60	35	40	4+4	8000	2022015
200	8÷15,5	40	35	4+4	6000	2022017
200	8÷15,5	40	40	4+4	6000	2022018
200	12,5÷24	40	35	4+4	6000	2022019
200	12,5÷24	40	40	4+4	6000	2022020
200	15,5÷30	40	35	4+4	6000	2022021
200	15,5÷30	40	40	4+4	6000	2022022

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.	9503001	9545001	9546015	9508002	9546005

PER ART. 2022008/009/019/020	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	12x12x1,5	10x12x7,5	M6x16	14x14x2	M5x8
ID nr.	9503003	9545003	9546018	9508002	9546005

PER ART. 2022010/011/021/022	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	15x12x1,5	13x12x7,5	M6x16	14x14x2	M5x8
ID nr.	9503004	9545004	9546018	9508002	9546005

PER ART. 2022012/013	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	20x12x1,5	18x12x7,5	M6x16	14x14x2	M5x8
ID nr.	9503005	9545005	9546018	9508002	9546005

PER ART. 2022014/015	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	30x12x1,5	28x12x7,5	M6x16	14x14x2	M5x8
ID nr.	9503006	9545006	9546018	9508002	9546005

Teste portacoltelli per incastri sottili, per macchine tipo lamello.

Thin-groove cutterheads for lamello machine and similar.

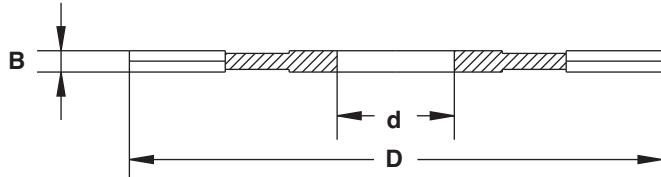
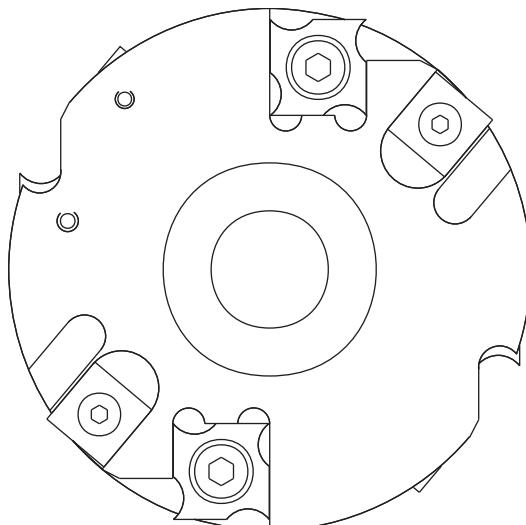
Têtes porte-couteaux pour rainures minces pour machine lamello et similaires.

Nut-Messerköpf für Lamellen, Verwendbar für Lamello-Virbindungsplättchen.

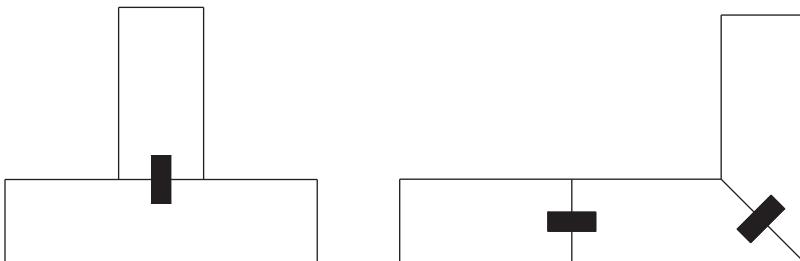
Cabezales para machihembrados finos que utilizan las máquinas del tipo lamello.

2024

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

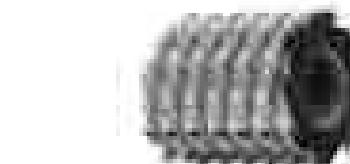


ESEMPIO DI LAVORAZIONE



RICAMBI

	ROSETTE		RASANTI	
Dimensioni	18x18x1,95		14x14x1,2	
ID nr.	9509001		9508001	
	PER ROSETTE		PER RASANTI	
Dimensioni	VITI M4x3	CONTROVITI M4 Ø11,6	CONTROVITI M4 Ø10,2	
ID nr.	9546008	9547002	9547001	



MAN



Caratteristiche

Testa portacoltelli reversibili per esecuzione di incastri su macchine portatili.

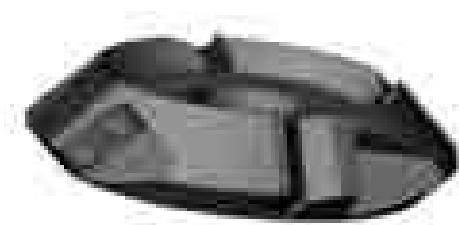
Lamello Standard e Lamello Top.

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 inclinée à 45°.
Messerkopf geneigen 45°.
 Cabezales con cuchillas inclinado 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

MAN

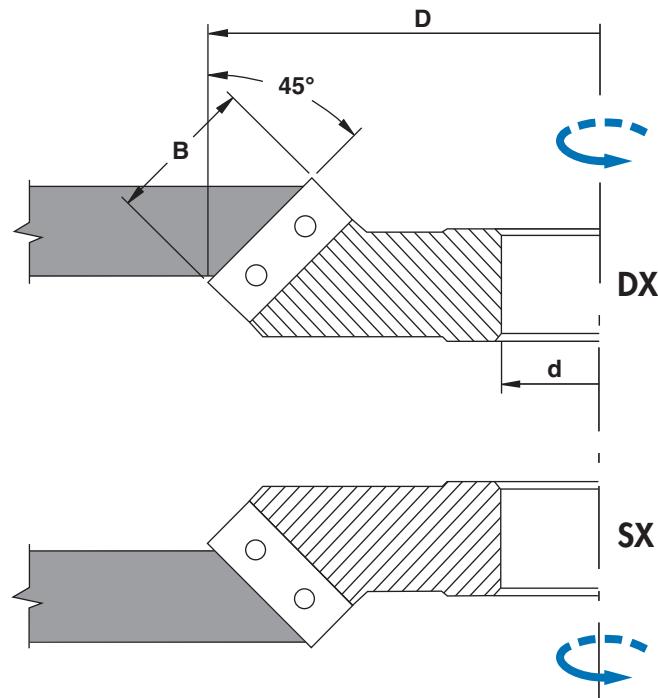


Caratteristiche

Testa portacoltelli prismatica con coltelli reversibili per taglio pannelli.

Characteristics

Prismatic cutterhead with reversible knives for cut panels.



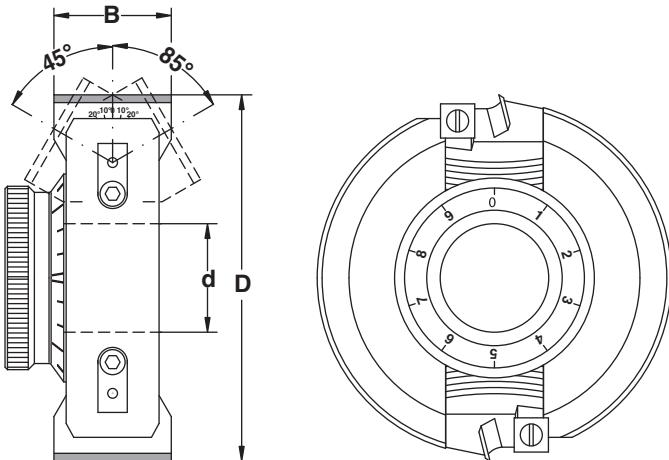
RICAMBI

	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

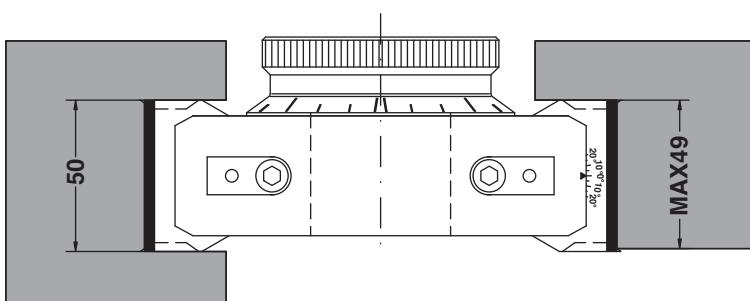
Teste per battute e smussi, regolabile da -60° a +60°.
Adjustable chamfering heads between -60° and +60°.
 Têtes porte-couteaux à chanfrener réglable de -60° à +60°.
Verstellbare Wendemesser verstellbereich von -60° zu +60°.
 Cabezales para cortes rectos e inclinados regulables de -60° a +60°.

2026

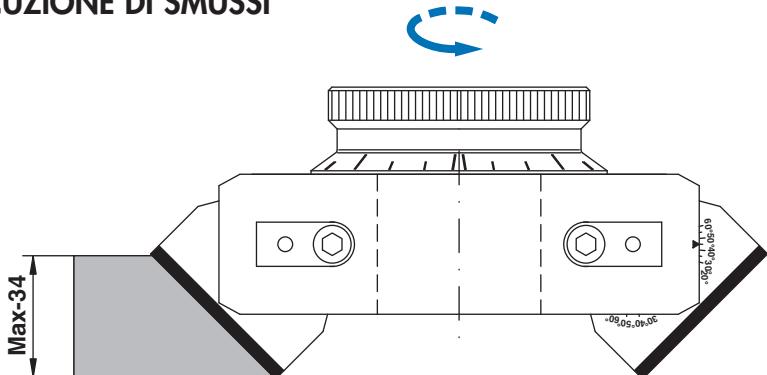
D	B	d	Z	rpm	ID nr.
165	50	35	2+4	8000	2026001
165	50	40	2+4	8000	2026002



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.	9503008	9545026	9547009	9546011	9508002	9546005



Caratteristiche

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

Characteristics

Adjustable chamfering cutterhead with continuous regulation of angles.

2065



MAN



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 profils.

Teste per eseguire profili inclinati, regolabile da -60° a +60°.

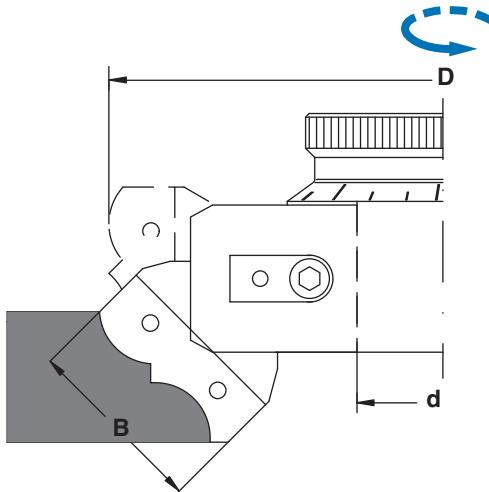
Adjustable chamfering heads for bended profils between -60° and +60°.

Têtes porte-couteaux pour profils inclinés à chanfrener réglable de -60° à +60°.

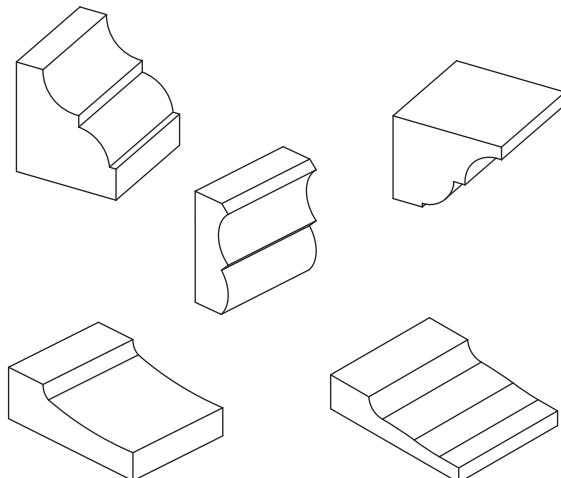
Verstellbare Wendeplatten für geneinen Profil verstellbereich von -60° zu +60°.

Cabezales regulable para cortes inclinados de -60° a +60°.

D	B	d	Z	rpm	ID nr.
165	50	35	2+4	8000	2065001
165	50	40	2+4	8000	2065002

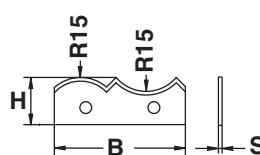


ESEMPI DI PROFILI

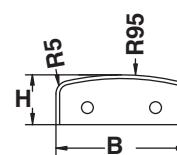


RICAMBI

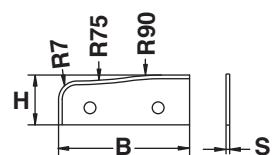
TIPO - A



TIPO - B



TIPO - C



COLTELLI SAGOMATI

TIPO	A	B	C
Dimensioni BxHxS	50x18x2	50x19x2	50x19x2
ID nr.	9558001	9558002	9558003

LARDONI

Dimensioni	LARDONI	OGIVA	VITI	RASANTI	VITI
ID nr.	48x12x7,5	M8 Ø12	M8x22	14x14x2	M5x8

ID nr.	9545026	9547009	9546011	9508002	9546005
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Gruppi di teste portacoltelli per parchetti e perlino.

Adjustable tongue and grooving cutterheads.

Groupes de têtes porte-couteaux pour parquets.

Verstellbare wendeplatten-nut und Federkopf.

Juego de cabezales para machihembrados.

2027

D	B	d	Z	RAS.	INS.	SPIG.	TIPO	ID nr.
140	15	50	4	2	-	-	1	2027001
140	15	50	4	2	-	-	2	2027002
127	12	50	2	-	-	2	3	2027003
140	20	50	4	-	2	-	4	2027004
140	20	50	4	-	2	-	5	2027005
139	15	50	4	2	-	-	6	2027006
175	15	50	4	2	-	-	7	2027007
156	20	50	4	-	2	-	8	2027008
160	15	50	4	2	-	-	9	2027009
148	20	50	4	-	2	-	10	2027010
131	20	50	4	-	2	-	11	2027011
149	15	50	4	2	-	-	12	2027012
149	20	50	4	-	2	-	13	2027013
154	12	50	2	-	-	-	14	2027014
154	12	50	2	-	-	-	15	2027015

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.



MEC

Caratteristiche

Gruppi di teste portacoltelli reversibili e regolabili con anelli per sagomatura di parchetti e perlino.

Adatti per lavorazioni su scorniciatrici, intercambiabili tra loro.

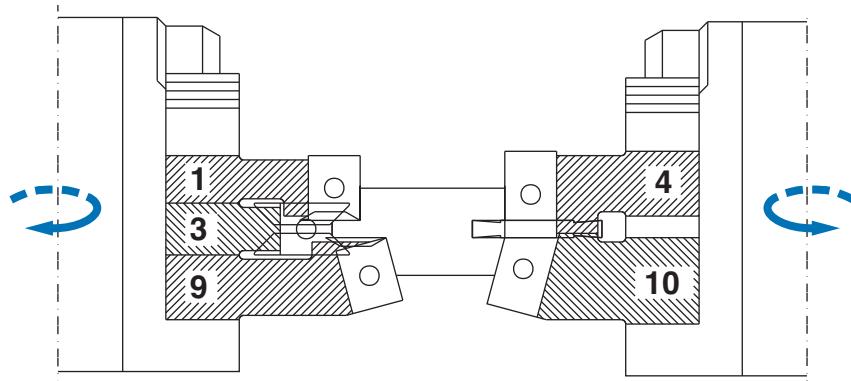
Characteristics

Cutterheads adjustable with rings for shape floor and wall panelline.

Interchangeable among them, suitable for working on matching machines.

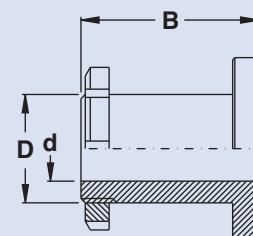
DX

SX

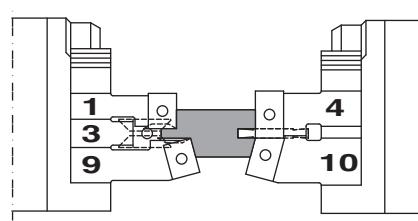
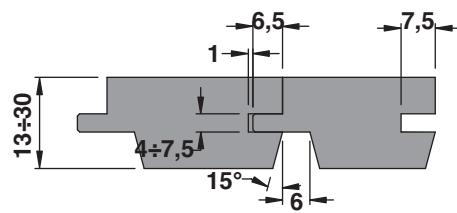


MOZZO PORTA TESTE

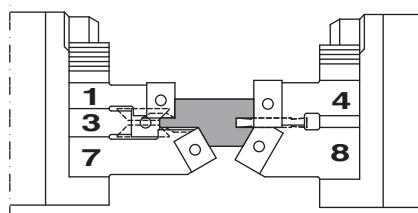
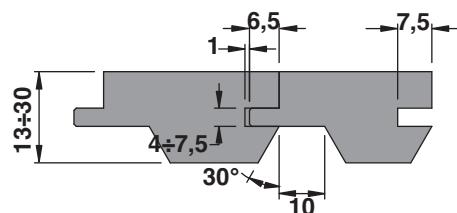
D	d	B	ID nr. DX	ID nr. SX
50	30	82	2027051	2027052
50	35	82	2027053	2027054
50	40	82	2027055	2027056



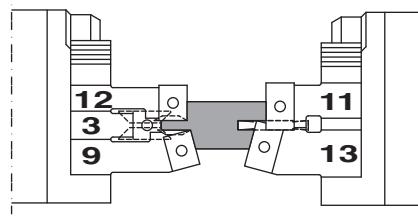
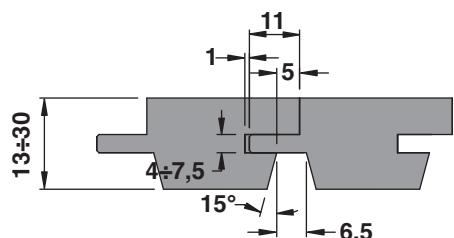
SAGOMA - A



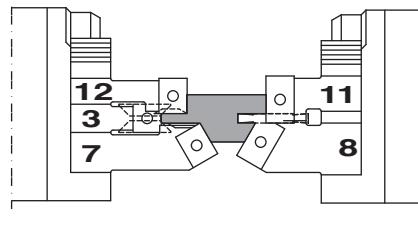
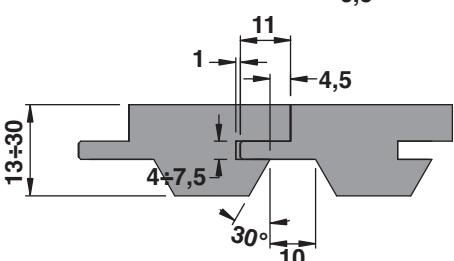
SAGOMA - B



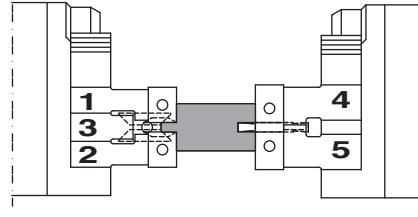
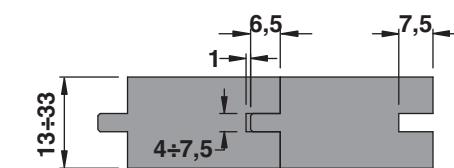
SAGOMA - C



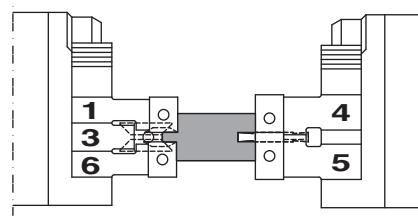
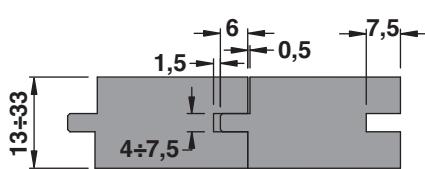
SAGOMA - D



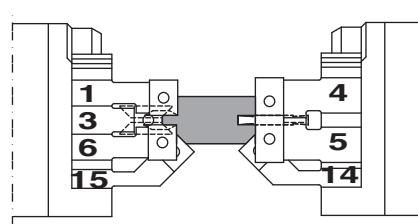
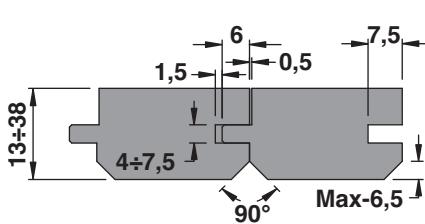
SAGOMA - E



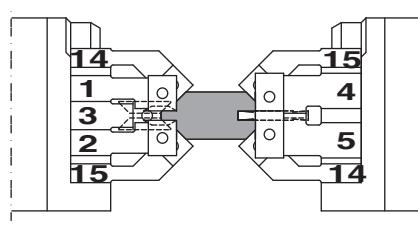
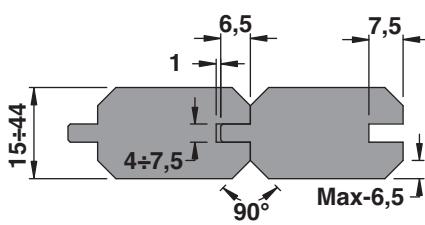
SAGOMA - F



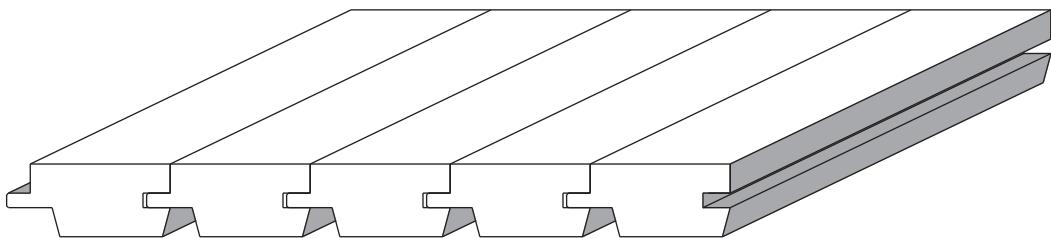
SAGOMA - G



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
Dimensioni	VITI	INSERTI	VITI	LEVASPIGOLI	VITI
	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	-
Dimensioni	VITI	INSERTI	VITI	LEVASPIGOLI	VITI
	-	-	-	-	-
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	-
Dimensioni	VITI	INSERTI	VITI	LEVASPIGOLI	VITI
	-	16x29x4	M5x10	-	-
ID nr.	-	9512 001	9546 003	-	-

2028

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



Caratteristiche

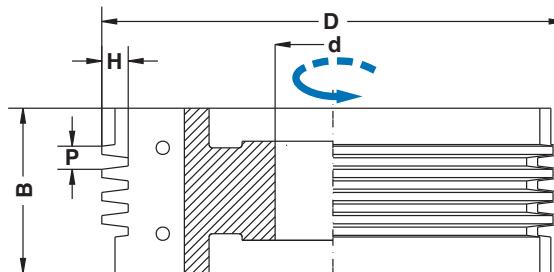
Testa per eseguire giunzioni su qualsiasi tipo di legno.

Characteristics

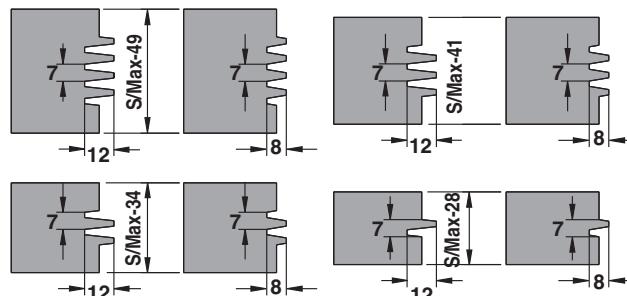
Cutterhead for joints suitable on any kind of wood.

D	B	d	S/max	P	H	n°incastri	rpm	ID nr.
140	30	35	28	7	8	1	10500	2028001
140	30	35	28	7	12	1	10500	2028002
140	35	35	34	7	8	2	9800	2028003
140	35	35	34	7	12	2	9800	2028004
140	42	35	41	7	8	3	9400	2028005
140	42	35	41	7	12	3	9400	2028006
140	50	35	49	7	8	4	9400	2028007
140	50	35	49	7	12	4	9400	2028008
140	30	40	28	7	8	1	10500	2028011
140	30	40	28	7	12	1	10500	2028012
140	35	40	34	7	8	2	9800	2028013
140	35	40	34	7	12	2	9800	2028014
140	42	40	41	7	8	3	9400	2028015
140	42	40	41	7	12	3	9400	2028016
140	50	40	49	7	8	4	9400	2028017
140	50	40	49	7	12	4	9400	2028018

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



PROFILI ESEGUITIBILI



RICAMBI



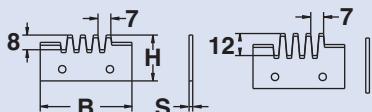
n°incastri = 1	COLTELLI H=8	COLTELLI H=12	LARDONI	VITI
Dimensioni BxHxS	30x25x2	30x30x2	28x12x7,5	M6x16
ID nr.	9527001	9527002	9545006	9546018



n°incastri = 2	COLTELLI H=8	COLTELLI H=12	LARDONI	VITI
Dimensioni BxHxS	35x25x2	35x30x2	28x12x7,5	M6x16
ID nr.	9527003	9527004	9545006	9546018



n°incastri = 3	COLTELLI H=8	COLTELLI H=12	LARDONI	VITI
Dimensioni BxHxS	42x25x2	42x28x2	38x12x7,5	M6x16
ID nr.	9527005	9527006	9545007	9546018



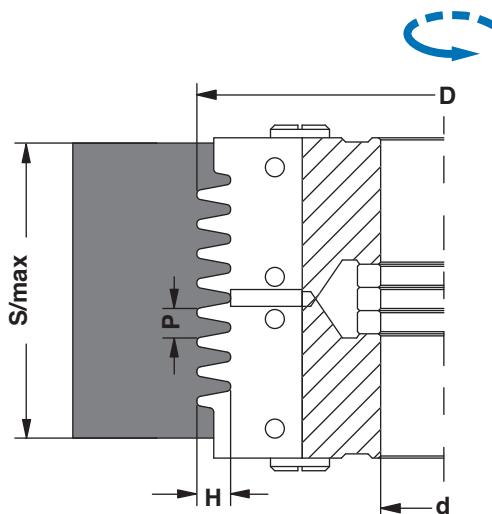
n°incastri = 4	COLTELLI H=8	COLTELLI H=12	LARDONI	VITI
Dimensioni BxHxS	50x25x2	50x30x2	48x12x7,5	M6x16
ID nr.	9527007	9527008	9545008	9546018

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 feuilures pour l'appliquer à la Toupie Z3+3.
Kanterkopf zu montieren auf die Toupie Z3+3.
 Cabezal ajustables para ensambles Z3+3.

2029

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



MEC

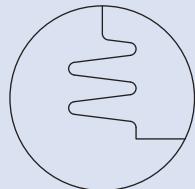
Caratteristiche

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

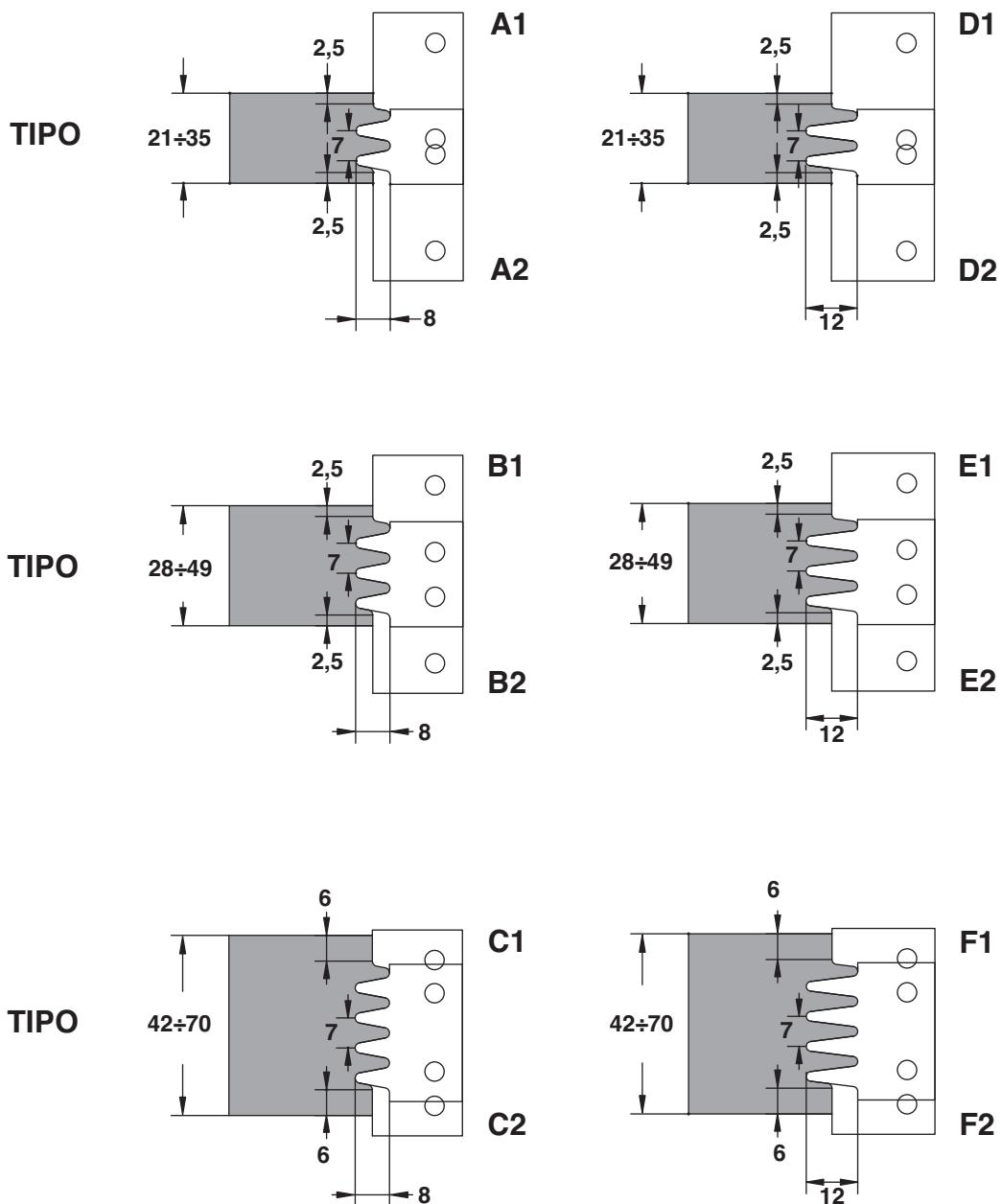
Characteristics

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.	9528011	9528012	9528013	9528014	9528015	9528016

COLTELLI SAGOMATI H=8						
TIPO	D1	D2	E1	E2	F1	F2
Dimensioni BxHxS	40x30x2	40x30x2	40x30x2	40x30x2	40x30x2	40x30x2
ID nr.	9528021	9528022	9528023	9528024	9528025	9528026

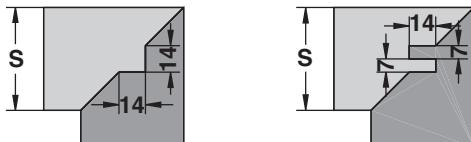
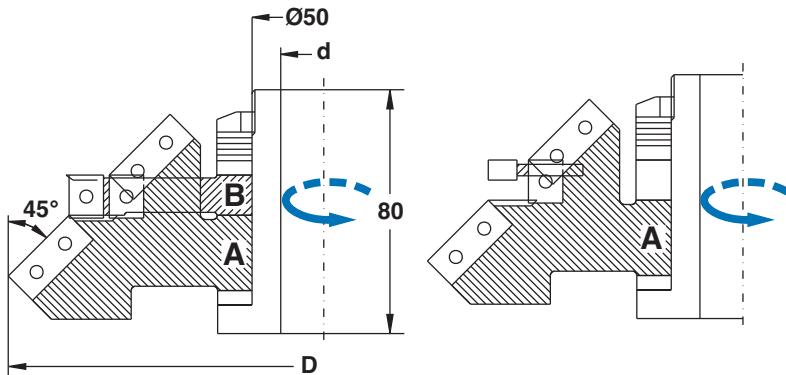
LARDONI			VITI	
Dimensioni	38x12x7,5	ID nr.	M6x16	ID nr.
	9545007		9546018	

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-Messerköpf 45°.
 Juego de cabezales para ensambles inclinados a 45°.

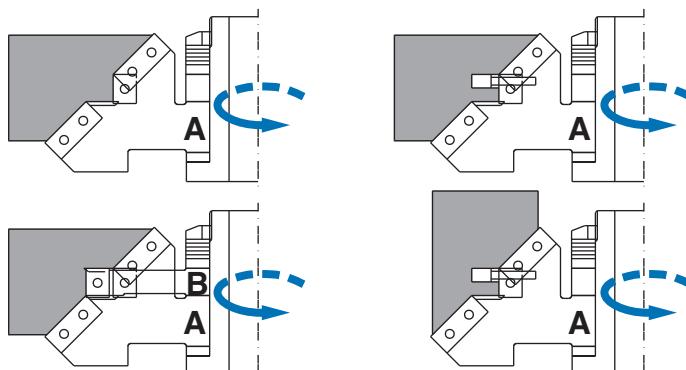
2031

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



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



MEC			
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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.

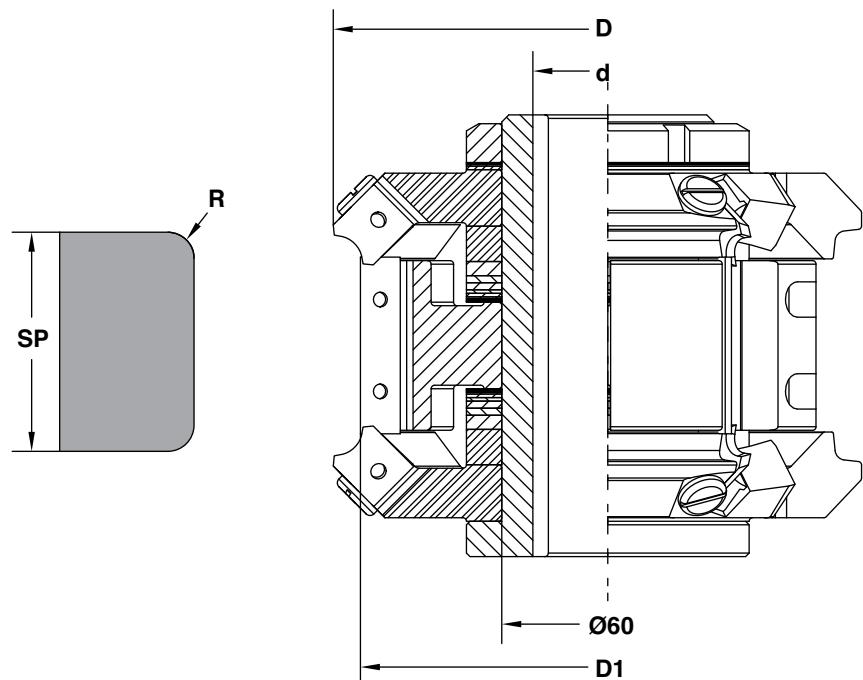
Wendeplatten-werkzeuggarnitur zum kanterfasen.

Juego de cabezales para redondear.

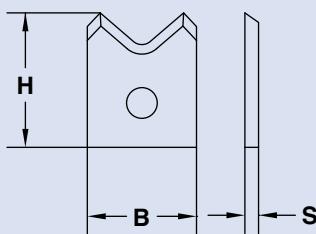
D	D1	SP	R	Z	d+ch	rpm	ID nr.
156	140	18÷53	2	3		9000	2032011-02
156	140	18÷55	3	3		9000	2032011-03
156	140	18÷57	4	3	35+2	9000	2032011-04
156	140	18÷59	5	3		9000	2032011-05
156	140	18÷61	6	3		9000	2032011-06
156	140	18÷53	2	3		9000	2032012-02
156	140	18÷55	3	3		9000	2032012-03
156	140	18÷57	4	3	40+2	9000	2032012-04
156	140	18÷59	5	3		9000	2032012-05
156	140	18÷61	6	3		9000	2032012-06

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.	9538011	9538012	9538013	9538014	9538015

	STANDARD	LARDONI	VITI
Dimensioni	50x12x1,5	48x12x7,5	13x12x7,5
ID nr.	9503008	9545008	9545004

Teste per battute con coltelli reversibili e alternativamente inclinati.

Shear-cut rebating cutterheads.

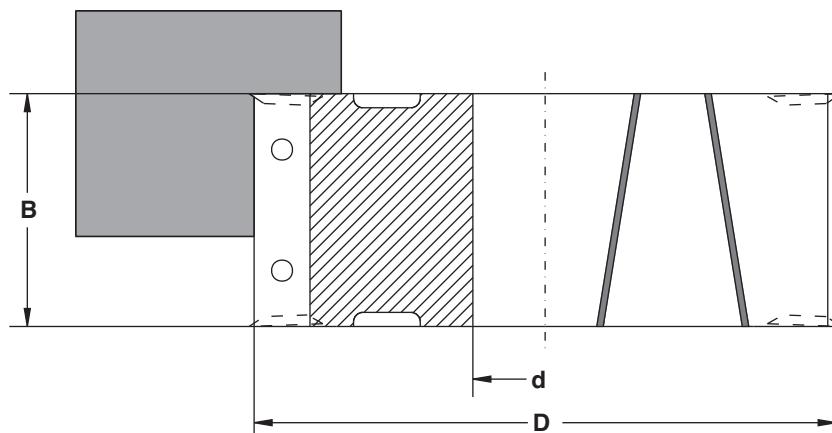
Têtes porte-outil à feuillure avec coupe biaisé.

Falzmesserköpf mit Achswinkel.

Cabezales para cortes rectos con cuchillas reversibles inclinadas y alternadas.

2033

D	B	Z+V	d	rpm	ID nr.
125	30	4+4	35	10500	2033001
125	30	4+4	40	10500	2033002
125	50	4+4	35	10500	2033003
125	50	4+4	40	10500	2033004



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

	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x12x1,5	48x12x7,5	M8x16

	RASANTI	VITI
Dimensioni	14x14x2	M5x8

2034



MAN

Caratteristiche

Testa con 4 taglienti, 4 incisori e 4 levaspigoli 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.

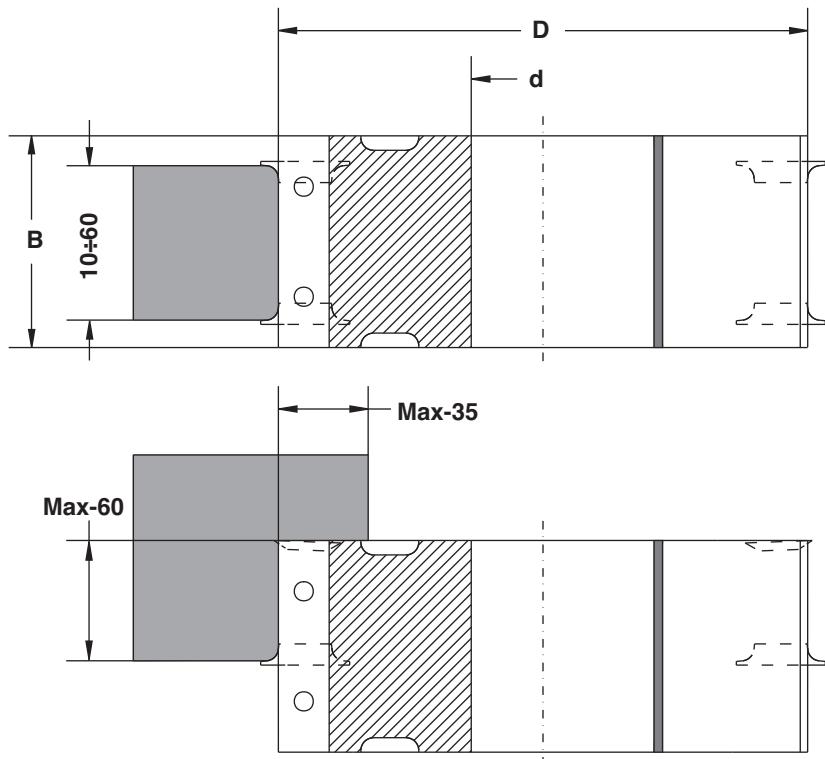
Teste per battute e contornature con coltelli reversibili e spigolatori regolabili.
Cutterheads for rabbets and frame profiles with knives and bevelledges.

Têtes pour feuilures et contournages avec couteaux reversibles à chanfrein.

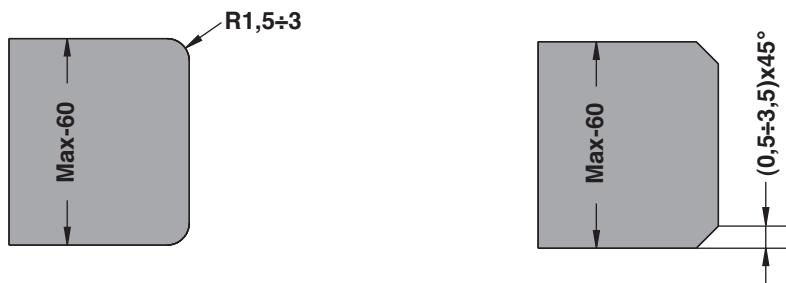
Messerköpf für Anschlüsse und Konturbearbeitungen, mit Wendeplatten-Abkantern.

Cabezales para galcear y contornear con cuchillas reversibles y regulables.

D	B	Z	d	rpm	ID nr.
125	60	4+4+4	35	10500	2034001
125	60	4+4+4	40	10500	2034002



ESEMPI DI PROFILI ESEGUITIBILI



RICAMBI

	COLTELLI	LARDONI	VITI
Dimensioni	60x12x1,5	58x12x7,5	M8x16
ID nr.	9503009	9545009	9546020

	LEVAS.	SUP. LEVAS.	VITI	RASANTI	VITI
Dimensioni	16x22x5	27x14,5x14	M5x10	14x14x2	M5x8
ID nr.	9510	9547007	9546003	9508002	9546005

Teste regolabili multiuso.

Polyvalent cutterheads with variable thickness.

Têtes d'épaisseur variable polyvalente.

Profilplatten-Messerköpf.

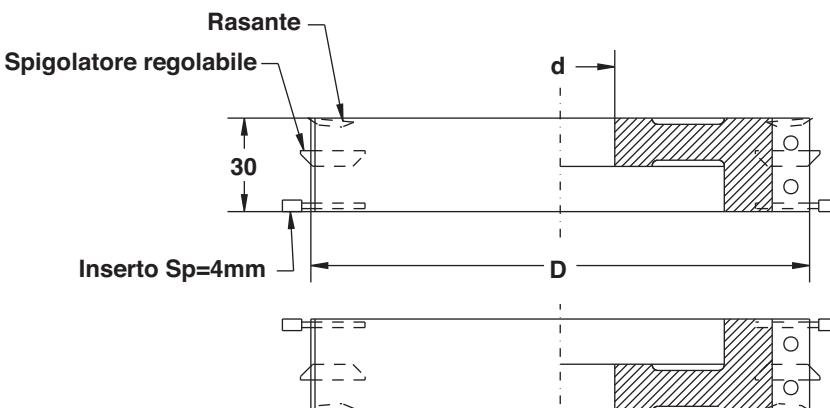
Cabezales multiuso regulables.

2035

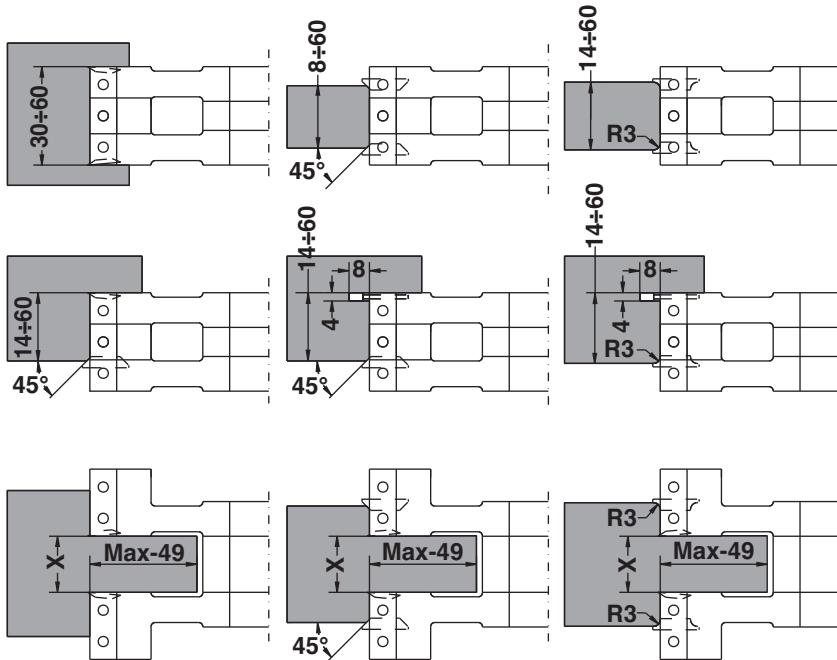
D	d	Z	RAS.	INS.	LEVAS.	rpm	ID nr.
160	35	4	4	4	4	8000	2035001
160	40	4	4	4	4	8000	2035002

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



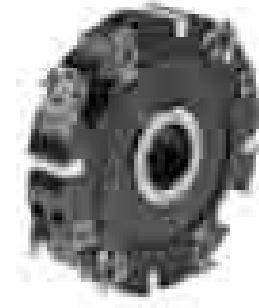
ESEMPI DI LAVORAZIONE



RICAMBI

	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	30x12x1,5	28x12x7,5	M8x22	14x14x2	M5x8
ID nr.	9503006	9545024	9546011	9508002	9546005

	LEVASPIG.	SUP. LEVAS.	INSERTI	VITI	OGIVA
Dimensioni	16x22x5	27x14,5x14	Sp. 4mm	M5x10	M8 Ø12
ID nr.	9510	9547007	9512001	9546003	9547009



MEC

Caratteristiche

Testa portacoltelli con svariate possibilità di utilizzo.

Togliendo 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.

2036

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



D	B	d	Z	RAS.	INS.	LEVAS.	ID nr.
200	30	35	4	2	2	4	2036001
200	30	40	4	2	2	4	2036002

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

MEC

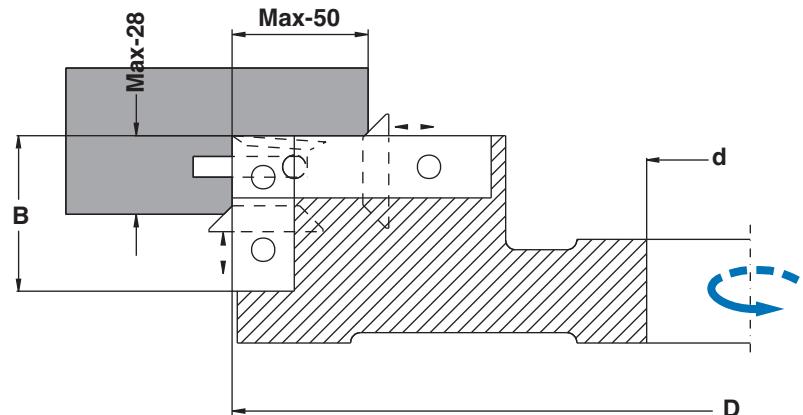


Caratteristiche

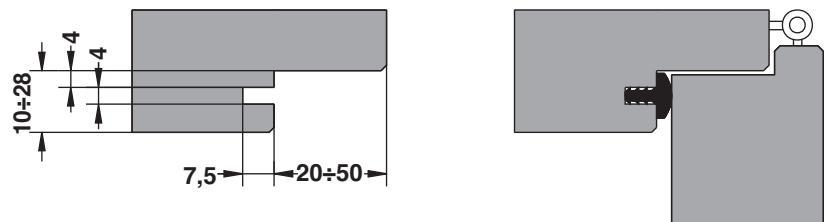
Teste con inserti radiali per eseguire battute su telai di porte.

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.	9503006	9545024	9503008	9545026	9546011	9547009

	INSERTI	VITI	RASANTI	VITI
Dimensioni	Sp. 4mm	M5x10	14x14x2	M5x8
ID nr.	9512001	9546003	9508002	9546005

	LEVASPIGOLI	SUP. LEVASPIGOLI	VITI
Dimensioni	16x22x5 45°	27x14,5x14	M5x10
ID nr.	9510001	9547007	9546003

Gruppi di teste portacoltelli per squadratura porte.

Set of cutters for squaring doors.

Groupes de têtes pour équarissage des portes.

Messerköpf-gruppen für Tuerbeschlagung.

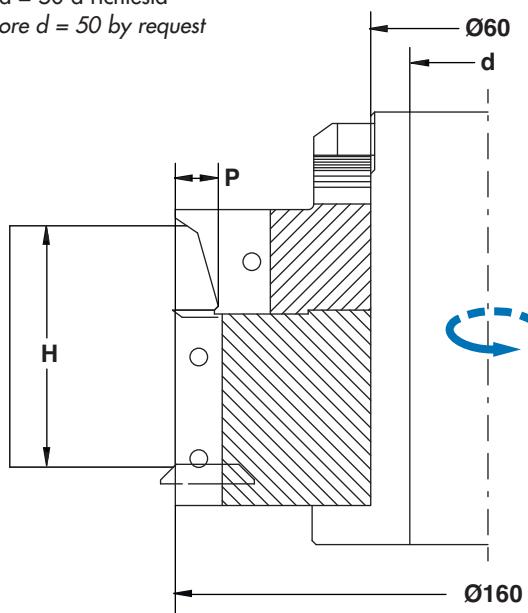
Juego de cabezales para escuadrar puertas.

2038

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



MAN



Caratteristiche

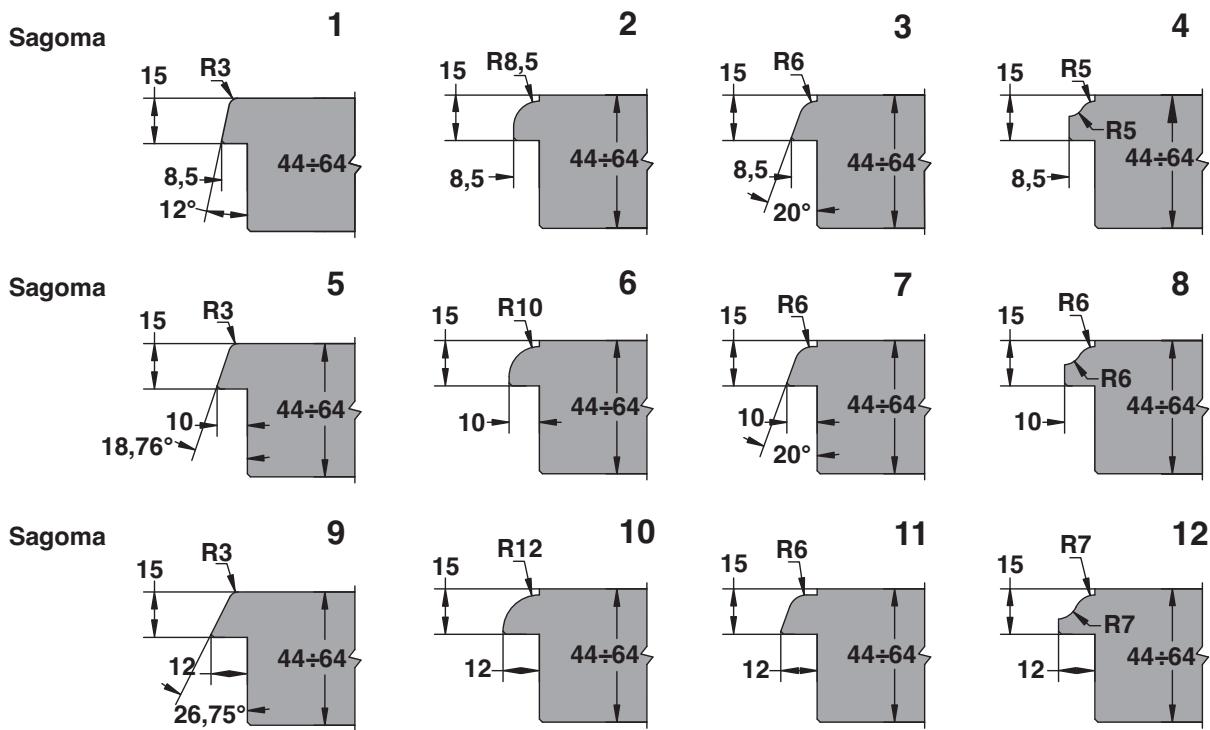
Gruppo di teste portacoltelli per squadratura di porte, serramenti, scuretti, completo di mozzo. In dotazione monta spigolatori a 45° che a richiesta possono essere sostituiti con degli spigolatori raggiati R = 1,5-2-3.

Characteristics

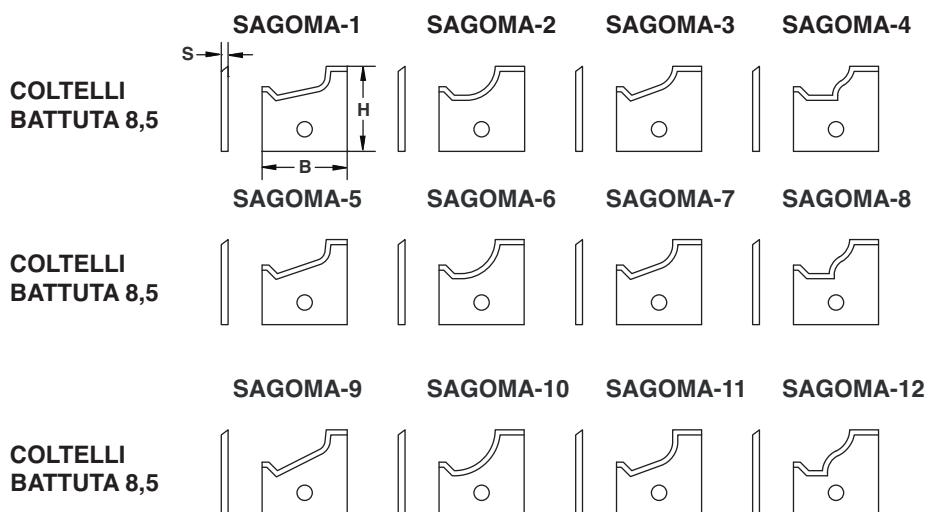
Set of cutters for squaring doors supplied with sleeve.

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
Dimensioni BxHxS	50x12x1,5	48x12x7,5	14x14x2	16x22x5
ID nr.	9503 008	9545 008	9508 002	9510

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 reprise beading.

Groupe à profiler et tenonner pour portes sans listel récupéré.

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

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

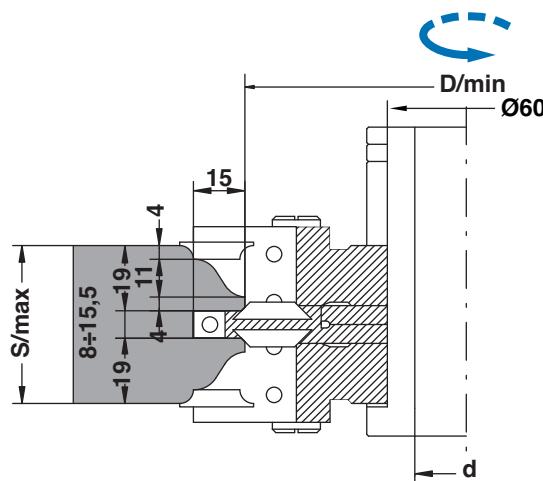
2066

Gruppo per profilature 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

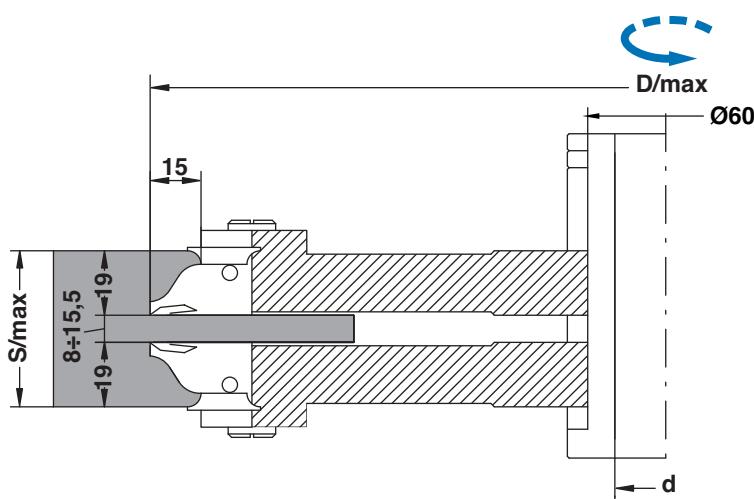


Gruppo per tenonature / Group for tenoning

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



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.

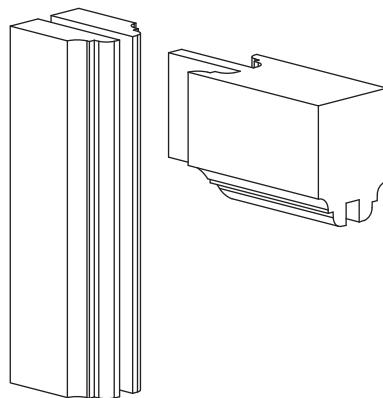
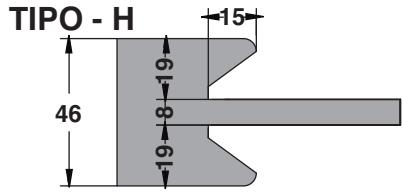
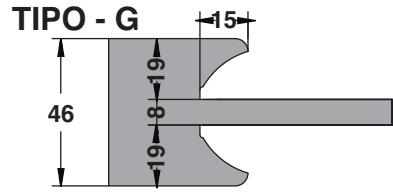
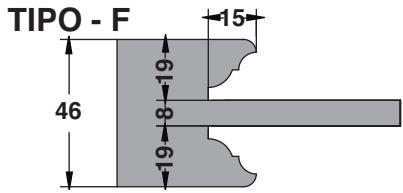
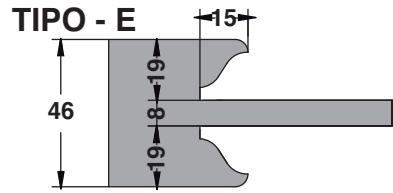
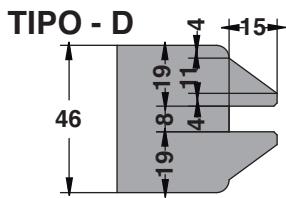
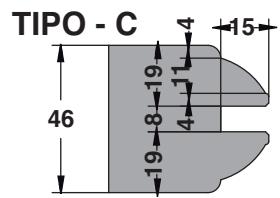
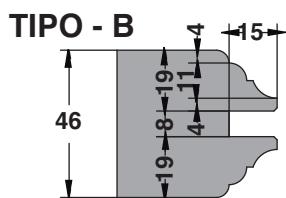
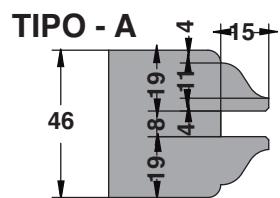
Characteristics

Groups to profile and tenon doors with changeable thickness from 44 to 54 without reprise beading.

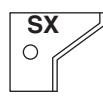
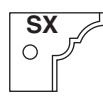
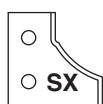
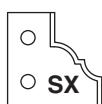
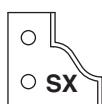
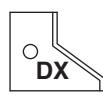
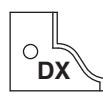
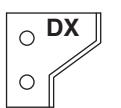
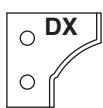
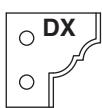
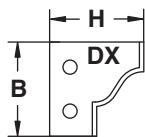
This set is supplied with only one profile of the 4 profiles suggested.

When ordering always specify the profile.
Good results with hard, soft and exotic woods.

PROFILI ESEGIBILI



RICAMBI



COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	30x30x2	30x30x2	30x30x2	30x30x2
ID nr. DX	9559001	9559003	9559005	9559007
ID nr. SX	9559002	9559004	9559006	9559008

COLTELLI SAGOMATI

TIPO	E	F	G	H
Dimensioni BxHxS	25x30x2	25x30x2	25x30x2	25x30x2
ID nr. DX	9559009	9559011	9559013	9559015
ID nr. SX	9559010	9559012	9559014	9559016

STANDARD

TIPO	LARDONI	COLTELLI	LARDONI	RASANTI	LEVASPIGOLI
Dimensioni BxHxS	28x12x1,5	7,65x12x1,5	6,5x12x7,5	14x14x2	16x22x5
ID nr.	9545006	9503001	9545001	9508002	9510

VITI

IMPIEGO	PER LARDONI	PER RASANTI	PER LEVASPIGOLI
Dimensioni	M6x16	M5x16	M5x10
ID nr.	9546018	9546015	9546003

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

Profile and tenoning group for doors with reprise beading.

Groupe à profiler et tenonner pour portes avec listel récupéré.

Messer und Zapfenköpf für Türen und Tore mit wieder gewinnen das Leiste.

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

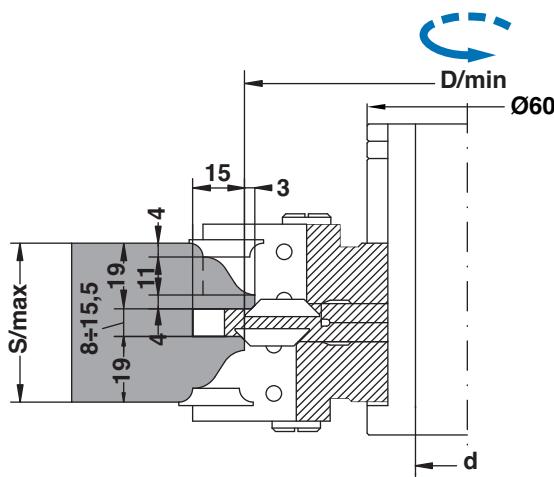
2067

Gruppo per profatura 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

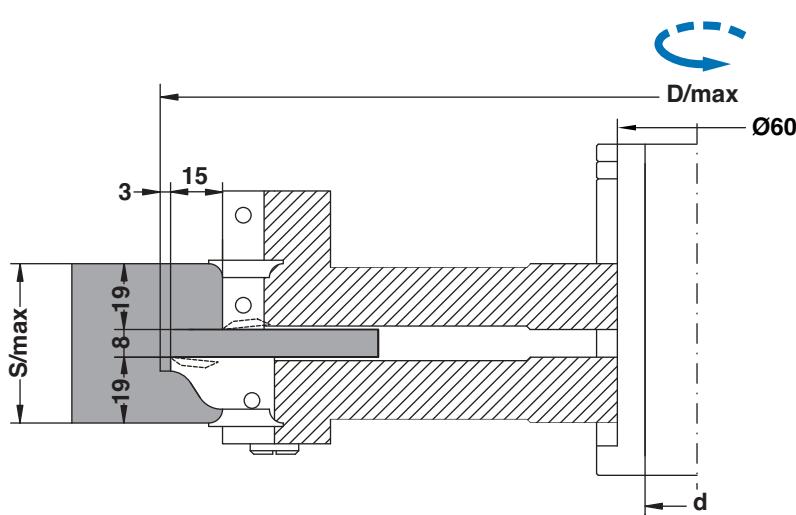


Gruppo per tenonatura/Group for tenoning

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.

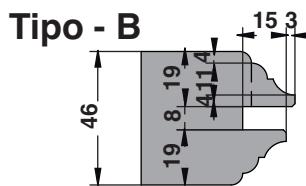
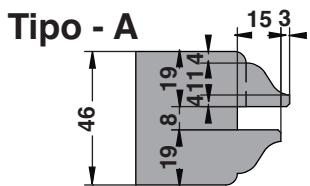
Ottima finitura su legni teneri, duri e esotici.

Characteristics

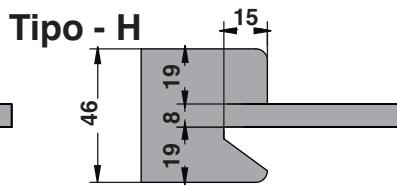
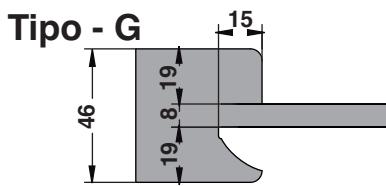
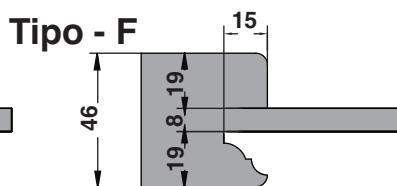
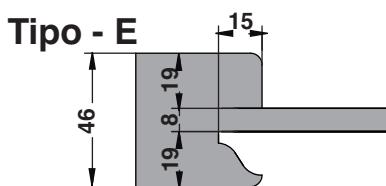
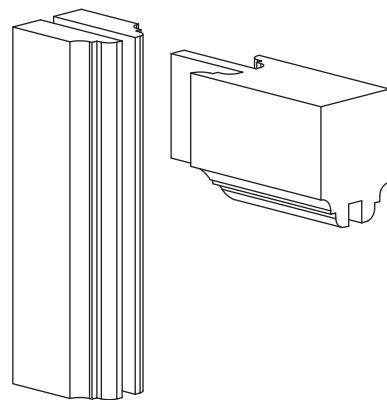
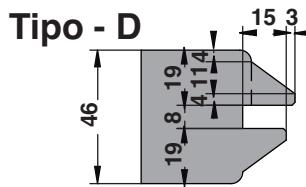
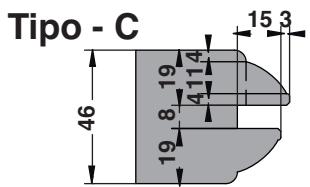
Groups to profile and tenon doors with changeable thickness from 44 to 54 with reprise beading.

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

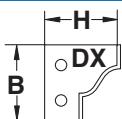
When ordering always specify the profile.
Good results with hard, soft and exotic woods.



PROFILI ESEGUIBILI



RICAMBI



A



B



C



D



E



F



G



H



A



B



C



D



E



F



G



H

COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	30x30x2	30x30x2	30x30x2	30x30x2
ID nr. DX	9559001	9559003	9559005	9559007
ID nr. SX	9559002	9559004	9559006	9559008

COLTELLI SAGOMATI

TIPO	E	F	G	H
Dimensioni BxHxS	25x30x2	25x30x2	25x30x2	25x30x2
ID nr. SX	9559010	9559012	9559014	9559016

STANDARD

TIPO	LARDONI	COLTELLI	LARDONI	RASANTI
Dimensioni BxHxS	28x12x1,5	7,65x12x1,5	6,5x12x7,5	14x14x2
ID nr.	9545006	9503001	9545001	9508002

STANDARD

TIPO	COLTELLI	LARDONI	LEVASPIGOLI	SUP. LEVASPIGOLI
Dimensioni BxHxS	40x12x1,5	38x12x7,5	16x22x5	27x14,5x14
ID nr.	9503007	9545007	9510	9547007

VITI

IMPIEGO	PER LARDONI	MATERIALI	PER RASANTI	PER LEVASPIGOLI
Dimensioni	M6x16	M5x16	M5x8	M5x10
ID nr.	9546018	9546015	9546005	9546003

Gruppi per recupero di listello.

Glass top recovery units.

Groupes pour récupération listel.

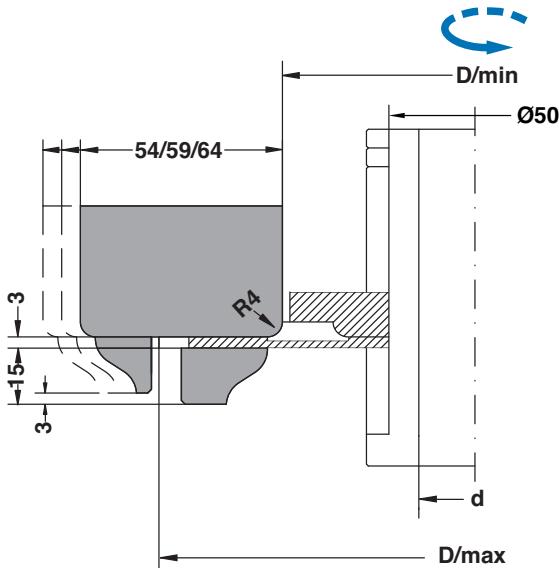
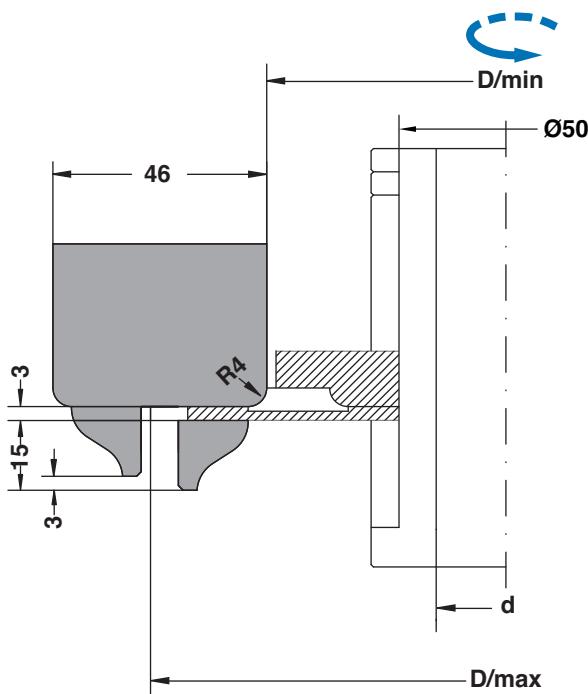
Gruppen zur Leistenrückgewinnung.

Grupos para recuperación listón.

2068

D/min	D/max	d	LEVAS.	Z	rpm	ID nr.
130	180	35	2	36	6500	2068001
130	180	40	2	36	6500	2068002
130	200	35	2	36	5500	2068003
130	200	40	2	36	5500	2068004

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



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.



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.

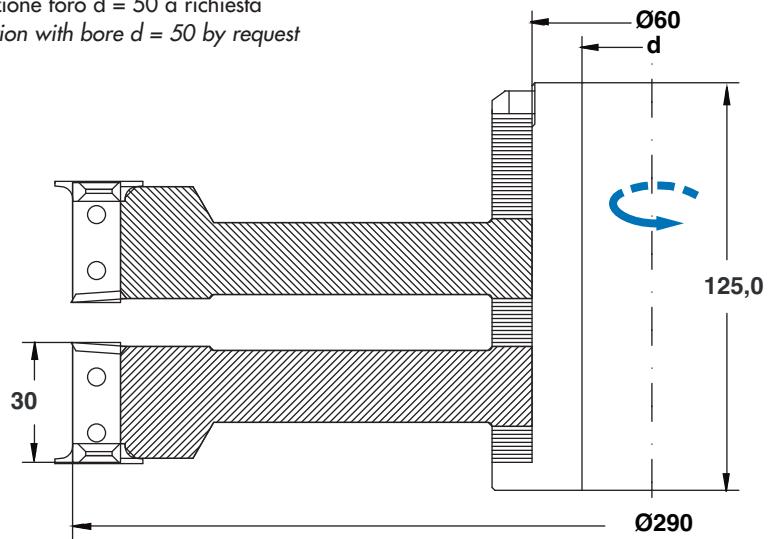
Characteristics

Set of tenoning cutter heads with sleeve.

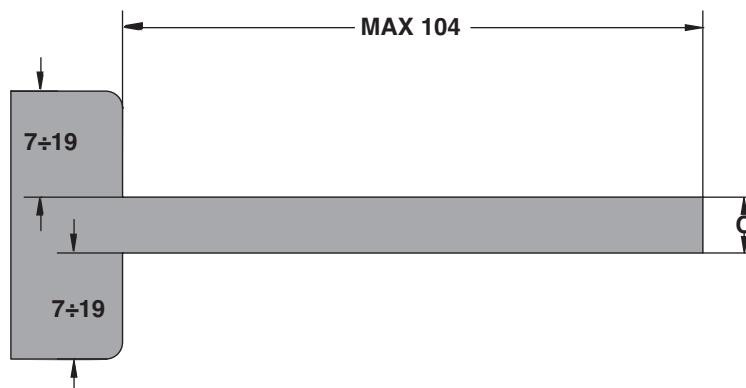
The cutter has normally inserts at 45° but it is possible to have insert R=1-1,5-2-3.

D/max	C	d+ch	Z	rpm	ID nr.
290	8	35+2	4	4500	2079001
290	8	40+2	4	4500	2079002
290	10	35+2	4	4500	2079003
290	10	40+2	4	4500	2079004
290	12	35+2	4	4500	2079005
290	12	40+2	4	4500	2079006

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



PROFILO ESEGUIBILE



RICAMBI

STANDARD					
TIPO	COLTELLI	LARDONI	RASANTI	LEVASPIGOLI	SUP. LEVASP.
Dimensioni	30x12x1,5	28x12x7,5	14x14x2	16x22x5	27x14,5x14
ID nr.	9503006	9545005	9508002	9510	9547007

VITI			
IMPIEGO	PER LARDONI	PER RASANTI	PER LEVASPIGOLI
Dimensioni	M8x16	M8x8	M5x10
ID nr.	9546020	9546005	9546003

Gruppo di teste per ante scorrevoli.

Cutterheads set for sliding doors.

Jeu de porte-outils pour châssis coulissants.

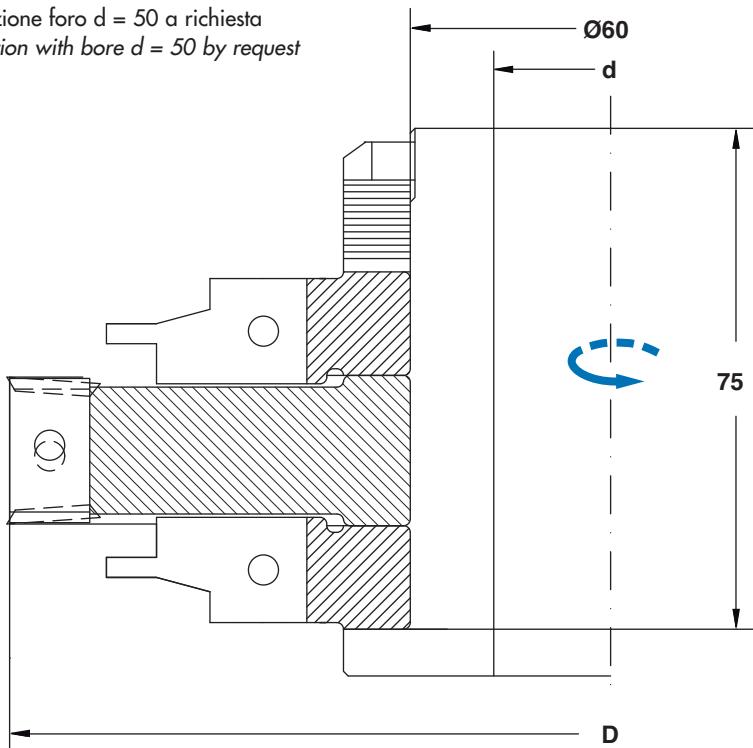
Messerkopfsatz für Schiebetüren.

Juego de cabezales para ventana corredera.

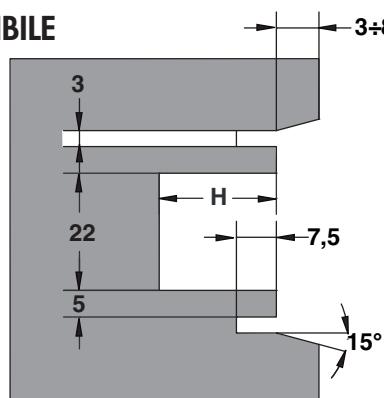
2080

D	H	d+ch	Z	rpm	ID nr.
180	22	35+2	2	7000	2080001
180	22	40+2	2	7000	2080002
224	44	35+2	2	5500	2080003
224	44	40+2	2	5500	2080004

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.	9503005	9545005	9546020	9508002	9546005

	SAGOMATI		VITI
IMPIEGO	COLTELLI	LARDONI	PER LARDONI
Dimensioni	16x30x2	13x12x7,5	M5x16
ID nr. DX	9574001	9545004	9546020
ID nr. SX	9574002		



MAN



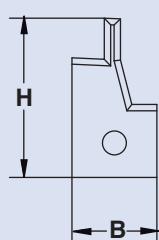
Caratteristiche

Gruppo di teste portacoltelli per ante scorrevoli completo di mozzo.

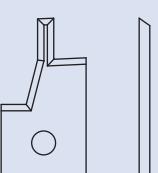
Characteristics

Cutterheads set for sliding doors supplied with sleeve.

DX



SX



2039

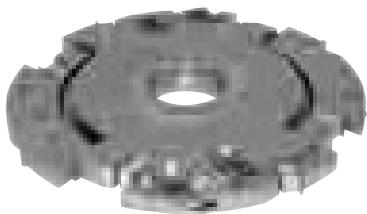
Testa per esecuzione sede ferramenta su serramenti.

Cutterhead for fitting groove.

Tête porte-couteaux pour crémones.

Messerköpf für Beschlagknut.

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	2039001
166	16÷22	40	4+4+4+4	7500	2039002

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



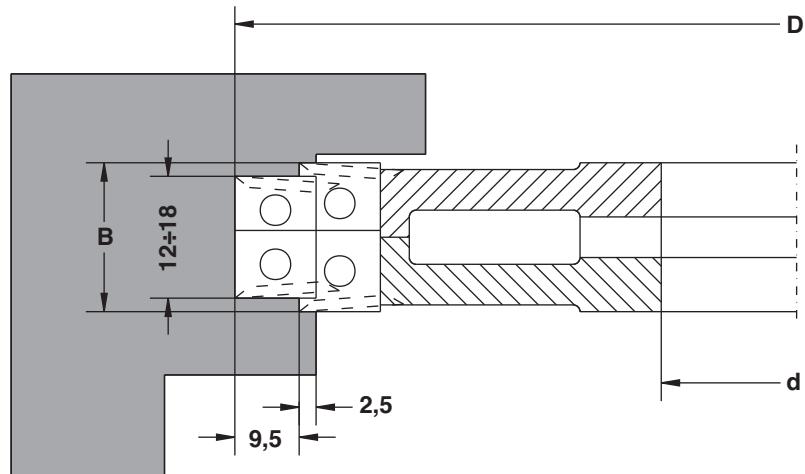
Caratteristiche

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

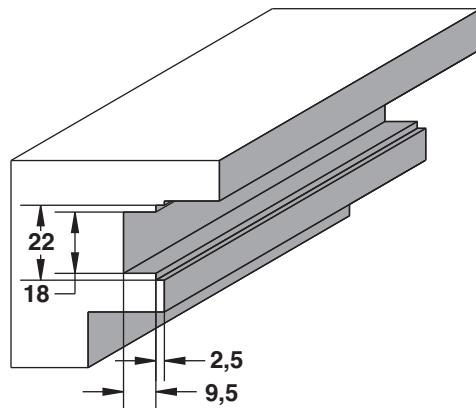
Characteristics

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 ESEGUITIBILE



RICAMBI

	COLTELLI	LARDONI	COLTELLI	LARDONI	VITI
Dimensioni	9,65x12x1,5	8,5x12x7,5	12x12x1,5	10x12x7,5	M6x16
ID nr.	9503002	9545002	9503003	9545003	9546018

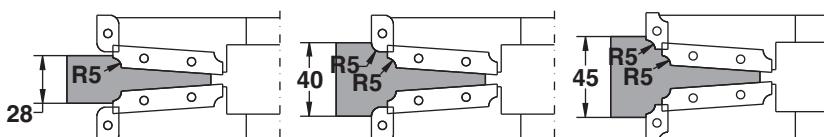
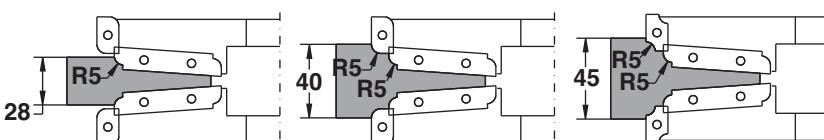
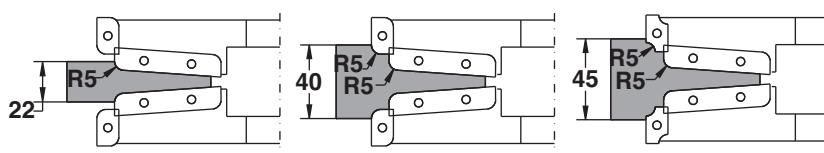
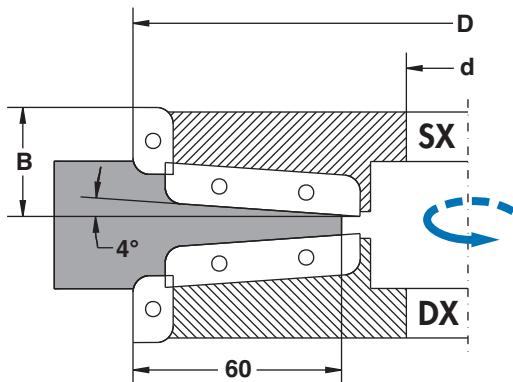
	RASANTI	VITI
Dimensioni	14x14x2	M5x8
ID nr.	9508002	9546005

Cassetta piattabande multiprofilo completa per eseguire 9 profili.
Multi-profile raised panel head for making 9 profiles.
 Caisse porte-outil multiprofils pour plâtre-bandes pour faire 9 profils.
Multi-Profiler 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	2040001	2040002
200	30	40	2+2	7000	2040003	2040004

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	9532001	9532002
COLTELLI	2	60x12x1,5	9532003	9532004
COLTELLI	3	60x12x1,5	9532005	9532006
COLTELLI	4	20x12x1,5	9532021	9532022
COLTELLI	5	20x12x1,5	9532023	9532024

LARDONI-VITI			
	IMPIEGO	Dimensioni	ID nr.
LARDONI	per coltelli 4-5	18x12x7,5	9545023
LARDONI	per coltelli 1-2-3	48x12x7,5	9545026
VITI	per coltelli 1-2-3-4-5	M8x22	9546011
OGIVA	per coltelli 1-2-3-4-5	M8 Ø12	9547009

TIPO - 1	○ DX ○	○ SX ○
TIPO - 2	○ DX ○	○ SX ○
TIPO - 3	○ DX ○	○ SX ○
TIPO - 4	DX	SX
TIPO - 5	DX	SX

2041



MEC



Caratteristiche

Cassetta per piattabande con possibilità di eseguire N°4 profili diversi sostituendo semplicemente gli inserti.

La cassetta è composta da N°1 testa portacolletti 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 multiprofils pour plâtre-bandes avec couteaux à jeter avec profils 1-4-5.

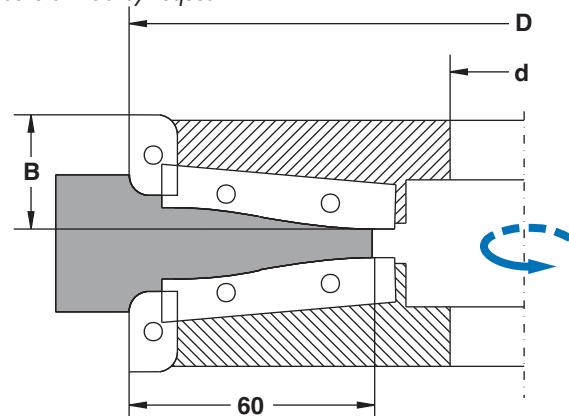
Multi-Profiler Abplatt-Messerköpf mit Messe zu werfen mit Profil 1-4-5.

Estuche completo para plafones multiperfiles con cuchillas de usar y tirar y con perfiles 1-4-5.

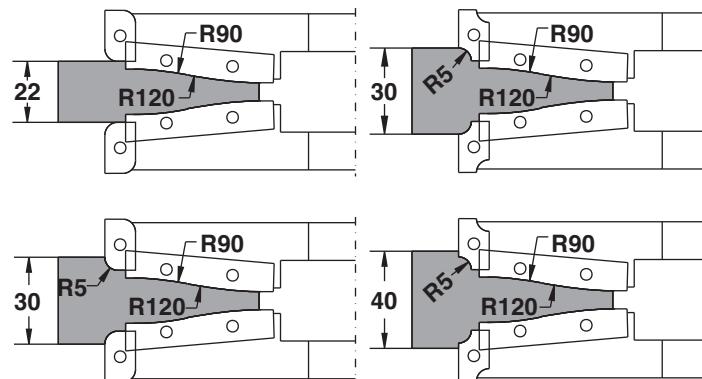
D	B	d	Z	rpm	ID nr. DX	ID nr. SX
200	30	35	2+2	7000	2041001	2041002
200	30	40	2+2	7000	2041003	2041004

Esecuzione foro d = 50 a richiesta

Execution with bore d = 50 by request



ESEMPI DI LAVORAZIONE



RICAMBI

TIPO - 1 **DX** **SX**

TIPO - 4 **DX** **SX**

TIPO - 5 **DX** **SX**

	TIPO	BxHxS	ID nr. DX	ID nr. SX
COLTELLI	1	60x12x1,5	9533001	9533002
COLTELLI	4	20x12x1,5	9532021	9532022
COLTELLI	5	20x12x1,5	9532023	9532024

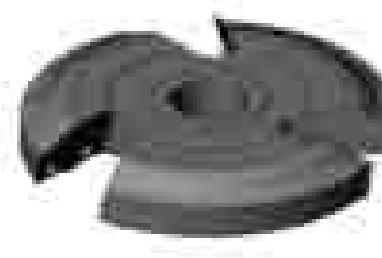
	IMPIEGO	Dimensioni	ID nr.
LARDONI	per coltelli 4-5	18x12x7,5	9545023
LARDONI	per coltelli 1	48x12x7,5	9545026
VITI	per coltelli 1-4-5	M8x22	9546011
OGIVA	per coltelli 1-4-5	M8 Ø12	9547009

Testa piattabanda multiprofilo.
Raising panel cutterhead multiprofiles.
 Tête pour platte-bandes multiprofils.
Abplatt-Messerköpf.
 Plafón multiperfil.

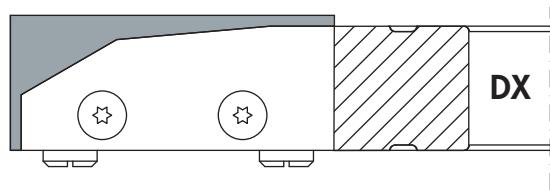
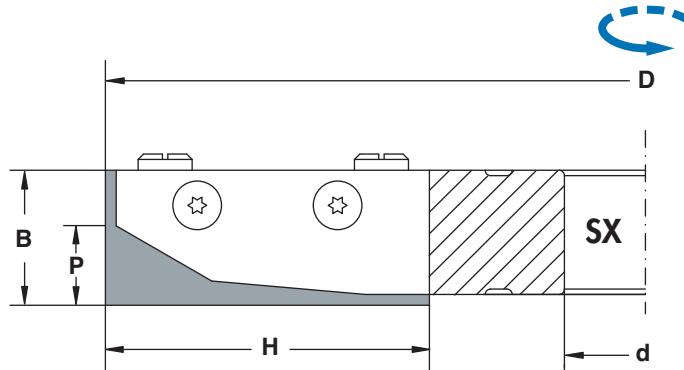
2069

D	B	d	H	P	Z	rpm	ID nr. DX	ID nr. SX
200	25	35	60	12	3	6300	2069001	2069002
200	25	40	60	12	3	6300	2069003	2069004

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



= AREA SAGOMABILE / AREA THAT CAN BE SHAPED



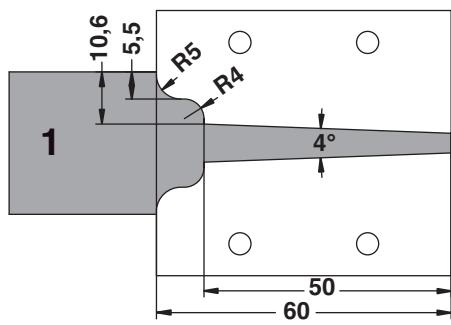
Caratteristiche

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

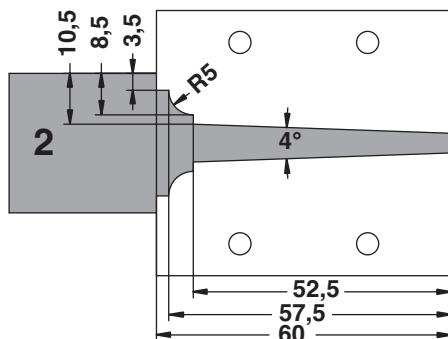
Particularly suitable for make profiles and ashlays for cabinet doors.
 Recommended for softwoods.
 When ordering always specify the profile.

ESEMPI DI PROFILI ESEGUITIBILI



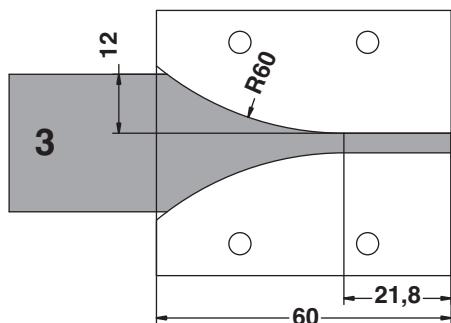
SX

DX



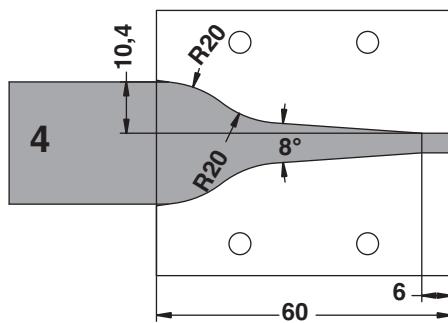
SX

DX



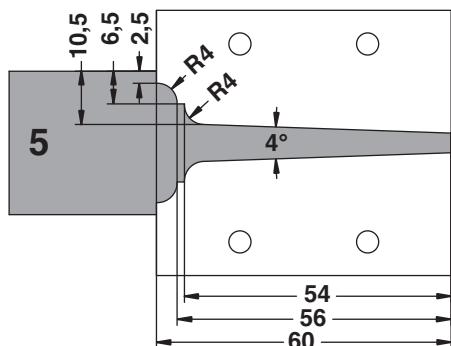
SX

DX



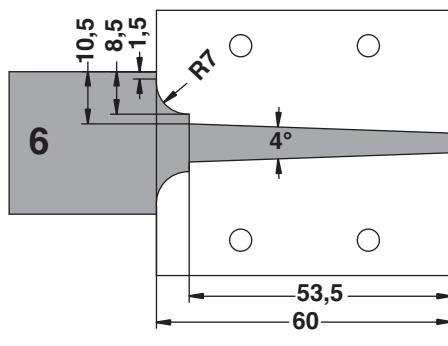
SX

DX



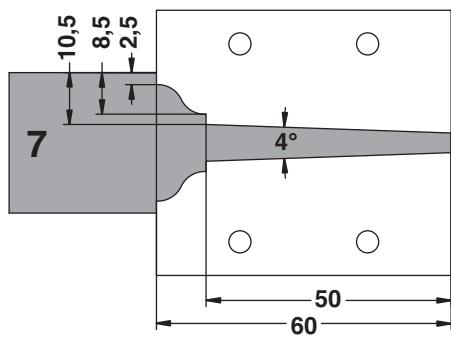
SX

DX



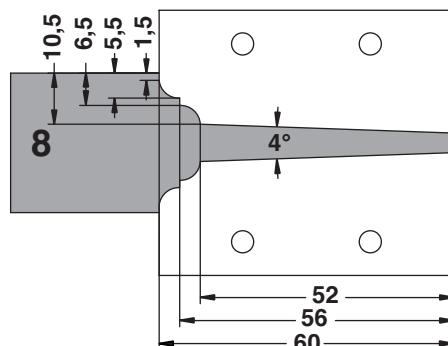
SX

DX



SX

DX



SX

DX

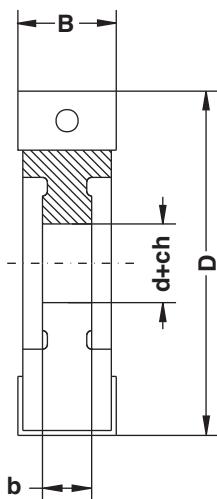
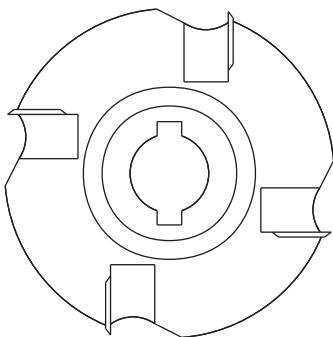
RICAMBI

Denominazione	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLO SAGOMA-1	60x25x2	9560001	9560002
COLTELLO SAGOMA-2	60x25x2	9560003	9560004
COLTELLO SAGOMA-3	60x25x2	9560005	9560006
COLTELLO SAGOMA-4	60x25x2	9560007	9560008
COLTELLO SAGOMA-5	60x25x2	9560009	9560010
COLTELLO SAGOMA-6	60x25x2	9560011	9560012
COLTELLO SAGOMA-7	60x25x2	9560013	9560014
COLTELLO SAGOMA-8	60x25x2	9560015	9560016
VITI	M3,5x6	9546006	

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	2042001
70	15	16+2	10	4	SCM-STEFANI	18000	2042007
70	20	16+2	10	4	SCM-STEFANI HOMAG	18000	2042002
70	20	16+2	10	6	SCM-STEFANI	18000	2042003
72	20	16+2	11	4	SCM-STEFANI	18000	2042008
75	20	16+2	11	4	SCM-STEFANI	18000	2042009
75	30	16+2	11	4	SCM-STEFANI	18000	2042010
80	20	16+2	11	4	SCM-STEFANI	18000	2042005
80	30	16+2	11	4	SCM-STEFANI	18000	2042006



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
12x12x1,5	10x12x7,5	M6x16
9503003	9545003	9546018

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

COLTELLI	LARDONI	VITI
20x12x1,5	18x12x7,5	M6x16
9503005	9545005	9546018

PER ART. 2042006

COLTELLI	LARDONI	VITI
30x12x1,5	28x12x7,5	M6x16
9503006	9545006	9546018

PER ART. 2042007

COLTELLI	LARDONI	VITI
15x12x1,5	13x12x7,5	M6x16
9503004	9545004	9546018

2043

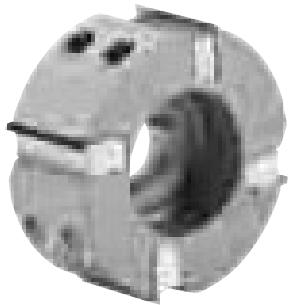
Teste portacoltelli per macchine bordatrici.

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	2043007	2043008
70	20	20+2	11,5	6	FRAVOL	2043009	2043010
72	30	16+2	12	4	SCM-STEFANI	2043013	2043014
80	30	20+2	25,5	6	FRAVOL	2043011	2043012

MEC



Caratteristiche

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

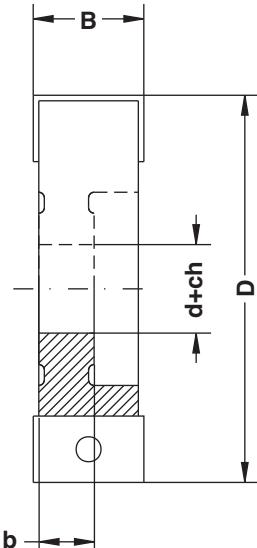
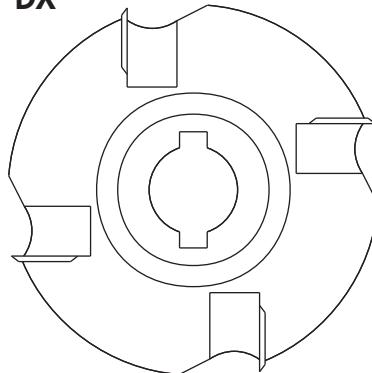
Max rpm 18000

Characteristics

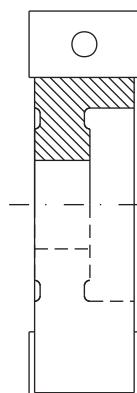
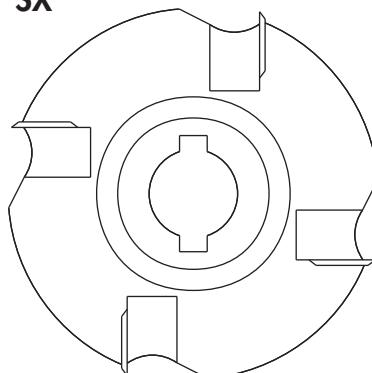
Cutterhead with reversible knives in HM for trimming and chamfering panels edges with solid wood types of laminations.

Max rpm 18000

DX



SX



RICAMBI

PER ART. 2043007/008/009/010

Dimensioni	COLTELLI	LARDONI	VITI
ID nr.	20x12x1,5	18x12x7,5	M6x16
	9503005	9545005	9546018

PER ART. 2043003/004/005/006/011/012

Dimensioni	COLTELLI	LARDONI	VITI
ID nr.	30x12x1,5	28x12x7,5	M6x16
	9503006	9545006	9546018

Teste portacolletti 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.

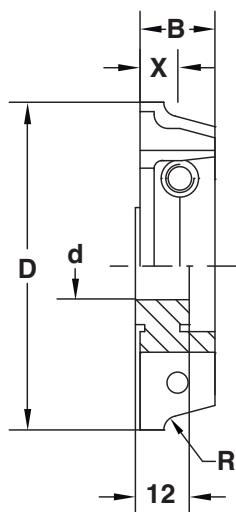
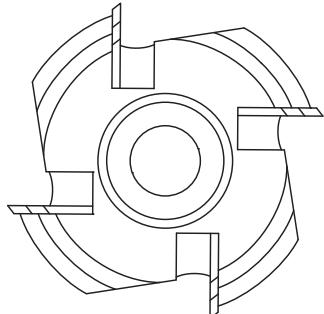
Wendeplatten-Kanterköpf Z4 zu Aluminium.

Cabezales en aleación ligera con cuchillas inclinadas y redondeantes para máquinas canteadoras Z4.

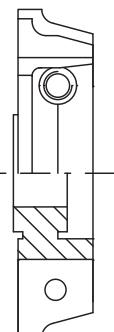
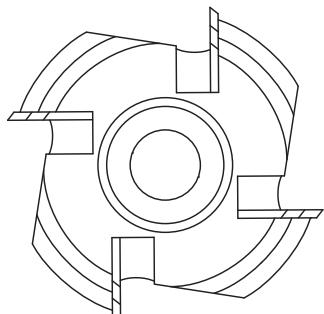
2045

D	B	d+ch	R	X	Tipo	MACCHINA	ID nr. DX	ID nr. SX
75	16	12	2	7,8	1	MiniMax	2045001	2045002
75	16	12	2	6,85	1	SM.MEC.	2045005	2045006
75	16	12	3	7,8	1	MiniMax SM.MEC.	2045003	2045004
75	16	16+2	2	14,1	2	SM.MEC.	2045007	2043008
75	16	16+2	2	6,6	3	SM.MEC.	2045009	2045010

DX



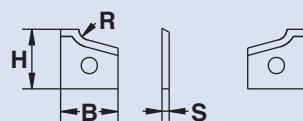
SX



RICAMBI

	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLI R2 (MiniMax)	16x17x2	9534001	9534002
COLTELLI R3 (SM.MEC.)	16x17x2	9534005	9534006
COLTELLI R3 (MiniMax/SM.MEC.)	16x17x2	9534003	9534004
COLTELLI R2-2° (SM.MEC.)	16x17x2	9534007	9534008
COLTELLI R2 -1.5° (SM.MEC.)	16x17x2	9534009	9534010
LARDONI	13x12x7,5		9545004
VITI	M6x14		9546017

DX SX



2071

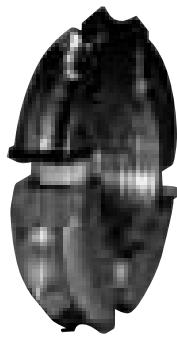
Teste portacoltelli per macchine bordatrici.

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	R	Z	ID nr. DX	ID nr. SX
70	16	20+2	11	1	4	2071001	2071002
70	16	20+2	11	2	4	2071003	2071004
70	16	20+2	11	3	4	2071005	2071006

MEC



Caratteristiche

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

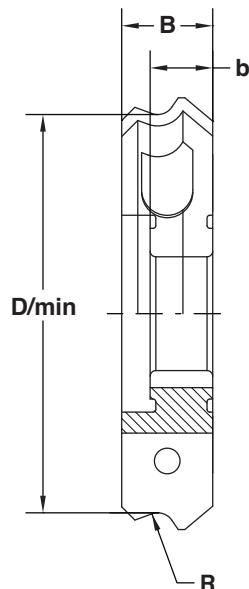
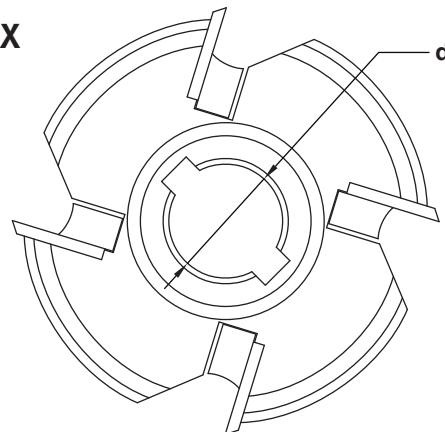
Max rpm 18000

Characteristics

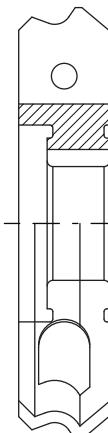
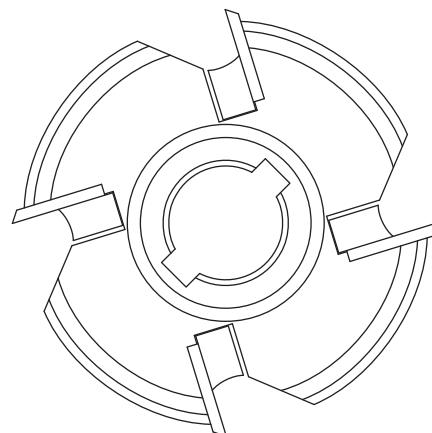
Cutterheads for edged panels in solid wood or various types of laminations.

Max rpm 18000

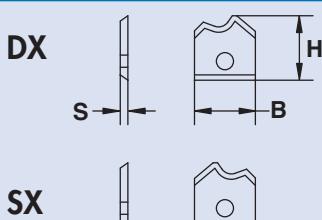
DX



SX



RICAMBI



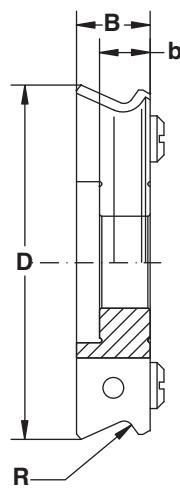
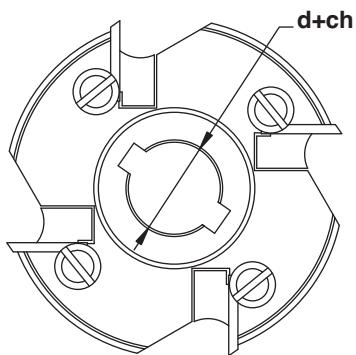
	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLI R1	16x17x2	9562001	9562002
COLTELLI R2	16x17x2	9562003	9562004
COLTELLI R3	16x17x2	9562005	9562006
LARDONI	13x12x6		9545041
VITI	M6x14		9546017

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

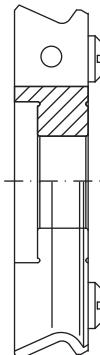
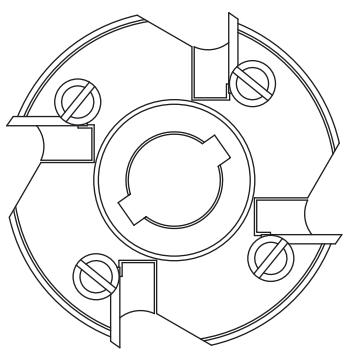
2072

D	B	d+ch	b	R	Z	ID nr. DX	ID nr. SX
77	16	20+2	11	2	4	2072001	2072002
77	16	20+2	11	3	4	2072003	2072004

DX

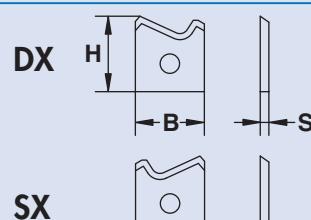


SX



RICAMBI

	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLI R2	16x17,5x2	9563001	9563002
COLTELLI R3	16x17,5x2	9563003	9563004
LARDONI	13x12x7,5		9545004
VITI	M6x14		9546017



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.

Wendeplatten-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	2046001	2046002
70	60	20	20+2	3	13,5	SCM-STEFANI	2046003	2046004

MEC



Caratteristiche

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

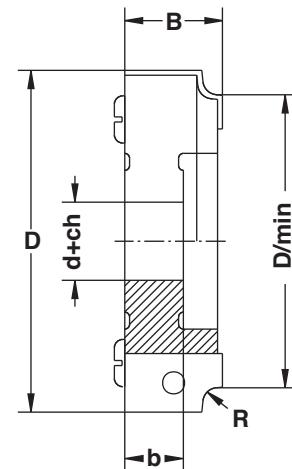
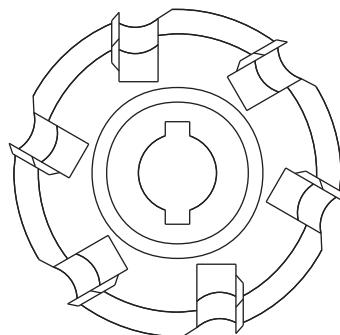
Max rpm 18000

Characteristics

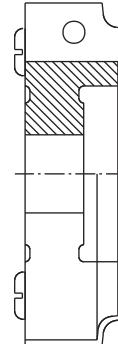
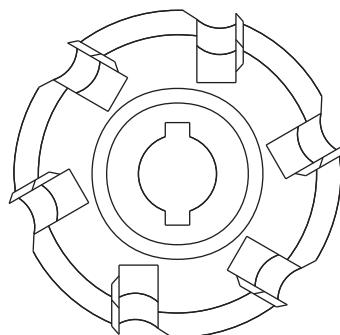
Cutterheads for edge-banding panels in solid wood or various types of laminations.

Max rpm 18000

DX

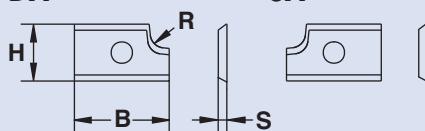


SX



RICAMBI

DX



SX

	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLI R1	20x12x1,5	9535001	9535002
COLTELLI R2	20x12x1,5	9535003	9535004
COLTELLI R3	18x12x7,5	9545031	9545032
VITI	M6x16		9546018

Teste portacoltelli per bordatrici, doppio raggio.

Cutterheads for edge-banding machines, double radius.

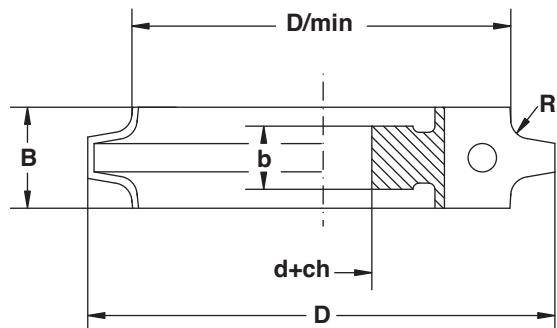
Têtes porte-couteaux pour machines à border, double rayon.

Wendeplatten-Kanterköpf, Doppel Strahl.

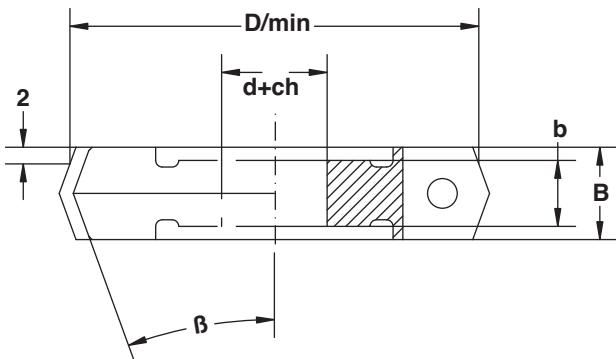
Cabezales con cuchillas para máquinas canteadoras, doble radio.

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



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



MEC



Caratteristiche

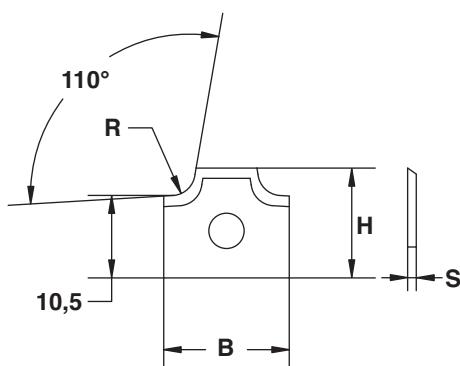
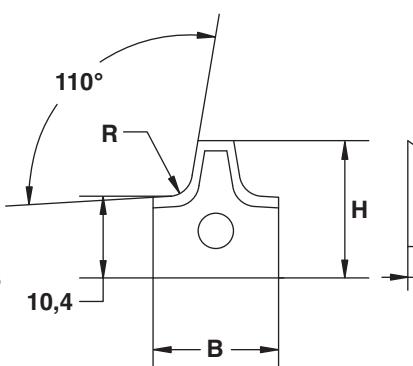
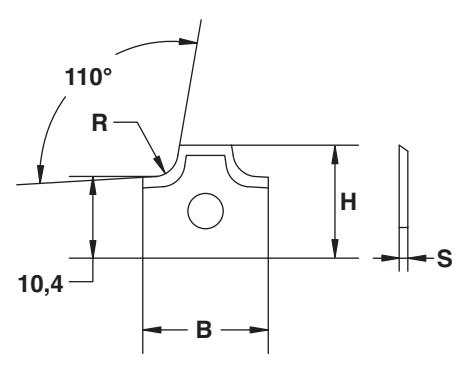
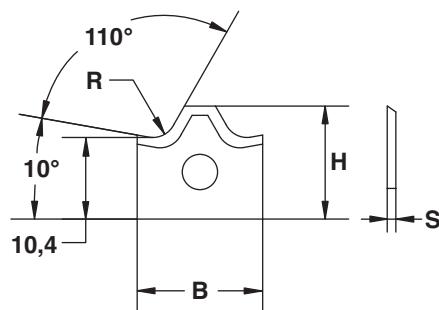
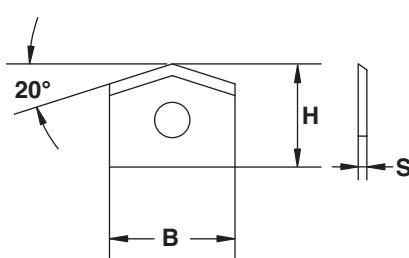
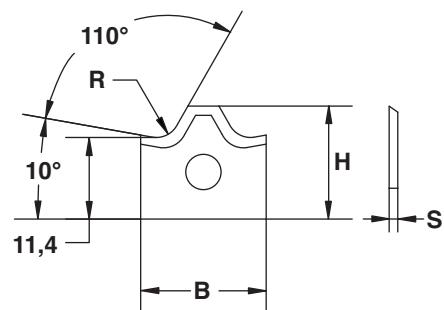
Testa portacoltelli DX-SX per raccordare pannelli bordati.

Max rpm 18000

Characteristics

Cutterhead RIGHT-LEFT for edged panels.

Max rpm 18000

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.	9536001	9545041	9546016

TIPO - B PER ART. 2047005/006/007/008/017/018/019/020	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	16x17,5x2	13x12x6	M6x12
ID nr.	9536002	9545041	9546016

TIPO - C PER ART. 2047001/002/003/004/021/024	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	16x13,4x2	13x12x6	M6x12
ID nr.	9536003	9545041	9546016

TIPO - D PER ART. 2047013/014/015/016	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	16x14,4x2	13x12x6	M6x12
ID nr.	9536004	9545041	9546016

TIPO - E PER ART. 2047101	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	16x13,15x2	13x12x6	M6x12
ID nr.	9536101	9545041	9546016

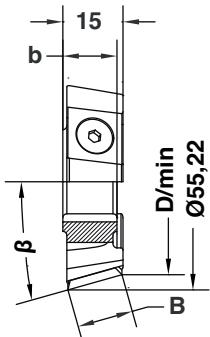
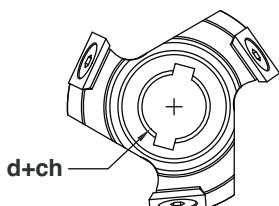
TIPO - F PER ART. 2047022/023/025	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	16x14,4x2-20°	13x12x6	M6x12
ID nr.	9536005	9545041	9546016

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

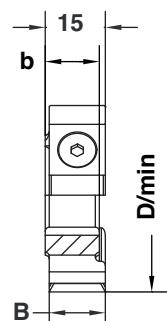
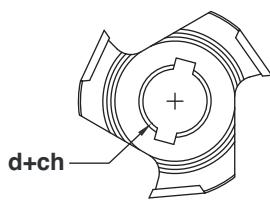
D/min	B	d+ch	b	B	Z	MACCHINA	ID nr. DX	ID nr. SX
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48	14	16+2	13,5	15	3	SCM	2081001	2081002
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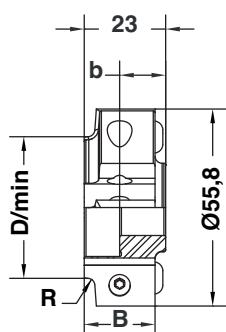
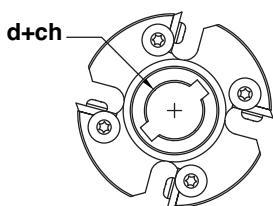
D/min	B	d+ch	b	-	Z	MACCHINA	ID nr. DX	ID nr. SX
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48	14	16+2	13,5	-	3	SCM	2081011	2081012
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D/min	B	d+ch	b	R	Z	MACCHINA	ID nr. DX	ID nr. SX
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40	20	16+2	13	2	4	SCM	2081021	2081022
40	20	16+2	13	3	4	SCM	2081023	2081024



Caratteristiche

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

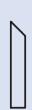
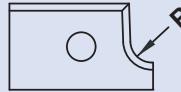
Characteristics

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

DX



SX



PER ART.	2081001 ÷ 012		2081021 ÷ 024	
Dimensione	COLTELLI	VITI	COLTELLI-RAGG	VITI
ID nr.	9508002	9546004	9575	9546006

2051

Teste portacoltelli per macchine bordatrici.

Cutterheads for edge-banding machines.

Têtes porte-couteaux pour machines à border.

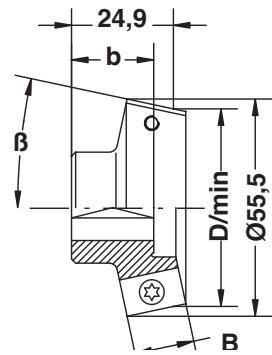
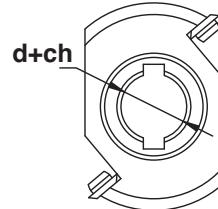
Wendeplatten-Kanterköpf.

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	2051001	2051002
48	14,6	16+2	20	12°	3	SCM-STEFANI	2051003	2051004

MEC



MEC

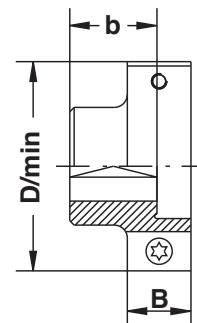
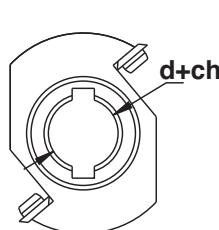
Caratteristiche

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

D/min	B	d+ch	b	-	Z	MACCHINA	ID nr. DX	ID nr. SX
48	14,6	16+2	20	-	2	SCM-STEFANI	2051011	2051012
48	14,6	16+2	20	-	3	SCM-STEFANI	2051013	2051014



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	2051021	2051022
48	15	16+2	20	1,5	2	SCM-STEFANI	2051023	2051024
48	15	16+2	20	2,0	2	SCM-STEFANI	2051025	2051026
48	15	16+2	20	2,5	2	SCM-STEFANI	2051027	2051028
48	15	16+2	20	3,0	2	SCM-STEFANI	2051029	2051030
48	15	16+2	20	1,0	3	SCM-STEFANI	2051031	2051032
48	15	16+2	20	1,5	3	SCM-STEFANI	2051033	2051034
48	15	16+2	20	2,0	3	SCM-STEFANI	2051035	2051036
48	15	16+2	20	2,5	3	SCM-STEFANI	2051037	2051038
48	15	16+2	20	3,0	3	SCM-STEFANI	2051039	2051040



MEC

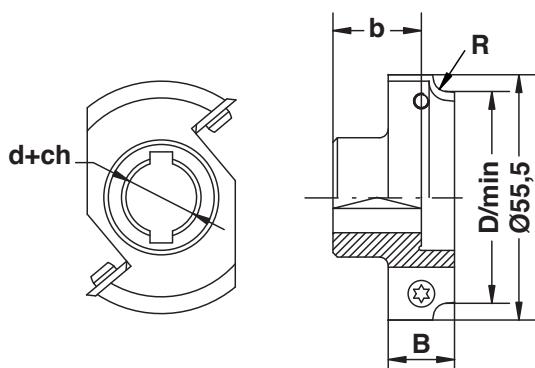


Caratteristiche

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

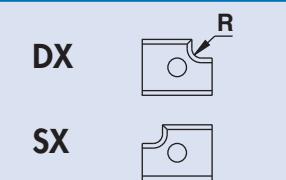
Characteristics

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



RICAMBI

PER ART.	2051001 ÷ 014		2051021 ÷ 40	
Dimensione	COLTELLI	VITI	COLTELLI-RAGG	VITI
ID nr.	15x9x1,5 9506004	M3,5x6 9546025	15x12x1,5 9553	M3,5x6 9546025



2052

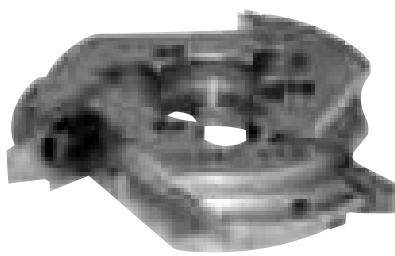
Teste portacoltelli per macchine bordatrici.

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	2052003
50	12	19+3+3	2,0	3	MORBIDELLI	2052004
50	12	19+3+3	3,0	3	MORBIDELLI	2052006
50	12	19+3+3	4,0	3	MORBIDELLI	2052008
50	15	19+3+3	5,0	3	MORBIDELLI	2052010



Caratteristiche

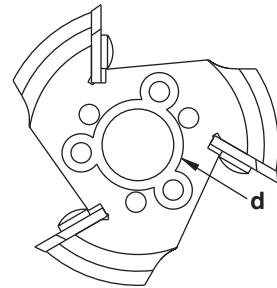
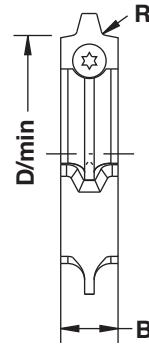
Teste portacoltelli per raccordare pannelli bordati con legno massiccio e laminati.

Max rpm 18000

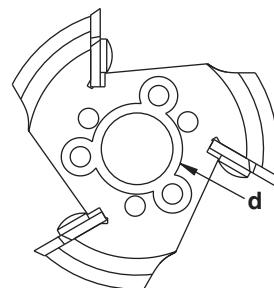
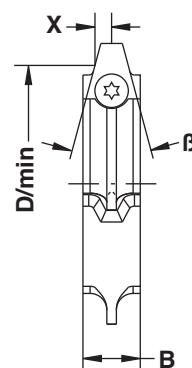
Characteristics

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

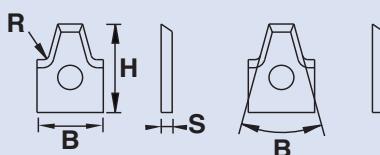
Max rpm 18000



D/min	B	d	β	Z	MACCHINA	ID nr.
50	12	19+3+3	15°	3	MORBIDELLI	2052021
50	12	19+3+3	45°	3	MORBIDELLI	2052022
50	12	19+3+3	30°	3	MORBIDELLI	2052023



RICAMBI



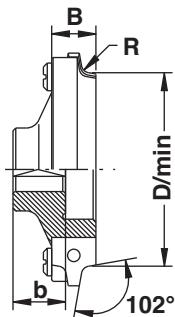
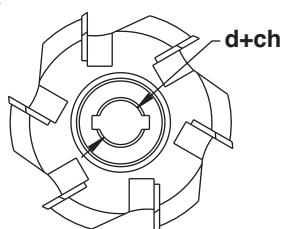
COLTELLI	BxHxS	ID nr.	COLTELLI	BxHxS	ID nr.
R1,5	12x20x2	9551003	$\beta30^\circ$	12x20x2	9551021
R2,0	12x20x2	9551004	$\beta45^\circ$	12x20x2	9551022
R3,0	12x20x2	9551006	$\beta60^\circ$	12x20x2	9551023
R4,0	12x20x2	9551008	VITI	M3,5x6	9546006
R5,0	15x20x2	9551010			

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	2054001	2054002
70	16	16+2	19	2,0	6	BIESSE	2054003	2054004
70	16	16+2	19	3,0	6	BIESSE	2054005	2054006
70	16	16+2	19	4,0	6	BIESSE	2054007	2054008
70	16	16+2	19	5,0	6	BIESSE	2054009	2054010

DX

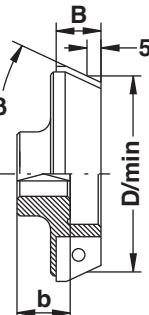
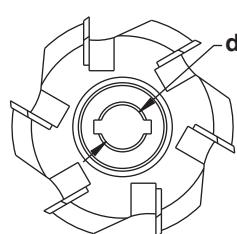


MEC



D/min	B	d+ch	b	β	Z	MACCHINA	ID nr. DX	ID nr. SX
70	16	16+2	19	25°	6	BIESSE	2054021	2054022

DX



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

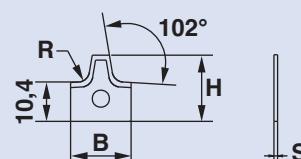
RICAMBI

PER ART. 2054001÷010

Dimensioni BxHxS	COLTELLI	LARDONI	VITI
ID nr.	16x17,5x2 9554001÷5	13x12x6 9545041	M6x12 9546016

PER ART. 2054021÷022

Dimensioni BxHxS	COLTELLI	LARDONI	VITI
ID nr. DX	16x15,7x2 9554011	13x12x6 9545041	M6x12 9546016



DX

SX



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	2059001	2059002
80	20	20+2	22	6	BIESSE	2059003	2059004
80	30	20+2	22	6	BIESSE	2059005	2059006

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.

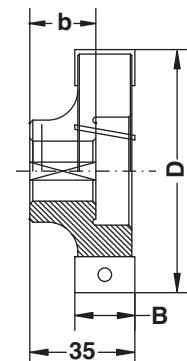
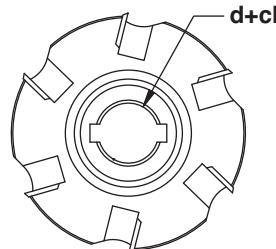
Max rpm 18000

Characteristics

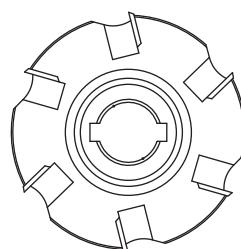
Cutterhead with reversible knives in HM for trimming and chamfering panels edges with solid wood types of laminations, for single or double edge-banding machines.

Max rpm 18000

DX



SX



RICAMBI

PER ART. 2059001/002/003/004

	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	20x12x1,5	18x12x7,5	M6x16
ID nr.	9503005	9545005	9546018

PER ART. 2059005/006

	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	30x12x1,5	28x12x7,5	M6x16
ID nr.	9503006	9545006	9546018

Testa combinata portacoltelli per macchine bordatrici.

Cutterhead for edge-banding machines.

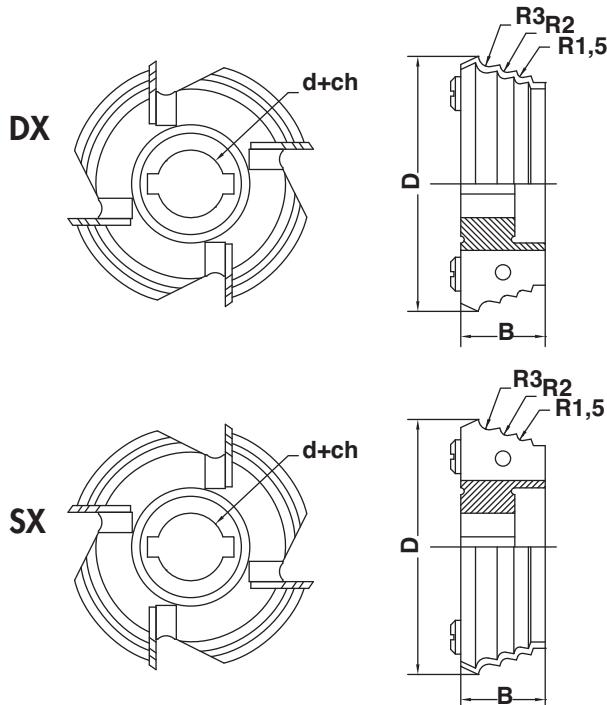
Tête port-couteaux pour machines à border.

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	2056011	2056012



MEC



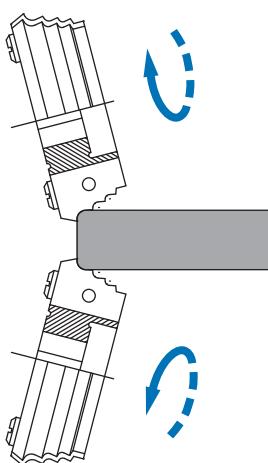
Caratteristiche

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

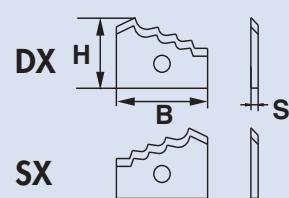
Cutterheads for edging in solid wood or various types of laminations, for execution of different radius without changing the tool.
Max rpm 18000

ESEMPIO DI LAVORAZIONE



RICAMBI

	Dimensioni BxHxS	ID nr. DX	ID nr. SX
COLTELLI	25x18,7x2	9556001	9556002
LARDONI	23,5x10x7,5	9545071	
VITI	M6x14	9546017	



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.



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).

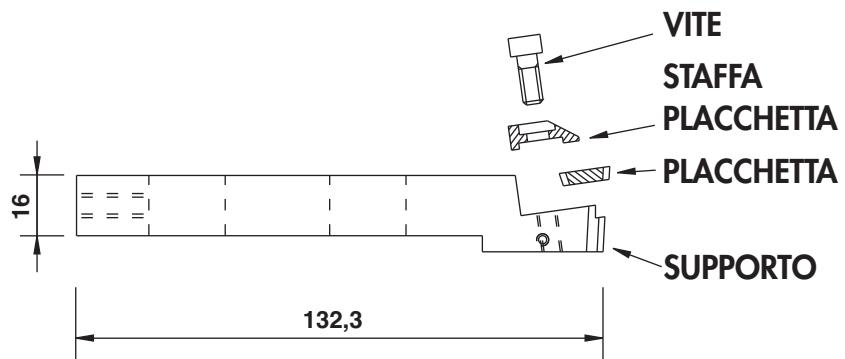
If it is necessary it is supplied complete of slide.

Denominazione

ID nr.

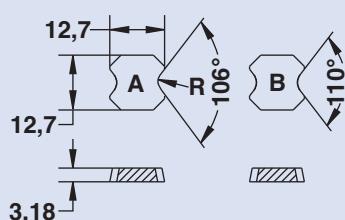
RASCHIETTO COMPLETO SENZA SLITTA

2048002



RICAMBI

N°1A N°1B



N°2

N°3

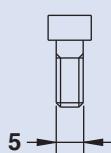


FIGURA N° 1/A

Placchetta 12,7x12,7x3,18 SAGOMATA 106°

RAGGIO	1	1,5	2	3
ID nr.	9550001	9550002	9550003	9550004

PER MACCHINE BIESSE

FIGURA N° 1/B

Placchetta 12,7x12,7x3,18 SAGOMATA 110°

RAGGIO	1	1,5	2	3
ID nr.	9550101	9550102	9550103	9550104

FIGURA N° 2/3

Denominazione

ID nr.

N° 2	VITE M5x12	2048052
N° 3	STAFFA PLACCHETTA	2048053

Utensile raschiabordo per macchine bordatrici.

Scraper for edge-banding machines.

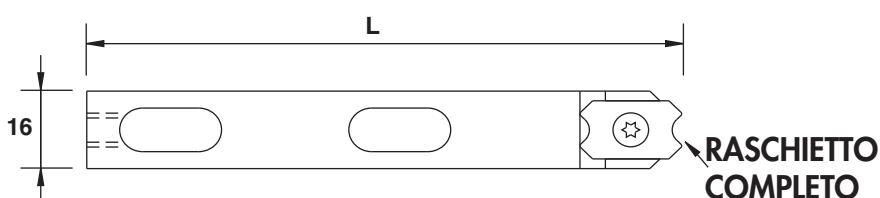
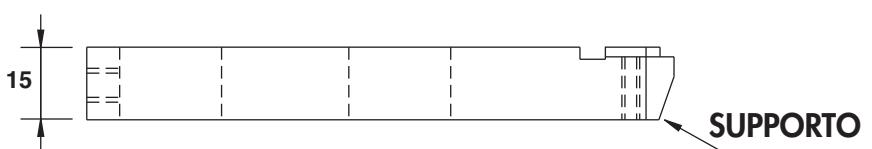
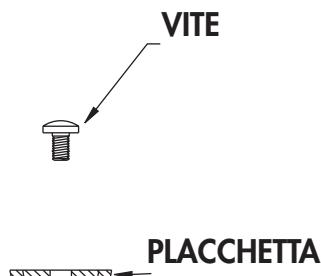
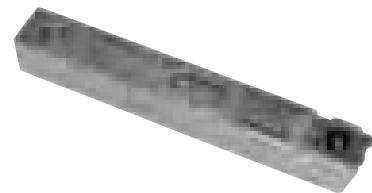
Racler pour machine à border.

Schaber für Wendeplatten.

Utensilio rascador de bordes para máquinas canteadoras.

2057

Denominazione	MACCHINA	L	ID nr.
RASCHIETTO COMPLETO	HOLZER	117	2057001
RASCHIETTO COMPLETO	SCM	133	2057002



RICAMBI

FIGURA N° 1		PLACCHETTA 20x12x2 SAGOMATA			
RAGGIO	1	1,5	2	3	
ID nr.	9550201	9550202	9550203	9550204	

FIGURA N° 2		Denominazione	ID nr.
N° 2		VITE M3,5x6	9546006



Caratteristiche

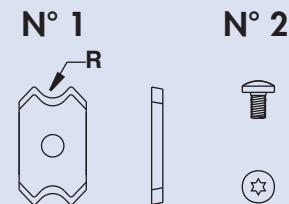
Utensile per macchina bordatrice per togliere spigoli sul pannello.

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.



2058

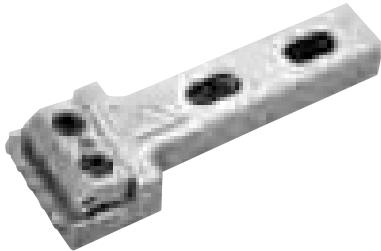
Utensile raschiabordo MULTIRAGGIO per macchine bordatrici.

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

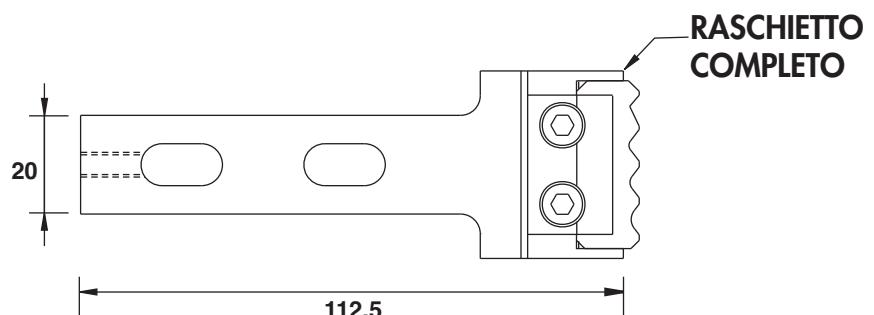
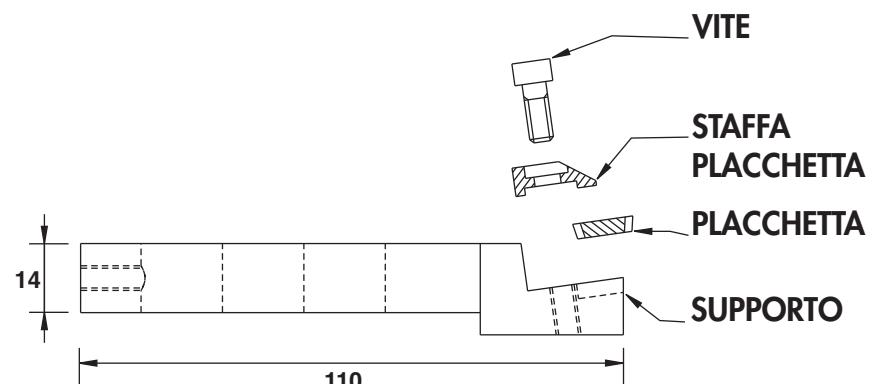
Raschietto per macchina bordatrice per togliere spigoli sul pannello, permette di ottenere diversi tipi di raggi senza cambiare l'utensile.

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	2058001



RICAMBI

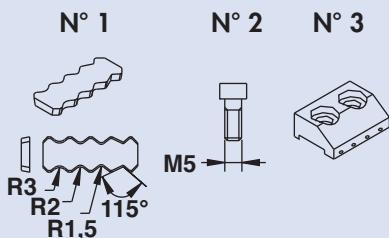


FIGURA N° 1 PLACCETTA 20x12x2 SAGOMATA

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.	9550301	9550302	9550303	9550304

FIGURA N° 2 Denominazione ID nr.

N° 2	VITE M5x12	2048052
N° 3	STAFFA PER PLACCETTA	2058051



Evolved**Experience**



Frese per Pantografo

Profile Routers for Pantograph

Frese per Pantografo Profile Routers for Pantograph

3



Punte scolpitrici

Engraving drills

P 157



Frese per forare e contornare in HM

Cutters in HM for boring and bordering

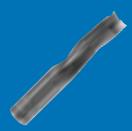
P 162



Frese sagomate a disegno

Cutters shaped from drawings

P 163



Frese per forare e contornare in HM integrale

Cutters in integral HM for boring and bordering

P 169



Teste per forare e contornare a coltellini

Cutterheads with knives for boring and bordering

P 183



Teste multiprofilo

Multiprofile Cutterheads

P 199



Teste sagomate a disegno

Cutterheads shaped from drawings

P 207



Teste per antine

Cutterheads for cabinet doors

P 211



Teste a raggiare

Radius cutterheads

P 219



Gruppo per la squadratura di porte Z2.

Group for the squaring of doors Z2.

P 230

Punte in HSS per scolpitrici a testa piana Z1.

Drills in HSS for carving machines Z1.

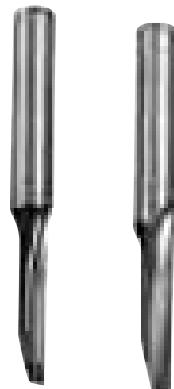
Mèches en HSS à sculpter fond plat Z1.

Bohrer HSS für Schintzmaschinen Z1.

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

3001

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



MEC

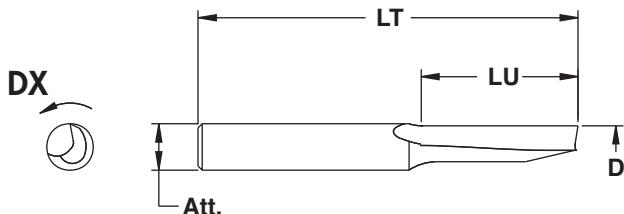


Caratteristiche

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

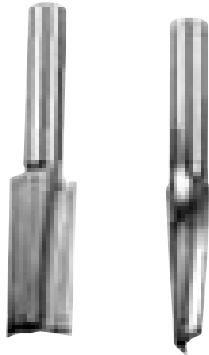
Punte in HSS per scolpitrici a testa piana Z2.

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	Ø11x50	2	24000	3002001	3002002
12	40	90	Ø11x50	2	24000	3002003	3002004
14	40	90	Ø11x50	2	24000	3002005	3002006
16	40	90	Ø11x50	2	24000	3002007	3002008
18	40	90	Ø11x50	2	24000	3002009	3002010
20	40	90	Ø11x50	2	24000	3002011	3002012
22	40	90	Ø11x50	2	24000	3002013	3002014
24	40	90	Ø11x50	2	24000	3002015	3002016

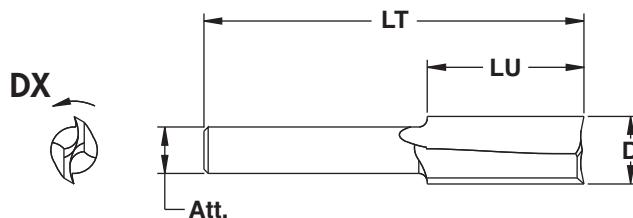


Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°2 taglienti assialmente inclinati con grande scarso 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.

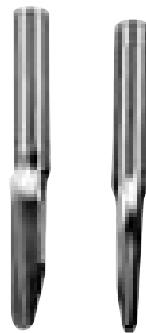
Mèches en HSS à sculpter fond arrondi Z1.

Bohrer HSS für Schintzmaschinen Z1.

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

3003

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

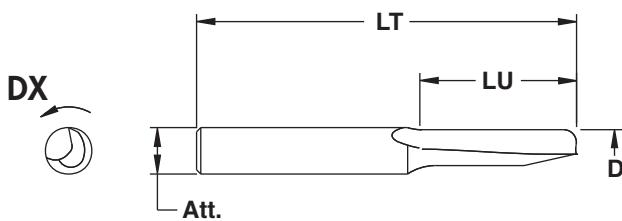


Caratteristiche

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

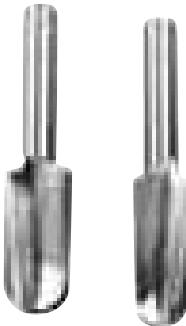
Punte per scolpitrici a testa tonda Z2 in HSS.

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	3004001	3004002
12	40	90	Ø11x50	2	24000	3004003	3004004
14	40	90	Ø11x50	2	24000	3004005	3004006
16	40	90	Ø11x50	2	24000	3004007	3004008
18	40	90	Ø11x50	2	24000	3004009	3004010
20	40	90	Ø11x50	2	24000	3004011	3004012
22	40	90	Ø11x50	2	24000	3004013	3004014
24	40	90	Ø11x50	2	24000	3004015	3004016

MEC

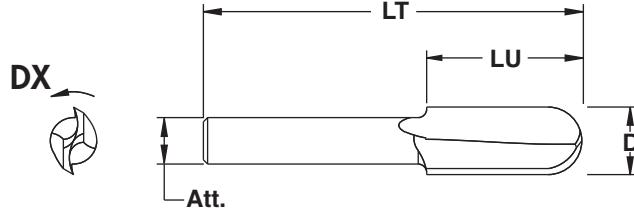


Caratteristiche

Esecuzione in HSS per legni teneri e duri non incollati con N°2 taglienti assialmente inclinati con grande scarso sul dorso, per facilitare lo scarico del truciolo.

Characteristics

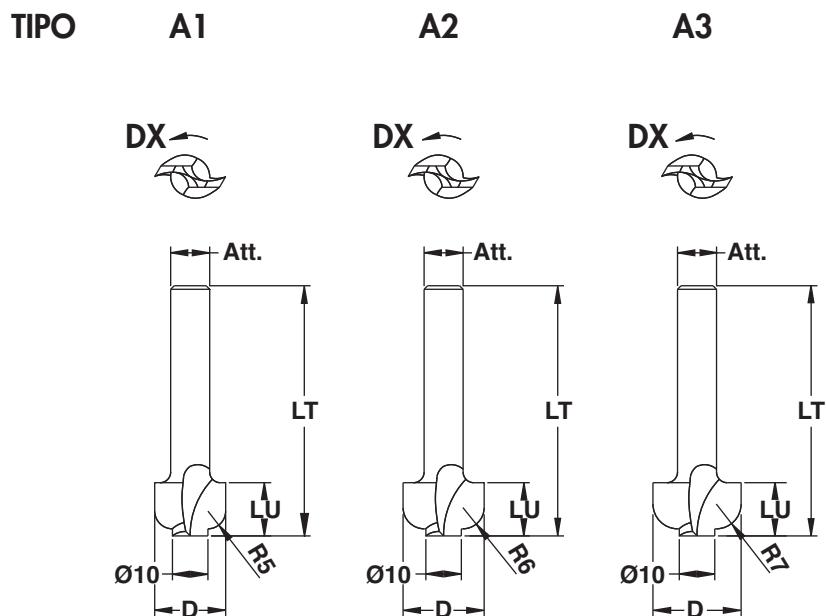
Execution in HSS for not glued soft and hard woods with N°2 shear angle cutting edges, back grinding for easier chip clearance.



Punte per scolpitrici 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	3005001	3005002
22	15	70	Ø11x50	2	A2	24000	3005003	3005004
24	15	70	Ø11x50	2	A3	24000	3005005	3005006
20	15	70	Ø11x50	2	B1	24000	3005007	3005008
22	15	70	Ø11x50	2	B2	24000	3005009	3005010
24	15	70	Ø11x50	2	B3	24000	3005011	3005012

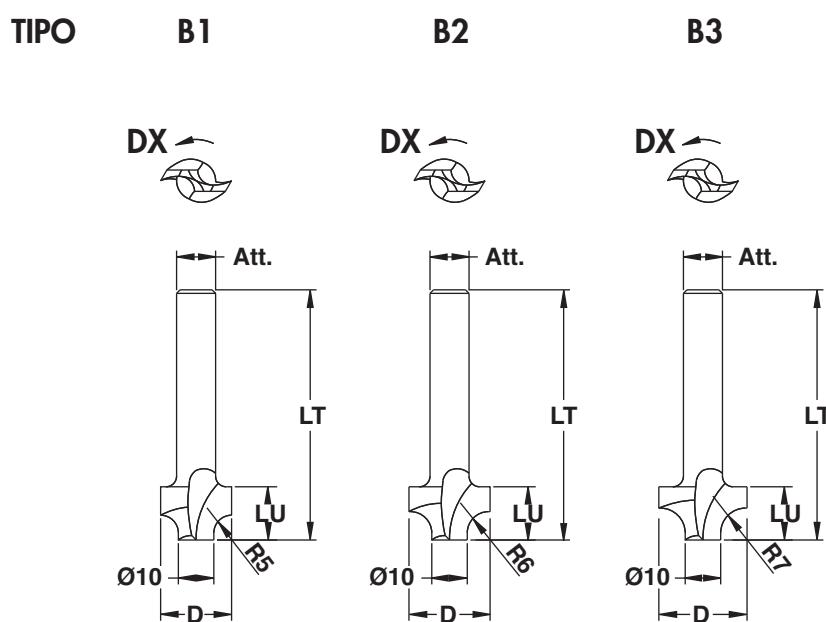


Caratteristiche

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 saldobrastrate per forare e contornare in HM.

Spiral multicut router bits to drill and edge in HM.

Fraises multidents hélicoïdal à percer et contourner en HM.

Fräser multischanzend 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	3009001
30	60	Ø20x50	6	20000	3009002

Attacco CM2 aumento 20%

Shank CM2 increase 20%

MEC

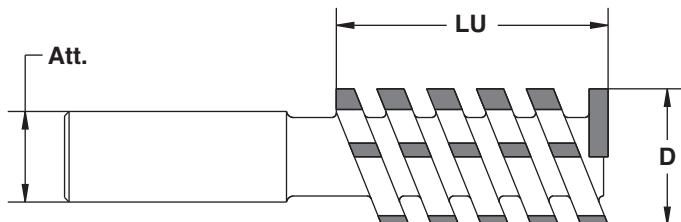
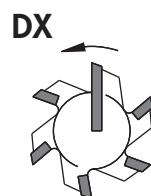


Caratteristiche

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.



Frese sagomate a piacere saldobrasate (profilo semplice).

Profil router (simple profil).

Fraises de défonçuse (profil simple).

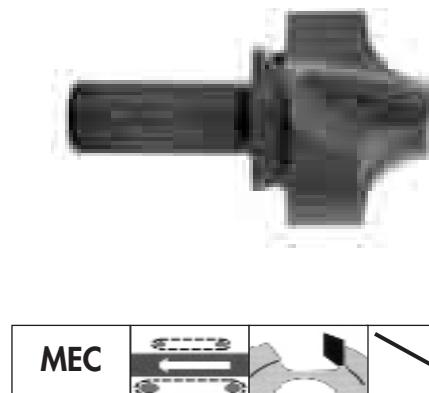
Profischafffräser (einfaches Profil).

Fresas en HM perfiladas a gusto con dientes soldados (perfil simple).

3012

D	B	Att.	Z	rpm	ID nr.
20	20	Ø20x50	2	24000	3012 001
20	30	Ø20x50	2	24000	3012 002
20	40	Ø20x50	2	24000	3012 003
20	50	Ø20x50	2	24000	3012 004
20	60	Ø20x50	2	24000	3012 005
30	20	Ø20x50	2	20000	3012 006
30	30	Ø20x50	2	20000	3012 007
30	40	Ø20x50	2	20000	3012 008
30	50	Ø20x50	2	20000	3012 009
30	60	Ø20x50	2	20000	3012 010
40	20	Ø20x50	2	18000	3012 011
40	30	Ø20x50	2	18000	3012 012
40	40	Ø20x50	2	18000	3012 013
40	50	Ø20x50	2	18000	3012 014
40	60	Ø20x50	2	18000	3012 015
50	20	Ø20x50	2	18000	3012 016
50	30	Ø20x50	2	18000	3012 017
50	40	Ø20x50	2	18000	3012 018
50	50	Ø20x50	2	18000	3012 019
50	60	Ø20x50	2	18000	3012 020
60	20	Ø20x50	2	18000	3012 021
60	30	Ø20x50	2	18000	3012 022
60	40	Ø20x50	2	18000	3012 023
60	50	Ø20x50	2	18000	3012 024
60	60	Ø20x50	2	18000	3012 025
70	20	Ø20x50	2	18000	3012 026
70	30	Ø20x50	2	18000	3012 027
70	40	Ø20x50	2	18000	3012 028
70	50	Ø20x50	2	18000	3012 029
70	60	Ø20x50	2	18000	3012 030
80	20	Ø20x50	2	16000	3012 031
80	30	Ø20x50	2	16000	3012 032
80	40	Ø20x50	2	16000	3012 033
80	50	Ø20x50	2	16000	3012 034
80	60	Ø20x50	2	16000	3012 035
100	20	Ø20x50	2	14000	3012 036
100	30	Ø20x50	2	14000	3012 037
100	40	Ø20x50	2	14000	3012 038
100	50	Ø20x50	2	14000	3012 039
100	60	Ø20x50	2	14000	3012 040

Attacco CM2 aumento 20%
Shank CM2 increase 20%



MEC



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:

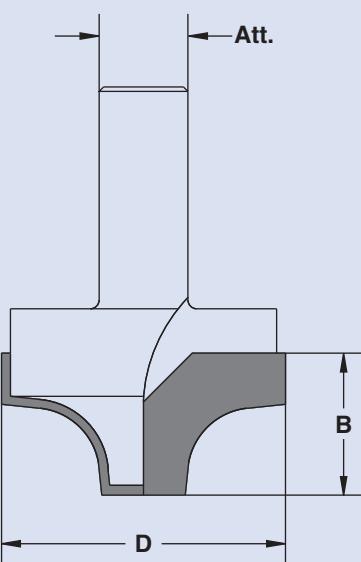
HM per legni teneri, duri, incollati, compensati, laminati truciolarì o altro; HSS per legni teneri e duri non incollati.

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.

DX



3013

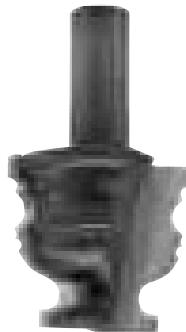
Frese sagomate a piacere saldobrasate (profilo complesso).

Profil router (complex profil).

Fraises de déonceuse (profil complex).

Profischafffräser (komplizierten Profil).

Fresas en HM perfiladas a gusto con dientes soldados (perfil complejo).



MEC



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

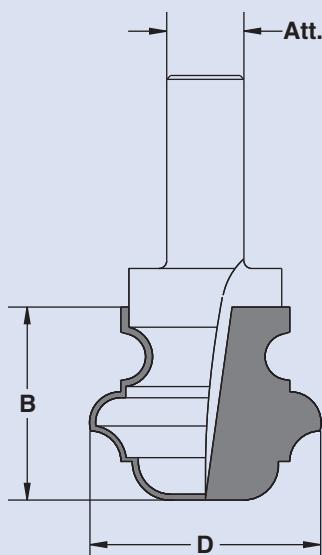
Executed HM or HSS according to different materials to be processed, straight or shear cutting edges accordind to profile to be executed:

HM for soft, hard, glued woods, plywood laminated, chipboard and more;

HSS for not glued soft and hard woods.



DX



D	B	Att.	Z	rpm	ID nr.
20	20	Ø20x50	2	24000	3013001
20	30	Ø20x50	2	24000	3013002
20	40	Ø20x50	2	24000	3013003
20	50	Ø20x50	2	24000	3013004
20	60	Ø20x50	2	24000	3013005
30	20	Ø20x50	2	20000	3013006
30	30	Ø20x50	2	20000	3013007
30	40	Ø20x50	2	20000	3013008
30	50	Ø20x50	2	20000	3013009
30	60	Ø20x50	2	20000	3013010
40	20	Ø20x50	2	18000	3013011
40	30	Ø20x50	2	18000	3013012
40	40	Ø20x50	2	18000	3013013
40	50	Ø20x50	2	18000	3013014
40	60	Ø20x50	2	18000	3013015
50	20	Ø20x50	2	18000	3013016
50	30	Ø20x50	2	18000	3013017
50	40	Ø20x50	2	18000	3013018
50	50	Ø20x50	2	18000	3013019
50	60	Ø20x50	2	18000	3013020
60	20	Ø20x50	2	18000	3013021
60	30	Ø20x50	2	18000	3013022
60	40	Ø20x50	2	18000	3013023
60	50	Ø20x50	2	18000	3013024
60	60	Ø20x50	2	18000	3013025
70	20	Ø20x50	2	18000	3013026
70	30	Ø20x50	2	18000	3013027
70	40	Ø20x50	2	18000	3013028
70	50	Ø20x50	2	18000	3013029
70	60	Ø20x50	2	18000	3013030
80	20	Ø20x50	2	16000	3013031
80	30	Ø20x50	2	16000	3013032
80	40	Ø20x50	2	16000	3013033
80	50	Ø20x50	2	16000	3013034
80	60	Ø20x50	2	16000	3013035
100	20	Ø20x50	2	14000	3013036
100	30	Ø20x50	2	14000	3013037
100	40	Ø20x50	2	14000	3013038
100	50	Ø20x50	2	14000	3013039
100	60	Ø20x50	2	14000	3013040

Attacco CM2 aumento 20%

Shank CM2 increase 20%

Frese per mandrino centrico in HM integrale.

Router bit in HM integral for centric chuck.

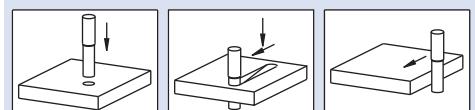
Mèches en HM intégral à defoncer pour mandrin centrique.

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	$\varnothing 9,5 \times 22$	2	30000	3014001
4	8	50	$\varnothing 9,5 \times 22$	2	30000	3014002
5	10	50	$\varnothing 9,5 \times 22$	2	30000	3014003
6	15	50	$\varnothing 9,5 \times 22$	2	30000	3014004
7	15	50	$\varnothing 9,5 \times 22$	2	30000	3014005
8	22	50	$\varnothing 9,5 \times 22$	2	30000	3014006
9	22	50	$\varnothing 9,5 \times 22$	2	30000	3014007
10	26	50	$\varnothing 9,5 \times 22$	2	30000	3014008



Caratteristiche

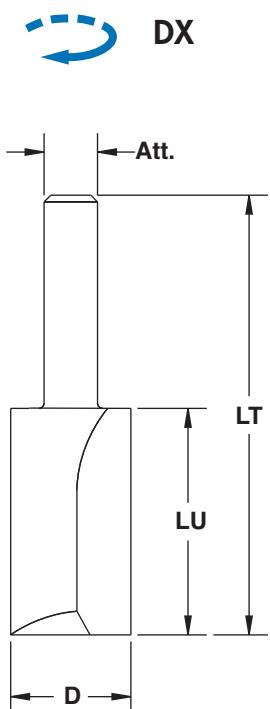
Esecuzione in HM integrale.

Idonea per esecuzione di forature e contornature su tutti i tipi di legno naturale, truciolare, MDF o altro.

Characteristics

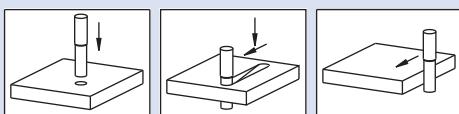
Execution in Integral HM.

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.

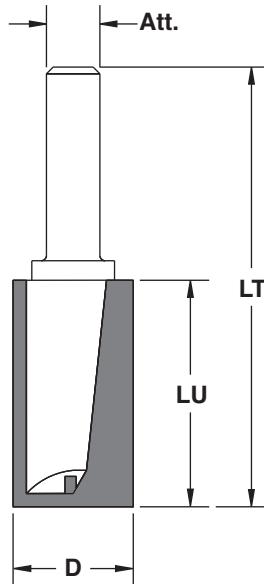
Idonea per esecuzione di forature e contornature su tutti i tipi di legno naturale, truciolare, MDF o altro.

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 saldobrastrate Z2+1.

Router bit for centric chuck Z2+1.

Mèches à defoncer pour mandrin centrique Z2+1.

Oberfräser für zentrischen Spannfutter Z2+1.

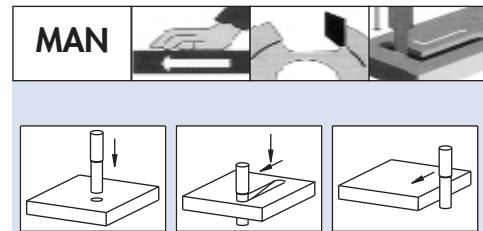
Fresas con dientes soldados para mandril concéntrico Z2+1.

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



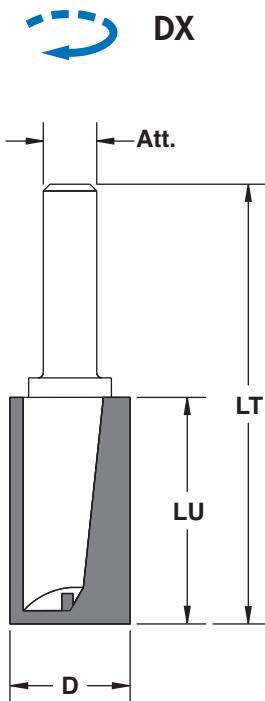
Caratteristiche

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.

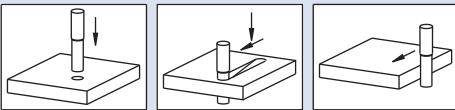
Mèches long à defoncer pour mandrin centrique Z2+1.

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

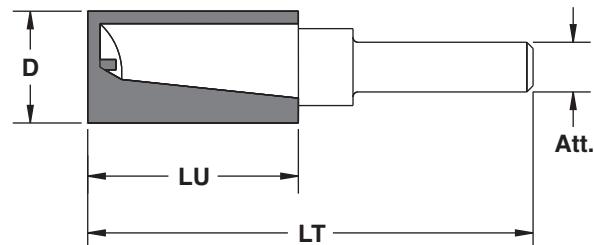
Esecuzione in HM riportato.

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.

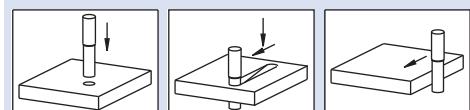
Mèches hélicoïdales pour défonceuse en HM intégral Z1 HÉLICE POSITIVE.

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.

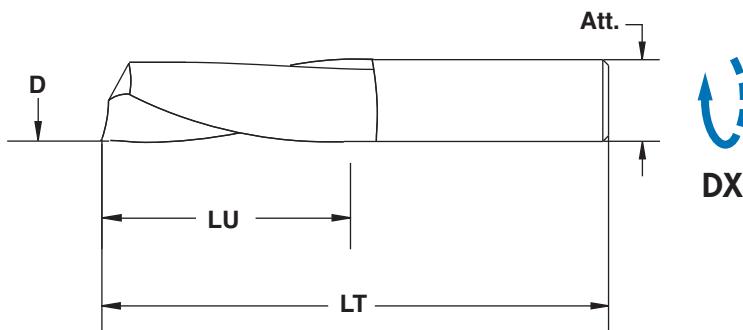
Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

Execution in Integral HM.

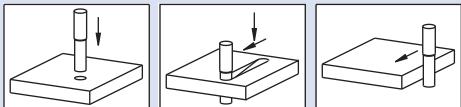
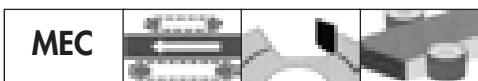
Especially recommended for all working where drilling is most important.

Positive propeller: expulsion of the wood-shaving towards the with perfect finish of lower side of panel.



3019

Frese elicoidali Z1 in HM integrale ELICA NEGATIVA.
Twist router drills in HM integral Z1 with NEGATIVE PROPELLER.
 Mèches hélicoïdales pour défoneuse en HM intégral Z1 HÉLICE NÉGATIVE.
Spiralbohrer Oberfräser zu HM integral Z1 mit NEGATIV PROPELLER.
 Fresas helicoidales Z1 en HM macizo HÉLICE NEGATIVA.



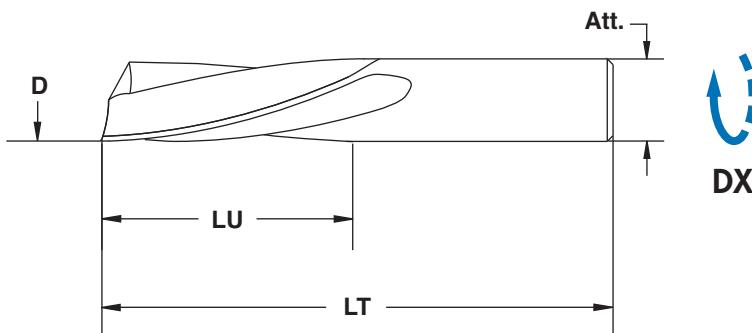
Caratteristiche

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.

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.

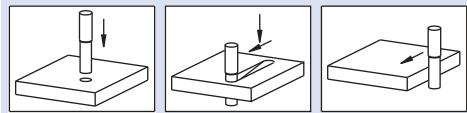
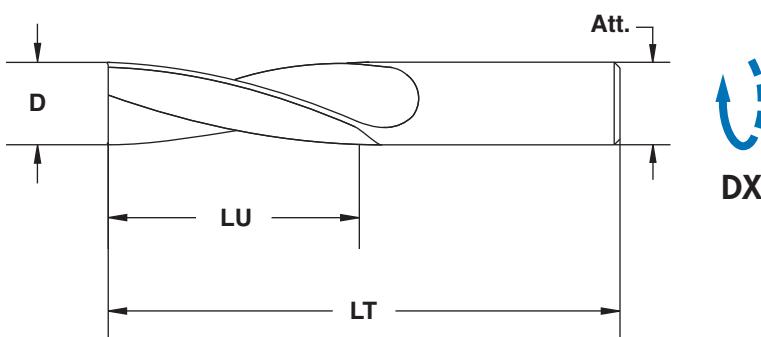
Mèches hélicoïdales pour défonceuse en HM intégral Z2 HÉLICE POSITIVE.

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

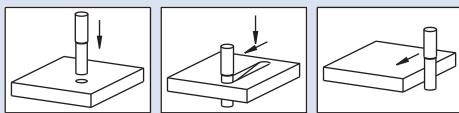
Execution in Integral HM.

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

**Frese elicoidali Z2 in HM integrale ELICA NEGATIVA.
Twist router drills in HM integral Z2 with NEGATIVE PROPELLER.
Mèches hélicoïdales pour défoneuse en HM intégral Z2 HÉLICE NEGATIVE.
Spiralbohrer Oberfräser zu HM integral Z2 mit NEGATIV PROPELLER.
Fresas helicoidales Z2 en HM macizo HÉLICE NEGATIVA.**



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.

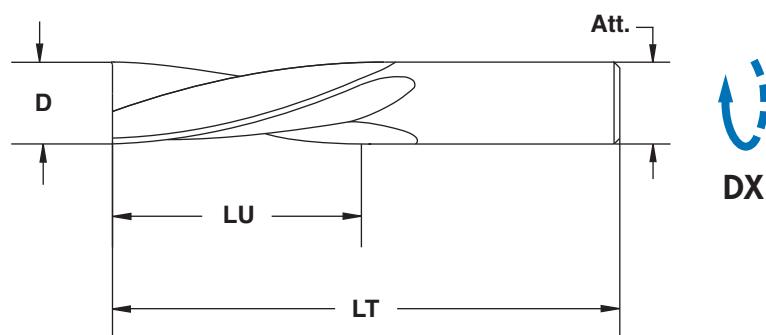
Characteristics

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.

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.

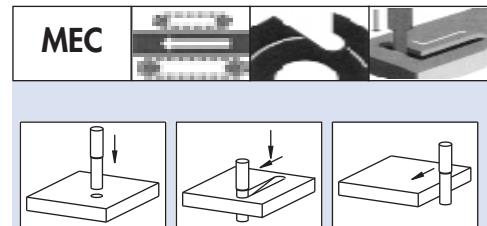
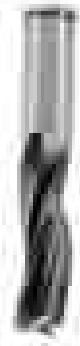
Mèches hélicoïdales Z3 pour défonceuse en HM intégral HÉLICE POSITIVE.

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.

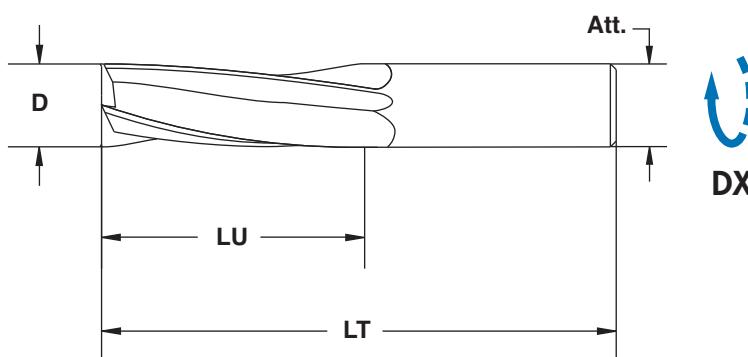
Particolarmente idonea per eseguire lavorazioni di foratura e contornatura con buona finitura superficiale ed elevata velocità di avanzamento su tutti i tipi di legno naturale. Elica positiva: espulsione del truciolo verso l'alto, ottima finitura lato inferiore del pannello.

Characteristics

Execution in Integral HM.

Recommended for drilling and edges operations with good surface quality and high advancing speed on all natural woods.

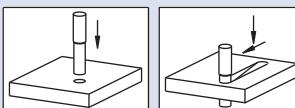
Positive propeller: expulsion of the wood-shaving towards the with perfect finish of lower side of panel.



3023



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.



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.

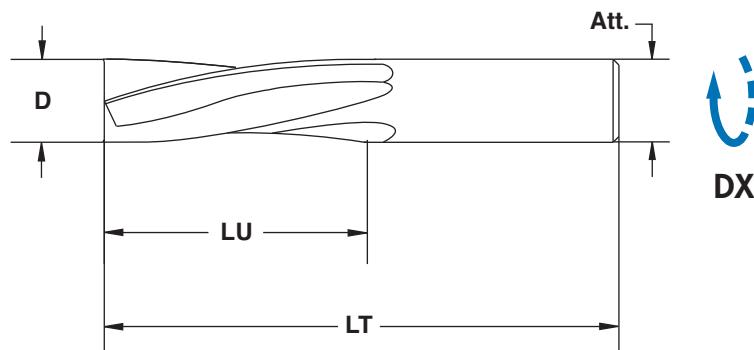
Characteristics

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.

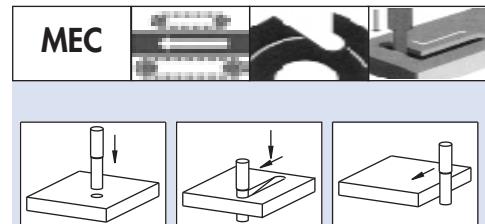
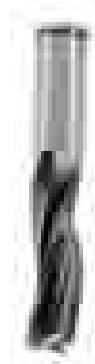
D	LU	LT	Att.	Z	rpm	ID nr. DX
8	22	80	Ø8	3	24000	3023001
8	32	80	Ø8	3	24000	3023002
10	32	80	Ø10	3	24000	3023003
10	42	100	Ø10	3	24000	3023004
12	32	80	Ø12	3	24000	3023005
12	42	100	Ø12	3	24000	3023006
12	52	100	Ø12	3	24000	3023007
14	42	100	Ø14	3	24000	3023008
14	52	100	Ø14	3	24000	3023009
16	42	100	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 hélicoïdales Z3 en HM intégral HÉLICE POSITIVE avec brisecopeau.
 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

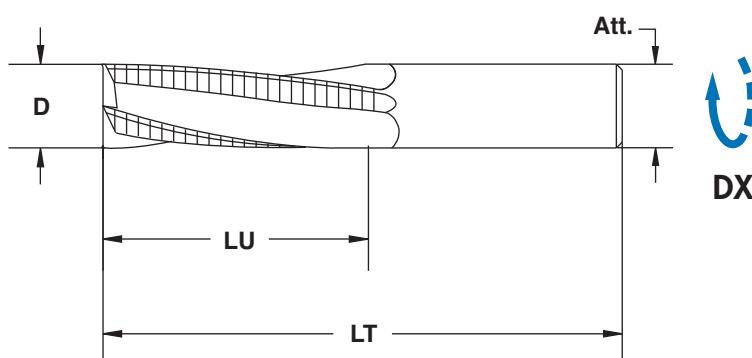


Caratteristiche

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.

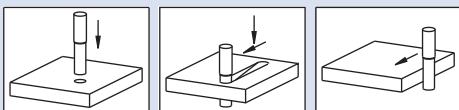
Characteristics

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

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 brisecopeau.
Spiralbohrer Oberfräser Spannfutter zu HM integral Z3 mit NEGATIV PROPELLER.
 Fresas helicoidales Z3 en HM macizo con rompeviruta HÉLICE NEGATIVA.



Caratteristiche

Esecuzione in HM integrale.

Particolamente 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.

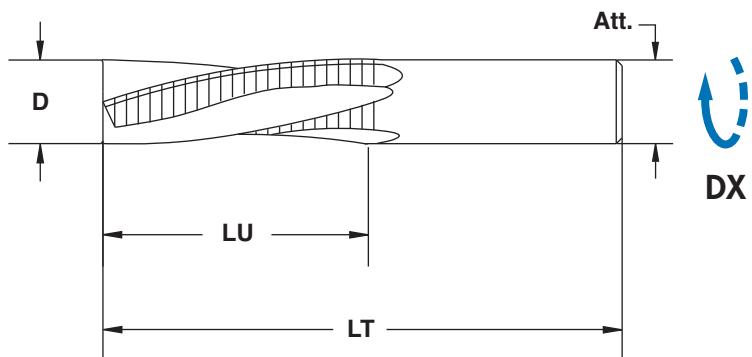
Characteristics

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.

D	LU	LT	Att.	Z	rpm	ID nr. DX
8	22	80	Ø8	3	24000	3025001
8	32	80	Ø8	3	24000	3025002
10	32	80	Ø10	3	24000	3025003
10	42	100	Ø10	3	24000	3025004
12	32	80	Ø12	3	24000	3025005
12	42	100	Ø12	3	24000	3025006
12	52	100	Ø12	3	24000	3025007
14	42	100	Ø14	3	24000	3025008
14	52	100	Ø14	3	24000	3025009
16	42	100	Ø16	3	24000	3025010
16	52	100	Ø16	3	24000	3025011
16	72	120	Ø16	3	24000	3025012
18	52	100	Ø18	3	24000	3025013
18	72	120	Ø18	3	24000	3025014
20	52	100	Ø20	3	24000	3025015
20	72	120	Ø20	3	24000	3025016
20	102	150	Ø20	3	24000	3025017

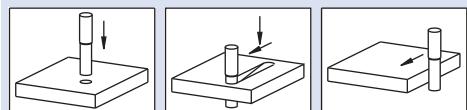


Frese elicoidali doppia elica POSITIVA-NEGATIVA Z2+2 in HM integrale.
 Twist router drills in HM integral Z2+2 with double POSITIVE-NEGATIVE propeller.
 Mèches hélicoïdales en HM intégral Z2+2 double hélice POSITIVE-NÉGATIVE.
 Spiralbohrer Oberfräser zu HM integral Z2+2 mit doppelt Schraube POSITIV-NEGATIV.
 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.

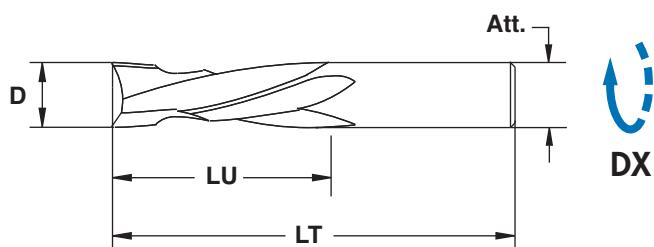


Caratteristiche

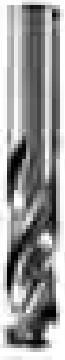
Esecuzione in HM integrale.
 Particolarmente idonea per operazioni di foratura e contornatura con ottima finitura.

Characteristics

Execution in Integral HM.
 Recommended for plunging and endgining operations on both-sides laminated panels.



3068



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

MEC



Caratteristiche

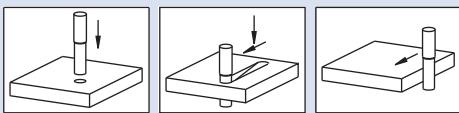
Esecuzione in HM integrale.

Particolarmente idonea per operazioni di foratura e contornatura con ottima finitura.

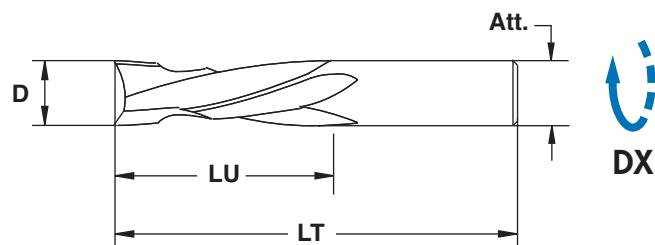
Characteristics

Execution in Integral HM.

Recommended for plunging and endgining operations on both-sides laminated panels.



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.

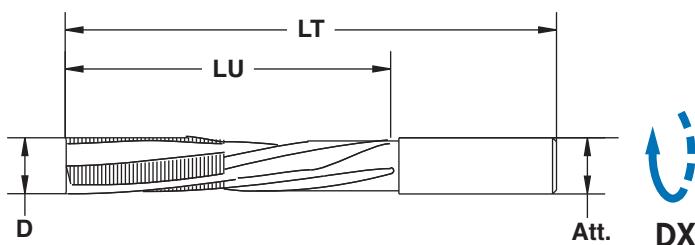
3028

Senza rompitruciolo / Without chipbreaker

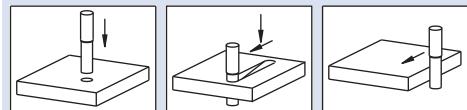
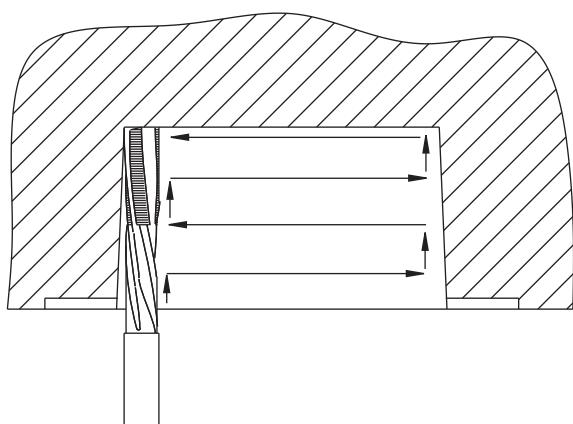
D	LU	LT	Att.	Z	rpm	ID nr. DX
16	100	150	Ø16x50	2	20000	3028 001

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



ESEMPIO DI LAVORAZIONE



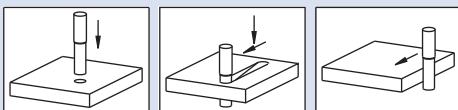
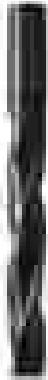
Caratteristiche

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.

3028



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 height.

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.

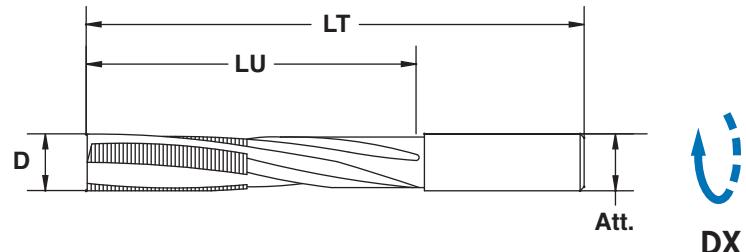
Fresas para serraduras en HM macizo con rompeviruta y HÉLICE POSITIVA.

Senza rompitruciolo / Without chipbreaker

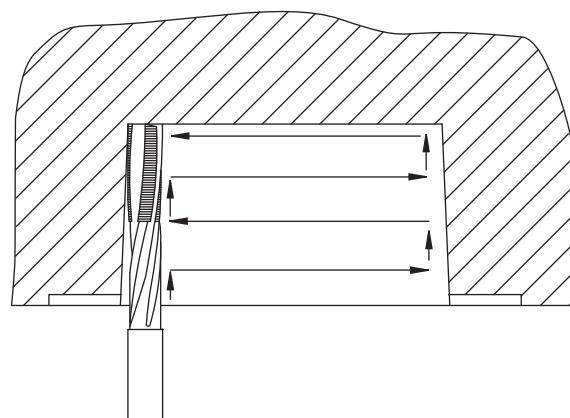
D	LU	LT	Att.	Z	rpm	ID nr. DX
16	100	150	Ø16x50	2	20000	3028 021

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



ESEMPIO DI LAVORAZIONE



Fresa a coltellini per serrature.

Cutterhead for locks.

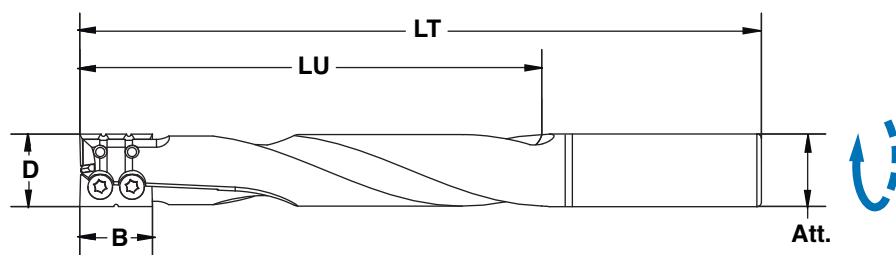
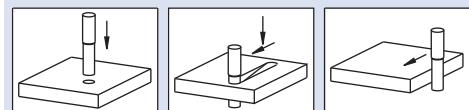
Fraises pour serrures.

Profilfräsen für Schloss.

Fresas con cuchillas para cerraduras.

3073

D	B	LU	LT	Att.	Z	rpm	ID nr. DX
16	16	105	150	Ø16x45	2+1	12000	3073 001



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.

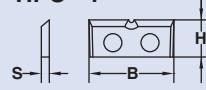
Body produced with "DENSIMET" steel.

Positive propeller: expulsion of the wood-shaving towards the hight.

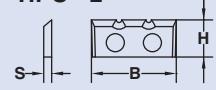
RICAMBI

	COLTELLI		VITI
Dimensioni BxHxS	16x7x1,5	16x7x1,5	M3x4
ID nr.	9576 001	9576 002	9546
TIPO	1	2	-

TIPO - 1



TIPO - 2

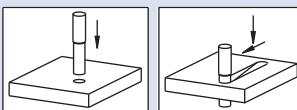


3029

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 brisecopeau 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	Ø16X50	3	20000	3029002

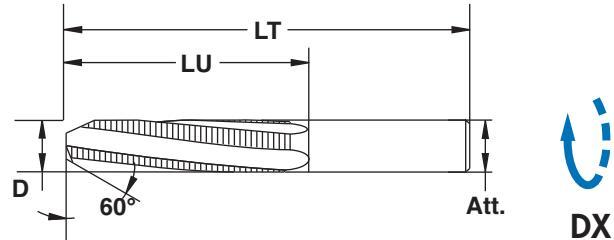


Caratteristiche

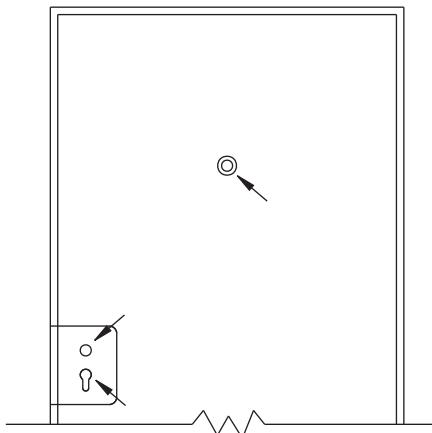
Per esecuzione di fori spia per serrature su macchine CNC.
 Elica positiva: espulsione del truciolo verso l'alto.

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 edgescutting bits Z1.

Mèches à percer et contourner Z1.

Wendeplatten nut Schiffräser Z1.

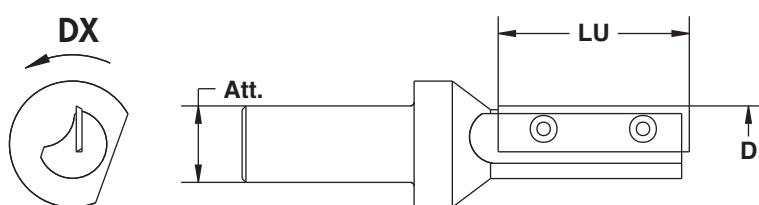
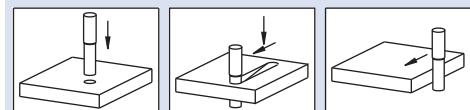
Brocas con cuchillas para taladrar y contornear Z1.

3030

D	LU	Att.	Z	rpm	ID nr. DX
16	30	Ø20x50	1	24000	3030005
16	50	Ø20x50	1	24000	3030006
18	30	Ø20x50	1	24000	3030007
18	50	Ø20x50	1	24000	3030001
20	30	Ø20x50	1	24000	3030008
20	50	Ø20x50	1	24000	3030002

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

Dimensioni	COLTELLI					VITI
	30x12x1,5	50x12x1,5	30x9x1,5	50x9x1,5	M3,5x6	
ID nr.	9514001	9514002	9514011	9514012	9546006	

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.

Wendeplatten nut-Schaffräser 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	3067001
20	30	Ø20x50	1+1+1	24000	3067002
18	50	Ø20x50	1+1+1	24000	3067003
20	50	Ø20x50	1+1+1	24000	3067004

Attacco CM2 aumento 20%
Shank CM2 increase 20%

MEC



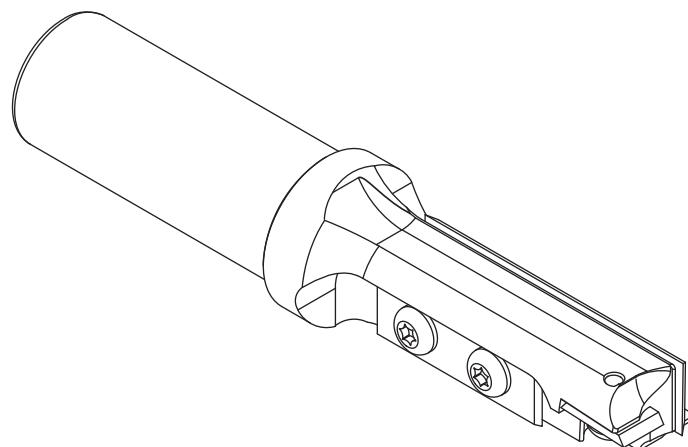
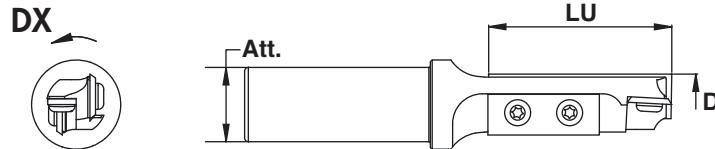
Caratteristiche

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.

Attacco CM2 aumento 20%
Shank CM2 increase 20%



RICAMBI

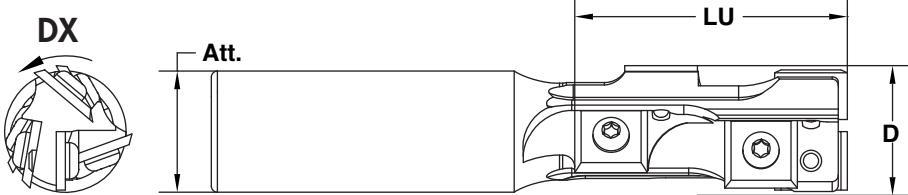
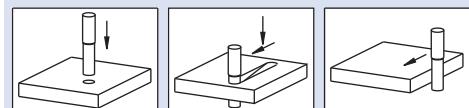
PER ART. 3067001	COLTELLI	COLTELLI	COLTELLI	VITI	VITI
Dimensioni	7,65x12x1,5	15x12x1,5	30x12x1,5	M3,5x5	M3,5x6
ID nr.	9503001	9503004	9514001	9546029	9546025
PER ART. 3067002	COLTELLI	COLTELLI	COLTELLI	VITI	VITI
Dimensioni	9,65x12x1,5	15x12x1,5	30x12x1,5	M3,5x5	M3,5x6
ID nr.	9503002	9503004	9514001	9546029	9546025
PER ART. 3067003	COLTELLI	COLTELLI	COLTELLI	VITI	VITI
Dimensioni	7,65x12x1,5	30x12x1,5	50x12x1,5	M3,5x5	M3,5x6
ID nr.	9503001	9503006	9514002	9546029	9546025
PER ART. 3067004	COLTELLI	COLTELLI	COLTELLI	VITI	VITI
Dimensioni	9,65x12x1,5	30x12x1,5	50x12x1,5	M3,5x5	M3,5x6
ID nr.	9503002	9503006	9514002	9546029	9546025

Teste portacolletti per forare e contornare Z1+1.
Drilling and edgecutting bits Z1+1.
 Mèches à percer et contourner Z1+1.
Wendeplatten nut-Schiftfräser Z1+1.
 Brocas con cuchillas para taladrar y contornear Z1+1

3074

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%



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 Particolamente 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.
 Praticularly 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

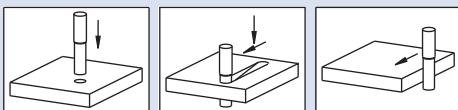
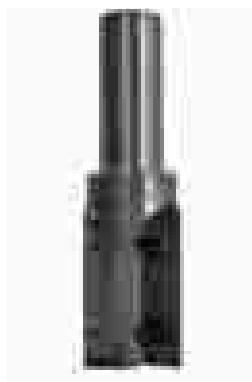
Teste portacolletti per forare e contornare Z2+1.

Drilling and edgecutting bits Z2+1.

Mèches à percer et contourner Z2+1.

Wendeplatten nut-Schiffräser Z2+1.

Brocas con cuchillas para taladrar y contornear Z2+1.



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
Particolamente 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.

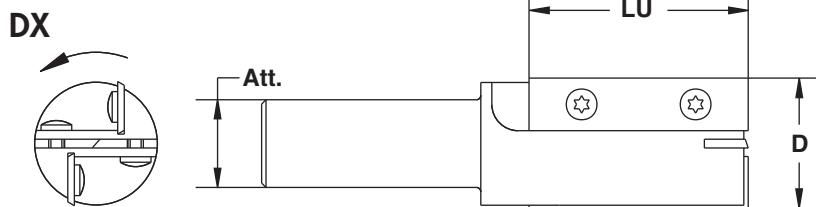
Characteristics

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.

D	LU	Att.	Z	rpm	ID nr. DX
30	30	Ø20x50	2+1	18000	3032003
30	50	Ø20x50	2+1	18000	3032001

Attacco CM2 aumento 20%
Shank CM2 increase 20%



RICAMBI

Dimensioni	COLTELLI		COLTELLI A FORARE		VITI
	30x12x1,5	50x12x1,5	15x12x1,5-DOPPIO SCARTO	3032051	M3,5x6
ID nr.	9514001	9514002			9546006

Teste portacoltelli per forare e contornare Z2+1 con tagli sfalsati.

Drilling and edgescutting bits Z2+1 with slanted cuts.

Mèches à percer et contourner Z2+1 avec coupes inclinés.

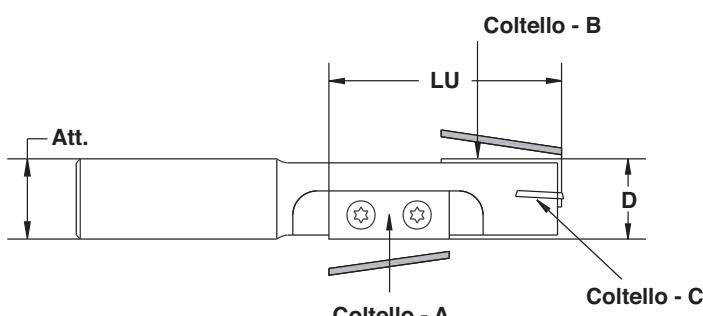
Wendeplatten nut-Schaffräser Z2+1 mit schiefe schnitt.

Brocas con cuchillas alternadas para taladrar y contornear Z2+1.

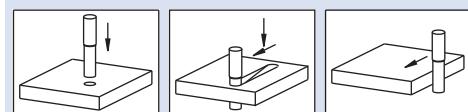
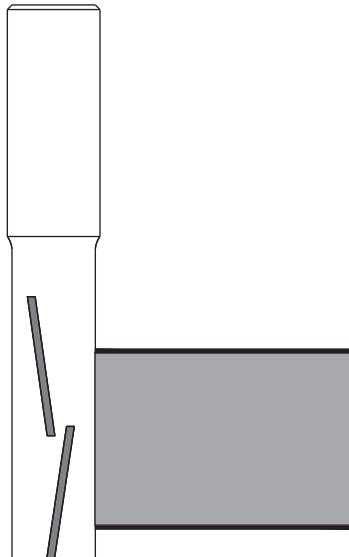
3033

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.
Particolamente 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.
Particularly 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

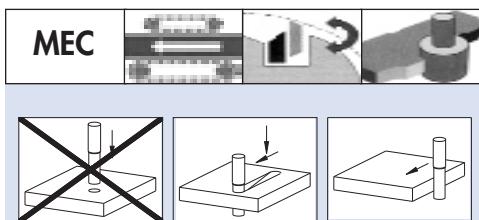
3066

Punte per contornare ambidestre Z2+2 con attacco cilindrico.
Drills for surround ambidextrous Z2+2 with cylindrical shank.
 Mèches 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	3066001
30	50	50	185	65	Ø25x55	2+2	3066002

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
 Indonea per eseguire squadrature.

Molto utilizzata su pantografi a CNC in quanto
 consente di risparmiare tempo sui cambi
 utensile.

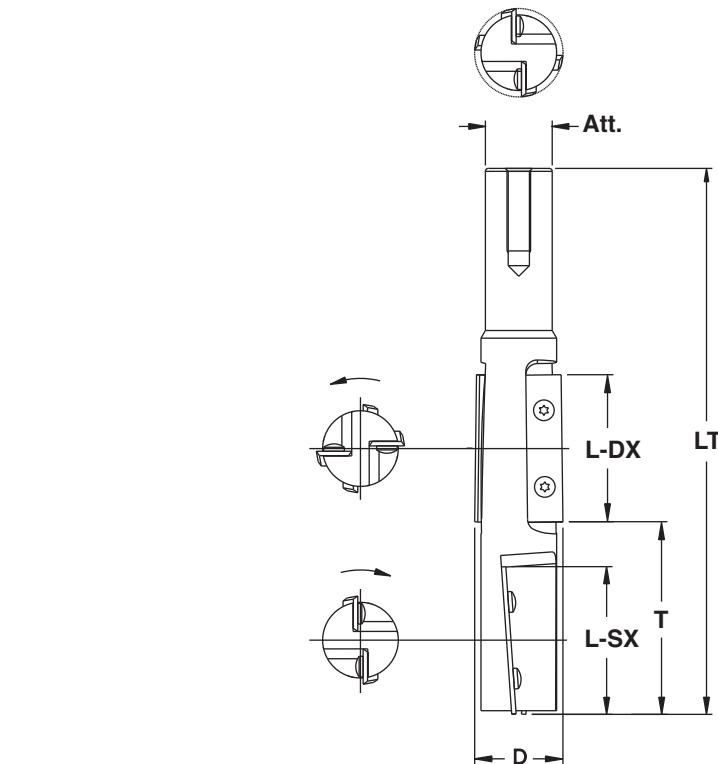
Particolamente adatta a lavorare a medie
 velocità di taglio con ottima finitura della
 superficie lavorata del pannello.

Characteristics

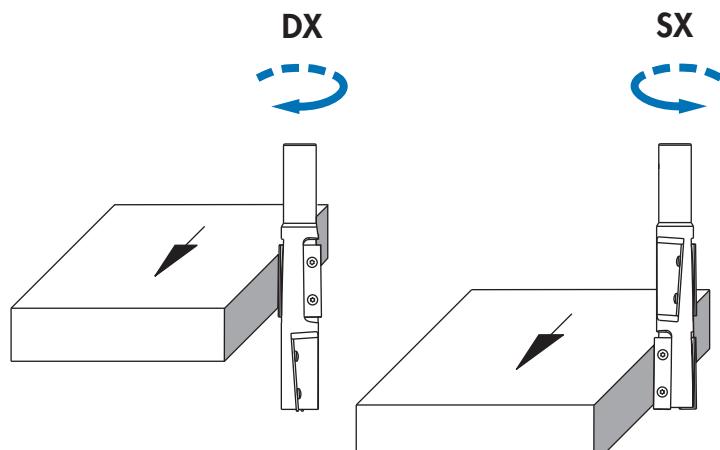
Execution by HM knives with thickness 1,5mm.
 Indicated for make squares.

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

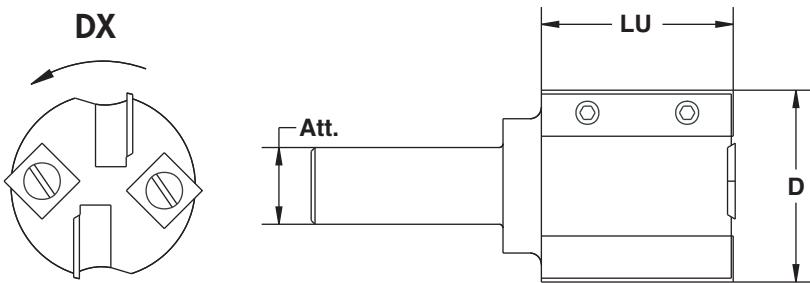
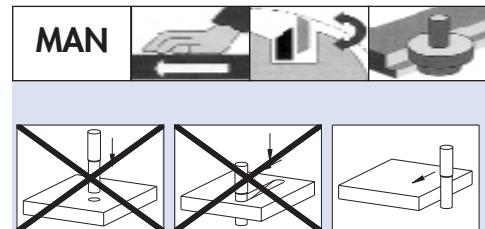
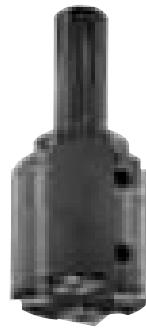
COLTELLI		VITI
Dimensioni BxHxS	30x12x1,5	M3,5x6
ID nr.	9503006	9546006

Teste portacoltelli per eseguire battute e contornare Z2+V2.
 Cutterheads to execute rebats and countours Z2+V2.
 Têtes porte-couteaux pour faire countours et feuillures Z2+V2.
 Profilmesserköpf Z2+V2.
 Brocas con cuchillas para galcear y contornear Z2+V2.

3035

D	LU	Att.	Z	V	rpm	ID nr. DX
50	50	Ø20x50	2	2	18000	3035 001

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Caratteristiche
 Esecuzione con coltelli in HM spessore 1,5mm.
 Punta per contornare a taglienti diritti.
 Particolaramente idonea per lavorazione di
 pannelli in legno tenero, duro, truciolare non
 rivestiti o altro.

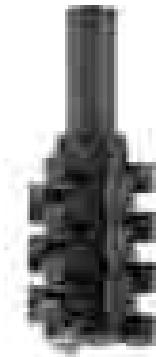
Characteristics
 Execution by HM knives with thickness 1,5mm.
 Particulary indicated on soft, hard wood, panels
 and chipboard and more.

RICAMBI

	COLTELLI	LARDONI	VITI	RASANTI	VITI
Dimensioni	50x12x1,5	48x12x7,5	M6x16	14x14x2	M5x8
ID nr.	9503 008	9545 008	9546 018	9508 002	9546 005

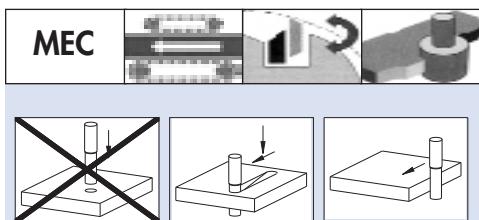
3036

Teste portacoltelli multitaglienti per battute e contornature.
Cutterheads multicuts to execute rebats and contours.
 Têtes porte-couteaux multidents pour faire contours et feuillures.
Profilmesserköpf multischneiden.
 Brocas con cuchillas para galcear 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.

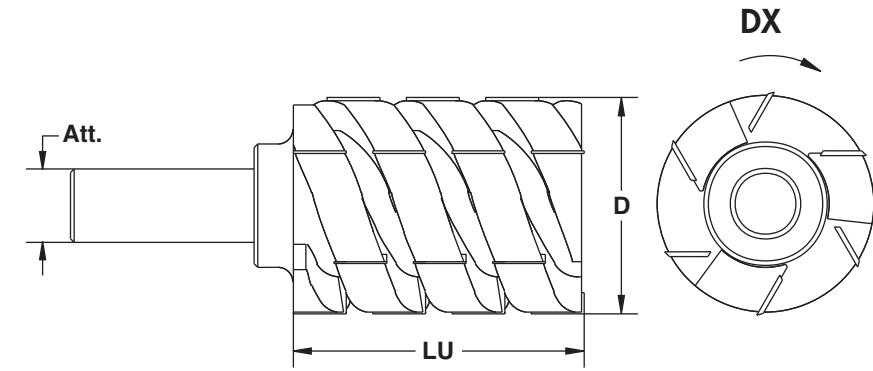
Detta esecuzione garantisce una notevole diminuzione della rumorosità e dell'assorbimento di energia, permette di aumentare notevolmente la velocità di avanzamento.

Particolamente indicata per eseguire lavorazioni di spianature e battenti in fase di sgrossature su legni teneri, duri, trucioli, compensati o altro.

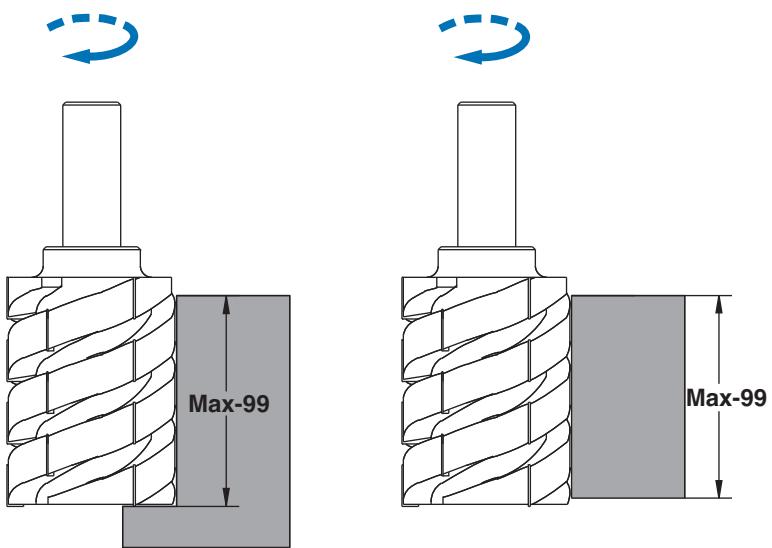
Characteristics

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.

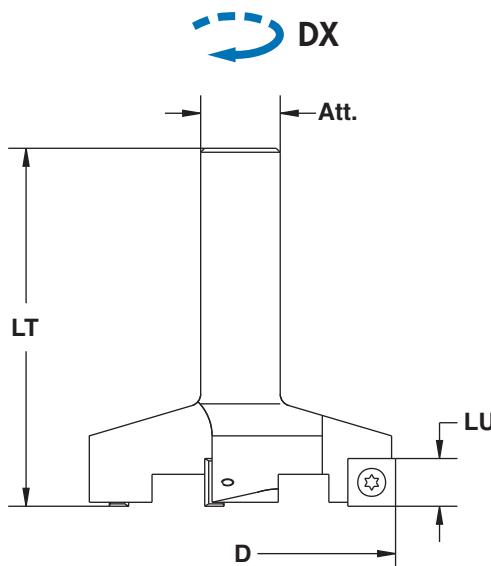
Tête porte-couteaux pour raboter Z3.

Messerköpf Z3.

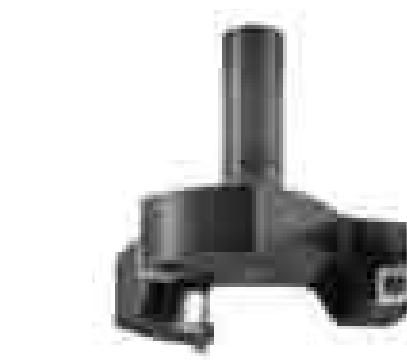
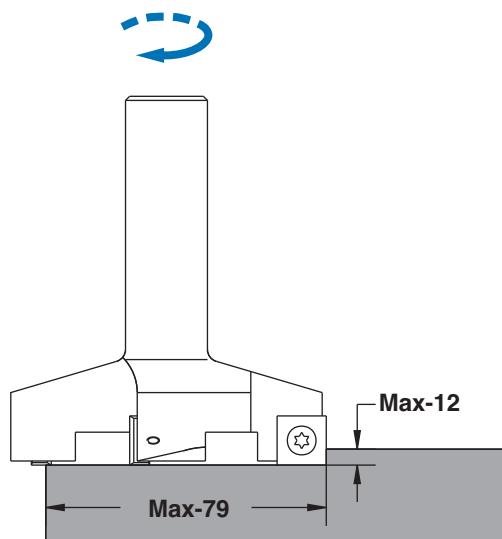
Brocas con cuchillas para alisar Z3.

3037

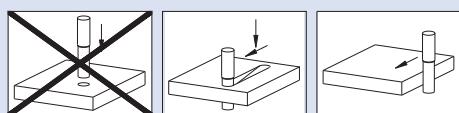
D	LT	LU	Att.	Z	rpm	ID nr. DX
80	90	12	Ø20x50	3	12000	3037001
120	90	12	Ø25x55	5	10500	3037002



ESEMPIO DI LAVORAZIONE



MEC



Caratteristiche

Impiego per la spianatura di superfici ampie e l'esecuzione di grandi battute in una passata.

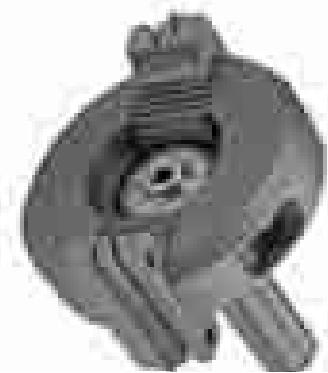
Characteristics

Suitable for flattening large areas and making rebates in just one passage.

RICAMBI

	COLTELLI	VITI
Dimensioni BxHxS	12x12x1,5	M3,5x6
ID nr.	9503003	9546006

3038



Testa portacoltelli per smussi orientabile da -45° a +90°.

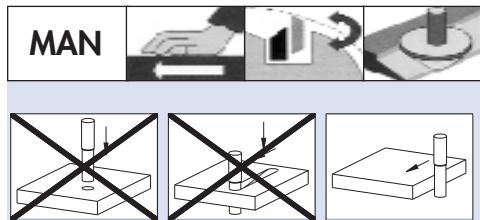
Beveling cutterhead adjustable between -45° and +90°.

Fraise pour chanfrein réglable de -45° à +90°.

Messerkopf verstellbereich von -45° zu +90°.

Brocas con cuchillas para cortes inclinados con una orientación de -45° a +90°.

D	B	LT	Att.	rpm	Z	ID nr. DX
100	50	115	Ø20x50	10000	2	3038001

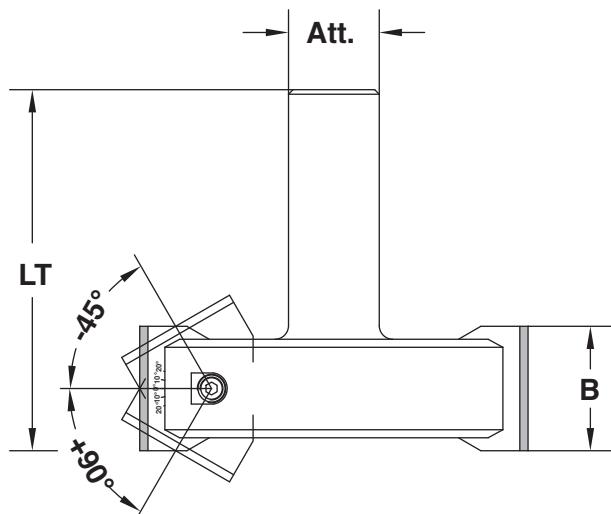
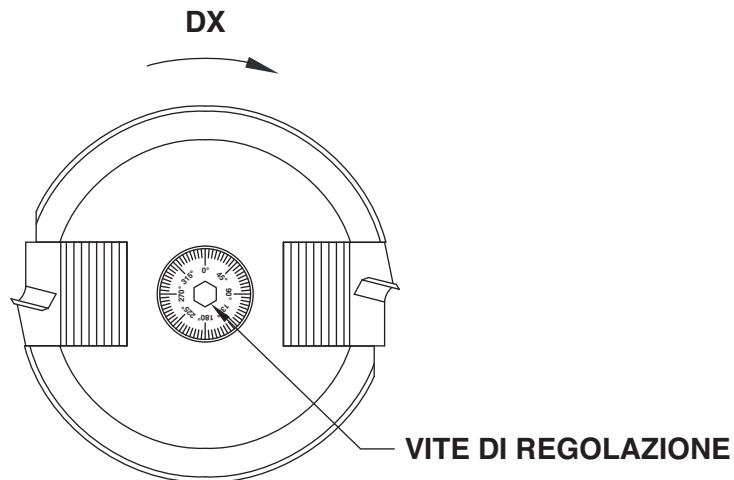


Caratteristiche

Testa portacoltelli per smussi con regolazione manuale dell'angolo di inclinazione (1 tacca=1°).

Characteristics

Beveling cutterhead with manually regulation (1 tick=1°).



RICAMBI

	COLTELLI	LARDONI	VITI
Dimensioni BxHxS	50x12x1,5	45x10x5	M6x6
ID nr.	9514053	9545081	9546024

Teste portacolletti ricoperti per forare e contornare Z1 in HM.

Drilling and edging bits Z1 in HM.

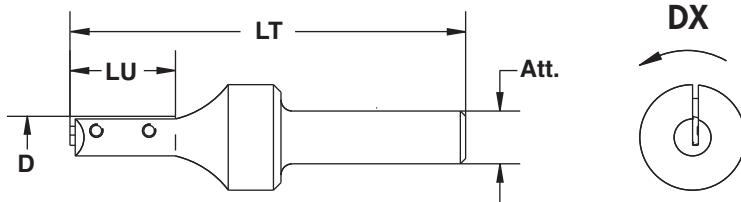
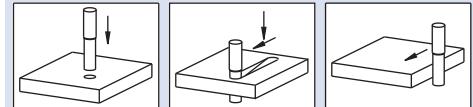
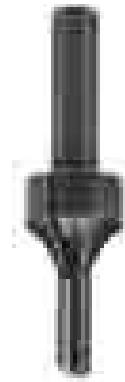
Mèches à percer et à contourner Z1 en HM.

Vielzahn Schrupfräser Z1 zu HM.

Brocas en HM con cuchillas tapadas para taladrar y contornear Z1.

3039

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



Caratteristiche

Esecuzione con coltelli in HM spessore 1,5mm.
Particolamente idonea per esecuzione di asole di piccola dimensione su legni teneri, duri, incollati, trucioliari e MDF.

Characteristics

Execution by HM knives with thickness 1,5mm.
Particularly 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

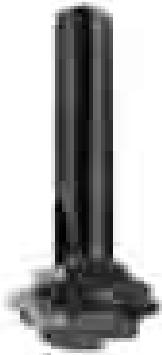
Teste per pantografo per arrotondare spigoli vivi su entrambi i lati del pannello.

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 fresaadora 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	3041001
40	27	100	Ø20x50	2	2	18000	3041002
40	27	100	Ø20x50	3	2	18000	3041003
40	27	100	Ø20x50	4	2	18000	3041004
40	27	100	Ø20x50	5	2	18000	3041005

MEC

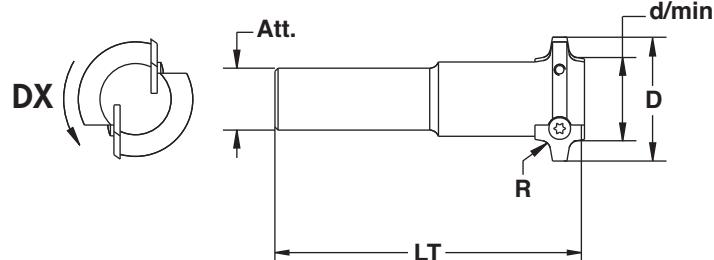


Caratteristiche

Fresa a gambo con coltellini intercambiabili per frescare 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, particulary suitable for making profiles with small inside radius.



RICAMBI

IMPIEGO	COLTELLI	VITI
Dimensioni BxHxS	R1,5-R2-R3-R4-R5 16x17,5x2	PER COLTELLI M3,5x6
ID nr.	9536002	9546006

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 alluminium Z2.

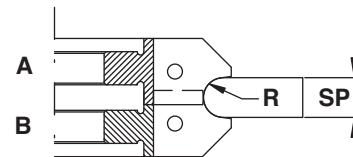
Fräsergruppe für abrundungen und abkantungen zu Aluminium Z2.

Juego de cabezales en aleación ligera para fresa para redondear y cantear Z2.

3040

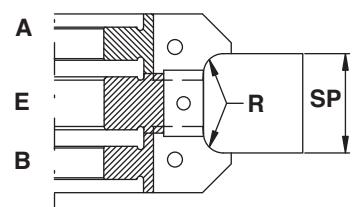
COMPOSIZIONE A-B

Raggio+Smusso	Sp. Pannello per 1/2 tondo	ID nr.
2-45°	4	3040001-01
3-45°	6	3040001-02
4-45°	8	3040001-03
5-45°	10	3040001-04
6-45°	12	3040001-05



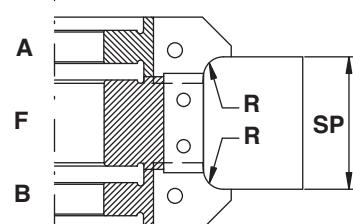
COMPOSIZIONE A-E-B

Raggio+Smusso	Sp. Pannelli lavorabili	ID nr.
2-45°	12÷22	3040001-06
3-45°	14÷24	3040001-07
4-45°	16÷26	3040001-08
5-45°	18÷28	3040001-09
6-45°	20÷30	3040001-10



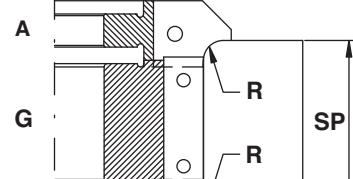
COMPOSIZIONE A-F-B

Raggio+Smusso	Sp. Pannelli lavorabili	ID nr.
2-45°	22÷32	3040001-11
3-45°	24÷34	3040001-12
4-45°	26÷36	3040001-13
5-45°	28÷38	3040001-14
6-45°	30÷40	3040001-15



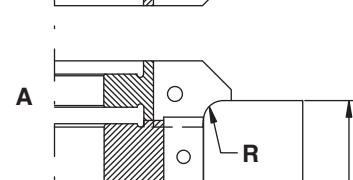
COMPOSIZIONE A-G-B

Raggio+Smusso	Sp. Pannelli lavorabili	ID nr.
2-45°	32÷42	3040001-16
3-45°	34÷44	3040001-17
4-45°	36÷46	3040001-18
5-45°	38÷48	3040001-19
6-45°	40÷50	3040001-20



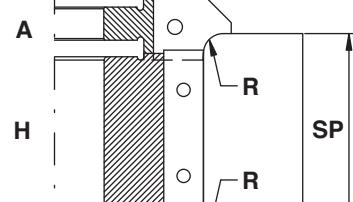
COMPOSIZIONE E A-H-B

Raggio+Smusso	Sp. Pannelli lavorabili	ID nr.
2-45°	42÷52	3040001-21
3-45°	44÷54	3040001-22
4-45°	46÷56	3040001-23
5-45°	48÷58	3040001-24
6-45°	50÷60	3040001-25



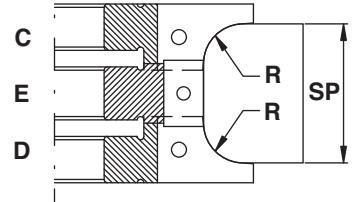
COMPOSIZIONE C-D

Raggio	Sp. Pannello per 1/2 tondo	ID nr.
6	12	3040002-01
7	14	3040002-02
8	16	3040002-03
9	18	3040002-04
10	20	3040002-05
11	22	3040002-06
12	24	3040002-07



COMPOSIZIONE C-E-D

Raggio	Sp. Pannelli lavorabili	ID nr.
6	20÷30	3040002-08
7	22÷32	3040002-09
8	24÷34	3040002-10
9	26÷36	3040002-11
10	28÷38	3040002-12
11	30÷40	3040002-13
12	32÷42	3040002-14



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

Gruppi per arrotondare e smussare in lega leggera per pantografo Z2.

Set of rounding-off and chamfering cutters in alluminium Z2.

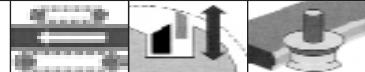
Groupe de fraises pour arrondir et biseauter en aluminium Z2.

Fräsergruppe für abrundungen und abkantungen zu Aluminium Z2.

Juego de cabezales en aleación ligera para fresadora para redondear y cantear Z2.



MEC



Caratteristiche

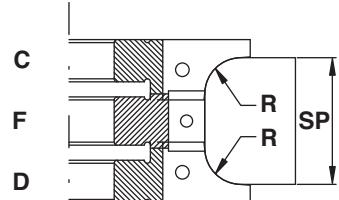
La particolarità di questo gruppo consiste nel poter intercambiare fra loro le varie teste, ottenendo così diverse spigolature e diversi spessori del legno. Inoltre invertendo la posizione delle frese sul mandrino, questo gruppo può ruotare sia DX che SX. Il gruppo viene fornito senza attacco. Al momento 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.

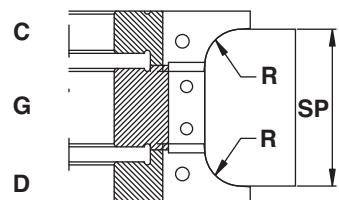
COMPOSIZIONE C-F-D

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



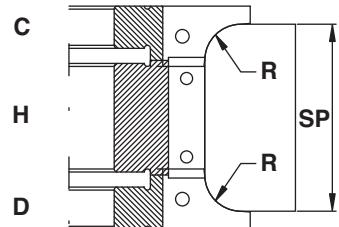
COMPOSIZIONE C-G-D

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

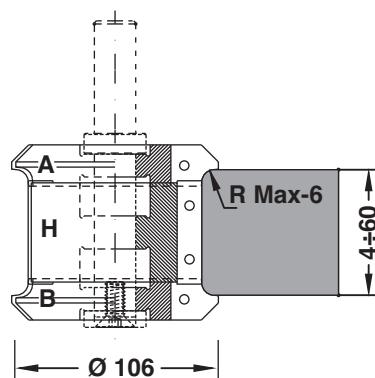


COMPOSIZIONE C-H-D

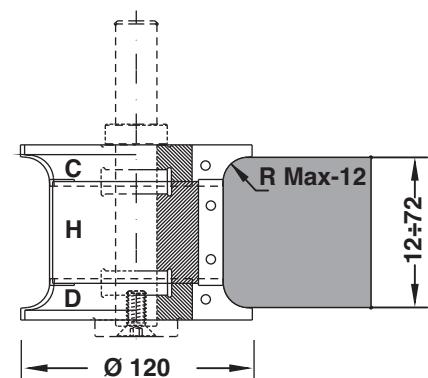
Raggio	Sp. Pannelli lavorabili	ID nr.
6	50÷60	3040 002-29
7	52÷62	3040 002-30
8	54÷64	3040 002-31
9	56÷66	3040 002-32
10	58÷68	3040 002-33
11	60÷70	3040 002-34
12	62÷72	3040 002-35

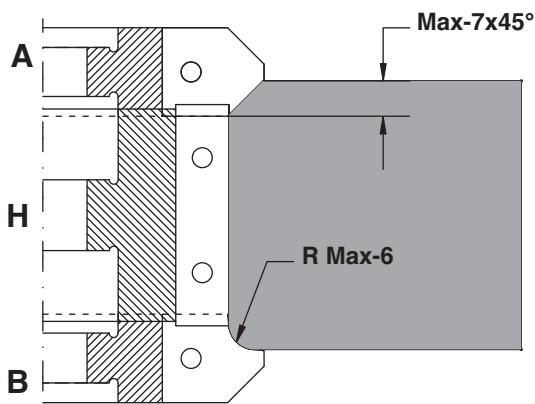
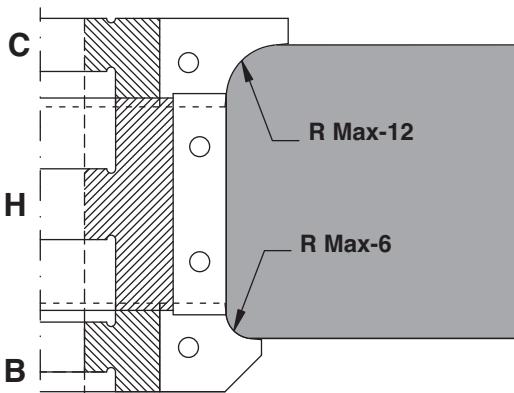
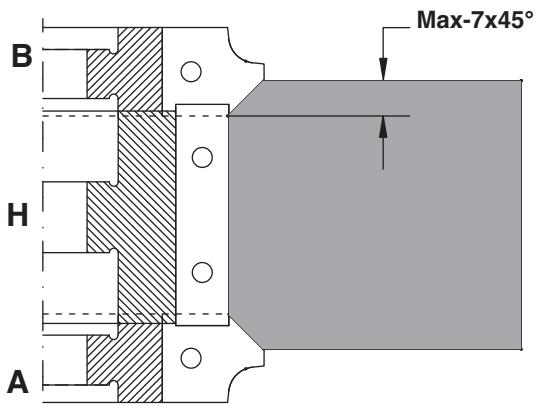
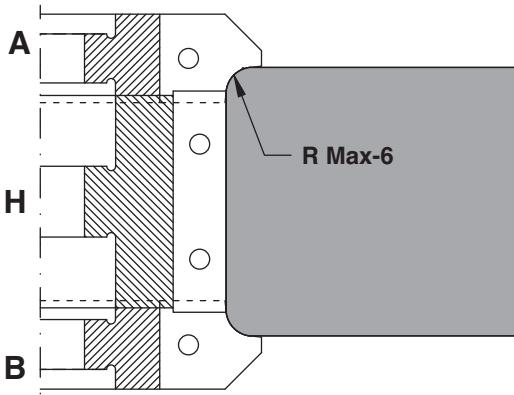


DX



DX





RICAMBI

COLTELLI SAGOMATI				
Raggio	2-45°	3-45°	4-45°	5-45°
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2	20x25x2
ID nr. DX	9538001-01	9538001-02	9538001-03	9538001-04
ID nr. SX	9538002-01	9538002-02	9538002-03	9538002-04
Raggio	6-45°	6	7	8
Dimensioni BxHxS	20x25x2	20x30x2	20x30x2	20x30x2
ID nr. DX	9538001-05	9538003-01	9538003-02	9538003-03
ID nr. SX	9538002-05	9538004-01	9538004-02	9538004-03
Raggio	9	10	11	12
Dimensioni BxHxS	20x30x2	20x30x2	20x30x2	20x30x2
ID nr. DX	9538003-04	9538003-05	9538003-06	9538003-07
ID nr. SX	9538004-04	9538004-05	9538004-06	9538004-07

COLTELLI STANDARD				
Dimensioni BxHxS	20x12x1,5	30x12x1,5	40x12x1,5	50x12x1,5
ID nr.	9503005	9503006	9503007	9503008

LARDONI PER COLTELLI STANDARD				
Dimensioni	18x12x7,5	28x12x7,5	38x12x7,5	48x12x7,5
ID nr.	9545005	9545006	9545007	9545008

LARDONI PER COLTELLI STANDARD		VITI PER LARDONI
Dimensioni	18x12x7,5	M6x12
ID nr.	9545005	9546016

3042

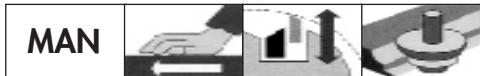
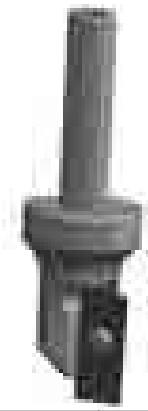
Teste portacoltelli multiprofilo per sagomatura interna di pannelli Z1.

Multiprofils cutterheads to execute internal shaped of panels Z1.

Têtes multiprofils pour profiler l'intérieur des panneaux Z1.

Multi-profilmesserköpf Z1.

Brocas con cuchillas multiperfiles para molduras internas de los paneles Z1.



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

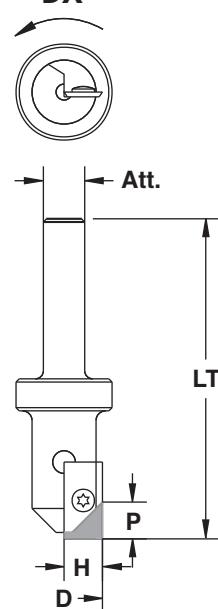
With Z1 shear angle cutting edge and HM profiled knives with thickness 1,5mm.

Particularly indicated for internal decorations on all type of wood, MDF and chipboard.

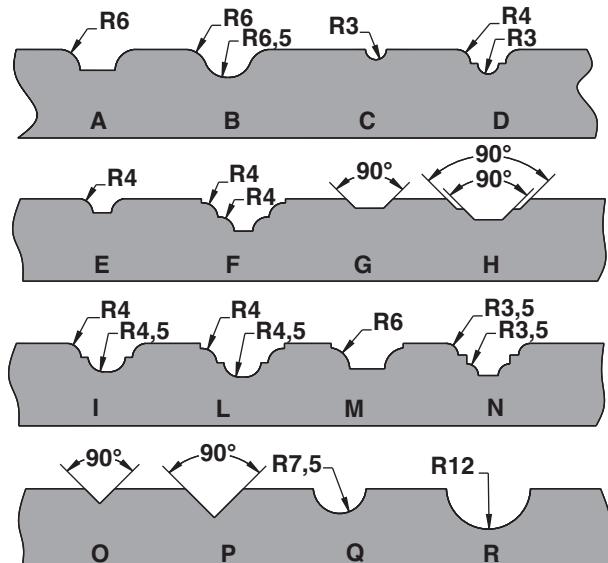
D	H	P	LT	Att.	Z	rpm	ID nr. DX
24	12	8	100	Ø12x50	1	24000	3042 001

= AREA SAGOMABILE / AREA THAT CAN BE SHAPED

DX



ESEMPI DI PROFILI ESEGUITI



RICAMBI

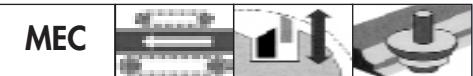
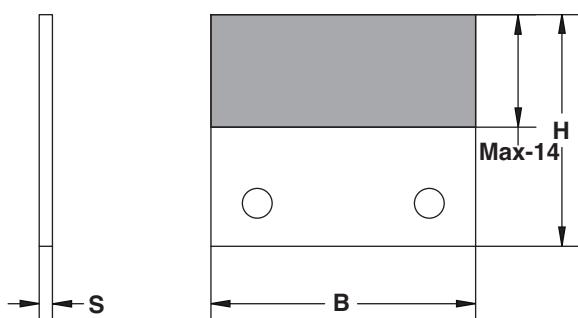
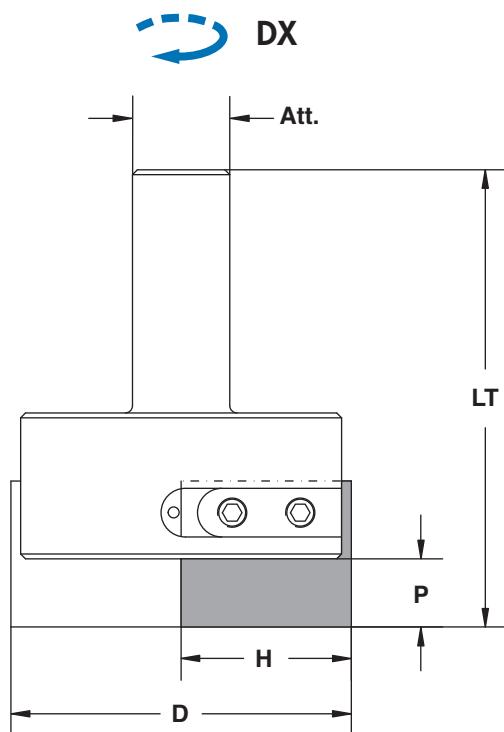
	COLTELLI	VITI
Dimensioni BxHxS	SAGOMATI 27,5x12x1,5	DA SAGOMARE 27,5x12x1,5
ID nr. DX	3042 051	9546 006

Teste multiprofilo per sagomatura interna di pannelli Z2.
Multiprofile cutterheads for making internal profile of panels Z2.
 Têtes multiprofil pour profiler l'intérieur des panneaux Z2.
Multi-profilemesserköpf multisichsen 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.

Particolamente idonea per lavorazioni interne
 decorative su tutti i tipi di legno, MDF e
 truciolare.

Characteristics

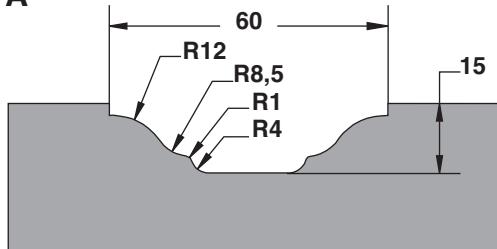
The tool is supplied without knives and without
 back-knives.

This cutterhead is with 2 HM knives of
 thickness=2mm for execution of shaped profiles
 inside the area H-P.

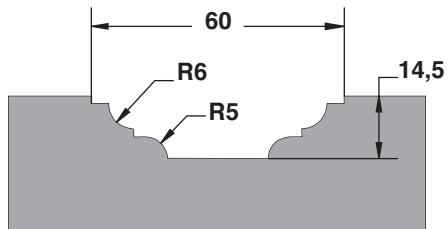
Particularly indicated for internal decorations on
 all type of wood, MDF and chipboard.

ESEMPI DI PROFILI ESEGUITIBILI

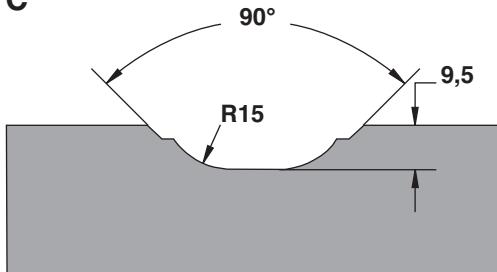
A



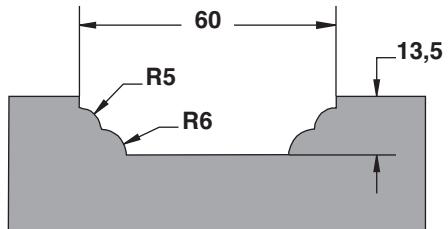
B



C



D



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 multiprofilo.

Multiprofile router cutterheads.

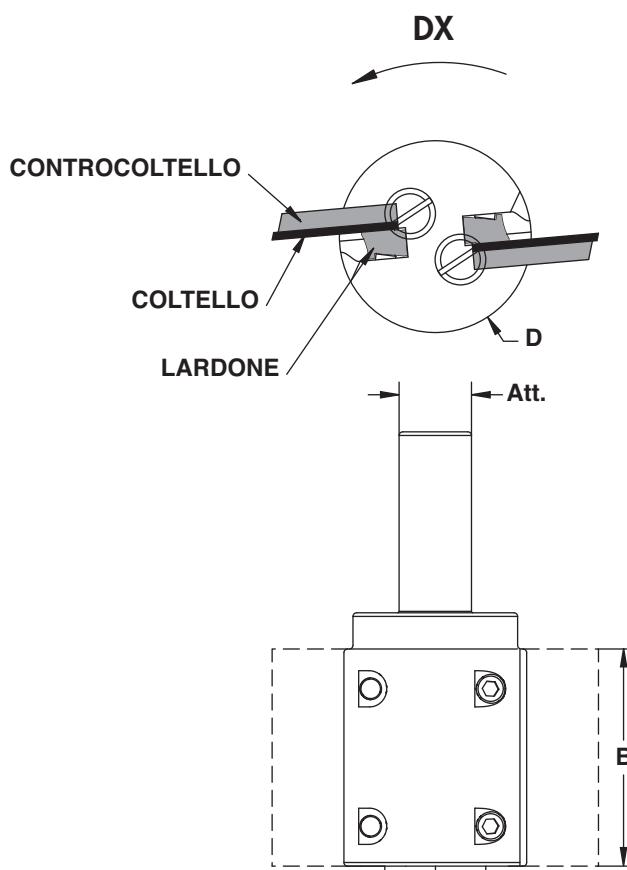
Têtes multiprofil pour défonceuse porte-couteaux.

Multi-profilerkopf für Pantograph.

Brocas con cuchillas para perfiles múltiples.

3044

D	B	Att.	Z	rpm	ID nr. DX
53	40	Ø20x50	2	12000	3044001
53	60	Ø20x50	2	9000	3044003



MEC



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.

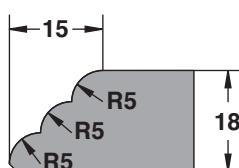
The tool can be used for make different profiles just changing knives and back-knives.

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

Profilo da eseguire:

Profil to realise:

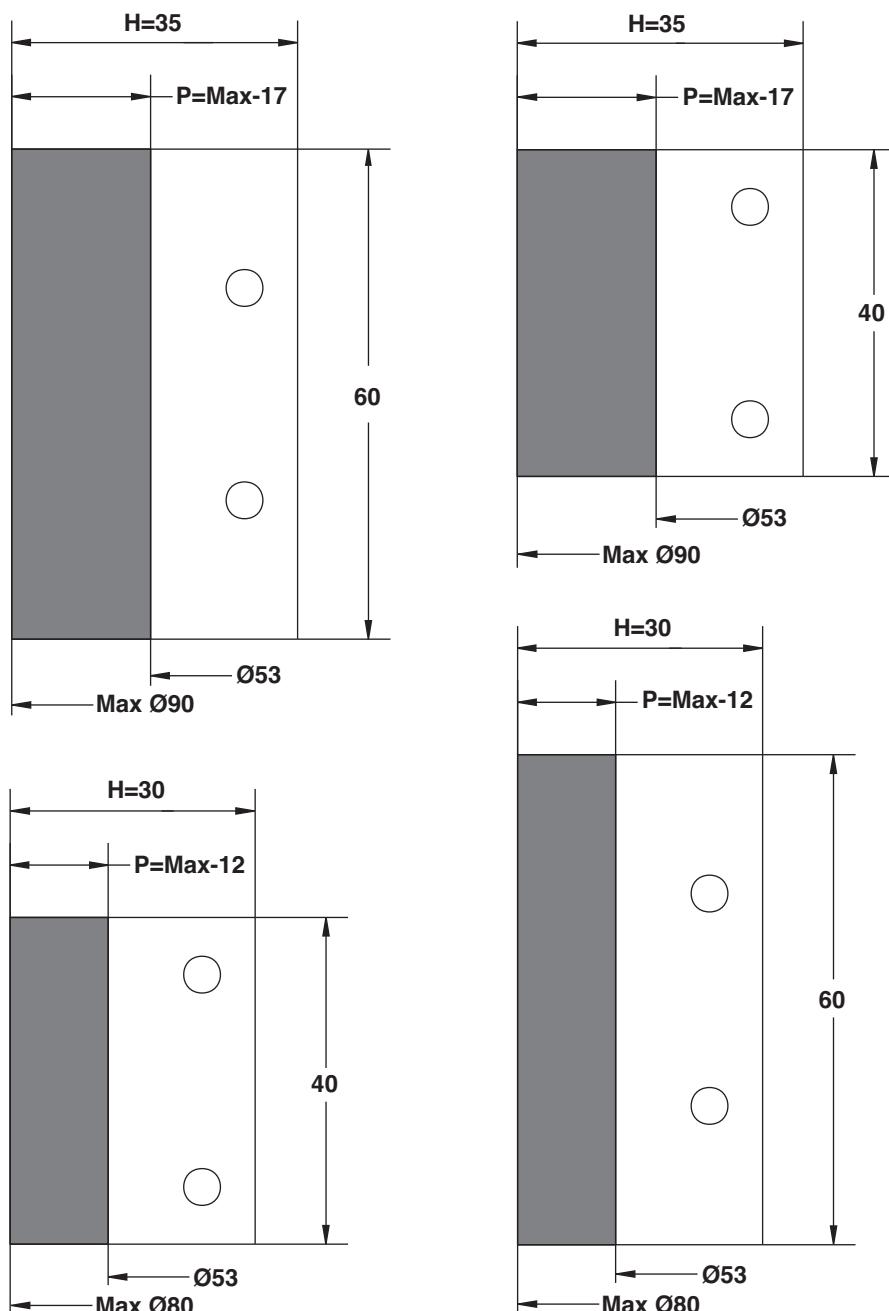
P=15 B=18



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.	9519120	9519121	9519128	9519129

COLTELLI SAGOMATI

Dimensioni BxHxS	40x30x2	40x35x2	60x30x2	60x35x2
ID nr.	9519020	9519021	9519028	9519029

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519204	9519205	9519207	9519208

CONTROCOLTELLI SAGOMATI

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519304	9519305	9519307	9519308

VITIT

Dimensioni BxHxS	M6x16
ID nr.	9546018

Teste portacoltelli multiprofilo.

Multiprofile router cutterheads.

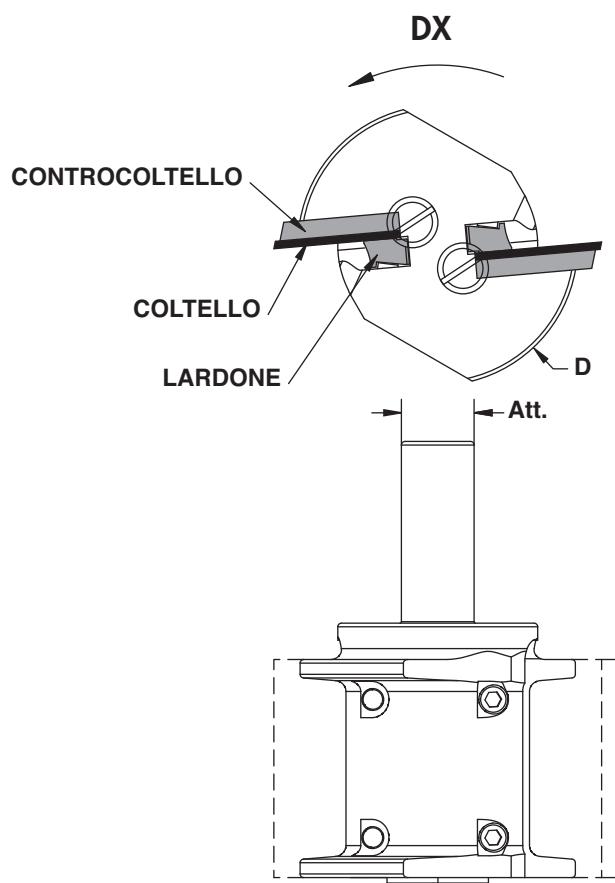
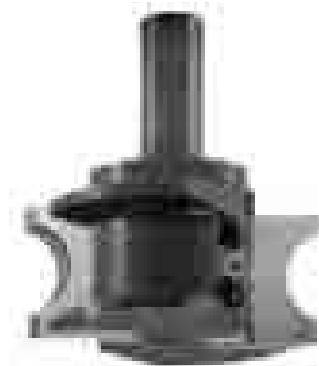
Têtes multiprofil pour défonceuse porte-couteaux.

Multi-profile routerkopf für Pantograph.

Brocas con cuchillas para perfiles múltiples.

3045

D	B	Att.	Z	rpm	ID nr. DX
77	40	Ø20x50	2	12000	3045001
77	60	Ø20x50	2	9000	3045003

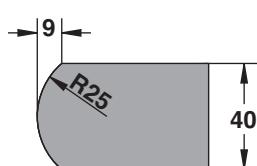


Come determinare il prezzo - ESEMPIO: How to make the price - EXAMPLE:

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



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.

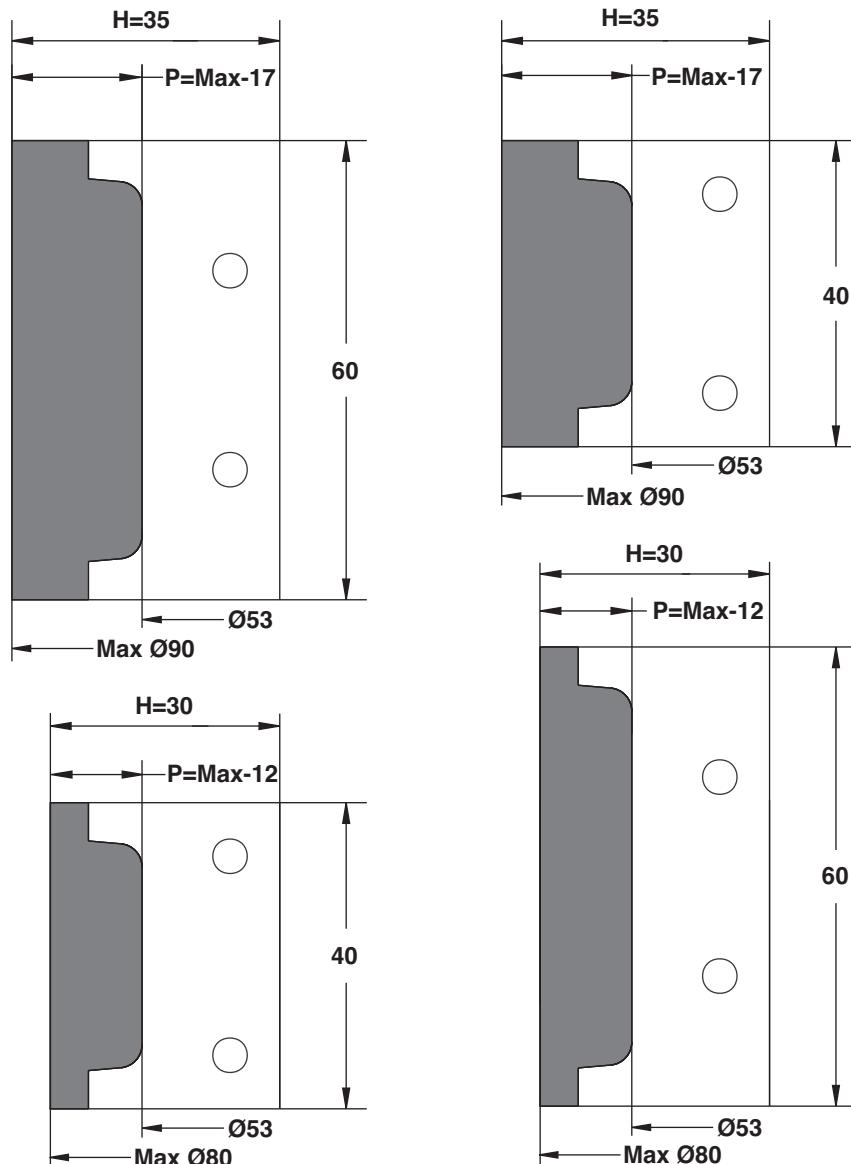
Characteristics

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.

= AREA SAGOMABILE / AREA THAT CAN BE SHAPED



RICAMBI

COLTELLI DA SAGOMARE

Dimensioni BxHxS	40x30x2	40x35x2	60x30x2	60x35x2
ID nr.	9519120	9519121	9519128	9519129

COLTELLI SAGOMATI

Dimensioni BxHxS	40x30x2	40x35x2	60x30x2	60x35x2
ID nr.	9519020	9519021	9519028	9519029

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519204	9519205	9519207	9519208

CONTROCOLTELLI SAGOMATI

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519304	9519305	9519307	9519308

VITIT

Dimensioni BxHxS	M6x16
ID nr.	9546018

Teste portacoltelli multiprofilo.

Multiprofile router cutterheads.

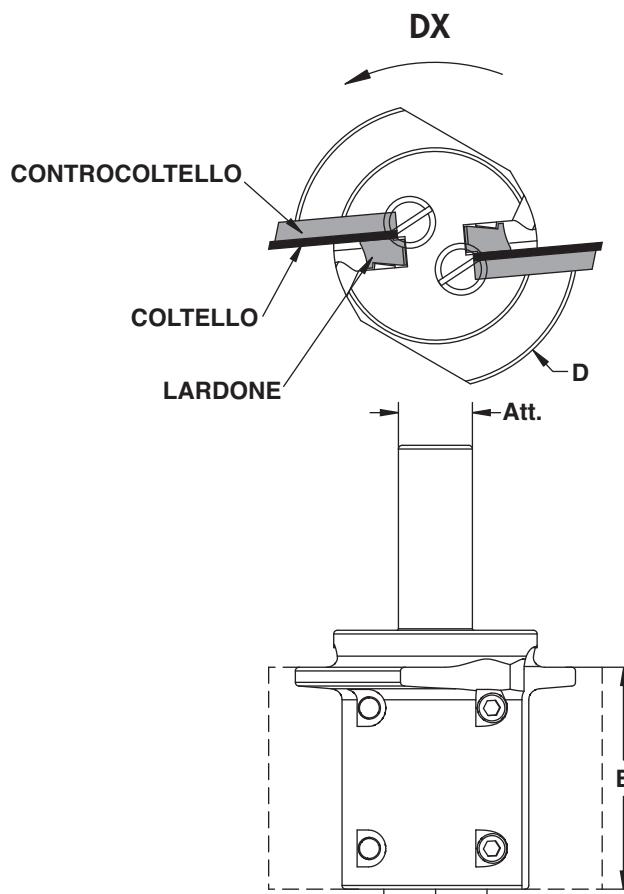
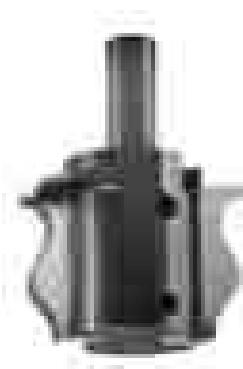
Têtes multiprofil pour défonçuse porte-couteaux.

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.

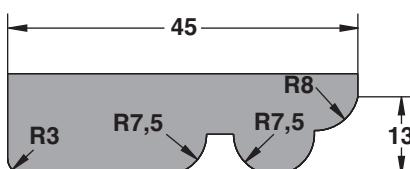
The tool can be used to make different profiles just changing knives and back-knives.

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

Profilo da eseguire:

Profil to realise:

P=13 B=45

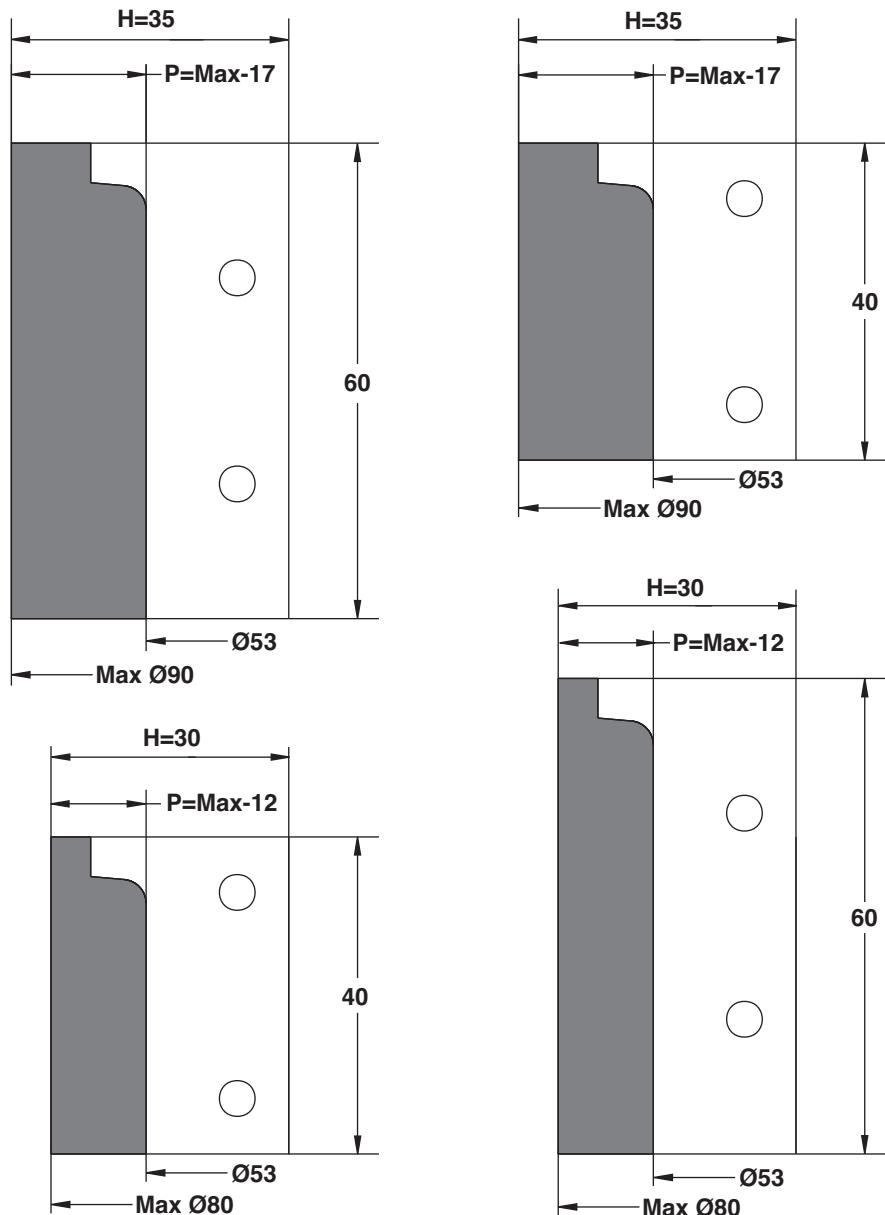


N°1 Testa portacoltelli + N°2 Coltelli sagomati + N°2 Controcoltelli sagomati

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.	9519120	9519121	9519128	9519129

COLTELLI SAGOMATI

Dimensioni BxHxS	40x30x2	40x35x2	60x30x2	60x35x2
ID nr.	9519020	9519021	9519028	9519029

CONTROCOLTELLI DA SAGOMARE

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519204	9519205	9519207	9519208

CONTROCOLTELLI SAGOMATI

Dimensioni BxHxS	40x28x5	40x33x5	60x28x5	60x33x5
ID nr.	9519304	9519305	9519307	9519308

VITI

Dimensioni	M6x16
ID nr.	9546018

Frese portacoltelli sagomate a piacere (profilo semplice).

Cutterheads (simple profile).

Fraises (profile simple).

Profilfräsen (einfach-profil).

Fresas con cuchillas perfiladas a gusto (perfil simple).

3047

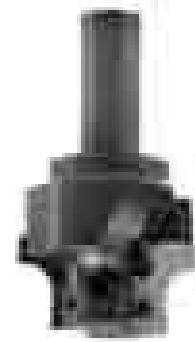
D	B	Att.	Z	rpm	ID nr. DX
30	20	Ø20x50	2	20000	3047 001
30	30	Ø20x50	2	20000	3047 002
30	40	Ø20x50	2	20000	3047 003
30	50	Ø20x50	2	20000	3047 004
30	60	Ø20x50	2	20000	3047 005
40	20	Ø20x50	2	18000	3047 006
40	30	Ø20x50	2	18000	3047 007
40	40	Ø20x50	2	18000	3047 008
40	50	Ø20x50	2	18000	3047 009
40	60	Ø20x50	2	18000	3047 010
50	20	Ø20x50	2	18000	3047 011
50	30	Ø20x50	2	18000	3047 012
50	40	Ø20x50	2	18000	3047 013
50	50	Ø20x50	2	18000	3047 014
50	60	Ø20x50	2	18000	3047 015
60	20	Ø20x50	2	18000	3047 016
60	30	Ø20x50	2	18000	3047 017
60	40	Ø20x50	2	18000	3047 018
60	50	Ø20x50	2	18000	3047 019
60	60	Ø20x50	2	18000	3047 020
70	20	Ø20x50	2	18000	3047 021
70	30	Ø20x50	2	18000	3047 022
70	40	Ø20x50	2	18000	3047 023
70	50	Ø20x50	2	18000	3047 024
70	60	Ø20x50	2	18000	3047 025
80	20	Ø20x50	2	16000	3047 026
80	30	Ø20x50	2	16000	3047 027
80	40	Ø20x50	2	16000	3047 028
80	50	Ø20x50	2	16000	3047 029
80	60	Ø20x50	2	16000	3047 030
100	20	Ø20x50	2	14000	3047 031
100	30	Ø20x50	2	14000	3047 032
100	40	Ø20x50	2	14000	3047 033
100	50	Ø20x50	2	14000	3047 034
100	60	Ø20x50	2	14000	3047 035

Attacco CM2 aumento 20%

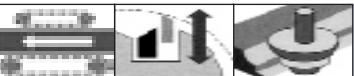
Shank CM2 increase 20%

Per profondità di sagoma superiore a 8mm vedi ART. 3048.

For shape deep bigger than 8mm see ART. 3048.



MEC



Caratteristiche

Esecuzione Z2 con o senza angolo assiale a seconda del profilo da realizzare, coltello in HM spessore 2mm.

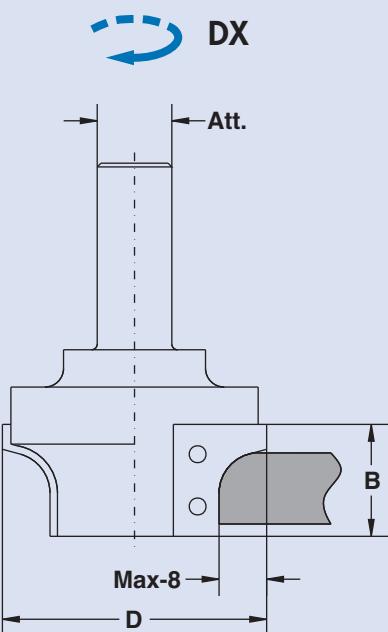
Idonea per lavorazioni su tutti i tipi di legni naturali, trucioliari, laminati, MDF o altro. Nell'ordine specificare il tipo dell'attacco.

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.



RICAMBI

COLTELLI SAGOMATI

ID nr.	9519
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3048

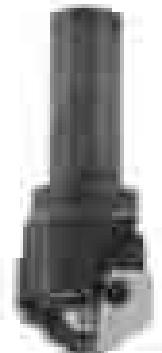
Frese portacoltelli sagomate a piacere (profilo complesso).

Cutterheads (complex profile).

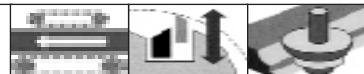
Fraises (profile complexe).

Profilfräsen (komplex profil).

Fresas con cuchillas perfiladas a gusto (perfil complejo).



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

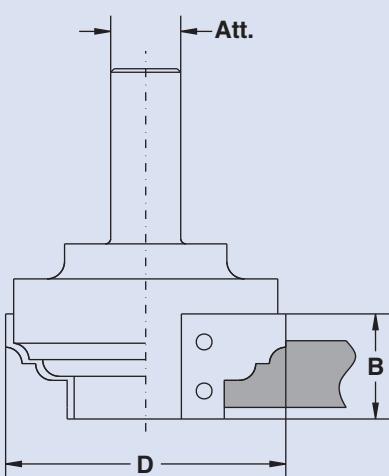
Execution Z2 with or without shear angle according to profile, HM profiled knives with thickness 2mm.

Suitable on all natural woods, chipboard, laminated panels, MDF and more.

When ordering always indicate shank type.

DX

Att.



D	B	Att.	Z	rpm	ID nr. DX
30	20	Ø20x50	2	20000	3048001
30	30	Ø20x50	2	20000	3048002
30	40	Ø20x50	2	20000	3048003
30	50	Ø20x50	2	20000	3048004
30	60	Ø20x50	2	20000	3048005
40	20	Ø20x50	2	18000	3048006
40	30	Ø20x50	2	18000	3048007
40	40	Ø20x50	2	18000	3048008
40	50	Ø20x50	2	18000	3048009
40	60	Ø20x50	2	18000	3048010
50	20	Ø20x50	2	18000	3048011
50	30	Ø20x50	2	18000	3048012
50	40	Ø20x50	2	18000	3048013
50	50	Ø20x50	2	18000	3048014
50	60	Ø20x50	2	18000	3048015
60	20	Ø20x50	2	18000	3048016
60	30	Ø20x50	2	18000	3048017
60	40	Ø20x50	2	18000	3048018
60	50	Ø20x50	2	18000	3048019
60	60	Ø20x50	2	18000	3048020
70	20	Ø20x50	2	18000	3048021
70	30	Ø20x50	2	18000	3048022
70	40	Ø20x50	2	18000	3048023
70	50	Ø20x50	2	18000	3048024
70	60	Ø20x50	2	18000	3048025
80	20	Ø20x50	2	16000	3048026
80	30	Ø20x50	2	16000	3048027
80	40	Ø20x50	2	16000	3048028
80	50	Ø20x50	2	16000	3048029
80	60	Ø20x50	2	16000	3048030
100	20	Ø20x50	2	16000	3048031
100	30	Ø20x50	2	16000	3048032
100	40	Ø20x50	2	16000	3048033
100	50	Ø20x50	2	16000	3048034
100	60	Ø20x50	2	16000	3048035

Attacco CM2 aumento 20%

Shank CM2 increase 20%

RICAMBI

COLTELLI SAGOMATI

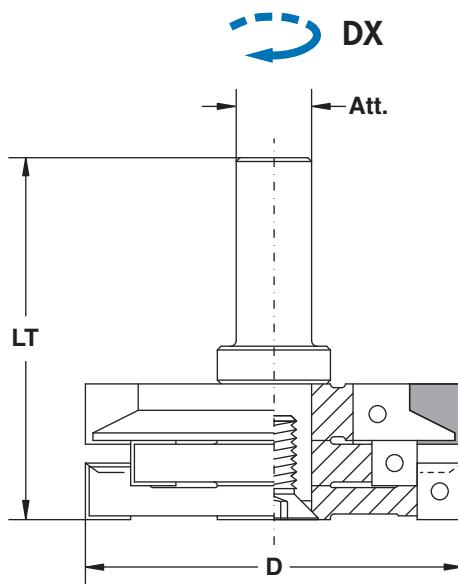
ID nr.	9519
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Gruppi multiprofili per sagoma e controsagoma di ante.
Set of cutters multiprofiles for profile and counter-profile of cabinets door.
 Groupes de fraises pour profile et contre-profile de portes de meubles.
Multi-profilfräser für profil und gegenprofil zu Möbeltür.
 Juego de fresas multiperfiles para puertas de muebles.

3049

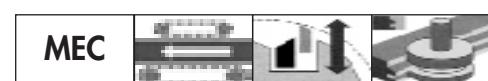
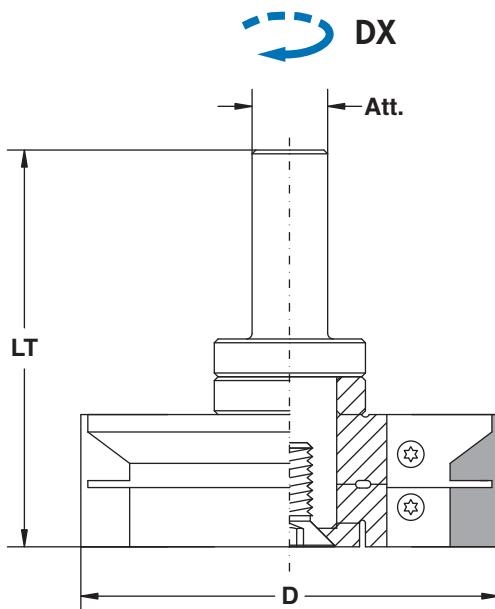
D	S	LT	Att.	Z	rpm	ID nr. DX
100	Max-28	100	Ø20x50	2	14000	3049001

= 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

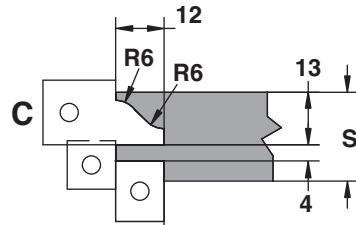
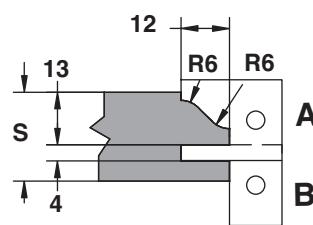
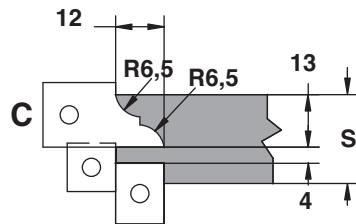
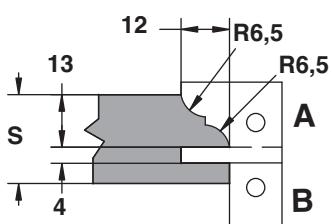
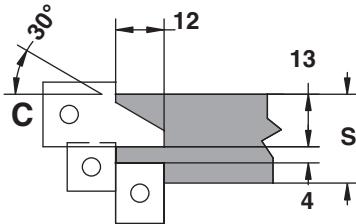
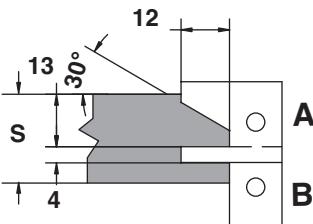
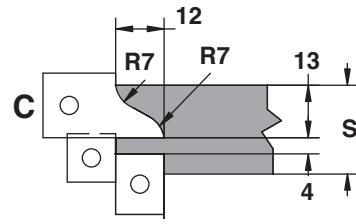
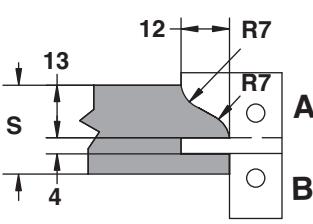


Caratteristiche

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.	9503003	9545003	9503004	9545004	9546018	9508002	9546005

PER ART. 3049001**COLTELLI SAGOMATI**

TIPO - C	1	2	3	4	LARDONI	VITI
Dimensioni BxHxS	16x30x2	16x30x2	16x30x2	16x30x2	13x12x7,5	M6x16
ID nr.	9564001	9564002	9564003	9564004	9545004	9546018

PER ART. 3049003**COLTELLI SAGOMATI**

TIPO - A	1	2	3	4	LARDONI	VITI
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2	20x25x2	18x12x7,5	M6x16
ID nr.	9564011	9564012	9564013	9564014	9545005	9546018
TIPO - B	1				LARDONI	VITI
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2	20x25x2	18x12x7,5	M6x16
ID nr.	9564021	9564022	9564023	9564024	9545005	9546018

Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

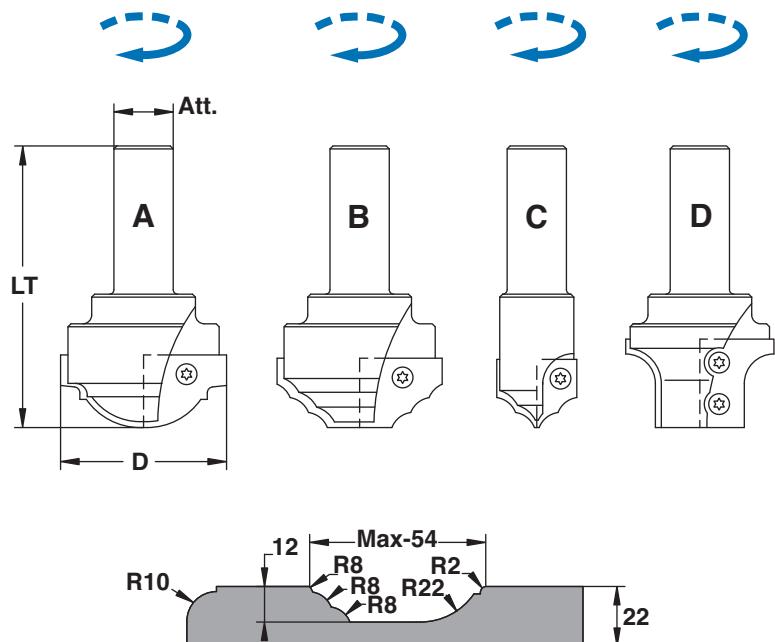
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltür.

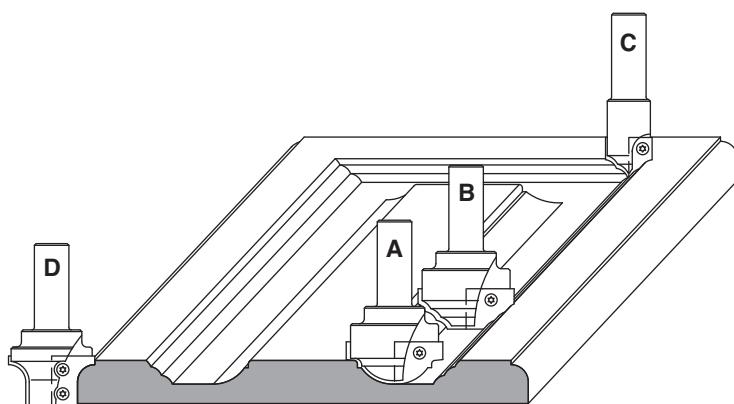
Juego de brocas acopladas para perfilar internamente las puertas de muebles.

3050

D	LT	Att.	TIPO	Z	rpm	ID nr. DX
55	95	Ø20x50	A	2	18000	3050001
55	95	Ø20x50	B	2	18000	3050002
27	95	Ø20x50	C	2	18000	3050003
50	95	Ø20x50	D	2	18000	3050004



ESEMPIO DI LAVORAZIONE



RICAMBI

TIPO	COLTELLI SAGOMATI				VITI
	A	B	C	D	
Dimensioni	30x25x2	30x25x2	15x25x2	30x25x2	M3,5x6
ID nr.	9539001	9539002	9539003	9539004	9546006



Caratteristiche

Particolamente 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.

3051

Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

Groupes de mèches pour sagomer 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
50	95	Ø20x50	A	2	18000	3051001
65	110	Ø20x50	B	2	16000	3051002
24	95	Ø20x50	C	2	20000	3051003
24	95	Ø20x50	D	1	20000	3051004

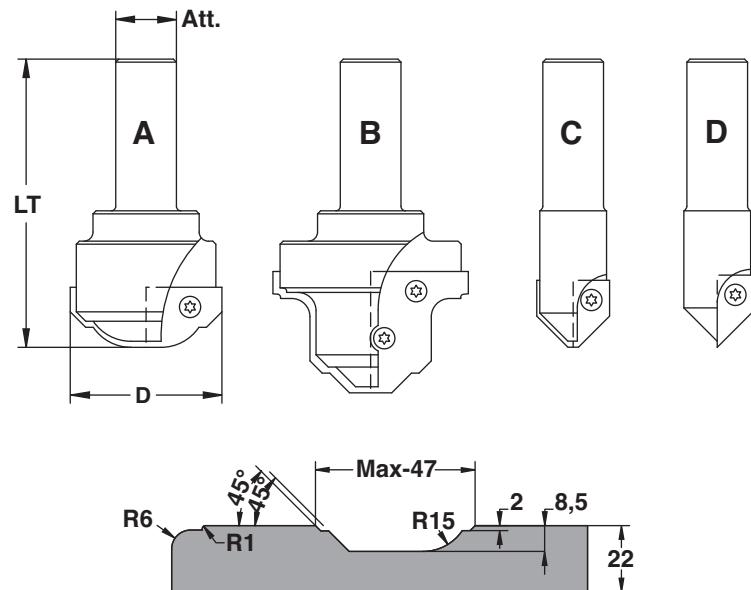


Caratteristiche

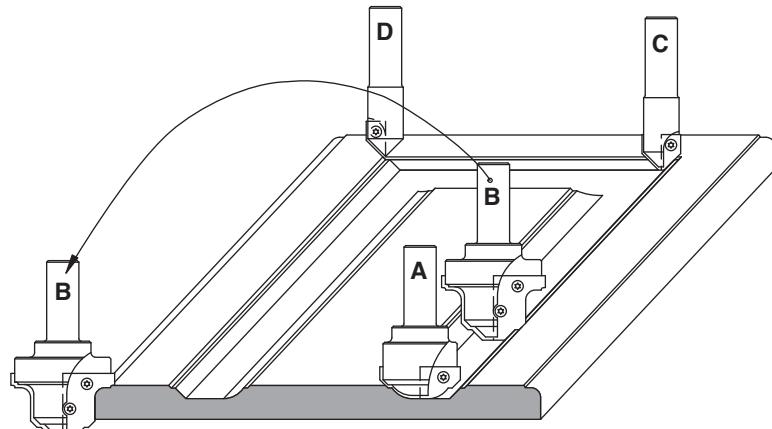
Particolamente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.



ESEMPIO DI LAVORAZIONE



RICAMBI

TIPO	COLTELLI SAGOMATI				VITI
	A	B	C	D	
Dimensioni	25x20x2	40x35x2	22,4x12x1,5	23,8x12x1,5	M3,5x6
ID nr.	9540001	9540002	9540003	9540004	9546006

Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

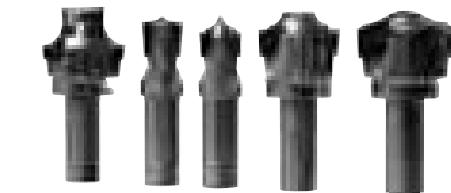
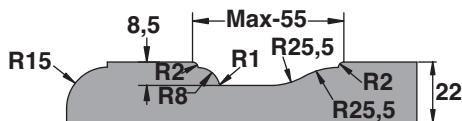
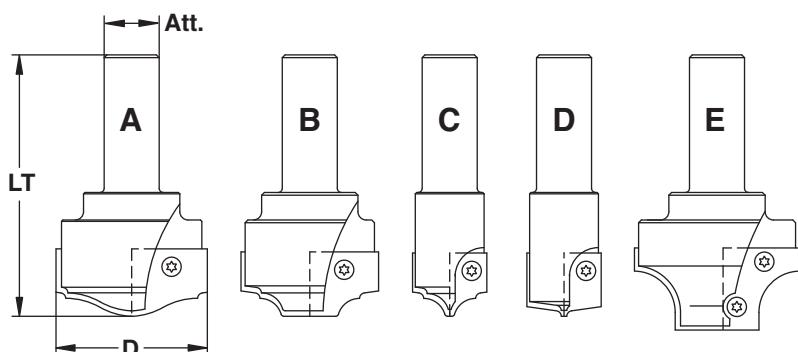
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltür.

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	3061001
49,5	95	Ø20x50	B	2	18000	3061002
27	95	Ø20x50	C	2	20000	3061003
27	95	Ø20x50	D	2	20000	3061004
60	95	Ø20x50	E	2	18000	3061005



MEC

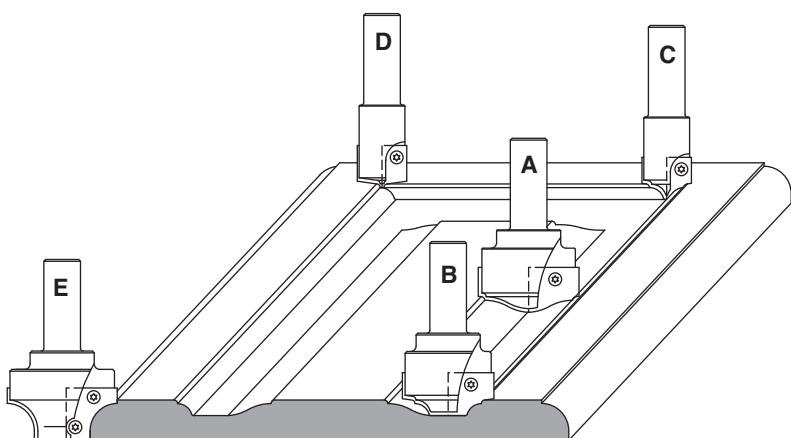
Caratteristiche

Particolarmemente 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

TIPO	COLTELLI SAGOMATI					VITI
	A	B	C	D	E	
Dimensioni	30x25x2	25x25x2	15x25x2	15x25x2	30x30x2	M3,5x6
ID nr.	9549001	9549002	9549003	9549004	9549005	9546006

3069

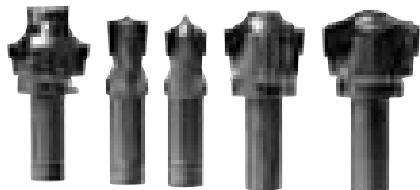
Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

Groupes de mèches pour sagomer 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
50	95	Ø20x50	A	2	18000	3069001
40	95	Ø20x50	B	2	18000	3069002
27	95	Ø20x50	C	2	20000	3069003
24	95	Ø20x50	D	2	20000	3069004
60	95	Ø20x50	E	2	18000	3069005

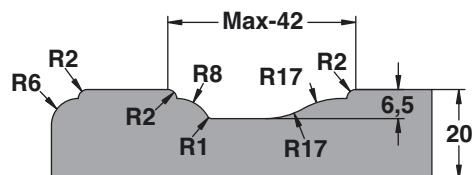
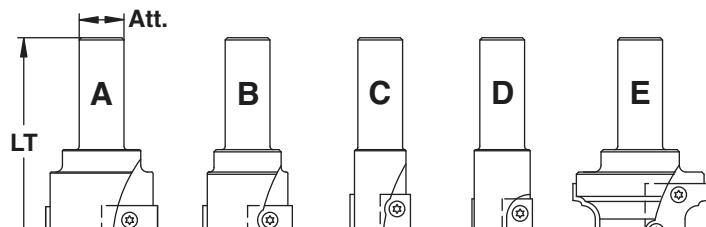


Caratteristiche

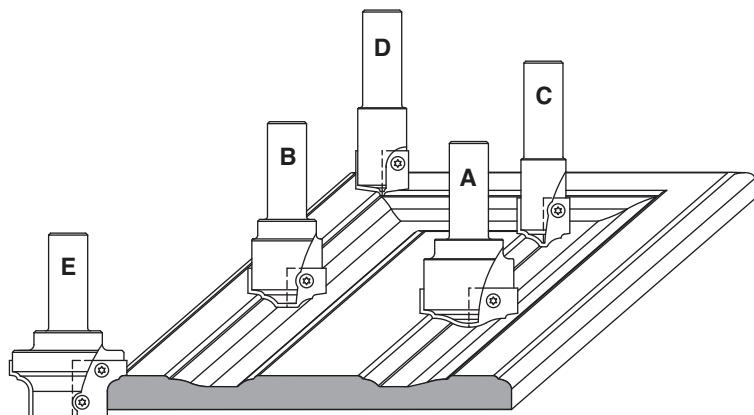
Particolamente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.



ESEMPIO DI LAVORAZIONE



RICAMBI

TIPO	COLTELLI SAGOMATI					VITI
	A	B	C	D	E	
Dimensioni	25x20x2	20x20x2	15x25x2	15x25x2	30x30x2	M3,5x6
ID nr.	9566001	9566002	9566003	9566004	9566005	9546006

Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

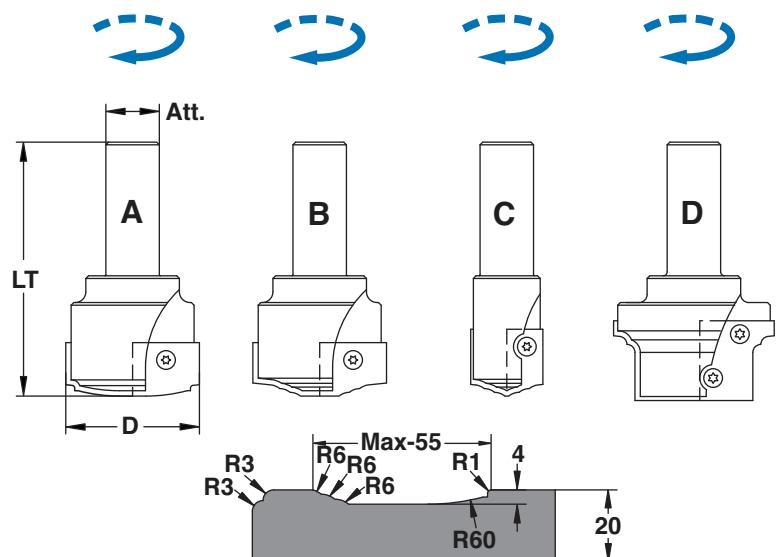
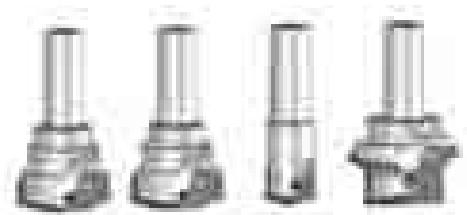
Groupes de mèches pour sagomer l'intérieur de portes de meubles.

Spitzengruppe zu Möbeltür.

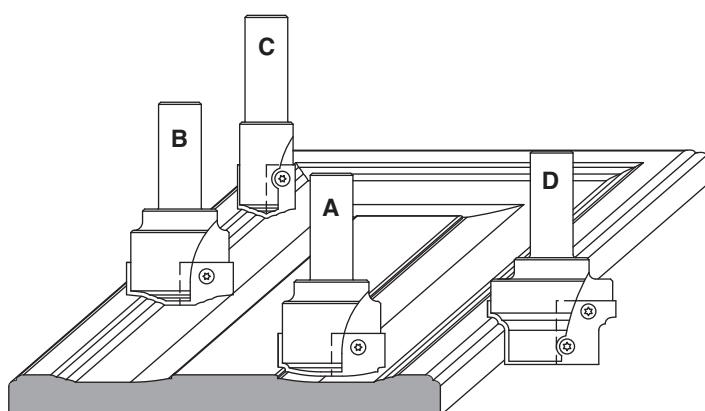
Juego de brocas acopladas para perfilar internamente las puertas de muebles.

3070

D	LT	Att.	TIPO	Z	rpm	ID nr. DX
50	95	Ø20x50	A	2	18000	3070001
50	95	Ø20x50	B	2	18000	3070002
27	95	Ø20x50	C	2	20000	3070003
60	95	Ø20x50	D	2	18000	3070004

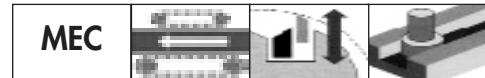


ESEMPIO DI LAVORAZIONE



RICAMBI

TIPO	COLTELLI SAGOMATI				VITI
	A	B	C	D	
Dimensioni	25x20x2	25x20x2	15x25x2	30x30x2	M3,5x6
ID nr.	9567001	9567002	9567003	9567004	9546006



Caratteristiche

Particolarmemente 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.

3071

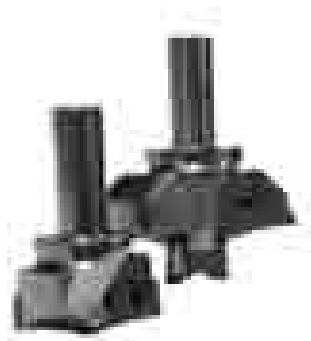
Gruppi di punte accoppiate per sagomatura interna di ante.

Set of drills for shape internal cabinets door.

Groupe de mèches pour sagomer l'intérieur de portes de meubles.

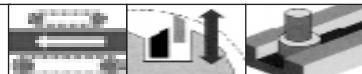
Spitzengruppe zu Möbeltür.

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	3071001
60	90	Ø20x50	B	2	18000	3071002

MEC

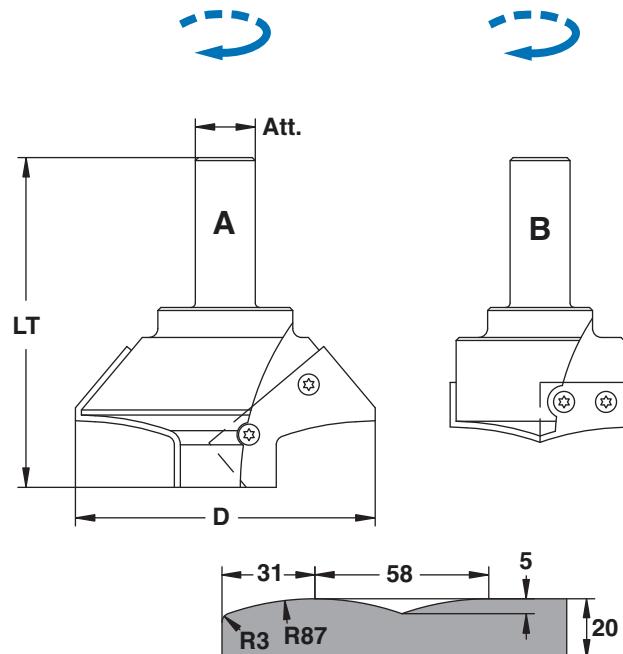


Caratteristiche

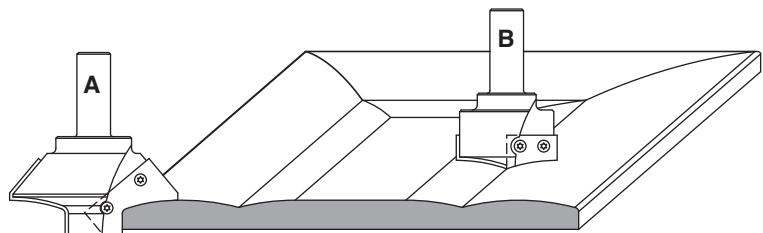
Particolamente idonea per decorazioni interne su tutti i tipi di legno, MDF e truciolare.

Characteristics

Particularly indicated for internal decorations on any kind of wood, MDF and chipboard.



ESEMPIO DI LAVORAZIONE



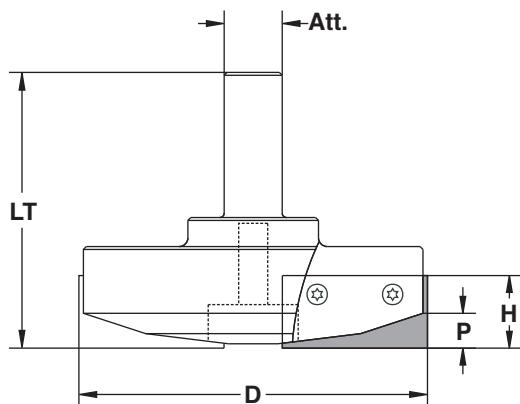
RICAMBI

TIPO	COLTELLI SAGOMATI		VITI
	A	B	
Dimensioni	50x30x2	30x20x2	M3,5x6
ID nr.	9568001	9568002	9546006

Testa piattabanda multiprofilo.
Raising panel cutterhead multiprofiles.
 Tête pour platte-bandes multiprofils.
Abplatt-Messerköpf.
 Cabezal multiperfil para plafones.

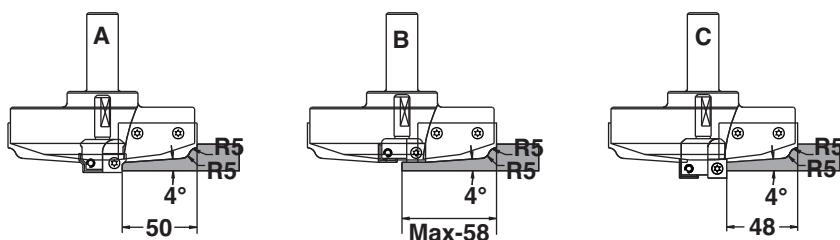
3053

D	LT	H	P	Att.	Z	rpm	ID nr. DX
120	105	25	12	Ø20x50	2	12500	3053001



D	B	Att.	TIPO	Z	rpm	ID nr. DX
30	12	Ø10x30	A	2	18000	3053011
30	12	Ø10x30	B	2	18000	3053012
30	12	Ø10x30	C	2	18000	3053013

ESEMPI DI LAVORAZIONE

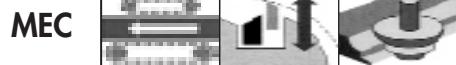


RICAMBI

Denominazione	Dimensioni BxHxS	ID nr.
COLTELLO SAGOMA - 1	50x25x2	3053051
COLTELLO SAGOMA - 2	50x25x2	3053052
COLTELLO SAGOMA - 3	50x25x2	3053053
COLTELLO SAGOMA - 4	50x25x2	3053054
COLTELLO SAGOMA - 5	50x25x2	3053055
COLTELLO SAGOMA - 6	50x25x2	3053056
COLTELLO SAGOMA - 7	50x25x2	3053057
COLTELLO SAGOMA - 8	50x25x2	3053058
COLTELLO SAGOMA - 9	50x25x2	3053059
COLTELLO SAGOMA - 10	50x25x2	3053060
COLTELLO SAGOMA - 11	50x25x2	3053061
COLTELLO SAGOMA - 12	50x25x2	3053062
VITI	M3,5x6	9546006



MEC



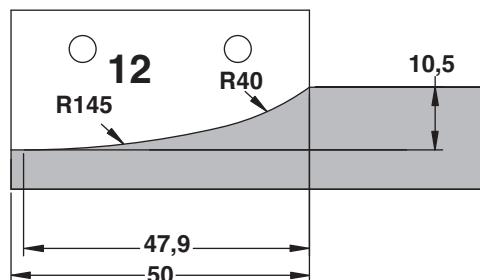
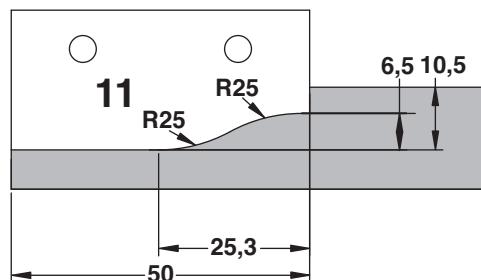
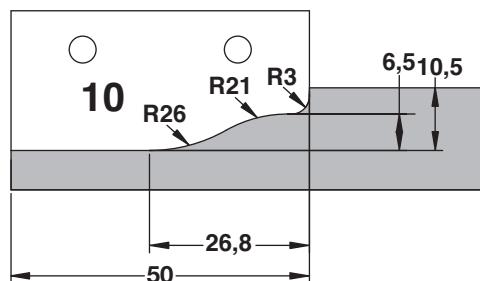
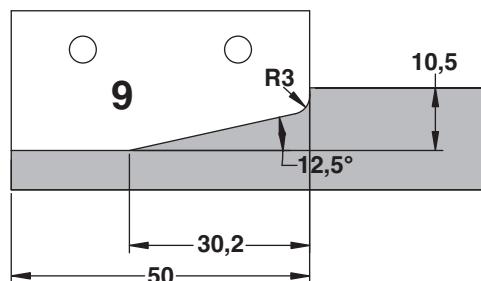
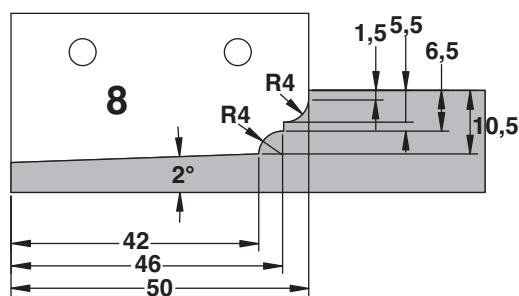
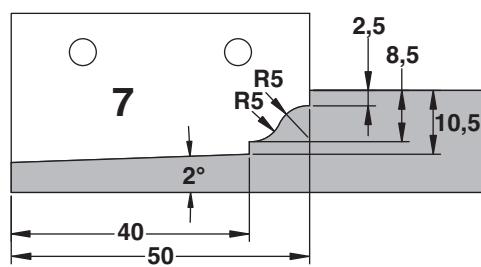
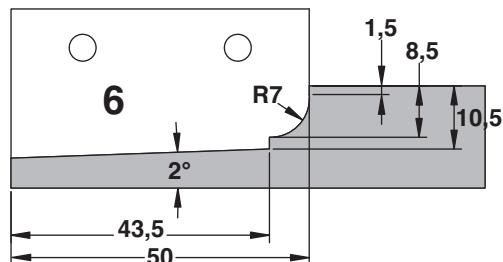
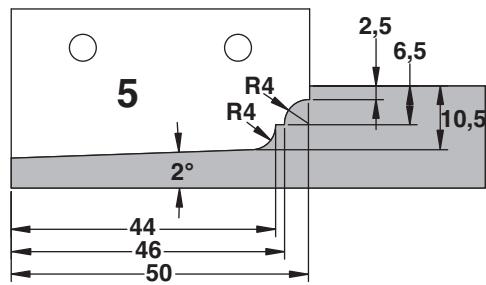
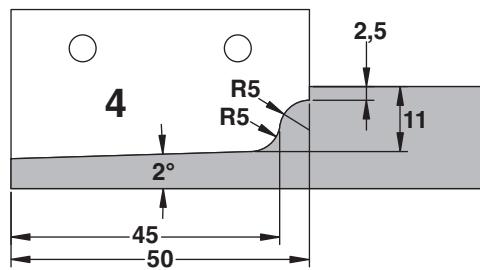
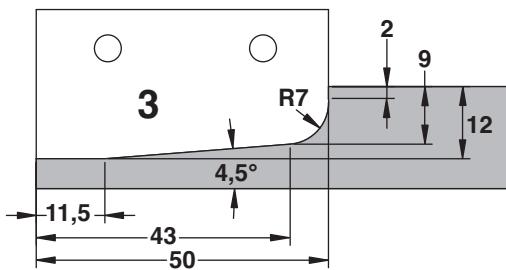
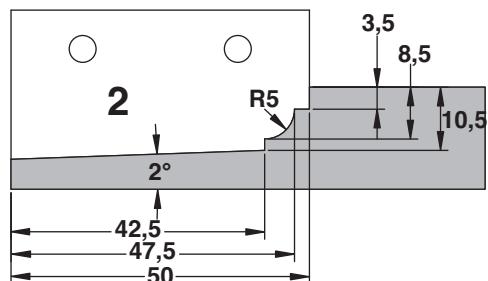
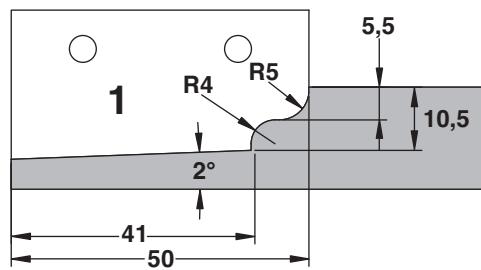
Caratteristiche

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 ashlays for cabinet doors.
 Recommended for softwoods.
 This tool doesn't include its central additional top.

ESEMPI DI PROFILI ESEGUITIBILI



Frese portacolletti sagomate per mezzi tondi.

Cutterheads for half circles.

Fraises porte-outils pour demi-rond.

Halbstabmesserköpf.

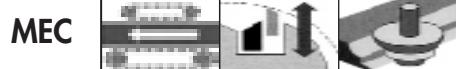
Fresas perfiladas con cuchillas para barras semicirculares.

3055

D	B	LT	Att.	Z	rpm	R	ID nr. DX
60	25	95	$\emptyset 20 \times 50$	2	16000	6	3055011
						8	3055012
						9	3055013
70	35	105	$\emptyset 20 \times 50$	2	14000	10	3055014
						12	3055015
						12,5	3055016
90	50	120	$\emptyset 20 \times 50$	2	10500	15	3055017
						17,5	3055018
						20	3055019
90	60	130	$\emptyset 20 \times 50$	2	10500	22,5	3055020
						25	3055021



MEC

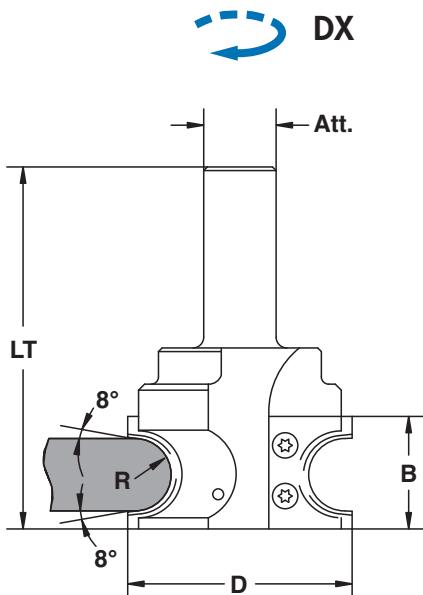


Caratteristiche

Esecuzione Z2 con coltello in HM spessore 2mm. Idonea per lavorazioni su tutti i tipi di legni naturali, truciolari, laminati, MDF o altro.

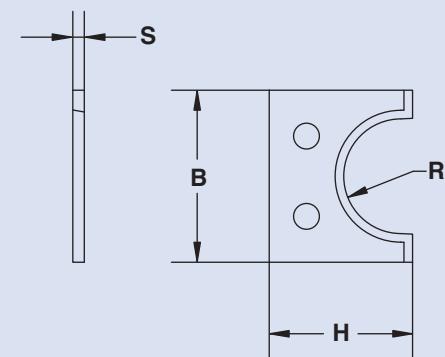
Characteristics

Execution Z2 with HM profiled knives with thickness 2mm. Suitable on all natural woods, chipboard, laminated panels, MDF and more.



RICAMBI

COLTELLI SAGOMATI				
Dimensioni BxHxS	R6 25x25x2	R8 25x25x2	R9 25x25x2	R10 35x30x2
ID nr.	9542011	9542012	9542013	9542014
COLTELLI SAGOMATI				
Dimensioni BxHxS	R12 35x30x2	R12,5 35x30x2	R15 50x35x2	R17,5 50x35x2
ID nr.	9542015	9542016	9542017	9542018
COLTELLI SAGOMATI				
Dimensioni BxHxS	R20 50x35x2	R22,5 60x40x2	R25 60x40x2	VITI M3,5x6
ID nr.	9542019	9542020	9542021	9546006



3056

Frese portacoltelli sagomate per quarti di tondo.

Cutterheads for quarter circles.

Fraises porte-outils pour quart de rond.

Viertelstabmesserköpfe.

Fresas perfiladas con cuchillas para cuartos de barras.



MEC



Caratteristiche

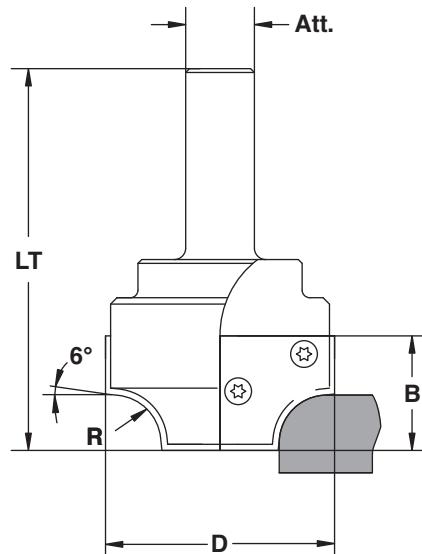
Esecuzione Z2 con coltello in HM spessore 2mm.
Idonea per lavorazioni su tutti i tipi di legni
naturali, truciolari, laminati, MDF o altro.

Characteristics

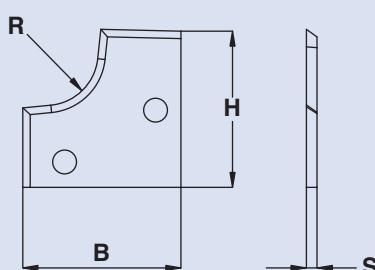
Execution Z2 with HM profiled knives with
thickness 2mm. Suitable on all natural woods,
chipboard, laminated panels, MDF and more.

D	B	LT	Att.	Z	rpm	R	ID nr. DX
50	25	95	$\varnothing 20 \times 50$	2	6	18000	3056011
					8	18000	3056012
					9	18000	3056013
60	30	100	$\varnothing 20 \times 50$	2	10	18000	3056014
					12	18000	3056015
					12,5	18000	3056016
70	35	100	$\varnothing 20 \times 50$	2	15	16000	3056017
					17,5	16000	3056018
					20	16000	3056019
80	40	110	$\varnothing 20 \times 50$	2	22,5	14000	3056020
					25	14000	3056021

DX



RICAMBI



COLTELLI SAGOMATI			
	R6	R8	R9
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2
ID nr.	9543011	9543012	9543013

COLTELLI SAGOMATI			
	R12	R12,5	R15
Dimensioni BxHxS	30x30x2	30x30x2	35x35x2
ID nr.	9543015	9543016	9543017

COLTELLI SAGOMATI			VITI
	R20	R22,5	R25
Dimensioni BxHxS	35x35x2	40x40x2	40x40x2
ID nr.	9543019	9543020	9543021

Punte inclinate per incisioni e smussature di pannelli.

Inclined drills for cuts and for rounding off panels.

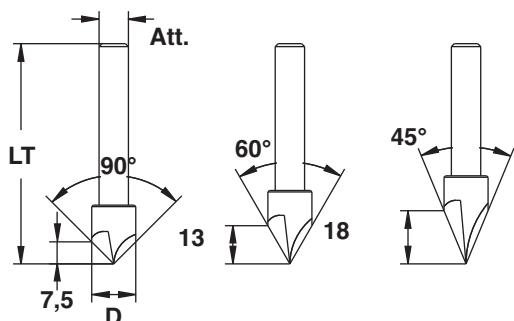
Méches inclinées pour coupes et biseautages de panneaux.

Schiefe Bohrer für Schnitt und Abstumpfung zu Paneel.

Brocas inclinadas para cortar y cantejar los paneles.

3057

D	β	LT	Att.	Z	rpm	ID nr. DX
15	45°	75	$\varnothing 10 \times 45$	3	24000	3057001
15	60°	75	$\varnothing 10 \times 50$	3	24000	3057002
15	90°	75	$\varnothing 10 \times 55$	3	24000	3057003



Caratteristiche

Esecuzione in HM integrale.

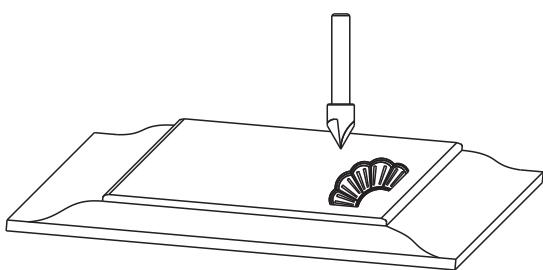
Particolamente idonea per lavorazioni interne decorative su tutti i tipi di legno MDF e truciolare.

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 panels.
 Méches inclinées pour coupes et biseautages 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	3072001
71	110	Ø20x50	B	1+1	18000	3072002
85	125	Ø25x55	C	1+1	16000	3072003

MEC

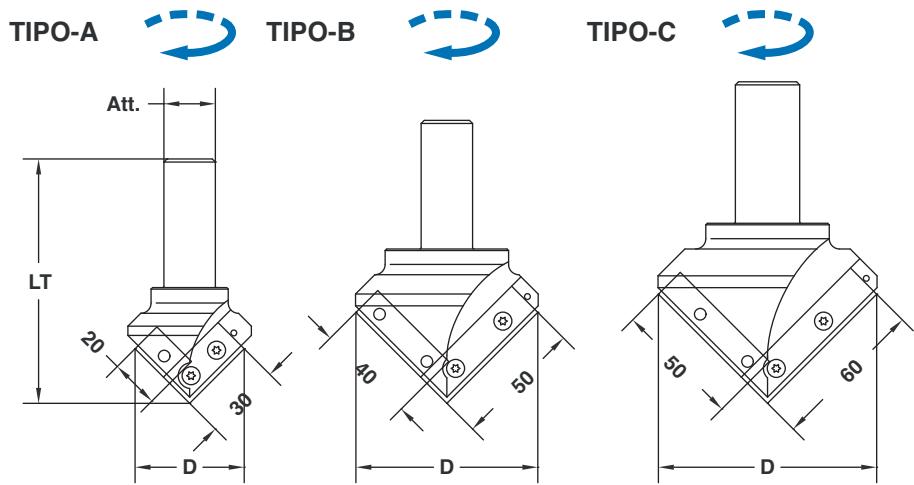


Caratteristiche

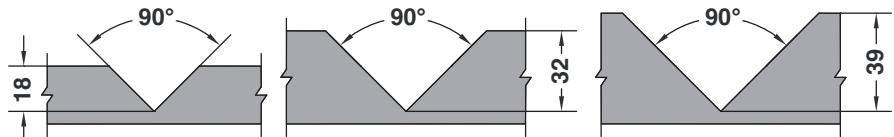
Esecuzione con coltellini a fissaggio meccanico. Particolamente idonea per esecuzioni di smussi e piani inclinati su tutti i tipi di legno, MDF e truciolare.

Characteristics

Execution with knives in mechanical fixing. Particulary 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.	9514021	9514022	9514023	9546006

COLTELLI A STANDARD				VITI
Dimensioni	20x12x1,5	40x12x1,5	50x12x1,5	M3,5x6
ID nr.	9503005	9503007	9503008	9546006

Gruppi per esecuzione di "FINESTRE ad ARCO".

Groups for execution of "ARCH WINDOWS".

Groupe pour exécution des "FENÊTRES à ARC".

Gruppe für Ausführung zu "BOGEN FENSTER".

Juego de brocas para la realización de "VENTANAS con ARCO".

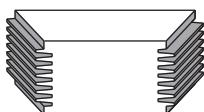
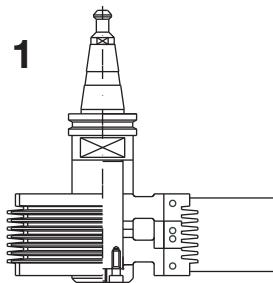
3059

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

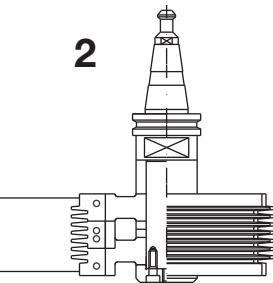
Prezzo escluso attacco

Price without shank

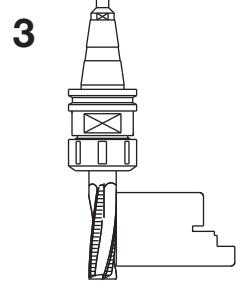
TIPO



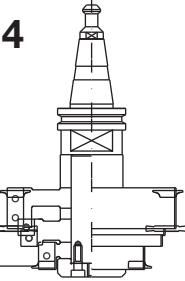
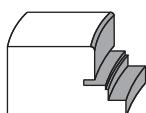
TIPO



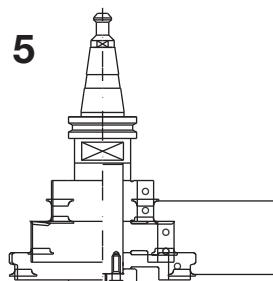
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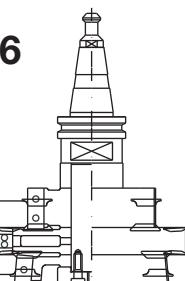
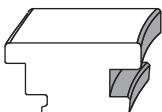
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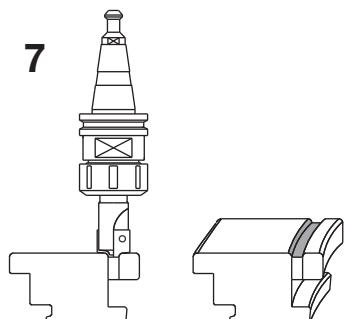
4



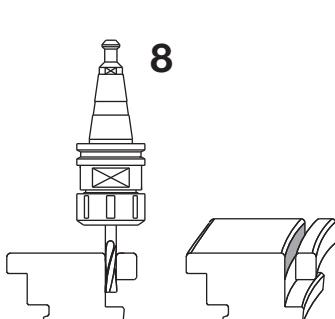
5



6



7



8



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.

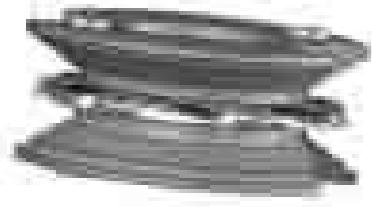
Characteristics

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

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.



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

Denominazione	TIPO	ID nr.
GRUPPO PER SGROSSATURA	1	3060001
GRUPPO PER GIUNZIONE DX	2	3060002
GRUPPO PER GIUNZIONE SX	3	3060003
GRUPPO PER PROFILO INTERNO PORTA	4	3060004
GRUPPO PER RECUPERO LISTELLO	5	3060005
GRUPPO PER FUGA LISTELLO	6	3060006
GRUPPO PER INTESTATURA PORTA	7	3060007
GRUPPO PER SPECCHIETTI BUGNATI	8	3060008
GRUPPO PER BATTUTA	9	3060009

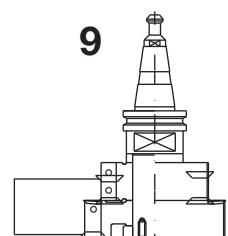
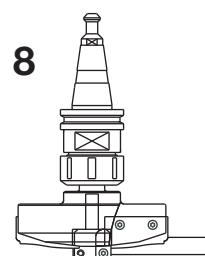
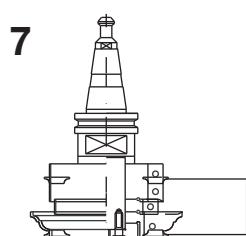
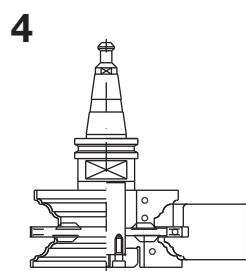
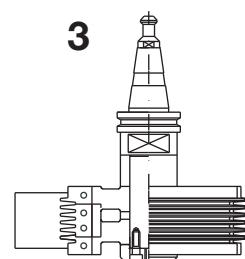
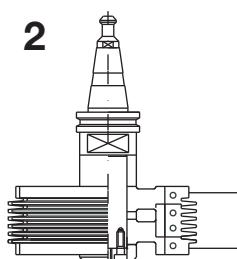
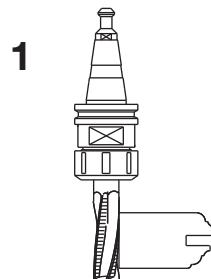
Prezzo escluso attacco

Price without shank

TIPO

TIPO

TIPO



Gruppo per porte.

Groups for executing doors.

Groupes pour l'exécution des portes.

Gruppe für Ausführung zu Türen.

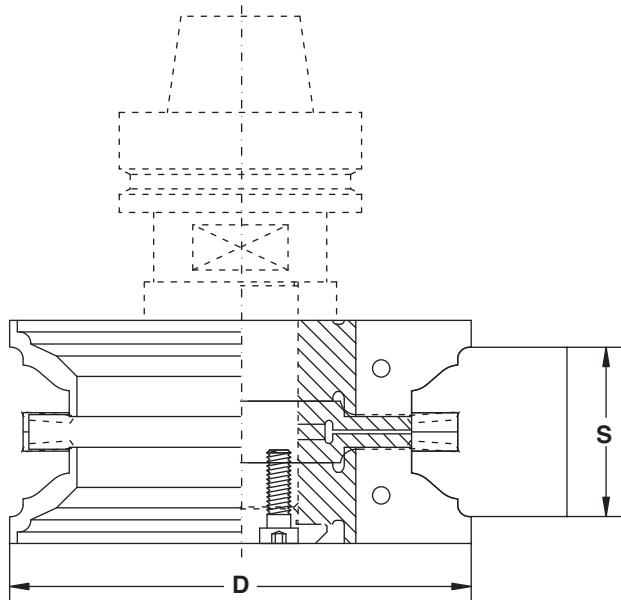
Juego de brocas para la realización de puertas.

3062

SENZA RECUPERO DEL LISTELLO/WITHOUT RECYCLING OF THE SLAT

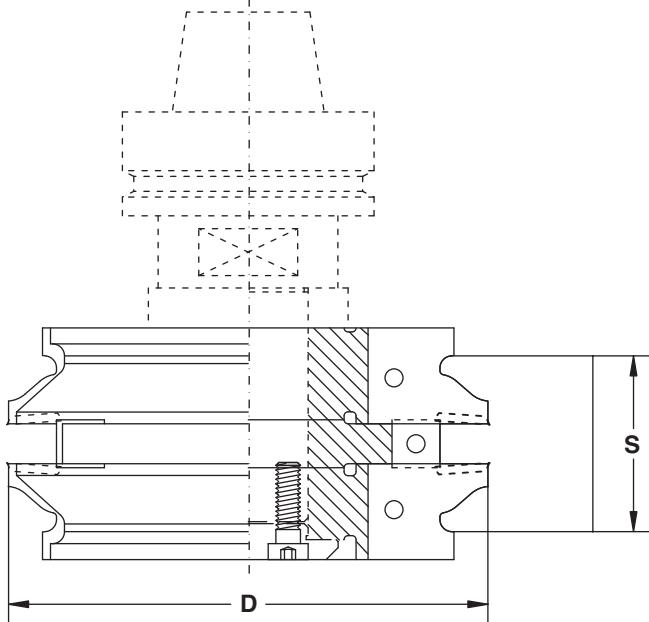
D	S	Z	rpm	ID nr. DX
120	Max-44	2	14000	3062 002

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

Gruppo per porte.

Groups for executing doors.

Groupe pour l'exécution des portes.

Gruppe für Ausführung zu Türen.

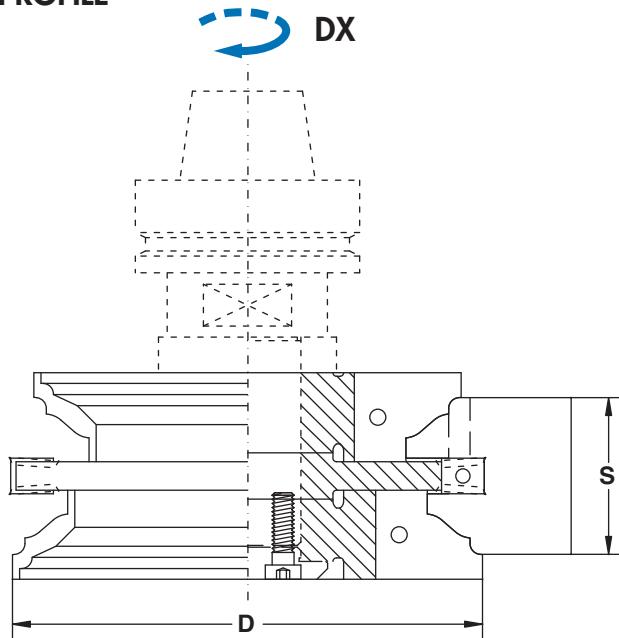
Juego de brocas para la realización de puertas.



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



Caratteristiche

Gruppi di teste per l'esecuzione di porte su macchine CNC.

Particolamente 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

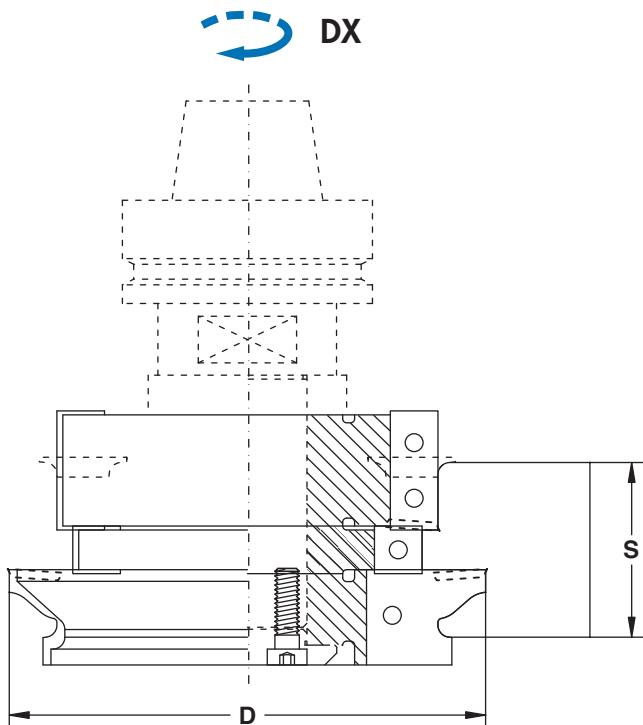
Set of cutterheads to realise doors on CNC machines. Suitable to carve both soft and hardwoods. It can be assembled on a shank Ø25 - ISO30/ISO40 – HSK.

This set is supplied without any shank.

Price without shank.

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.

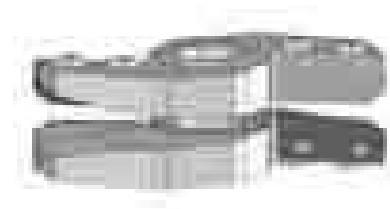
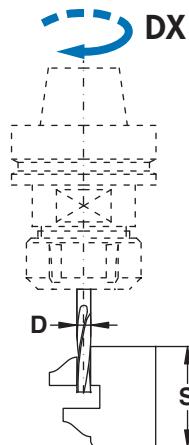
Gruppe für Ausführung zu Türen.

Juego de brocas para la realización de puertas

3062

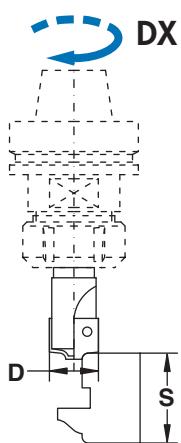
D	S	Z	rpm	ID nr. DX
6	Max-44	2	30000	3062005

RECUPERO DEL LISTELLO/RECYCLING OF THE SLAT



D	S	Z	rpm	ID nr. DX
24	Max-44	2	24000	3062006

FUGA LISTELLO/PLACING OF THE SLAT



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.

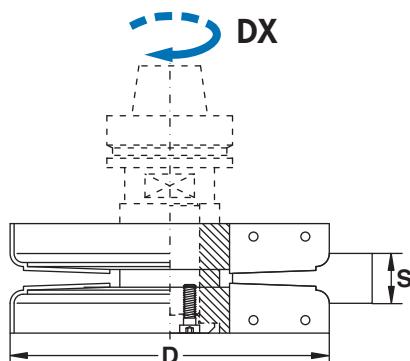
Characteristics

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.

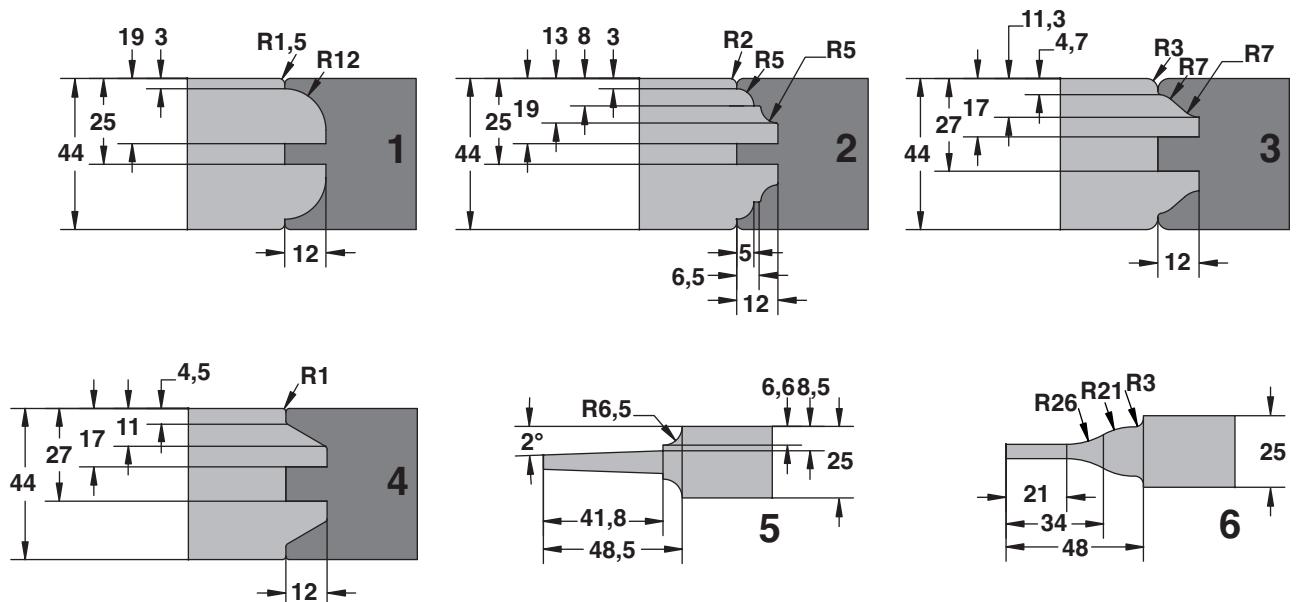
This set is supplied without any shank.
Price without shank.

D	S	Z	rpm	ID nr. DX
160	Max-22	2	8000	3062007

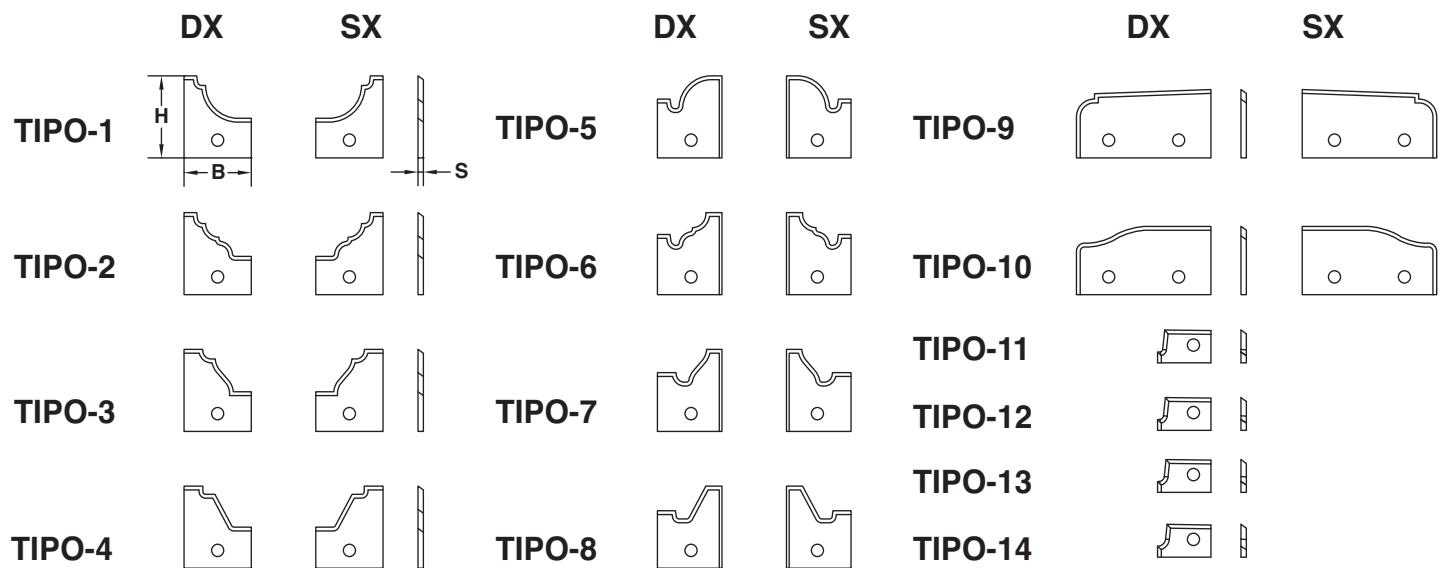
PIATTABANDA DOPPIA/DOUBLE RAISED PANEL HEAD



PROFILI ESEGUIBILI



COLTELLI SAGOMATI DI RICAMBIO



RICAMBI

PER ART. 3062001/002/003/004

TIPO	1	2	3	4	5	6	7	8
	Dimensioni BxHxS	25x30x2						
ID nr. DX	9569001	9569003	9569005	9569007	9569009	9569011	9569013	9569015
ID nr. SX	9569002	9569004	9569006	9569008	9569010	9569012	9569014	9569016

PER ART. 3062006/007

TIPO	9	10	11	12	13	14
	Dimensioni BxHxS	50x25x2	50x25x2	12x19,85x2	12x19,85x2	12x19,85x2
ID nr. DX	9569017	9569019	9569021	9569022	9569023	9569024
ID nr. SX	9569018	9569020	-			

COLTELLI STANDARD

Dimensioni BxHxS	12x12x1,5	30x12x1,5	14x14x2	18x18x2,95	16x22x5
	ID nr.	9503003	9503006	9508002	9509002

VITI

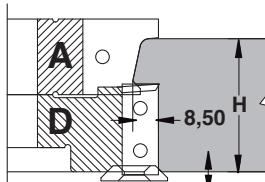
Dimensioni	M8x16	M5x8	M4x4	M4 Ø11,9	M3,5x6	M5x10
	ID nr.	9546020	9546005	9546009	9547002	9546006

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

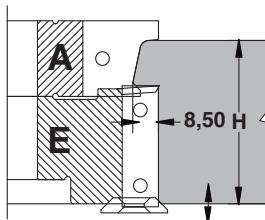
COMPOSIZIONE A-D BATTUTA 8,50

SAGOMA	H	ID nr. DX
1	44	3063002
2	44	3063003
3	44	3063004
4	44	3063005



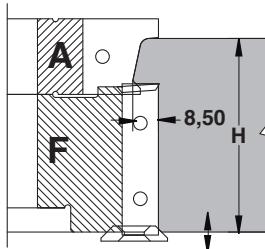
COMPOSIZIONE A-E BATTUTA 8,50

SAGOMA	H	ID nr. DX
1	54	3063006
2	54	3063007
3	54	3063008
4	54	3063009



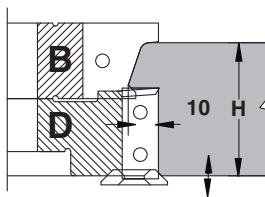
COMPOSIZIONE A-F BATTUTA 8,50

SAGOMA	H	ID nr. DX
1	64	3063010
2	64	3063011
3	64	3063012
4	64	3063013



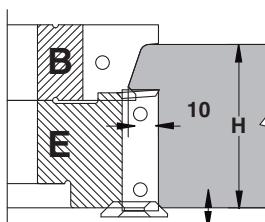
COMPOSIZIONE B-D BATTUTA 10

SAGOMA	H	ID nr. DX
5	44	3063014
6	44	3063015
7	44	3063016
8	44	3063017



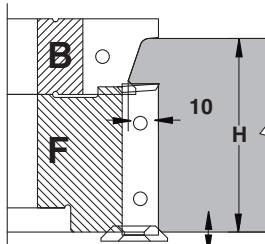
COMPOSIZIONE B-E BATTUTA 10

SAGOMA	H	ID nr. DX
5	54	3063018
6	54	3063019
7	54	3063020
8	54	3063021



COMPOSIZIONE B-F BATTUTA 10

SAGOMA	H	ID nr. DX
5	64	3063022
6	64	3063023
7	64	3063024
8	64	3063025



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



Caratteristiche

Gruppo per la squadratura di porte su macchine CNC. ØMax 110 in alluminio.

Particolamente 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.

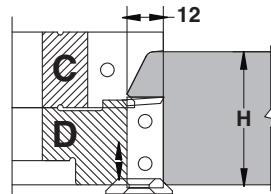
This set is supplied without any shank.

Price without shank.

Gruppo per la squadratura di porte Z2.
Group for the squaring of doors Z2.
Groupe pour l'équarissage de portes Z2.
Gruppe für die Abvierzen zu Türen Z2.
Juego de brocas para escuadrar las puertas Z2.

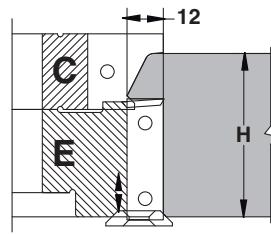
COMPOSIZIONE C-D BATTUTA 8,50

SAGOMA	H	ID nr. DX
9	44	3063026
10	44	3063027
11	44	3063028
12	44	3063029



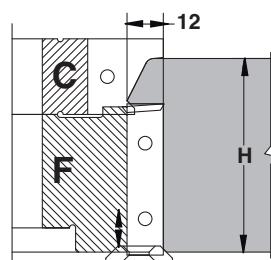
COMPOSIZIONE C-E BATTUTA 8,50

SAGOMA	H	ID nr. DX
9	54	3063030
10	54	3063031
11	54	3063032
12	54	3063033

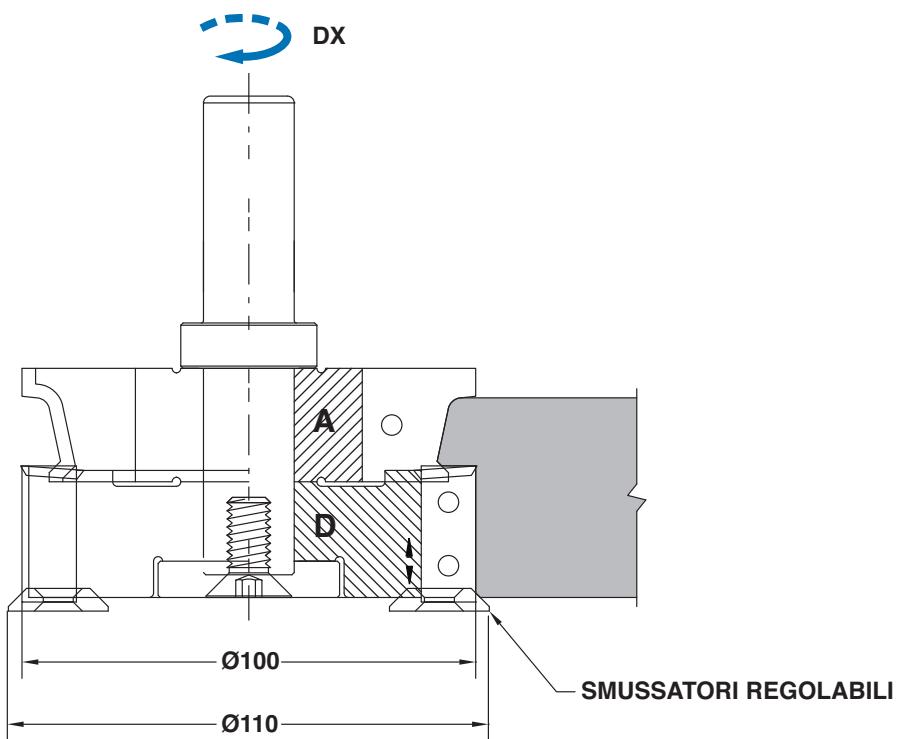


COMPOSIZIONE C-F BATTUTA 8,50

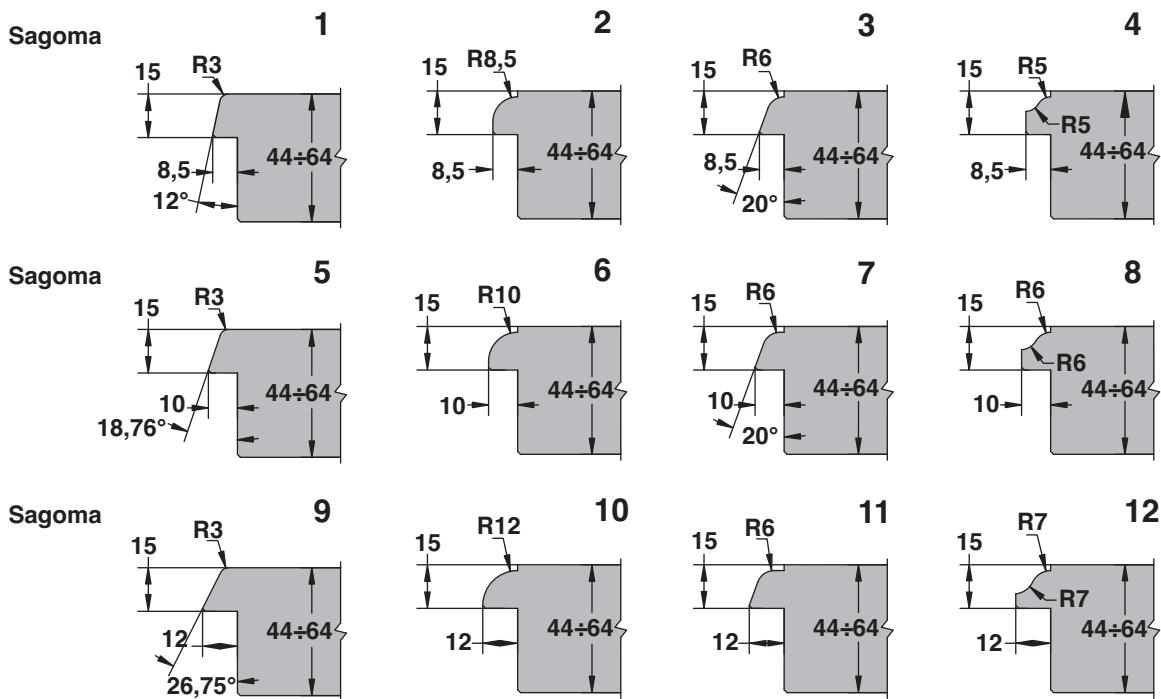
SAGOMA	H	ID nr. DX
9	64	3063034
10	64	3063035
11	64	3063036
12	64	3063037



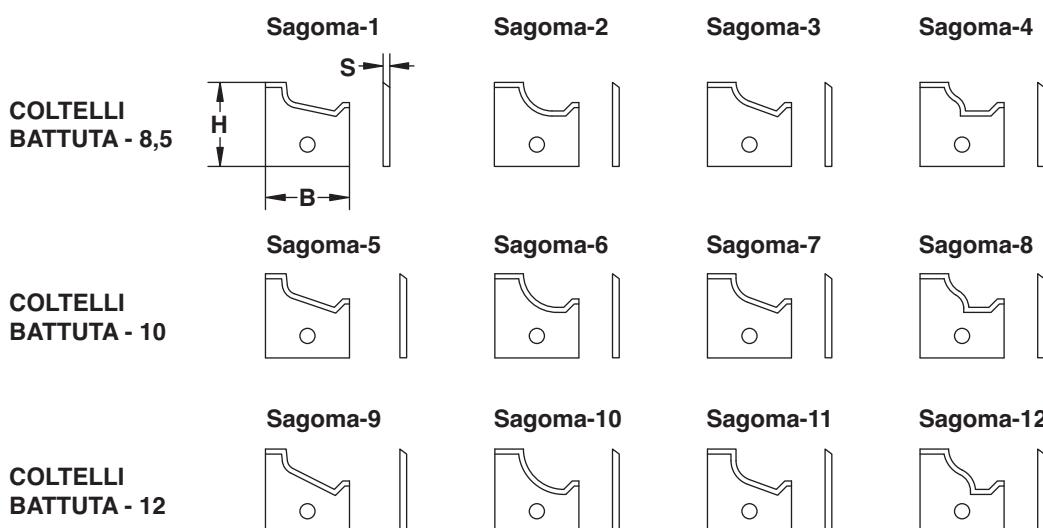
ESEMPIO DI MONTAGGIO



PROFILI ESEGUIBILI



COLTELLI SAGOMATI DI RICAMBIO



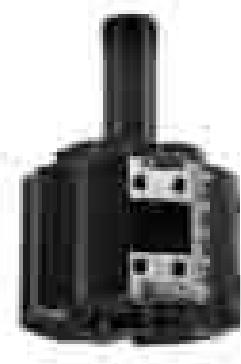
RICAMBI

COLTELLI SAGOMATI				
TIPO	BATTUTA - 8,5	BATTUTA - 10	BATTUTA - 12	LARDONI
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	18x12x7,5
ID nr.	9570001÷004	9570011÷014	9570021÷024	9545005

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.	9503006	9503007	9503008	9545006	9545007	9545008	9508002	9513

VITI					
IMPIEGO	PER LARDONI		PER RASANTI		PER INSERTI
Dimensioni	M6x16		M5x8		M5x10
ID nr.	9546018		9546005		9546003

3064



Caratteristiche

Testa con 2 taglienti e 4 levaspigli a 45° oppure raggiati, regolabili per tutta la lunghezza della punta mediante supporti. Adatta per eseguire contornature con smussatura di pannelli di vario spessore.

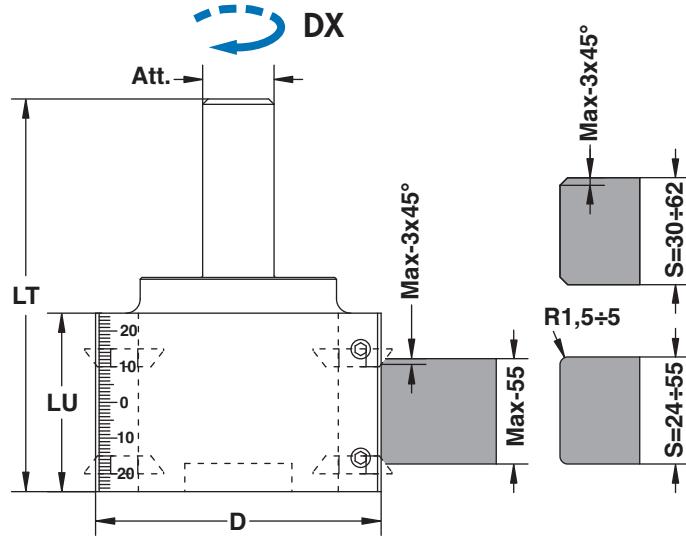
Characteristics

Cutter with 2 cuts and 4 inserts at 45° or with radius, adjustable for all the lenght of the drill by supports.

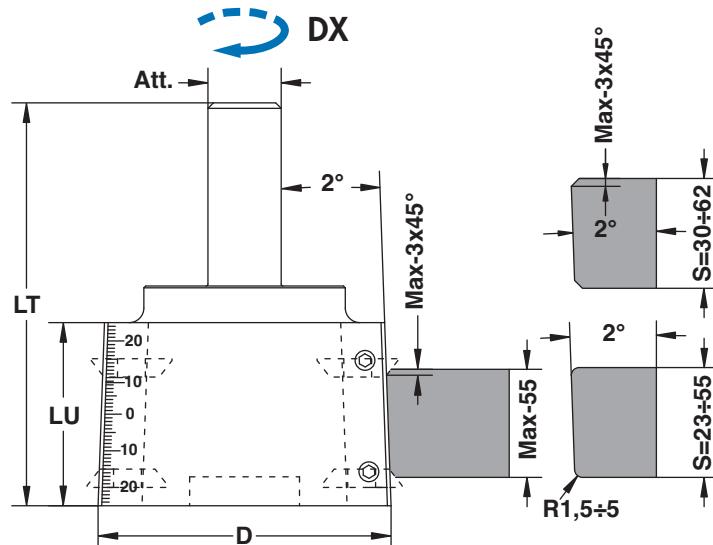
This tool is suitable for surround and for rounding off on panels with different thickness.

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 canear.

D	LU	LT	Att.	Z	LEV.	rpm	ID nr. DX
80	50	110	Ø20x50	2	4	18000	3064001



D	LU	LT	Att.	Z	LEV.	rpm	ID nr. DX
80	50	110	Ø20x50	2	4	18000	3064002



RICAMBI

	COLTELLI	LARDONI	VITI
Dimensioni	50x12x1,5	48x12x7,5	M6x16
ID nr.	9503008	9545008	9546018
	LEVASPIGOLI	SUP. LEVASP.	VITI
Dimensioni	16x22x5 45°	27x14,5x14	M5x10
ID nr.	9510001	9547007	9546003

Testa per esecuzione sede ferramenta su serramenti.

Cutterhead for fitting groove.

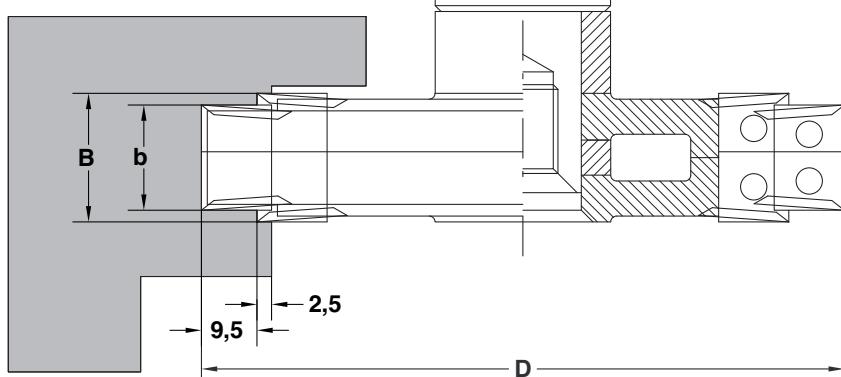
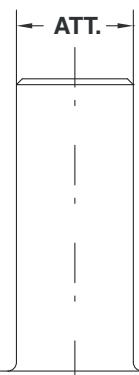
Porte-outil pour crémone.

Messerköpf für Beschlagnut.

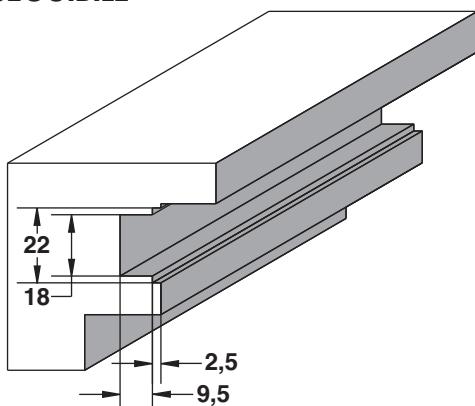
Cabezal para realizar el alojamiento de herramientas de puertas y ventanas.

3065

D	b	B	Att.	Z+V	rpm	ID nr. DX
110	10÷18	14÷22	Ø20x50	4+4+4+4	18000	3065001



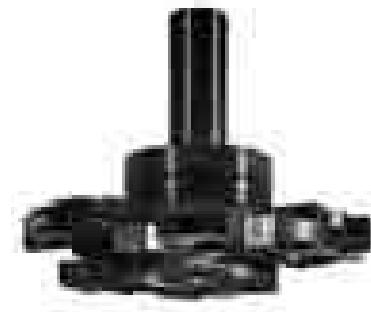
PROFILO ESEGUIBILE



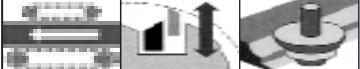
RICAMBI

	COLTELLI	LARDONI	COLTELLI	LARDONI	VITI
Dimensioni	9,65x12x1,5	8,5x12x7,5	12x12x1,5	10x12x7,5	M6x16
ID nr.	9503002	9545001	9503003	9545003	9546018

	RASANTI	VITI
Dimensioni	14x14x2	M5x7
ID nr.	9508002	9546005



MEC



Caratteristiche

Testa portacoltelli regolabile con coltellini reversibili, completa di anelli distanziatori. 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

3.5



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.

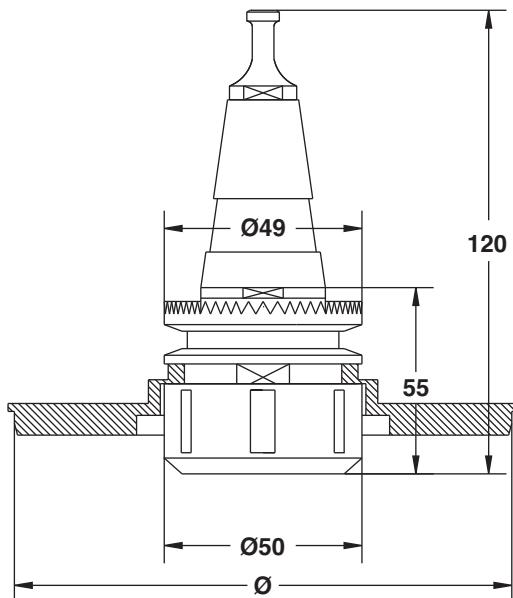


Caratteristiche

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

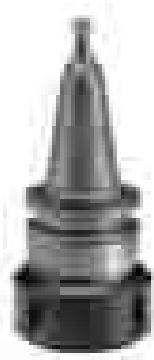
High precision chuck that allows the reduction of tolerances.
 On request it is supplied with support Ø69-86-106-126 on machines with toolholder STC.



RICAMBI

	GHIERA	TIRANTE	PINZA
ID nr. DX	3523 001	3527 004	3519
ID nr. SX	3523 002	-	-

3502



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

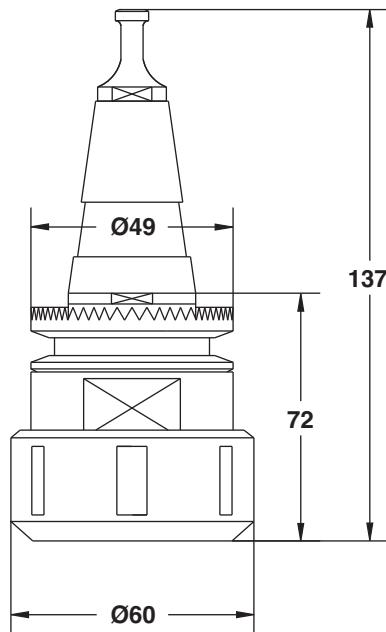
N.B.: Il mandrino viene fornito senza pinza.
 ATTENTION: The chuck is supplied without collet.

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	TIRANTE	PINZA
ID nr. DX	3525 001	3527 004

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	3503001	3503002
ISO-30	63	139	3503003	3503004

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.

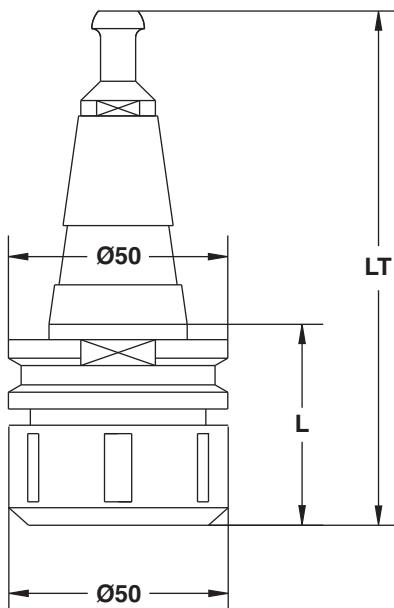


Caratteristiche

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	3523001	3527	3519
ID nr. SX	3523002	-	-

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

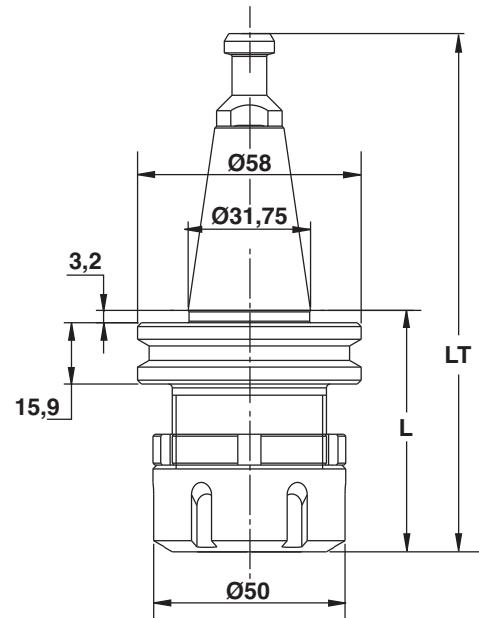
Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

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	-	-

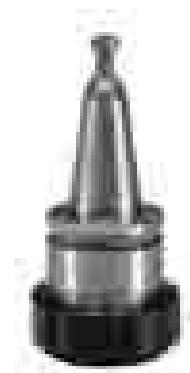
Mandrino attacco ISO-30 porta pinze ER40 (\varnothing Max-25) su macchine a CNC.
Chuck with shank ISO-30 for collects ER40 (\varnothing Max-25) on CNC machines.
 Mandrin avec attaque ISO-30 pour pinces ER40 (\varnothing Max-25) pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER40 (\varnothing Max-25) für CNC Maschinen.
 Mandril portapinzas ER40 (\varnothing Máx-25) con mango ISO-30 para máquinas CNC.

3504

Att.	ID nr. DX	ID nr. SX
ISO-30	3504001	3504002

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.

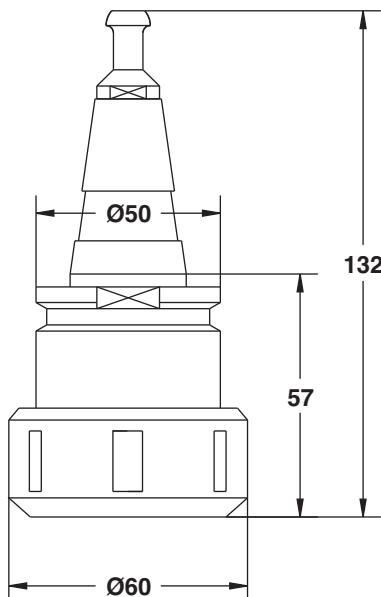


Caratteristiche

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	3524001	3527	3520
ID nr. SX	3524002	-	-

3530



Mandrino attacco ISO-30 porta-pinze ER40 (\varnothing Max-25) su macchine a CNC.
Chuck with shank ISO-30 for collects ER40 (\varnothing Max-25) on CNC machines.
 Mandrin avec attaque ISO-30 pour pinces ER40 (\varnothing Max-25) pour CNC machines.
Spannfutter ISO-30 für Spannzangen ER40 (\varnothing Max-25) für CNC Maschinen.
 Mandril portapinzas ER40 (\varnothing Máx-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

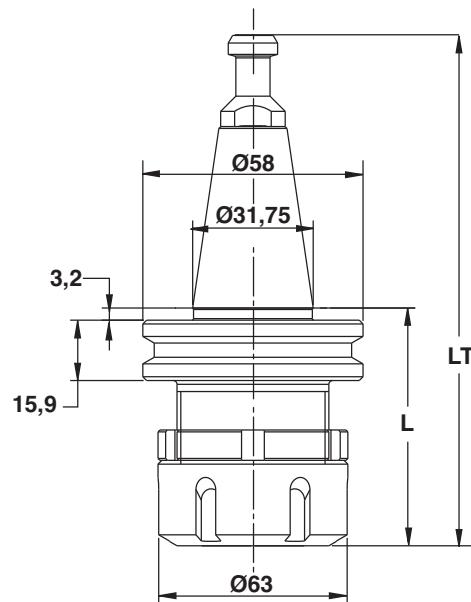
Per macchine UNITEAM - ESSETEAM
For machines UNITEAM - ESSETEAM

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.



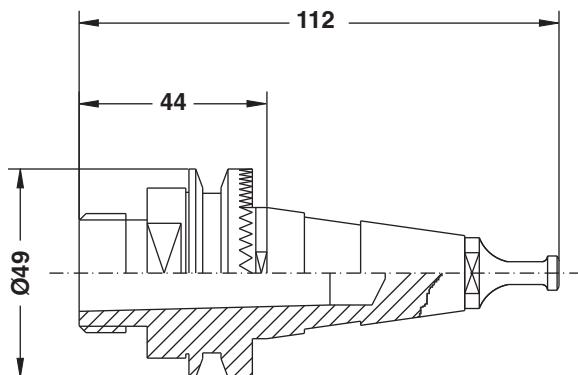
RICAMBI

	GHIERA	TIRANTE	PINZA
ID nr. DX	3524 001	3527 003	3520
ID nr. SX	3524 002	-	-

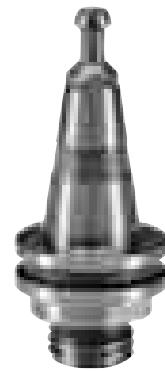
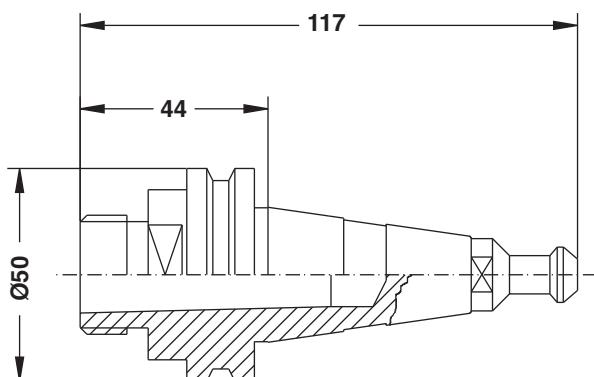
Mandrino attacco ISO-30 con adattatore CM2 su macchine a CNC.
Chuck with shank ISO-30 with adapter CM2 on CNC machines.
 Mandrin avec attaque ISO-30 avec adaptateur CM2 sur CNC machines.
Spannfutter ISO-30 mit Anpassungsgerät CM2 für CNC Maschinen.
 Mandril con mango ISO-30 y ajuste CM2 para máquinas CNC.

3507

Att.	MACCHINA	ID nr.
ISO-30	Morbidelli - SCM	3507001



Att.	MACCHINA	ID nr.
ISO-30	Alberti - Biesse - Bulleri - Busellato Cosmec - IMA - Masterwood	3507002



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

PER ART. 3507001	MACCHINA	ID nr.
TIRANTE	Morbidelli - SCM	3527004

PER ART. 3507002	MACCHINA	ID nr.
TIRANTE	Alberti - Biesse Bulleri - Busellato - Cosmec IMA - Masterwood	3527001÷3

3508



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	3508005
ISO-30		Max-30	80	3508006
ISO-30		Max-30	100	3508001
ISO-30		Max-35	70	3508007
ISO-30		Max-35	80	3508008
ISO-30		Max-35	100	3508002

Caratteristiche

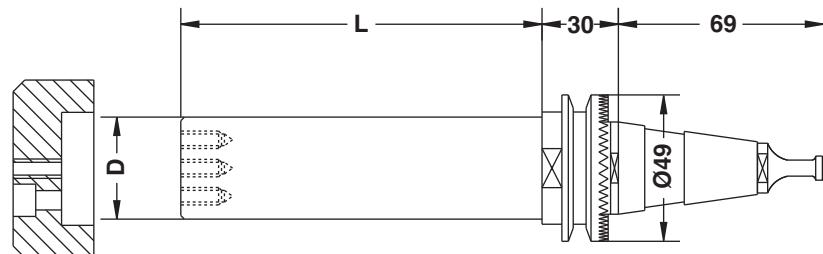
Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Sostituendo il tirante, il mandrino può essere montato su diversi tipi di macchine.

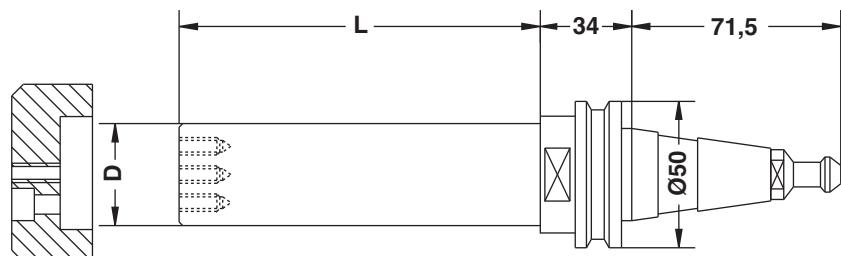
Characteristics

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	D	L	ID nr.
ISO-30	Alberti - Biesse - Bulleri Busellato - Cosmec - IMA Masterwood	Max-30	70	3508009
ISO-30		Max-30	80	3508010
ISO-30		Max-30	100	3508003
ISO-30		Max-35	70	3508011
ISO-30		Max-35	80	3508012
ISO-30		Max-35	100	3508004



RICAMBI

PER ART. 3508001

TIRANTE	MACCHINA	ID nr.
	Morbidelli - SCM	3527004

PER ART. 3508002

TIRANTE	MACCHINA	ID nr.
	Alberti - Biesse Bulleri - Busellato - Cosmec IMA - Masterwood	3527001+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	3540001
25	45	50	59	77	103	56	3540002

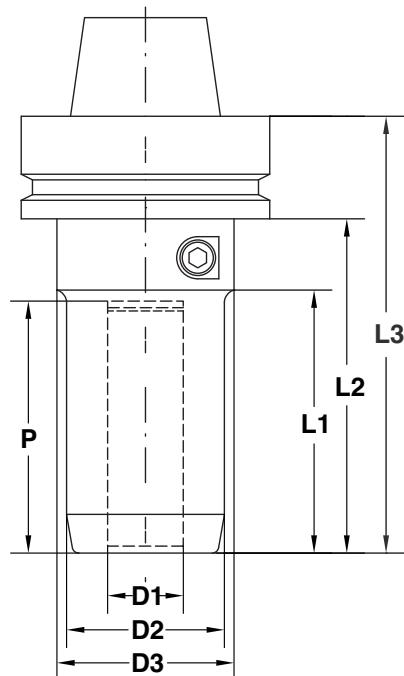


Caratteristiche

Mandrino di precisione con attacco HSK-63F, velocizza e facilita il cambio degli utensili.

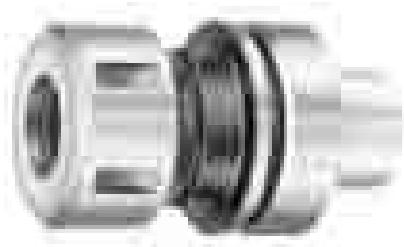
Characteristics

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.



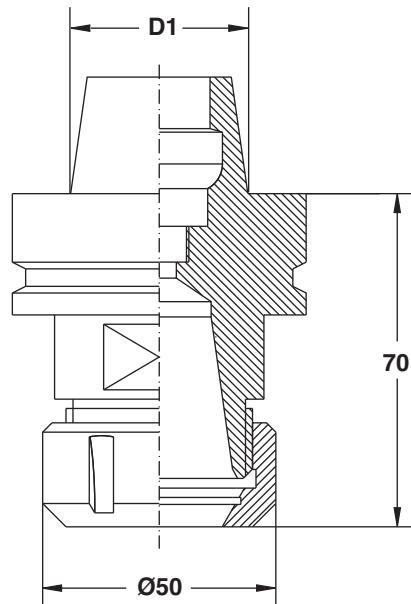
Att.	D1	ID nr. DX	ID nr. SX
HSK-F-63	38	3509001	3509002
HSK-E-63	48	3509003	3509004

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	3523001	3519
ID nr. SX	3523002	-

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

Att.	L	ID nr. DX	ID nr. SX
HSK	43	3531 001	3531 002

HSK - Per macchine CMS
 HSK - For machines CMS

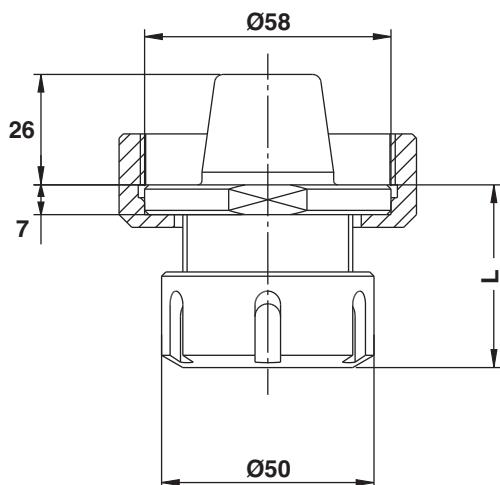


Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck that allows the reduction of tolerances.

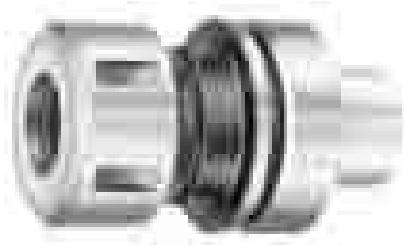


RICAMBI

	GHIERA	PINZA
ID nr. DX	3523 001	3519
ID nr. SX	3523 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.



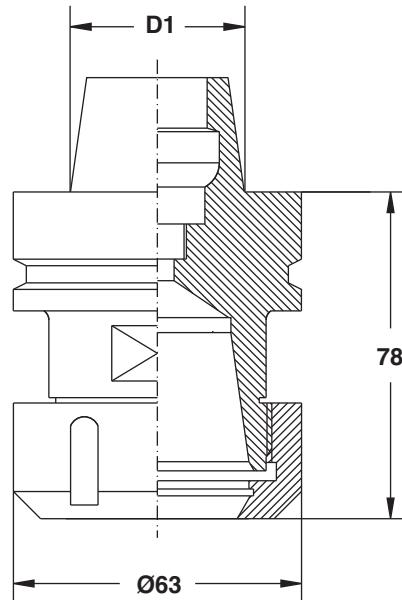
Att.	D1	ID nr. DX	ID nr. SX
HSK-F-63	38	3510001	3510003
HSK-E-63	48	3510002	3510004

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	3524001	3520
ID nr. SX	3524002	-

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.	L	ID nr. DX	ID nr. SX
HSK	60	3532 001	3532 002

HSK - Per macchine CMS
 HSK - For machines CMS

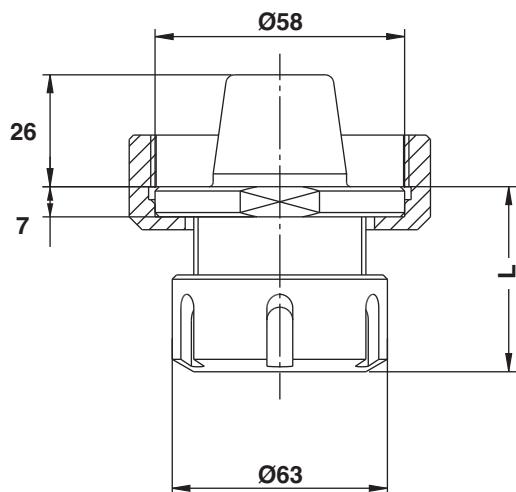


Caratteristiche

Mandrino di precisione, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

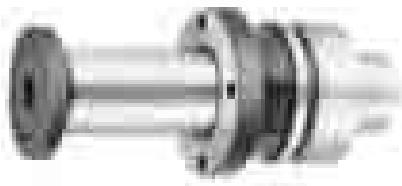
High precision chuck that allows the reduction of tolerances.



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.

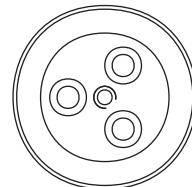
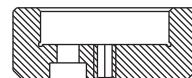
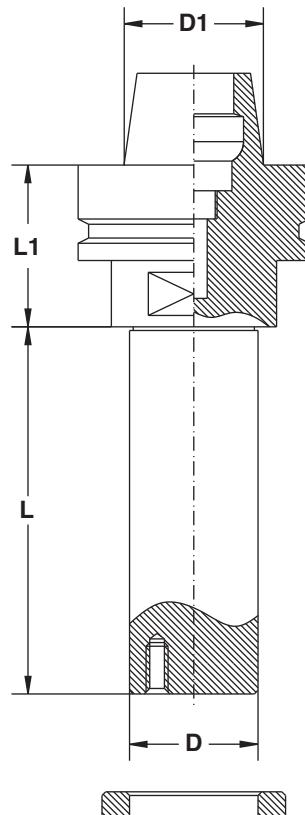
Caratteristiche

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	3511005
HSK-F-63	38	30	33	80	3511006
HSK-F-63	38	30	33	100	3511001
HSK-F-63	38	35	33	70	3511007
HSK-F-63	38	35	33	80	3511008
HSK-F-63	38	35	33	100	3511002
HSK-E-63	48	30	42	70	3511009
HSK-E-63	48	30	42	80	3511010
HSK-E-63	48	30	42	100	3511003
HSK-E-63	48	35	42	70	3511011
HSK-E-63	48	35	42	80	3511012
HSK-E-63	48	35	42	100	3511004



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.

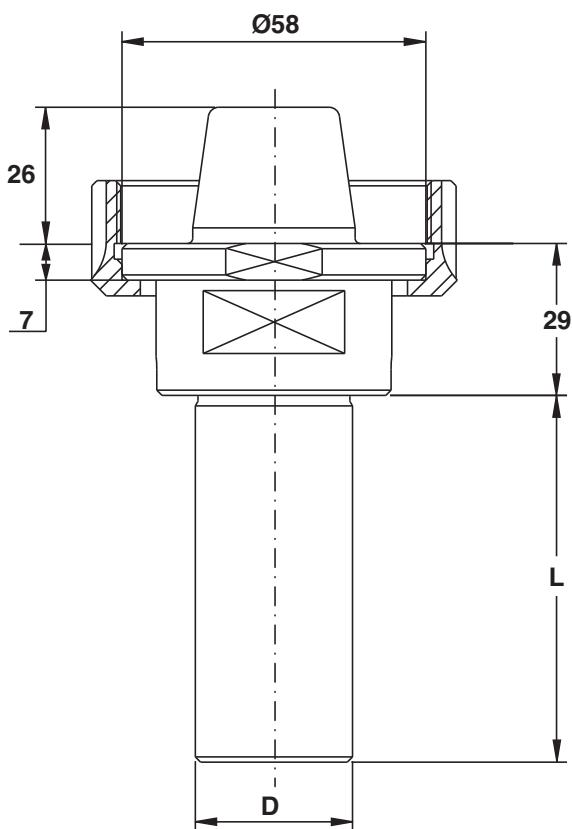
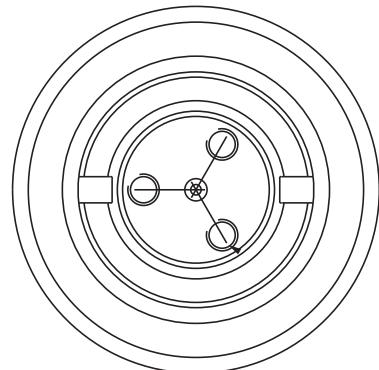
Mandril con eje portafresas y con mango HSK para máquinas CNC.

3533

Att.	D	L	ID nr.
HSK	30	70	3533001
HSK	30	80	3533002
HSK	30	100	3533003
HSK	35	70	3533004
HSK	35	80	3533005
HSK	35	100	3533006

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



Mandrino attacco HSK-63E con albero porta-frese su macchine Weinig.

Chuck with shank HSK-63E carrying drill for Weinig machines.

Mandrin avec attaque HSK-63E porte-fraises pour Weinig machines.

Spannfutter HSK-63E Fräsdorn für Weinig Maschinen.

Mandril con eje portafresas y con mango HSK-63E para máquinas Weinig.

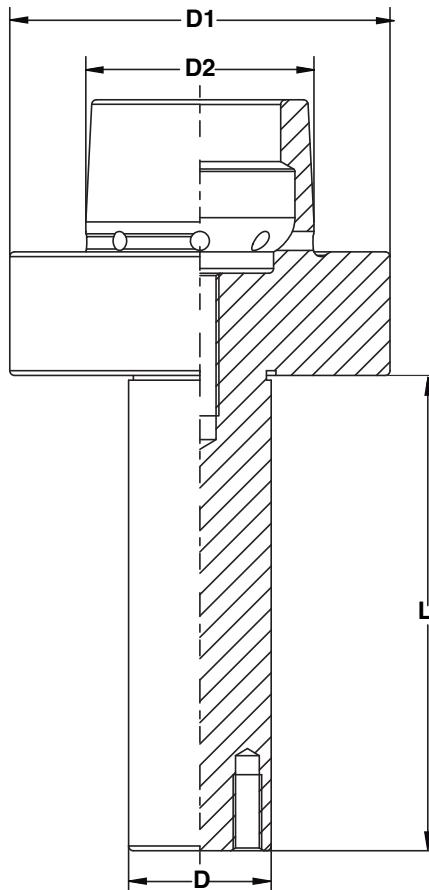
Caratteristiche

Mandrino di precisione con attacco HSK-63E per macchine Weinig, permette di ridurre al minimo le tolleranze di concentricità.

Characteristics

High precision chuck with shank HSK-63E, for Weinig machines, that allows the reduction of tolerances.

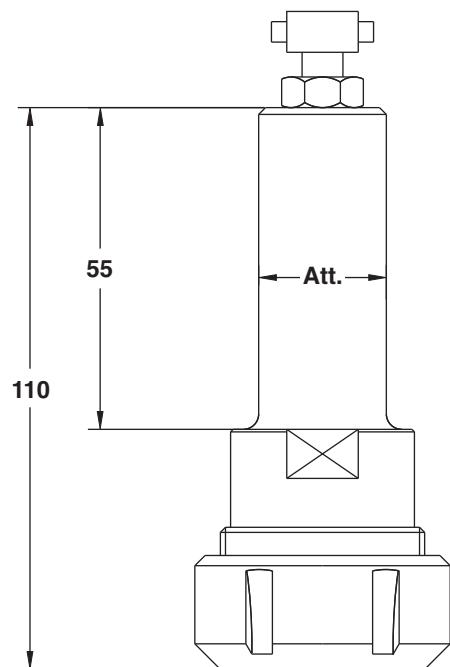
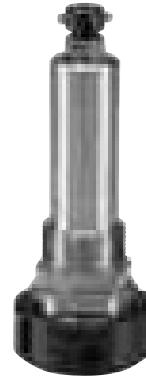
D1	D2	D	L	ID nr.
80	48	30	60	3541001
80	48	30	80	3541002
80	48	30	100	3541003
80	48	30	130	3541004
80	48	30	150	3541005
80	48	30	180	3541006
80	48	30	200	3541007
80	48	30	230	3541008
80	48	30	240	3541009
80	48	35	80	3541010
80	48	35	100	3541011
80	48	35	120	3541012
80	48	35	150	3541013
80	48	35	200	3541014
80	48	40	60	3541015
80	48	40	80	3541016
80	48	40	100	3541017
80	48	40	150	3541018
80	48	40	180	3541019
80	48	40	200	3541020
80	48	40	240	3541021



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-fresa per pantografo.
Chuck with cylindrical shank for pantograph.
 Mandrin avec attaque cylindrique pour pantograph.
Spannfutter mit zylinder Verbindungsstück für Pantograph.
 Mandril con mango cilíndrico portafresas para fresadora.

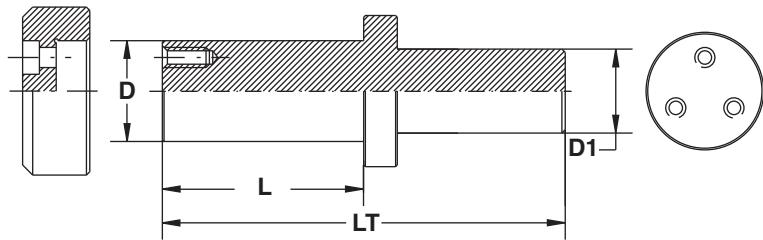
D1	D	L	LT	ID nr. DX
20	20	50	110	3513001
20	30	60	120	3513002
25	20	50	115	3513003
25	30	60	125	3513004

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 cilíndrico portasierras para fresadora.

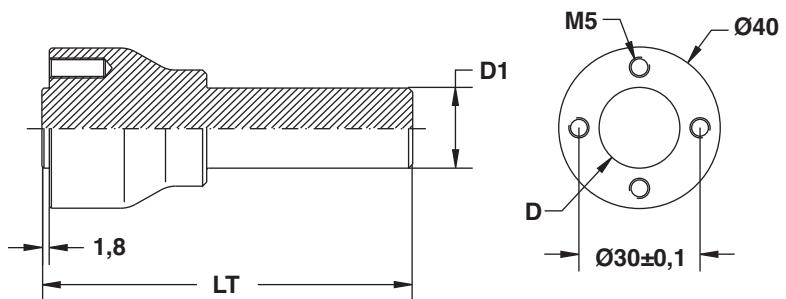
D1	D	LT	ID nr.
20	20	90	3514001

Caratteristiche

Per macchine a controllo numerico CNC e non.
 Viene fornito completo di N°4 viti di serraggio a testa svasata.

Characteristics

Suitable for CNC machines and not.
 It is supplied with N°4 clamping screws.



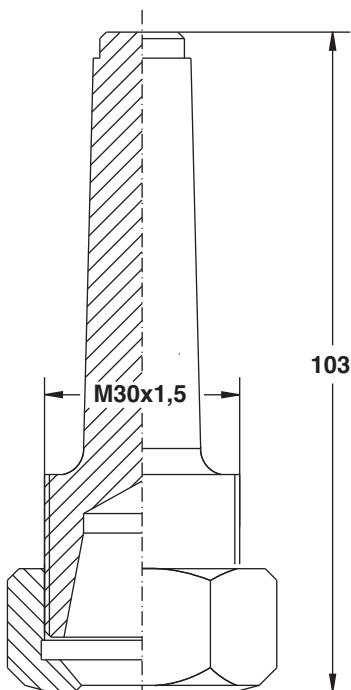
RICAMBI

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 fresaora.

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

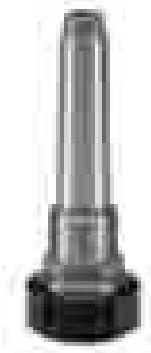
Suitable for CNC machines and not.
 The chuck is supplied with nut.

RICAMBI

	GHIERA	PINZA
ID nr. DX	3522 001	3518
ID nr. SX	3522 002	-

3516

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.

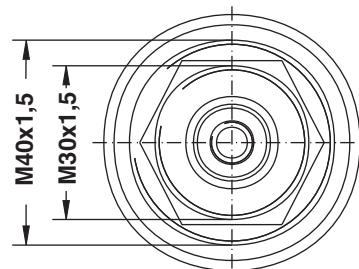
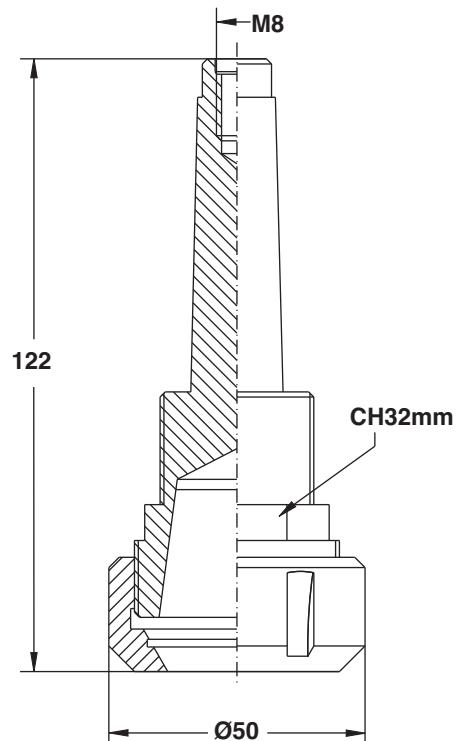


Caratteristiche

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	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 défonceuse.

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

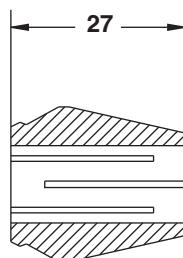
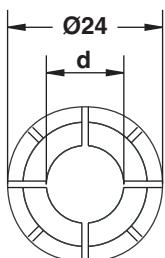


Caratteristiche

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.

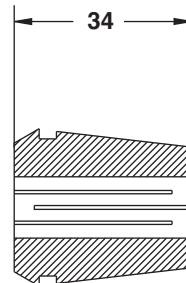
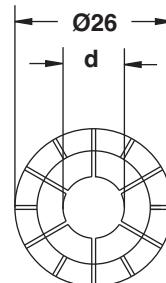
d	ID nr.	d	ID nr.
4-3	3528001	11-10	3528008
5-4	3528002	12-11	3528009
6-5	3528003	13-12	3528010
7-6	3528004	14-13	3528011
8-7	3528005	15-14	3528012
9-8	3528006	16-15	3528013
10-9	3528007		

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

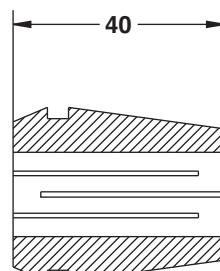
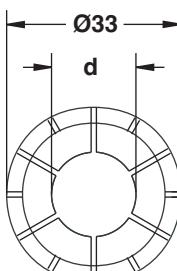
d	ID nr.	d	ID nr.
3-2	3519001	12-11	3519010
4-3	3519002	13-12	3519011
5-4	3519003	14-13	3519012
6-5	3519004	15-14	3519013
7-6	3519005	16-15	3519014
8-7	3519006	17-16	3519015
9-8	3519007	18-17	3519016
10-9	3519008	19-18	3519017
11-10	3519009	20-19	3519018

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.

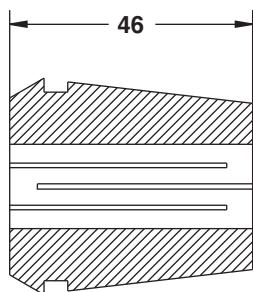
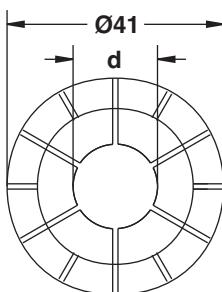
Spannzange ER40.

Pinzas ER40.

3520

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.

Caratteristiche

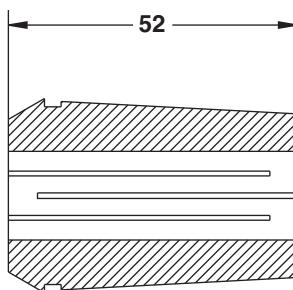
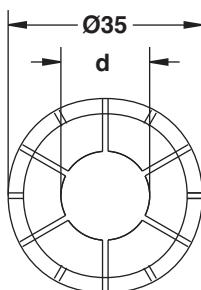
Pinza ad alta precisione di ricambio per ART. 3504-3510.

Characteristics

Rechange collet of high precision for ART. 3504-3510.

3521

d	ID nr.
25	3521 001



Caratteristiche

Pinza ad alta precisione di ricambio per ART. 3504-3510.

Characteristics

Rechange collet of high precision for ART. 3504-3510.

3534



Pinze elastiche di serraggio ETS32.

Collects ETS32.

Pinces élastique ETS32.

Spannzange ETS32.

Pinzas ETS32.

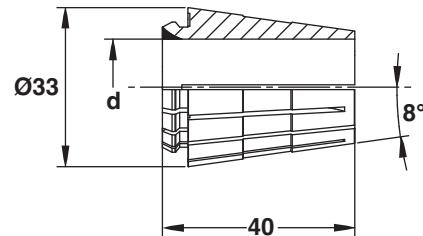
d	ID nr.	d	ID nr.
3-2	3534001	12-11	3534010
4-3	3534002	13-12	3534011
5-4	3534003	14-13	3534012
6-5	3534004	15-14	3534013
7-6	3534005	16-15	3534014
8-7	3534006	17-16	3534015
9-8	3534007	18-17	3534016
10-9	3534008	19-18	3534017
11-10	3534009	20-19	3534018

Caratteristiche

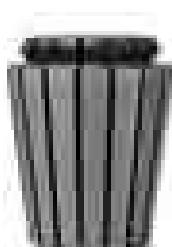
Pinza elastica ad alta precisione di ricambio per mandrino ETS.

Characteristics

Rechange collet of high precision for ETS chuck.



3535



Pinze elastiche di serraggio ETS40.

Collects ETS40.

Pinces élastique ETS40.

Spannzange ETS40.

Pinzas ETS40.

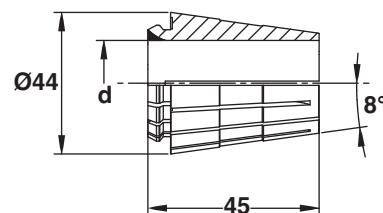
d	ID nr.	d	ID nr.
4-3	3535001	16-15	3535013
5-4	3535002	17-16	3535014
6-5	3535003	18-17	3535015
7-6	3535004	19-18	3535016
8-7	3535005	20-19	3535017
9-8	3535006	21-20	3535018
10-9	3535007	22-21	3535019
11-10	3535008	23-22	3535020
12-11	3535009	24-23	3535021
13-12	3535010	25-24	3535022
14-13	3535011	26-25	3535023
15-14	3535012		

Caratteristiche

Pinza elastica ad alta precisione di ricambio per mandrino ETS.

Characteristics

Rechange collet of high precision for ETS chuck.



Ghiera per serraggio pinza elastica

Nuts for collets.

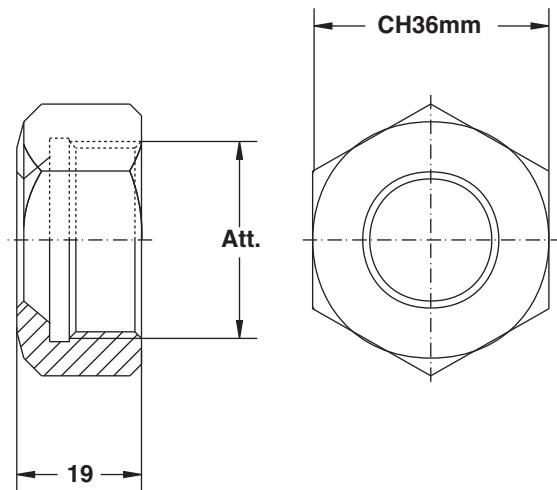
Écrons pour pinces.

Überwurfmutter für Spannzange.

Tuerca para pinzas.

3522

Att.	ID nr. DX	ID nr. SX
M30x1,5	3522001	3522002



Caratteristiche

Ricambio per ART. 3515-7044.

Characteristics

Spare parts for ART. 3515-7044.

Ghiera per serraggio pinza ER32.

Nuts for collets ER32.

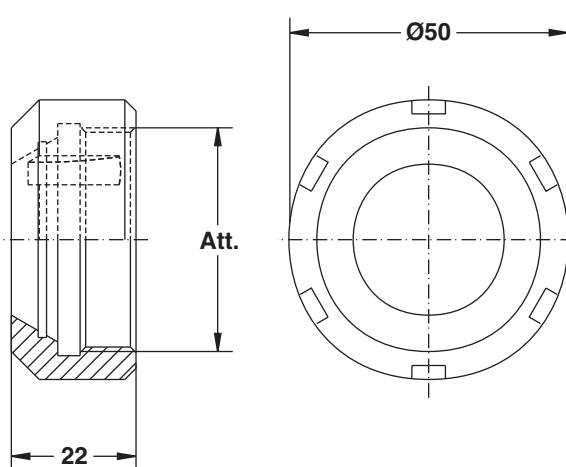
Écrons pour pinces ER32.

Überwurfmutter für Spannzange ER32.

Tuerca para pinzas ER32.

3523

Att.	ID nr. DX	ID nr. SX
M40x1,5	3523001	3523002



Caratteristiche

Ricambio per ART. 3501-3503-3509-3512-3516-3529-3531.

Characteristics

Spare parts for ART. 3501-3503-3509-3512-3516-3529-3531.

3536



Ghiera per serraggio pinza elastica ETS32.

Nuts for collets ETS32.

Écrons pour pinces ETS32.

Überwurfmutter für Spannzange ETS32.

Tuerca para pinzas ETS32.

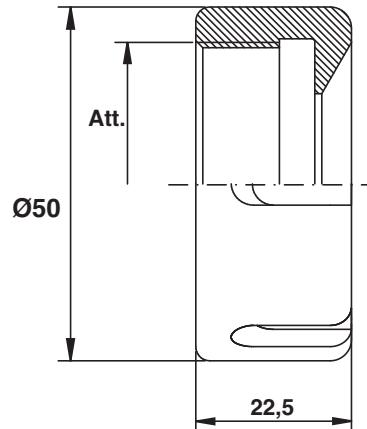
Att.	ID nr. DX	ID nr. SX
M40x1,5	3536 001	3536 002

Caratteristiche

Ricambio per mandrini ETS.

Characteristics

Spare parts for chuck ETS.



3537



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

Caratteristiche

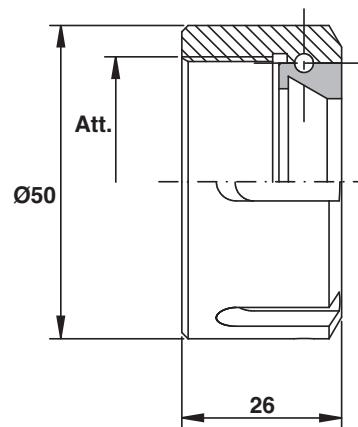
Ricambio per

ART. 3501-3503-3509-3512-3516-3529-3531.

Characteristics

Spare parts for

ART. 3501-3503-3509-3512-3516-3529-3531.



Ghiera per serraggio pinza ER40.

Nuts for collets ER40.

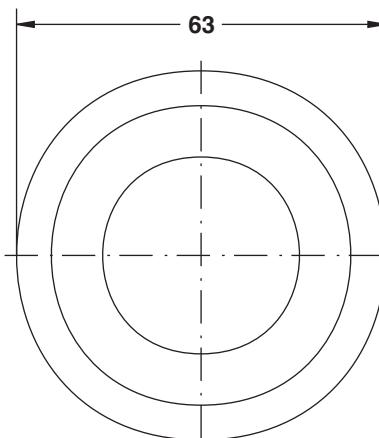
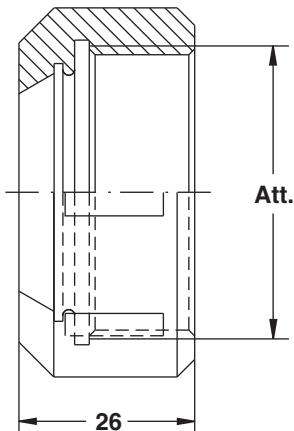
Écrons pour pinces ER40.

Überwurfmutter für Spannzange ER40.

Tuerca para pinzas ER40.

3524

Att.	ID nr. DX	ID nr. SX
M50x1,5	3524001	3524002



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.

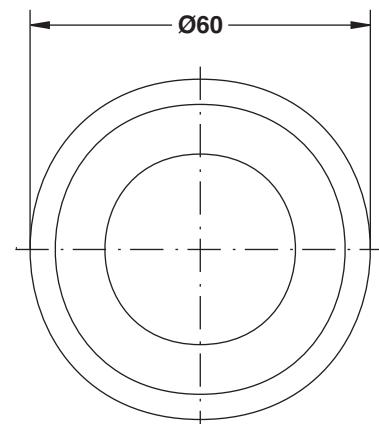
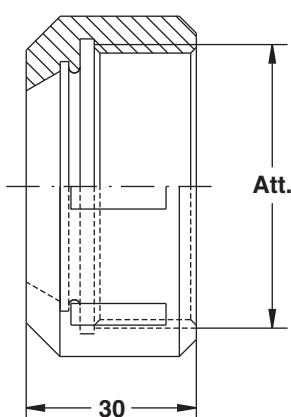
Écrons pour pinces GRS25.

Überwurfmutter für Spannzange GRS25.

Tuerca para pinzas GRS25.

3525

Att.	ID nr. DX
M48x2	3525001



Caratteristiche

Ricambio per ART. 3502.

Characteristics

Spare parts for ART. 3502.

3538



Ghiera per serraggio pinza elastica ETS40.

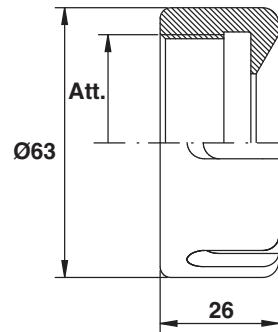
Nuts for collets ETS40.

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



Caratteristiche

Ricambio per mandrini ETS.

Characteristics

Spare parts for chuck ETS.

3539



Ghiera a sfere per serraggio pinza ER40.

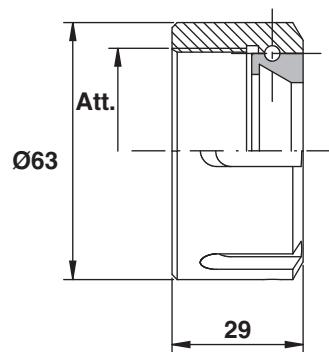
Ballpoints nut for collets ER40.

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



Caratteristiche

Ricambio per ART. 3504-3510-3530-3532.

Characteristics

Spare parts for ART. 3504-3510-3530-3532.

Dadi di fissaggio per pantografo.

Nuts for pantograph.

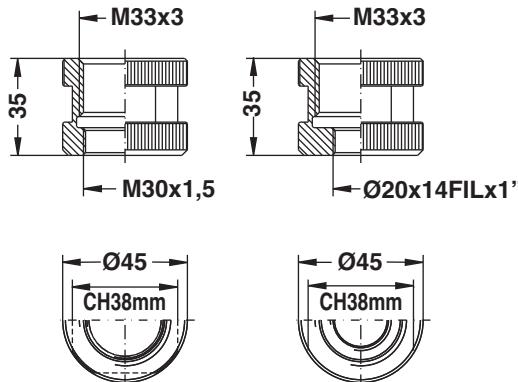
Écrous pour mandrin pour défonceuse.

Überwurfmutter für die Oberfräsmaschine.

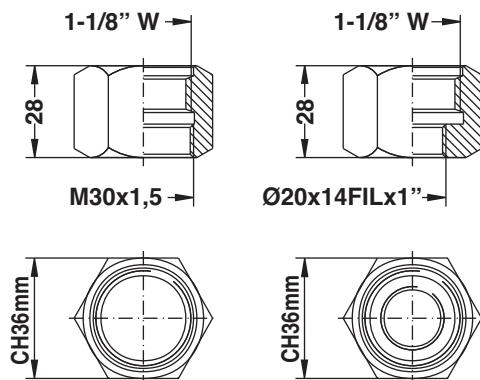
Tueras para fresadoras.

3526

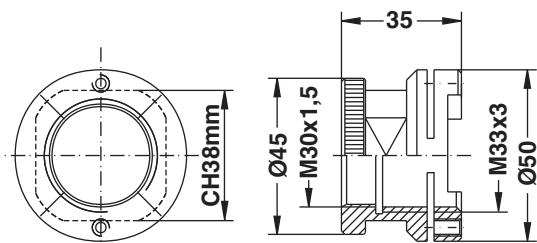
Att. MACCHINA	Att. UTENSILE	ID nr. DX	ID nr. SX
M33x3	Ø20x14FILx1"	3526001	3526002
M33x3	M30x1,5	3526003	3526004



Att. MACCHINA	Att. UTENSILE	ID nr. DX	ID nr. SX
1-1/8"W	Ø20x14FILx1"	3526011	-
1-1/8"W	M30x1,5	3526013	3526014



Att. MACCHINA	Att. UTENSILE	ID nr.
M33x3"DX"	M30x1,5"SX"	3526021



Caratteristiche

Dado di fissaggio utensile su macchina.

Characteristics

Nuts for centric chucks on machine.



Caratteristiche

Dado di fissaggio utensile su macchina.

Characteristics

Nuts for centric chucks on machine.



Caratteristiche

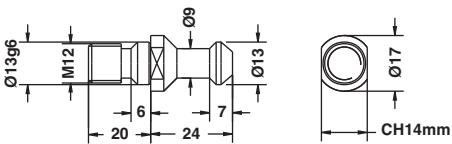
Dado di fissaggio utensile su macchina.

Characteristics

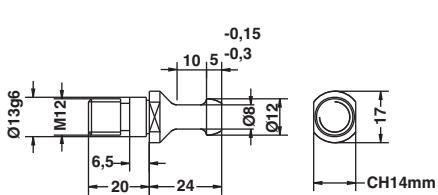
Nuts for centric chucks on machine.

3527

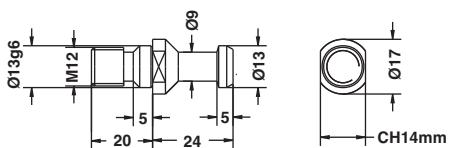
Tiranti per mandrini ISO.
Terminal pin for chuck ISO.
 Tirant pour mandrin ISO.
Spannstange für Spannfutter ISO.
 Tirantes para mandriles ISO.



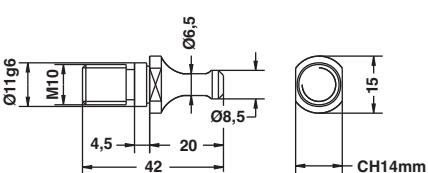
Att. MACCHINA	TIPO	ID nr.
Masterwood (motori G.C.) Alberti	A	3527001



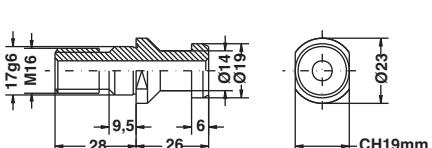
Att. MACCHINA	TIPO	ID nr.
Masterwood (motori HSD) Biesse	B	3527002



Att. MACCHINA	TIPO	ID nr.
Busellato - Bulleri IMA - Cosmec - ESSETEAM	C	3527003



Att. MACCHINA	TIPO	ID nr.
Morbidelli - SCM	D	3527004

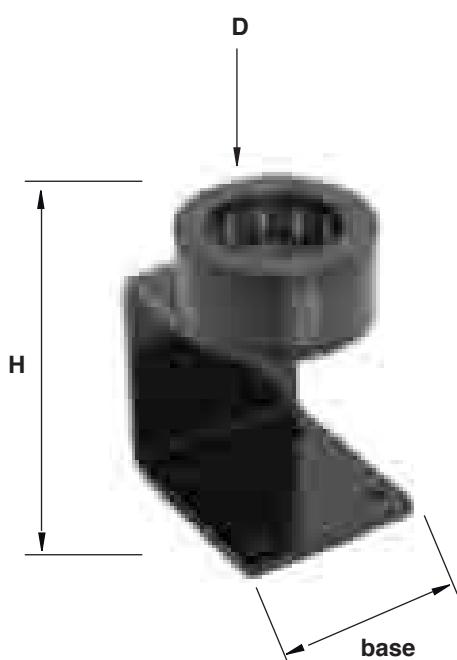


Att. MACCHINA	TIPO	ID nr.
Bulleri	E	3527005

Smontaconi a rulli universale.
Clamping device with roller bearing.
 Support d'assemblage à rouleaux.
Montage-hilfe mit rollen.
 Desarmaconos universal a rodillos.

3542

D	H	BASE	ID nr.
63	160	100	3542001



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.

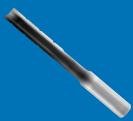


Evolved**Experience**



Punte Drills

Punte Drills



Punte per mortasare

Mortising drills

P 275



Punte foratrici

Boring Drills

P 280



Punte per cavatrici

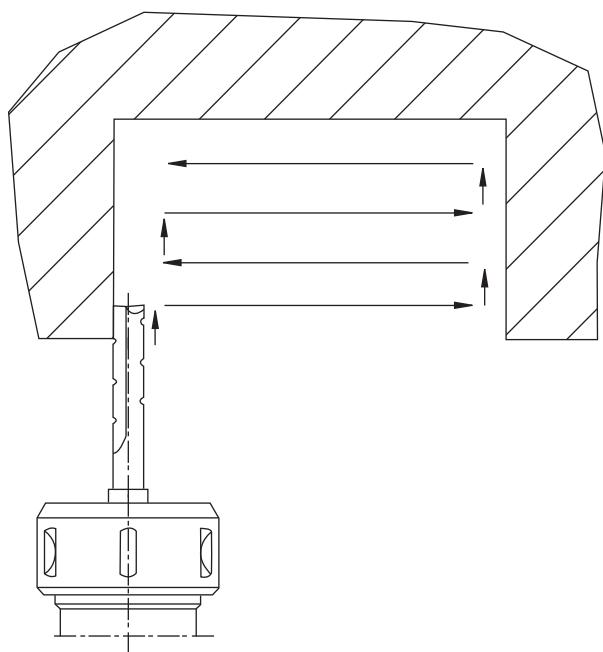
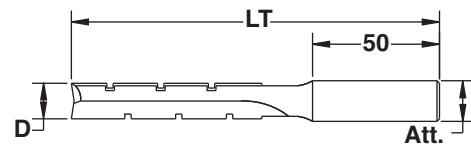
Drills for T-slotting

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 brisecopeau.
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

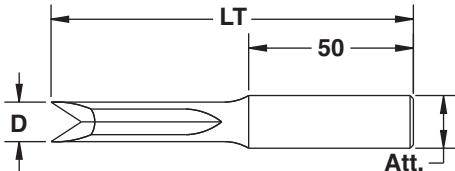
Punte per mortasare a taglienti diritti AMBIDESTRI Z2 in KSS.

Mortise tips with AMBIDEXTER teeth Z2 in KSS.

Mèches à mortaiser à taillants AMBIDEXTER Z2 en KSS.

Pendelschlitzbohrer Z2 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z2.



MAN



Att.	D	LT	ID nr.
Ø16x50	6	100	4003001
Ø16x50	7	100	4003002
Ø16x50	8	100	4003003
Ø16x50	9	100	4003004
Ø16x50	10	110	4003005
Ø16x50	11	110	4003006
Ø16x50	12	110	4003007
Ø16x50	13	110	4003008
Ø16x50	14	110	4003009
Ø16x50	15	110	4003010
Ø16x50	16	110	4003011
Ø16x50	17	110	4003012
Ø16x50	18	110	4003013
Ø16x50	19	110	4003014
Ø16x50	20	110	4003015

4004

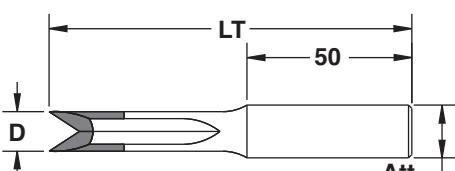
Punte per mortasare a taglienti diritti AMBIDESTRI Z2 in HM.

Mortise tips with AMBIDEXTER teeth Z2 in HM.

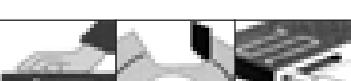
Mèches à mortaiser à taillants AMBIDEXTER Z2 en HM.

Pendelschlitzbohrer Z2 zu HM.

Brocas en HM con cuchillas BILATERALES para escoplear Z2.



MAN



Att.	D	LT	ID nr.
Ø16x50	6	100	4004001
Ø16x50	7	100	4004002
Ø16x50	8	100	4004003
Ø16x50	9	100	4004004
Ø16x50	10	110	4004005
Ø16x50	11	110	4004006
Ø16x50	12	110	4004007
Ø16x50	13	110	4004008
Ø16x50	14	110	4004009
Ø16x50	15	110	4004010
Ø16x50	16	110	4004011
Ø16x50	17	110	4004012
Ø16x50	18	110	4004013
Ø16x50	19	110	4004014
Ø16x50	20	110	4004015

Punte per mortasare a taglienti diritti AMBIDESTRI Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z4 in KSS.

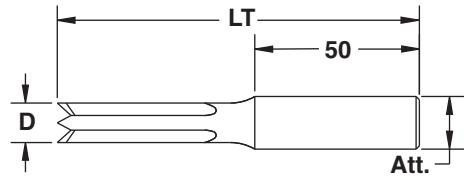
Mèches à mortaiser à taillants AMBIDEXTER Z4 en KSS.

Pendelschlitzbohrer Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z4.

4005

Att.	D	LT	ID nr.
Ø13x50	6	100	4005001
Ø13x50	7	100	4005002
Ø13x50	8	100	4005003
Ø13x50	9	100	4005004
Ø13x50	10	110	4005005
Ø13x50	11	110	4005006
Ø13x50	12	110	4005007
Ø13x50	13	110	4005008
Ø13x50	14	110	4005009
Ø13x50	15	110	4005010
Ø13x50	16	110	4005011



MAN



Punte per mortasare a taglienti diritti AMBIDESTRI Z2-Z3-Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z2-Z3-Z4 in KSS.

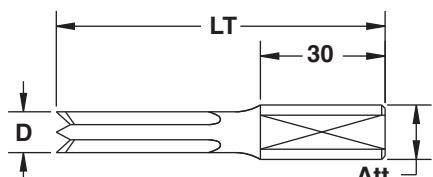
Mèches à mortaiser à taillants AMBIDEXTER Z2-Z3-Z4 en KSS.

Pendelschlitzbohrer Z2-Z3-Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z2-Z3-Z4.

4006

Att.	D	Z	LT	ID nr.
Ø12x30+pianetto	6	2	60	4006001
Ø12x30+pianetto	7	2	60	4006002
Ø12x30+pianetto	8	2	60	4006003
Ø12x30+pianetto	9	2	60	4006004
Ø12x30+pianetto	10	3	60	4006005
Ø12x30+pianetto	11	4	60	4006006
Ø12x30+pianetto	12	4	60	4006007
Ø12x30+pianetto	13	4	60	4006008
Ø12x30+pianetto	14	4	60	4006009
Ø12x30+pianetto	15	4	60	4006010
Ø12x30+pianetto	16	4	60	4006011



MAN



4007

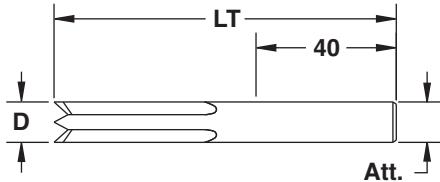
Punte per mortasare a taglienti diritti AMBIDESTRI Z4 in KSS.

Mortise tips with AMBIDEXTER teeth Z4 in KSS.

Mèches à mortaiser à taillants AMBIDEXTER Z4 en KSS.

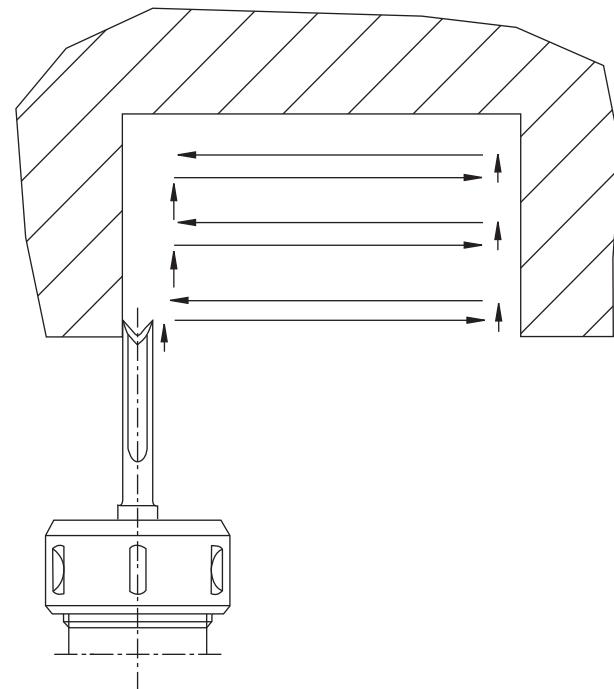
Pendelschlitzbohrer Z4 zu KSS.

Brocas en KSS con cuchillas BILATERALES para escoplear Z4.



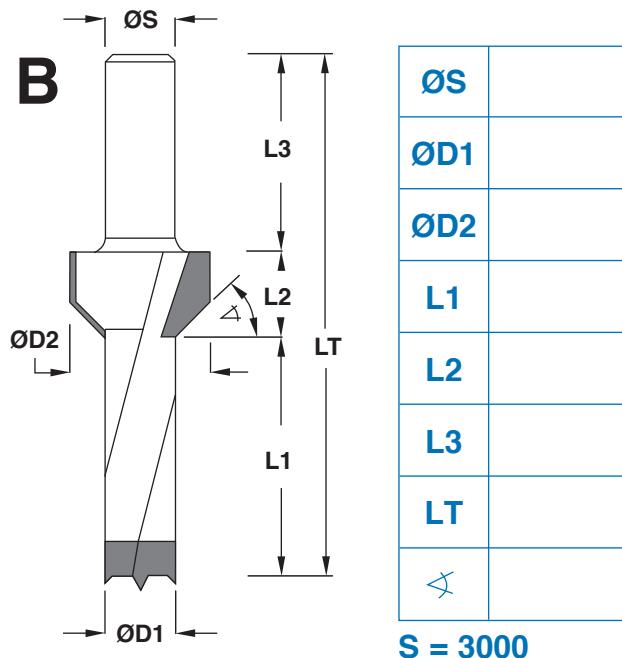
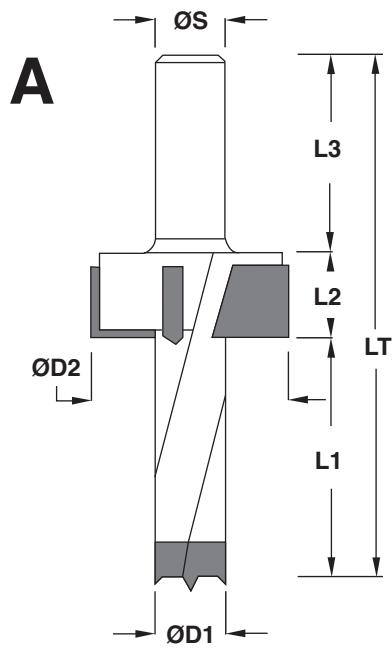
Att.	D	LT	ID nr.
Ø10x40	6	73	4007 001
Ø10x40	7	73	4007 002
Ø10x40	8	73	4007 003
Ø10x40	9	73	4007 004
Ø10x40	10	73	4007 005
Ø10x40	11	73	4007 006
Ø10x40	12	73	4007 007
Ø10x40	13	73	4007 008
Ø10x40	14	73	4007 009
Ø10x40	15	73	4007 010
Ø10x40	16	73	4007 011

MAN

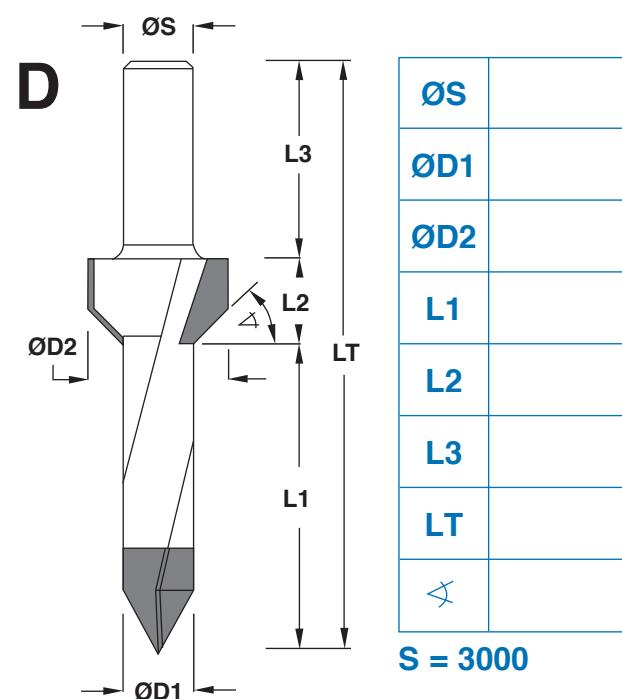
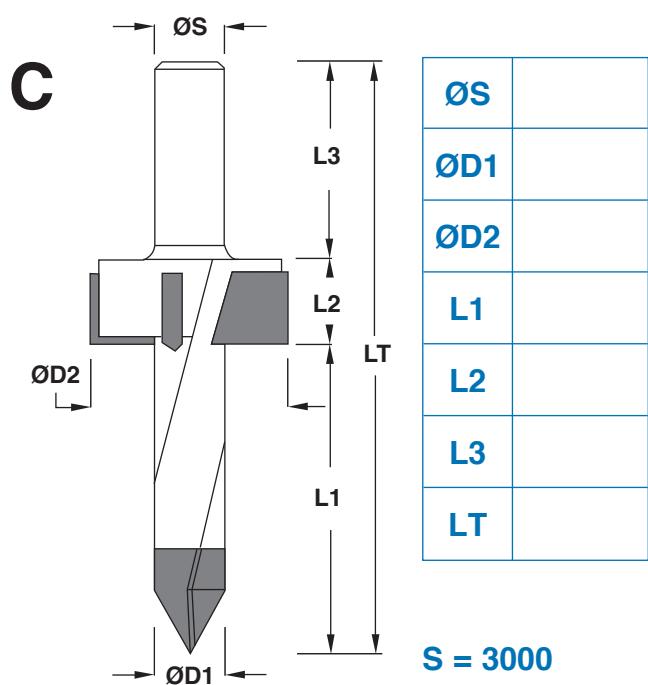


Punte per doppi fori in HM.
Double diameter drills in HM.
 Meches à deux diamètres en HM.
Stufenbohrer zu HM.
 Brocas en HM para agujeros dobles.

4011

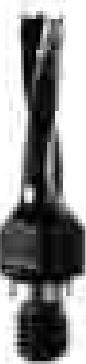


PREZZO A PREVENTIVO / PRICE TO ESTIMATE



4012

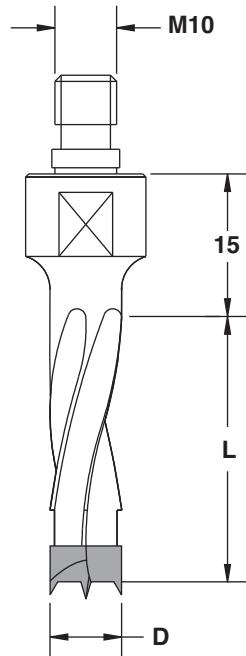
Punte spinatrici senza svasatore in HM.
Dowel drills without countersink in HM.
 Mèches sans fraiseur en HM.
Dübelbohrer ohne Senkeransatz zu HM.
 Brocas en HM sin avellanador para fresaoras.



MAN

D	L	ID nr. DX	ID nr. SX
5	30	4012001	4012002
6	30	4012003	4012004
8	30	4012005	4012006
10	30	4012007	4012008
12	30	4012009	4012010
14	30	4012011	4012012
5	40	4012013	4012014
6	40	4012015	4012016
8	40	4012017	4012018
10	40	4012019	4012020
12	40	4012021	4012022
14	40	4012023	4012024
5	50	4012025	4012026
6	50	4012027	4012028
8	50	4012029	4012030
10	50	4012031	4012032
12	50	4012033	4012034
14	50	4012035	4012036

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)

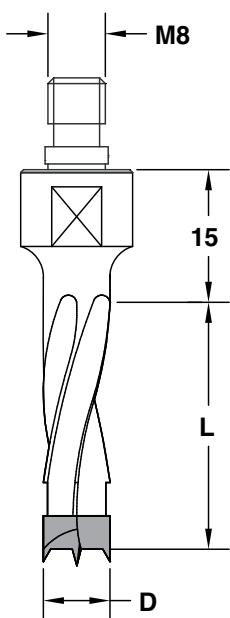


Punte spinatrici senza svasatore in HM.
Dowel drill without countersink in HM.
 Mèches sans fraiseur en HM.
Dübelbohrer ohne Senkeransatz zu HM.
 Brocas en HM sin avellanador para fresadoras.

4066

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



MAN



4013

Punte spinatrici senza svasatore in HM.
Dowel drills without countersink in HM.
 Mèches sans fraiseur en HM.
Dübelbohrer ohne Senkeransatz zu HM.
 Brocas en HM sin avellanador para fresaoras.

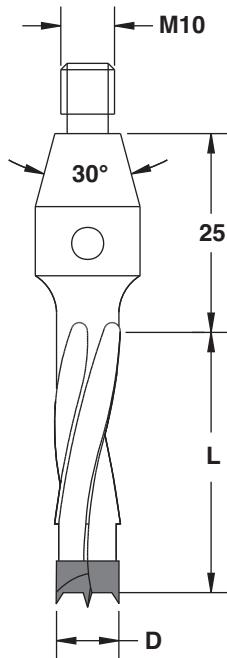


MAN



D	L	ID nr. DX	ID nr. SX
5	30	4013001	4013002
6	30	4013003	4013004
8	30	4013005	4013006
10	30	4013007	4013008
12	30	4013009	4013010
14	30	4013011	4013012
5	40	4013013	4013014
6	40	4013015	4013016
8	40	4013017	4013018
10	40	4013019	4013020
12	40	4013021	4013022
14	40	4013023	4013024
5	50	4013025	4013026
6	50	4013027	4013028
8	50	4013029	4013030
10	50	4013031	4013032
12	50	4013033	4013034
14	50	4013035	4013036

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 fraiseur en HM.

Lochreihenbohrer zum Einsatz für Durchgangsbohrung ohne Senkeransatz HM.

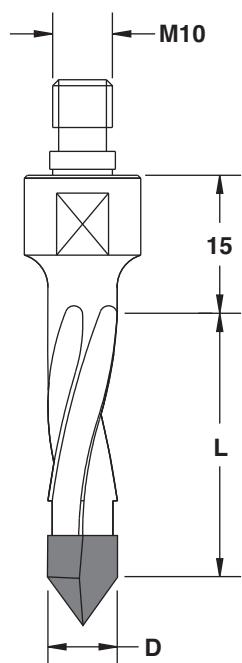
Brocas en HM para fresadoras sin avellanador para la realización de agujeros pasantes.

4014

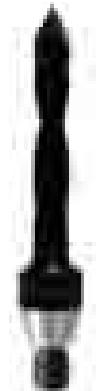
D	L	ID nr. DX	ID nr. SX
5	30	4014001	4014002
6	30	4014003	4014004
7	30	4014005	4014006
8	30	4014007	4014008
9	30	4014009	4014010
10	30	4014011	4014012
11	30	4014013	4014014
12	30	4014015	4014016
5	40	4014017	4014018
6	40	4014019	4014020
7	40	4014021	4014022
8	40	4014023	4014024
9	40	4014025	4014026
10	40	4014027	4014028
11	40	4014029	4014030
12	40	4014031	4014032
5	50	4014033	4014034
6	50	4014035	4014036
7	50	4014037	4014038
8	50	4014039	4014040
9	50	4014041	4014042
10	50	4014043	4014044
11	50	4014045	4014046
12	50	4014047	4014048

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.

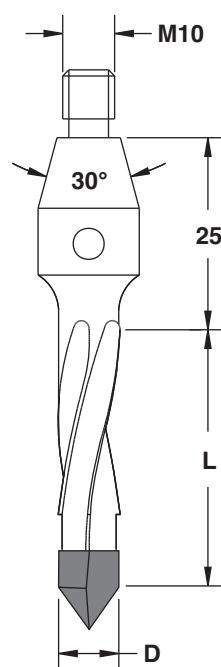
MAN



D	L	ID nr. DX	ID nr. SX
5	30	4015001	4015002
6	30	4015003	4015004
7	30	4015005	4015006
8	30	4015007	4015008
9	30	4015009	4015010
10	30	4015011	4015012
11	30	4015013	4015014
12	30	4015015	4015016
5	40	4015017	4015018
6	40	4015019	4015020
7	40	4015021	4015022
8	40	4015023	4015024
9	40	4015025	4015026
10	40	4015027	4015028
11	40	4015029	4015030
12	40	4015031	4015032
5	50	4015033	4015034
6	50	4015035	4015036
7	50	4015037	4015038
8	50	4015039	4015040
9	50	4015041	4015042
10	50	4015043	4015044
11	50	4015045	4015046
12	50	4015047	4015048

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.

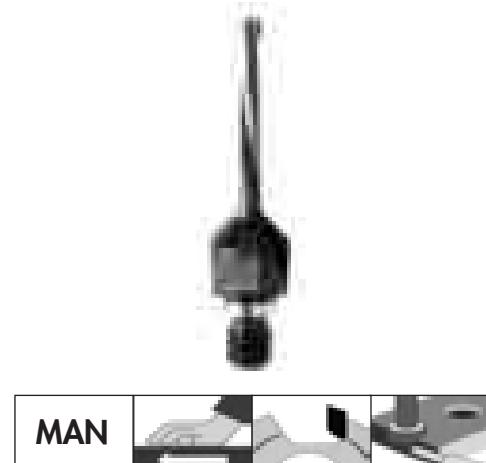
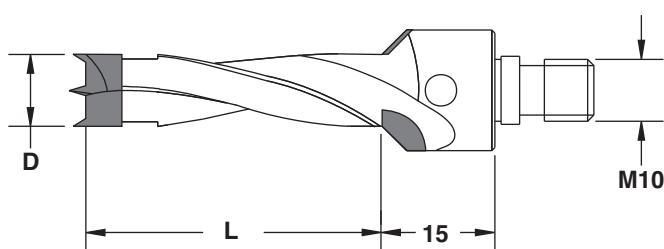
Brocas en HM con avellanador para fresadoras.

4016

D	L	ID nr. DX	ID nr. SX
5	30	4016001	4016002
6	30	4016003	4016004
7	30	4016005	4016006
8	30	4016007	4016008
9	30	4016009	4016010
10	30	4016011	4016012
11	30	4016013	4016014
12	30	4016015	4016016
13	30	4016017	4016018
14	30	4016019	4016020
15	30	4016021	4016022
16	30	4016023	4016024
5	40	4016025	4016026
6	40	4016027	4016028
7	40	4016029	4016030
8	40	4016031	4016032
9	40	4016033	4016034
10	40	4016035	4016036
11	40	4016037	4016038
12	40	4016039	4016040
13	40	4016041	4016042
14	40	4016043	4016044
15	40	4016045	4016046
16	40	4016047	4016048
5	50	4016049	4016050
6	50	4016051	4016052
7	50	4016053	4016054
8	50	4016055	4016056
9	50	4016057	4016058
10	50	4016059	4016060
11	50	4016061	4016062
12	50	4016063	4016064
13	50	4016065	4016066
14	50	4016067	4016068
15	50	4016069	4016070
16	50	4016071	4016072

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)

Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



4017

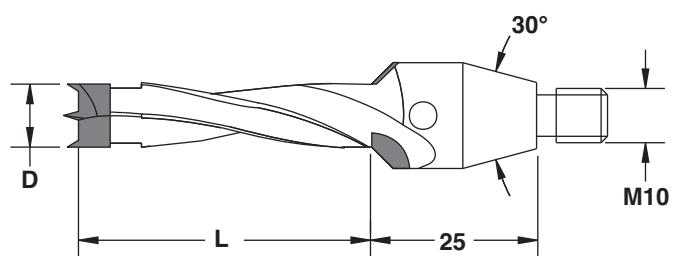
Punte spinatrici con svasatore in HM.
Dowel drills with countersink in HM.
 Mèches avec fraiseur en HM.
Dübelbohrer mit Senkeransatz zu HM.
 Brocas en HM con avellanador para fresadoras.



MAN

D	L	ID nr. DX	ID nr. SX
5	30	4017001	4017002
6	30	4017003	4017004
7	30	4017005	4017006
8	30	4017007	4017008
9	30	4017009	4017010
10	30	4017011	4017012
11	30	4017013	4017014
12	30	4017015	4017016
13	30	4017017	4017018
14	30	4017019	4017020
15	30	4017021	4017022
16	30	4017023	4017024
5	40	4017025	4017026
6	40	4017027	4017028
7	40	4017029	4017030
8	40	4017031	4017032
9	40	4017033	4017034
10	40	4017035	4017036
11	40	4017037	4017038
12	40	4017039	4017040
13	40	4017041	4017042
14	40	4017043	4017044
15	40	4017045	4017046
16	40	4017047	4017048
5	50	4017049	4017050
6	50	4017051	4017052
7	50	4017053	4017054
8	50	4017055	4017056
9	50	4017057	4017058
10	50	4017059	4017060
11	50	4017061	4017062
12	50	4017063	4017064
13	50	4017065	4017066
14	50	4017067	4017068
15	50	4017069	4017070
16	50	4017071	4017072

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.

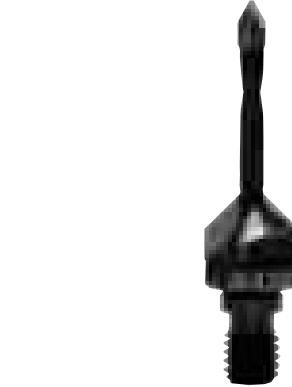
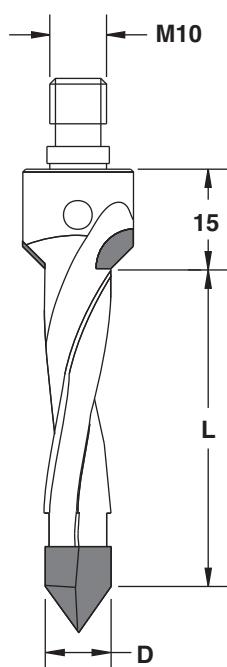
Brocas en HM para fresadoras con avellanador para la realización de agujeros pasantes.

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)



MAN



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.

Lochreihenbohrer zum Einsatz für Durchgangsbohrung mit Senkeransatz HM.

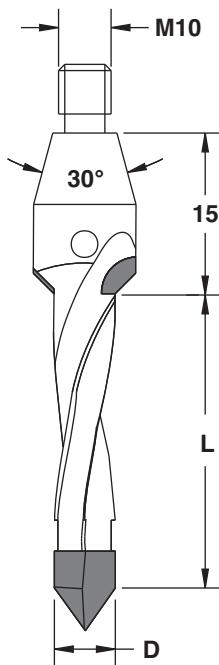
Brocas en HM para fresadoras con avellanador para la realización de agujeros pasantes.



MAN

D	L	ID nr. DX	ID nr. SX
5	30	4019001	4019002
6	30	4019003	4019004
7	30	4019005	4019006
8	30	4019007	4019008
9	30	4019009	4019010
10	30	4019011	4019012
11	30	4019013	4019014
12	30	4019015	4019016
5	40	4019017	4019018
6	40	4019019	4019020
7	40	4019021	4019022
8	40	4019023	4019024
9	40	4019025	4019026
10	40	4019027	4019028
11	40	4019029	4019030
12	40	4019031	4019032
5	50	4019033	4019034
6	50	4019035	4019036
7	50	4019037	4019038
8	50	4019039	4019040
9	50	4019041	4019042
10	50	4019043	4019044
11	50	4019045	4019046
12	50	4019047	4019048

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)

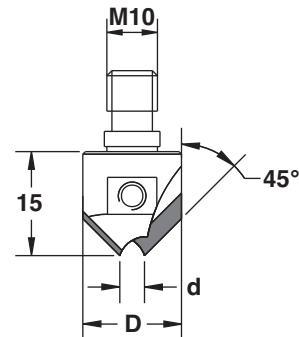


Svasatore porta-punta Z2 in HM.
Countersink cutterhead Z2 in HM.
 Fraisoir porte-mèche Z2 en HM.
Senker oder Bohreraufnahmen Z2 zu HM.
 Avellanador portabrocas en HM Z2.

4020

d	D	ID nr. DX	ID nr. SX
3	16	4020001	4020002
3,5	16	4020003	4020004
4	16	4020005	4020006
4,5	16	4020007	4020008
5	16	4020009	4020010
5,5	16	4020011	4020012

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



MAN

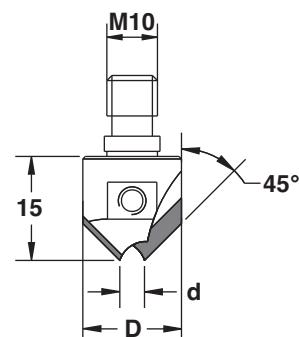


Svasatore porta-punta Z2 in HM.
Countersink cutterhead Z2 in HM.
 Fraisoir porte-mèche Z2 en HM.
Senker oder Bohreraufnahmen Z2 zu HM.
 Avellanador portabrocas en HM Z2.

4021

d	D	ID nr. DX	ID nr. SX
3	16	4021001	4021002
3,5	16	4021003	4021004
4	16	4021005	4021006
4,5	16	4021007	4021008
5	16	4021009	4021010
5,5	16	4021011	4021012

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)

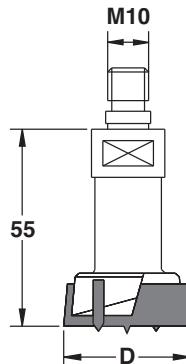


MAN



4022

Punte levanodi 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.



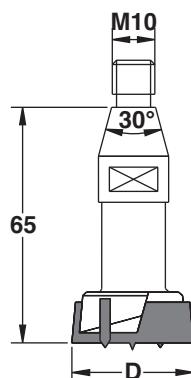
D	ID nr. DX	ID nr. SX
20	4022001	4022002
25	4022003	4022004
26	4022005	4022006
30	4022007	4022008
35	4022009	4022010
40	4022011	4022012

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Vitap (nuova esecuzione)
 Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Vitap (new execution)



4023

Punte levanodi 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	4023001	4023002
25	4023003	4023004
26	4023005	4023006
30	4023007	4023008
35	4023009	4023010
40	4023011	4023012

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
 Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Mandrini 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

4024001

4024002

Vite di fissaggio M6x6

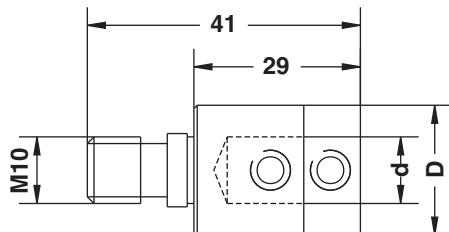
9546024

Chiave esagonale 3mm

9548003

Attacco per macchine: Morbidelli, Biesse, Reimall, Weeke, Masterwood,
Vitap (nuova esecuzione)

Shank for machines: Morbidelli, Biesse, Reimall, Weeke, Masterwood,
Vitap (new execution)



Mandrini per punte componibili.

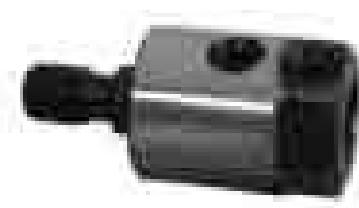
Reducing chucks for dowel drills.

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

4025001

4025002

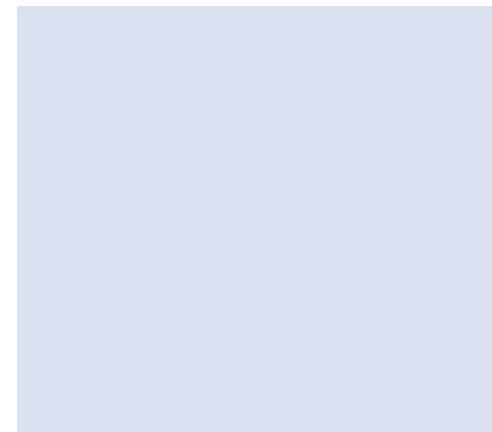
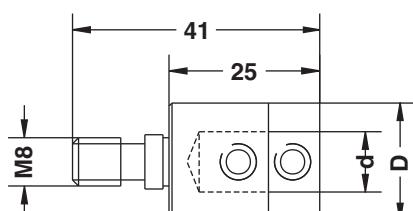
Vite di fissaggio M6x6

9546024

Chiave esagonale 3mm

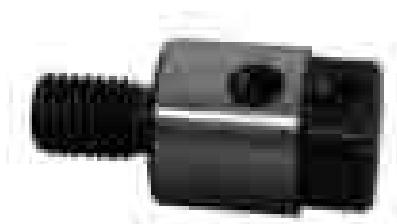
9548003

Attacco per macchine: Morbidelli, Masterwood, Nottemeyer (nuova esecuzione)
Shank for machines: Morbidelli, Masterwood, Nottemeyer (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.

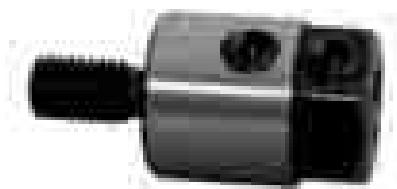


d	D	ID nr. DX	ID nr. SX
10	19,5	4026001	4026002
Vite di fissaggio M6x6	-	9546024	
Chiave esagonale 3mm	-	9548003	

Attacco per macchine: Ayen, Torwegge, Holzma, Mayer, Knoevenagel
 Shank for machines: Ayen, Torwegge, Holzma, Mayer, Knoevenagel

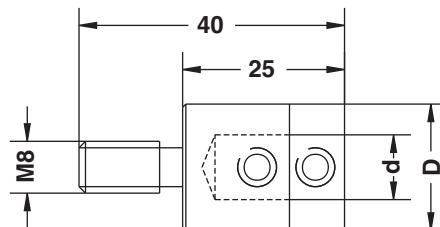
4027

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	4027001	4027002
Vite di fissaggio M6x6	-	9546024	
Chiave esagonale 3mm	-	9548003	

Attacco per macchine: Nottemeyer (precedente esecuzione)
 Shank for machines: Nottemeyer (old execution)



Mandrini per punte componibili.

Reducing chucks for dowel drills.

Mandrins pour meches à tourillons.

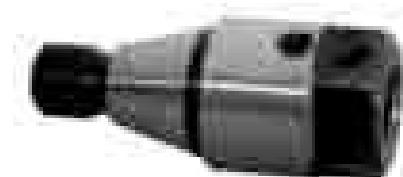
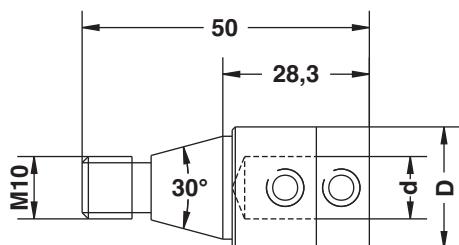
Reduzierungsfutter für Kombi-Dübelbohrer.

Mandriles para brocas componibles.

4028

d	D	ID nr. DX	ID nr. SX
10	19,5	4028001	4028002
Vite di fissaggio M6x6	-	9546024	
Chiave esagonale 3mm	-	9548003	

Attacco per macchine: Vitap, Ompec, Balestrini, Busellato (precedente esecuzione)
Shank for machines: Vitap, Ompec, Balestrini, Busellato (old execution)



Mandrini per punte componibili.

Reducing chucks for dowel drills.

Mandrins pour meches à tourillons.

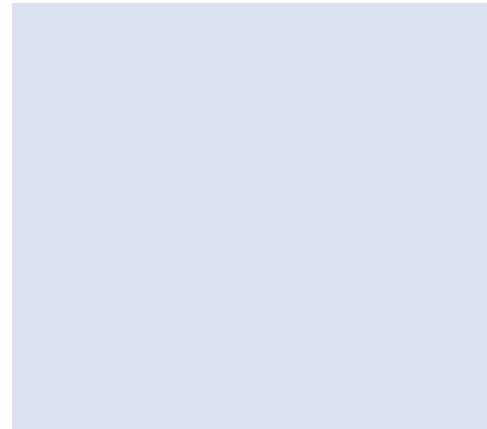
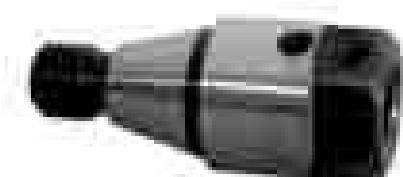
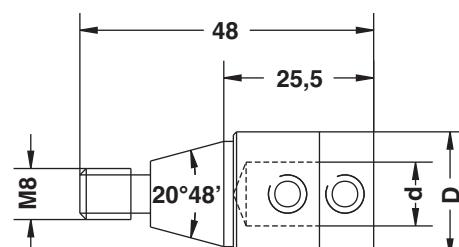
Reduzierungsfutter für Kombi-Dübelbohrer.

Mandriles para brocas componibles.

4029

d	D	ID nr. DX	ID nr. SX
10	19,5	4029001	4029002
Vite di fissaggio M6x6	-	9546024	
Chiave esagonale 3mm	-	9548003	

Attacco per macchine: Bilek, Balestrini
Shank for machines: Bilek, Balestrini



4057

Adattatori "ATTACCO RAPIDO" per macchine con ATTACCO A VITE.

Adapter "QUICK SHANK" for machines with SHANK ON SCREW.

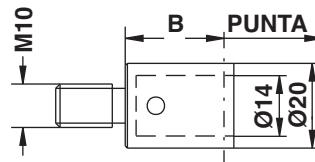
Adaptateur "ATTAQUE RAPIDE" pour machines avec ATTAQUE À VIS.

Anpassungsgerät "SCHNELL VERBINDUNG" für Maschine mit VERBINDUNG SCHRAUBE.

Ajuste "MANGO RÁPIDO" para máquinas con MANGO A TORNILLO.

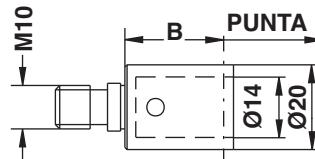
Per macchine/For machines: AYEN, HOLZMA

B	ID nr. DX	ID nr. SX
22,5	4057001	4057002



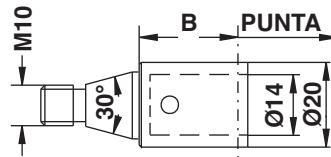
Per macchine/For machines: MORBIDELLI, BIESSE, WEEKE, BUSSELLATO, TORWEGGE

B	ID nr. DX	ID nr. SX
22,5	4057003	4057004



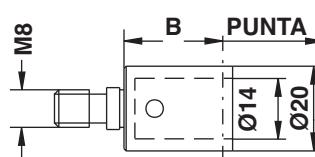
Per macchine/For machines: VITAP, ALBERTI

B	ID nr. DX	ID nr. SX
22,5	4057005	4057006



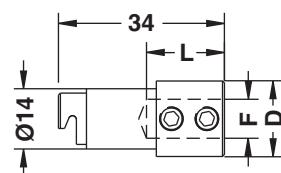
Per macchine/For machines: NOTTEMAYER

B	ID nr. DX	ID nr. SX
22,5	4057007	4057008



PORTE PUNTA/CARRYING DRILL

F	D	L	ID nr.
10	18	17,5	4057011

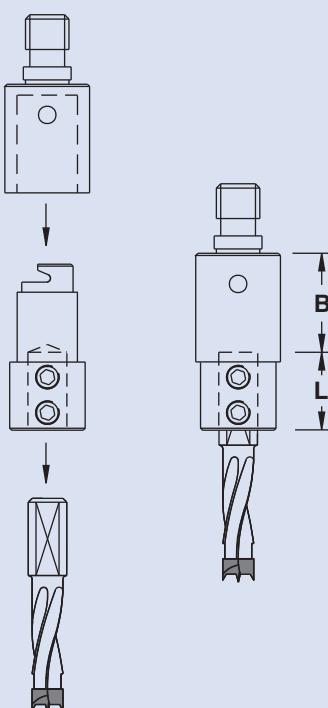


Caratteristiche

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".

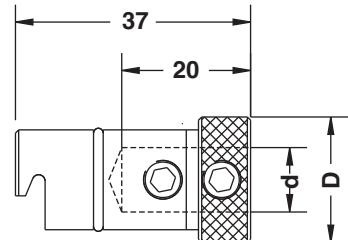
Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" BIESSE.

Reduzierfutter für Kombi-Dübelbohrere mit BIESSE "VERBINDUNGSSTÜCK".

Mandril para brocas componibles con "MANGO RÁPIDO" tipo BIESSE.

4030

d	D	ID nr.
10	20	4030001
Vite di fissaggio M6x6	-	9546024
Chiave esagonale 3mm	-	9548003



Mandrini per punte componibili per "ATTACCO RAPIDO" MASTERWOOD, MAGGI, GRIGGIO.

Reducing chucks for dowel drills with MASTERWOOD, MAGGI, GRIGGIO "QUICK SHANK".

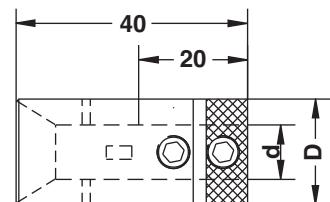
Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" MASTERWOOD, MAGGI, GRIGGIO.

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	4058001
Vite di fissaggio M6x6	-	9546024
Chiave esagonale 3mm	-	9548003



Mandrini per punte componibili per "ATTACCO RAPIDO" VITAP.

Reducing chucks for dowel drills with VITAP "QUICK SHANK".

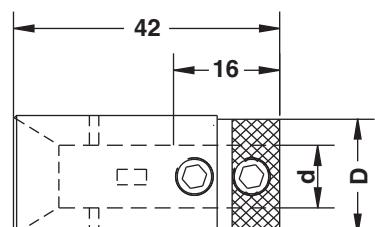
Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" VITAP.

Reduzierfutter für Kombi-Dübelbohrere mit VITAP "VERBINDUNGSSTÜCK".

Mandril para brocas componibles con "MANGO RÁPIDO" tipo VITAP.

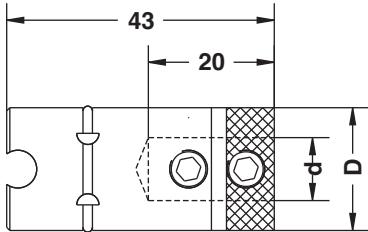
4062

d	D	ID nr.
10	18	4062001
Vite di fissaggio M6x6	-	9546024
Chiave esagonale 3mm	-	9548003



4031

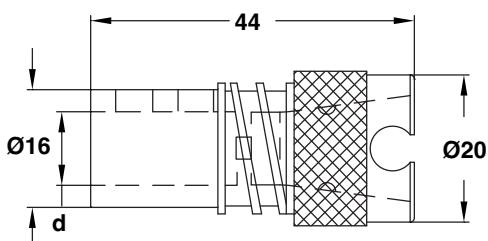
Mandrini per punte componibili per "ATTACCO RAPIDO" MORBIDELLI.
Reducing chucks for dowel drills with MORBIDELLI "QUICK SHANK".
 Mandrins pour meches à tourillons avec "ATTAQUE RAPIDE" MORBIDELLI.
Reduzierfutter für Kombi-Dübelbohrere mit MORBIDELLI "VERBINDUNGSSTÜCK".
 Mandril para brocas componibles con "MANGO RÁPIDO" tipo MORBIDELLI.



d	D	ID nr.
10	20	4031001
Vite di fissaggio M6x6	-	9546024
Chiave esagonale 3mm	-	9548003

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.

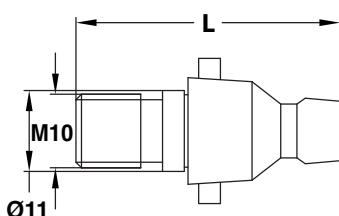


d	D	ID nr.
10	16	4067001
Vite di fissaggio M5x5	-	9546030
Chiave esagonale 2,5 mm	-	9548011

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.
 Adapteur 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.

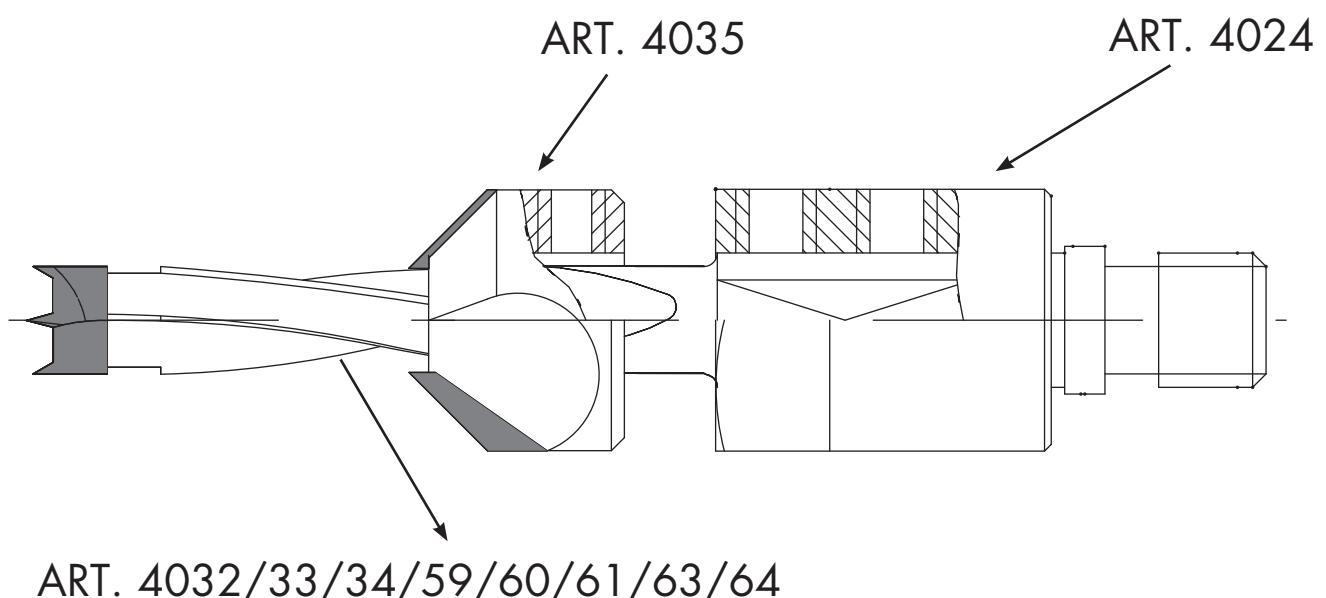


L	ID nr. DX	ID nr. SX
41	4068001	4068002

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

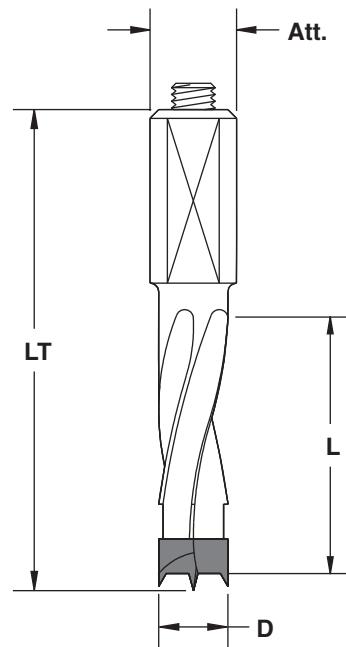
Punte componibili in HM.
Dowel drills in HM.
 Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.



Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x20*	4(5/32")	30	57,5	4032001	4032002
Ø10x20*	5	30	57,5	4032003	4032004
Ø10x20*	6	30	57,5	4032005	4032006
Ø10x20*	6,35(1/4")	30	57,5	4032007	4032008
Ø10x20*	7	30	57,5	4032009	4032010
Ø10x20*	8	30	57,5	4032011	4032012
Ø10x20*	9	30	57,5	4032013	4032014
Ø10x20*	9,5	30	57,5	4032015	4032016
Ø10x20*	10	30	57,5	4032017	4032018
Ø10x20*	11	30	57,5	4032019	4032020
Ø10x20*	12	30	57,5	4032021	4032022
Ø10x20*	12,7(1/2")	30	57,5	4032023	4032024
Ø10x20*	13	30	57,5	4032025	4032026
Ø10x20*	14	30	57,5	4032027	4032028
Ø10x20*	15	30	57,5	4032029	4032030
Ø10x20*	16	30	57,5	4032031	4032032

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



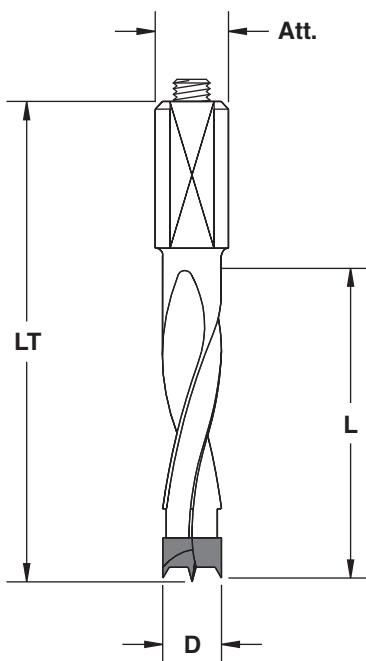
Punte componibili in HM.
Dowel drills in HM.
 Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.

4033

Att.	D	L	LT	ID nr. DX	ID nr. SX
$\varnothing 10 \times 20^*$	4(5/32")	43	70	4033 001	4033 002
$\varnothing 10 \times 20^*$	5	43	70	4033 003	4033 004
$\varnothing 10 \times 20^*$	6	43	70	4033 005	4033 006
$\varnothing 10 \times 20^*$	6,35(1/4")	43	70	4033 007	4033 008
$\varnothing 10 \times 20^*$	7	43	70	4033 009	4033 010
$\varnothing 10 \times 20^*$	8	43	70	4033 011	4033 012
$\varnothing 10 \times 20^*$	9	43	70	4033 013	4033 014
$\varnothing 10 \times 20^*$	9,5	43	70	4033 015	4033 016
$\varnothing 10 \times 20^*$	10	43	70	4033 017	4033 018
$\varnothing 10 \times 20^*$	11	43	70	4033 019	4033 020
$\varnothing 10 \times 20^*$	12	43	70	4033 021	4033 022
$\varnothing 10 \times 20^*$	12,7(1/2")	43	70	4033 023	4033 024
$\varnothing 10 \times 20^*$	13	43	70	4033 025	4033 026
$\varnothing 10 \times 20^*$	14	43	70	4033 027	4033 028
$\varnothing 10 \times 20^*$	15	43	70	4033 029	4033 030
$\varnothing 10 \times 20^*$	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".

MAN



4060

Punte componibili in HM INTEGRALE tipo "PLUS".

Dowel drills in HM INTEGRAL - "PLUS".

Mèches à tourillons en HM INTÉGRAL - "PLUS".

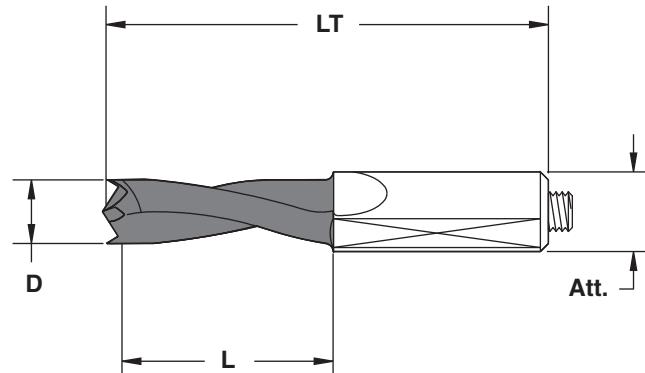
Kombi-Dübelbohrer zu HM INTEGRAL - "PLUS".

Brocas componibles en HM MACIZO tipo "PLUS".

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	3	20	57,5	4059001	4059002
Ø10x30*	4	27	57,5	4059003	4059004
Ø10x30*	5	27	57,5	4059005	4059006
Ø10x30*	6	27	57,5	4059007	4059008
Ø10x30*	8	27	57,5	4059009	4059010

*Con pianetto e vite di regolazione

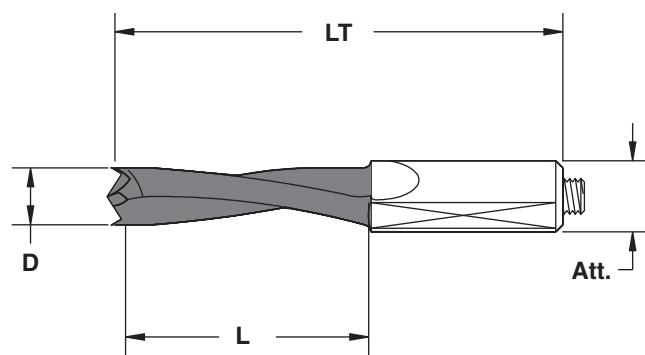
*With driving flat and lenght adjustable screw



Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	4	35	70	4060001	4060002
Ø10x30*	5	35	70	4060003	4060004
Ø10x30*	6	35	70	4060005	4060006
Ø10x30*	8	35	70	4060007	4060008

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



MAN



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".

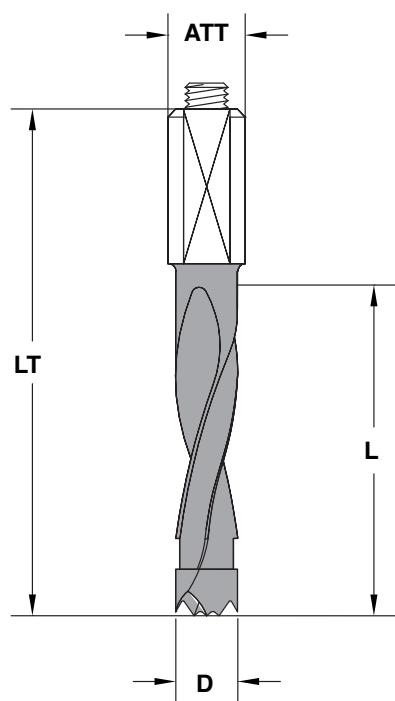
Brocas componibles en HM enchufe acero tipo "TAL-CUT".

4069

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	4	27	57,5	4069001	4069002
Ø10x30*	5	27	57,5	4069003	4069004
Ø10x30*	6	27	57,5	4069005	4069006
Ø10x30*	7	27	57,5	4069007	4069008
Ø10x30*	8	27	57,5	4069009	4069010
Ø10x30*	4	35	70	4069011	4069012
Ø10x30*	5	35	70	4069013	4069014
Ø10x30*	6	35	70	4069015	4069016
Ø10x30*	7	35	70	4069017	4069018
Ø10x30*	8	35	70	4069019	4069020

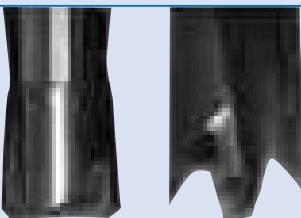
* Con pianetto e vite di regolazione

* With driving flat and lenght adjustable screw



MAN

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".

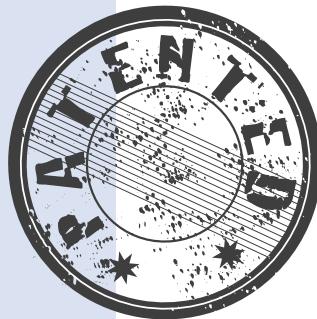
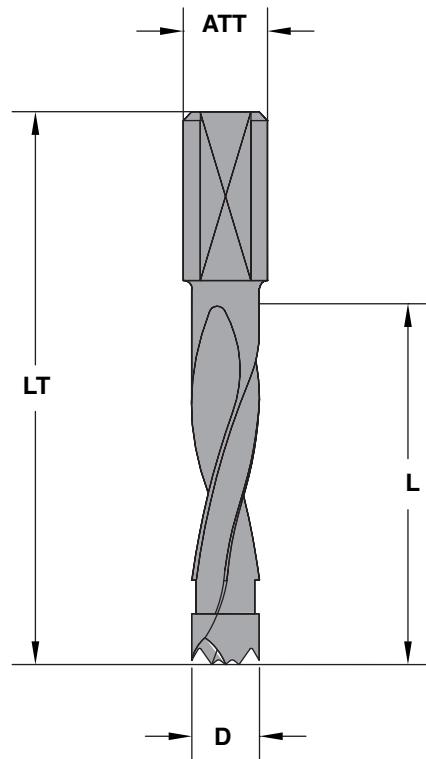
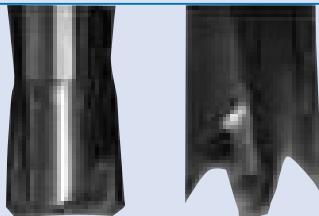


Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30	10	35	70	4070001	4070002
Ø10x30	12	35	70	4070003	4070004
Ø10x30	14	35	70	4070005	4070006
Ø10x30	16	35	70	4070007	4070008

MAN



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.

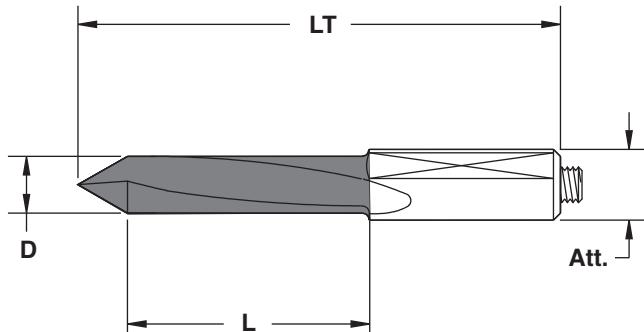
Brocas componibles con punta a lanza en HM MACIZO.

4061

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	5	35	70	4061001	4061002
Ø10x30*	6	35	70	4061003	4061004
Ø10x30*	8	35	70	4061005	4061006

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



MAN

Punte componibili per fori passanti in HM.

Through-hole drills in HM.

Mèches pour trous dépassants en HM.

Kombi-Dübelbohrer für Durchgangslöcher zu HM.

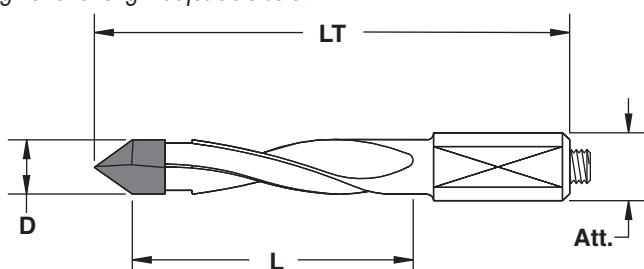
Brocas componibles en HM para la realización de agujeros pasantes.

4034

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x20*	4	40	70	4034019	4034020
Ø10x20*	5	40	70	4034001	4034002
Ø10x20*	6	40	70	4034003	4034004
Ø10x20*	6,35(1/4")	40	70	4034005	4034006
Ø10x20*	7	40	70	4034007	4034008
Ø10x20*	8	40	70	4034009	4034010
Ø10x20*	9	40	70	4034011	4034012
Ø10x20*	10	40	70	4034013	4034014
Ø10x20*	11	40	70	4034015	4034016
Ø10x20*	12	40	70	4034017	4034018

*Con pianetto e vite di regolazione

*With driving flat and length adjustable screw



MAN



4063

Punte componibili in HM INTEGRALE a lancia "SPECIAL".

"SPECIAL" through-hole drills in HM INTEGRAL.

Mèches pour trous dépassantes en HM INTÉGRAL "SPECIAL".

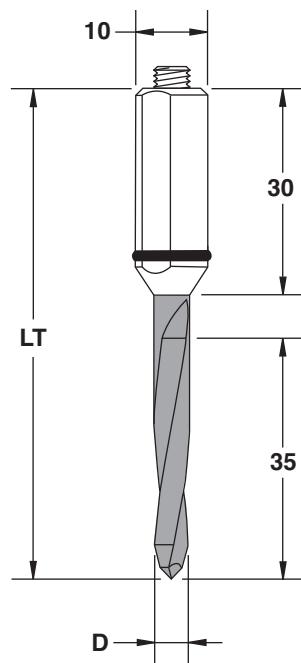
Kombi-Duebelbohrer für Durchgangslöcher zu HM INTEGRAL "SPECIAL".

Brocas componibles con punta a lanza en HM MACIZO "ESPECIAL".



D	LT	ID nr. DX	ID nr. SX
5	70	4063001	4063002
6	70	4063003	4063004
8	70	4063005	4063006

MAN



Punte componibili in HM a lancia "SPECIAL".

"SPECIAL" through-hole drills in HM.

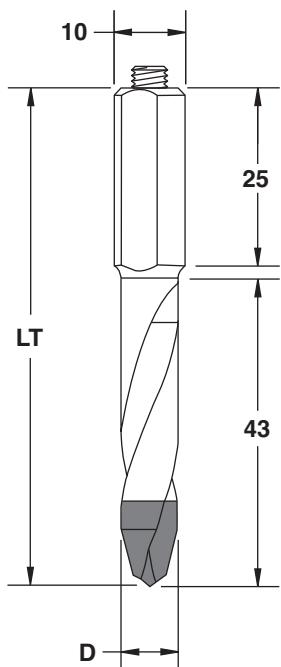
Mèches pour trous dépassantes en HM "SPECIAL".

Kombi-Duebelbohrer für Durchgangslöcher zu HM "SPEZIAL".

Brocas componibles con punta a lanza en HM "ESPECIAL".

4064

D	LT	ID nr. DX	ID nr. SX
5	70	4064001	4064002
6	70	4064003	4064004
8	70	4064005	4064006



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.



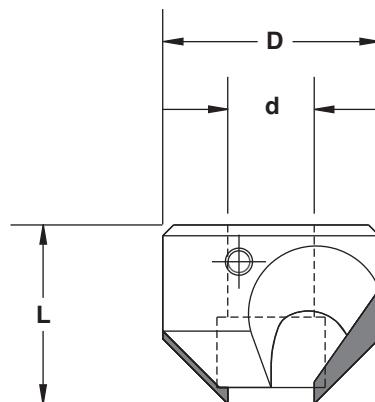
MAN



d	D	L	ID nr. DX	ID nr. SX
4(5/32")	14	12	4035001	4035002
5	14	12	4035003	4035004
6	16	14	4035005	4035006
6,35(1/4")	16	14	4035007	4035008
7	16	14	4035009	4035010
8	16	16	4035011	4035012
9	18	16	4035013	4035014
9,5	20	16	4035015	4035016
10	20	18	4035017	4035018
11	20	18	4035019	4035020
12	20	18	4035021	4035022
12,7(1/2")	20	18	4035023	4035024
13	24	18	4035025	4035026
14	24	19	4035027	4035028
15	24	19	4035029	4035030
16	24	19	4035031	4035032

Da impiegare su art. 4032 - 4033 - 4034

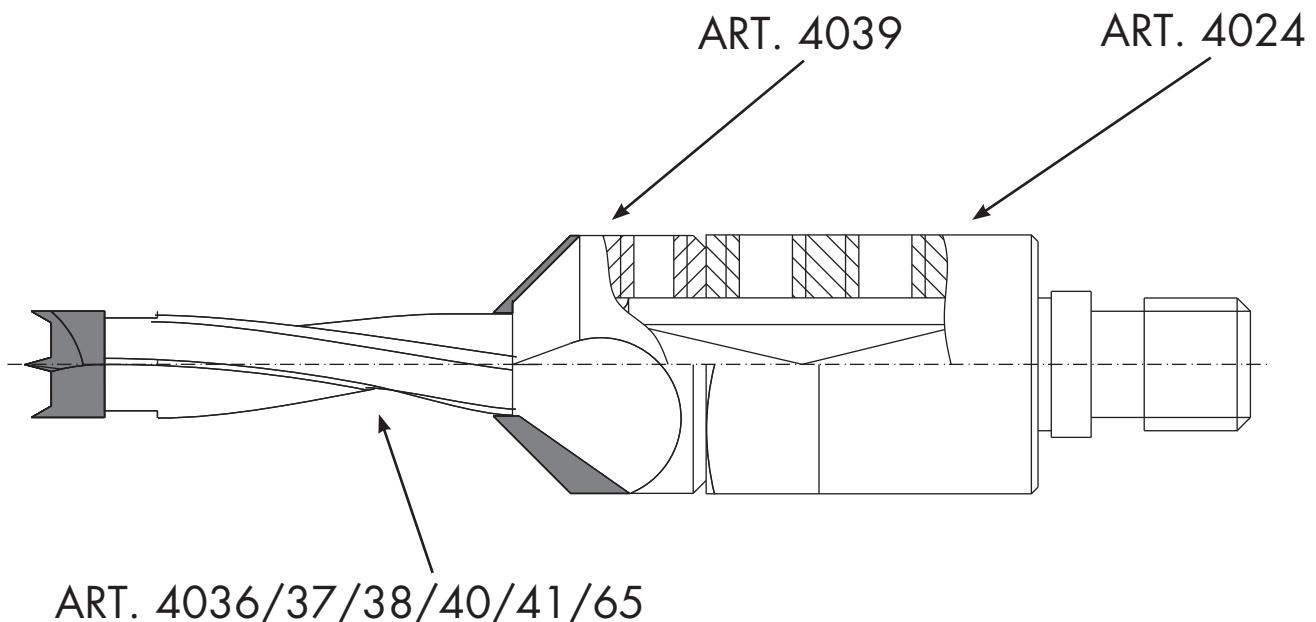
To be utilized on art. 4032 - 4033 - 4034



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.

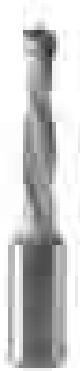


Referring to the assembling, our drills are mainly divided in two groups:

- 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.

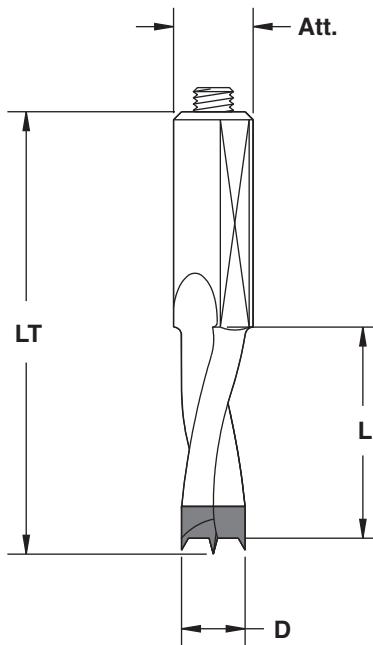


MAN | 

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x27*	4(5/32")	27	57,5	4036001	4036002
Ø10x27*	5	27	57,5	4036003	4036004
Ø10x27*	6	27	57,5	4036005	4036006
Ø10x27*	6,35(1/4")	27	57,5	4036007	4036008
Ø10x27*	7	27	57,5	4036009	4036010
Ø10x27*	8	27	57,5	4036011	4036012
Ø10x27*	9	27	57,5	4036013	4036014
Ø10x27*	9,5	27	57,5	4036015	4036016
Ø10x27*	10	27	57,5	4036017	4036018
Ø10x27*	11	27	57,5	4036019	4036020
Ø10x27*	12	27	57,5	4036021	4036022
Ø10x27*	12,7(1/2")	27	57,5	4036023	4036024
Ø10x27*	13	27	57,5	4036025	4036026
Ø10x27*	14	27	57,5	4036027	4036028
Ø10x27*	15	27	57,5	4036029	4036030
Ø10x27*	16	27	57,5	4036031	4036032

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



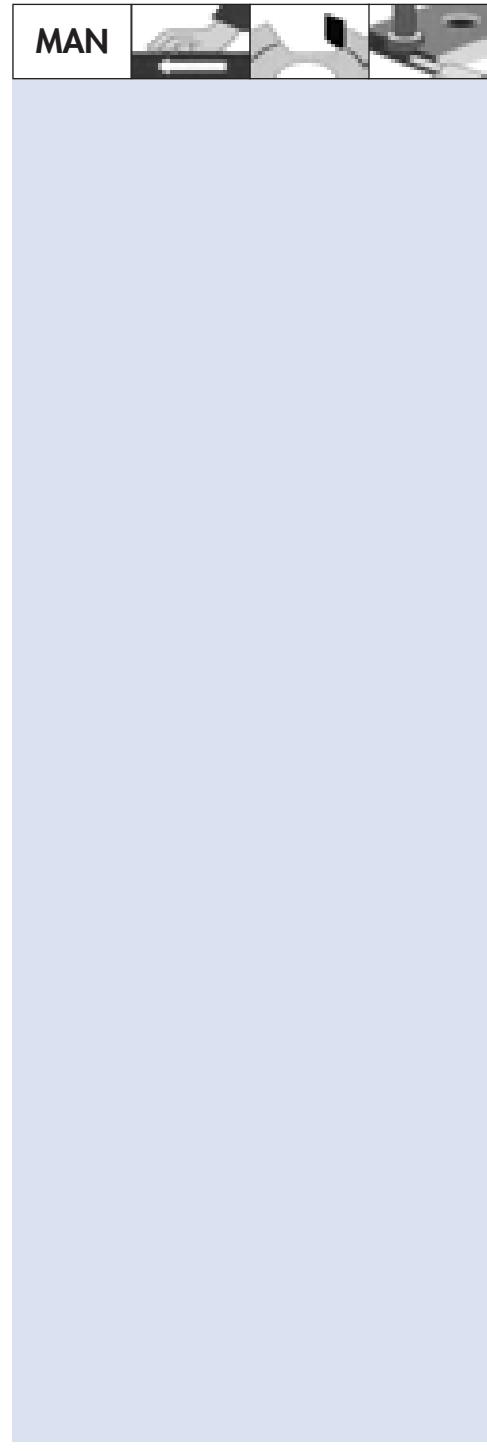
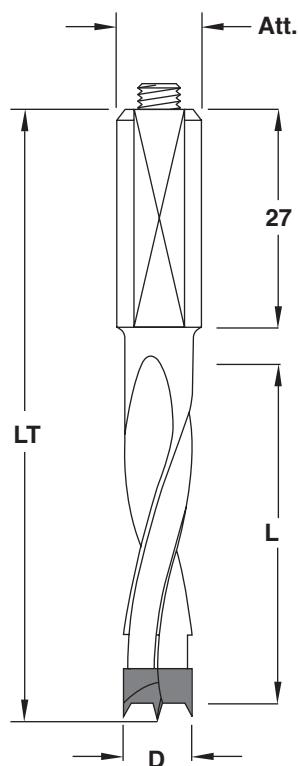
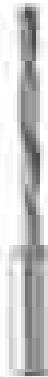
Punte componibili in HM.
Dowel drills in HM.
 Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.

4065

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

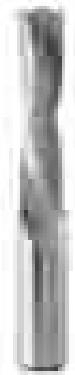
*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



4037

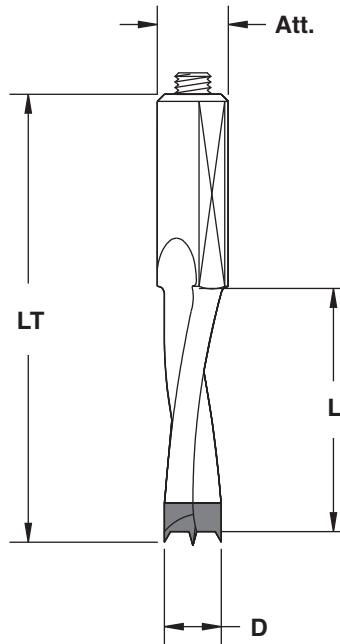
Punte componibili in HM.
Dowel drills in HM.
 Mèches à tourillons en HM.
Kombi-Dübelbohrer zu HM.
 Brocas componibles en HM.



	Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*		4{5/32"}	35	70	4037001	4037002
Ø10x30*		5	35	70	4037003	4037004
Ø10x30*		6	35	70	4037005	4037006
Ø10x30*		6,35(1/4")	35	70	4037007	4037008
Ø10x30*		7	35	70	4037009	4037010
Ø10x30*		8	35	70	4037011	4037012
Ø10x30*		9	35	70	4037013	4037014
Ø10x30*		9,5	35	70	4037015	4037016
Ø10x30*		10	35	70	4037017	4037018
Ø10x30*		11	35	70	4037019	4037020
Ø10x30*		12	35	70	4037021	4037022
Ø10x30*		12,7(1/2")	35	70	4037023	4037024
Ø10x30*		13	35	70	4037025	4037026
Ø10x30*		14	35	70	4037027	4037028
Ø10x30*		15	35	70	4037029	4037030
Ø10x30*		16	35	70	4037031	4037032

*Con pianetto e vite di regolazione

*With driving flat and lenght 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.

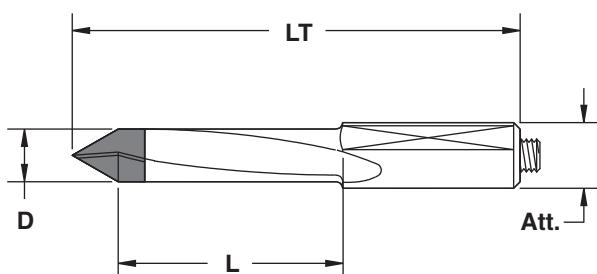
Brocas componibles en HM para la realización de agujeros pasantes.

4038

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x25*	4(5/32")	35	70	4038001	4038002
Ø10x25*	5	35	70	4038003	4038004
Ø10x25*	6	35	70	4038005	4038006
Ø10x25*	6,35(1/4")	35	70	4038007	4038008
Ø10x25*	7	35	70	4038009	4038010
Ø10x25*	8	35	70	4038011	4038012
Ø10x25*	9	35	70	4038013	4038014
Ø10x25*	10	35	70	4038015	4038016
Ø10x25*	11	35	70	4038017	4038018
Ø10x25*	12	35	70	4038019	4038020

*Con pianetto e vite di regolazione

*With driving flat and lenght 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.

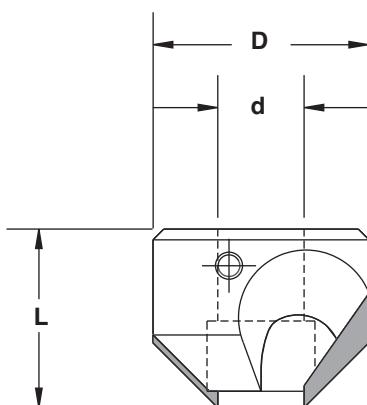
MAN

4039

d	D	L	ID nr. DX	ID nr. SX
4÷10	20	15	4039001	4039002
11÷12	22	16	4039011	4039012

Da impiegare su ART. 4036 - 4037 - 4038

To be utilized on ART. 4036 - 4037 - 4038



MAN

4040

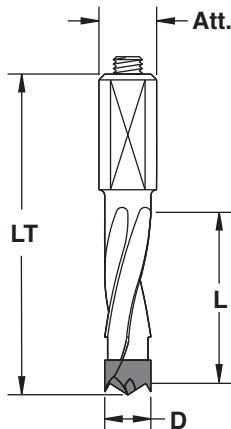


Punte componibili saldorasate in HM tipo "PLUS".
Dowel brased drills in HM - "PLUS".
 Mèches brasées à tourillons en HM - "PLUS".
Kombi-Dübelbohrer zu HM - "PLUS".
 Brocas componibles en HM con dientes soldados tipo "PLUS".

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	5	27	57,5	4040001	4040002
Ø10x30*	6	27	57,5	4040003	4040004
Ø10x30*	8	27	57,5	4040005	4040006
Ø10x30*	10	27	57,5	4040007	4040008
Ø10x30*	12	27	57,5	4040009	4040010

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



MAN



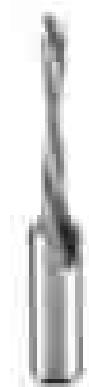
Caratteristiche

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



Punte componibili saldorasate in HM tipo "PLUS".

Dowel brased drills in HM - "PLUS".

Mèches brasées à tourillons en HM - "PLUS".

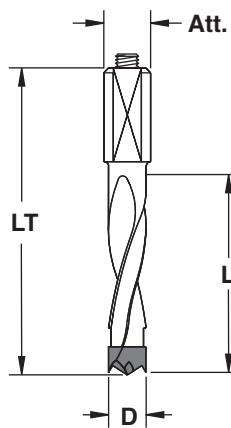
Kombi-Dübelbohrer zu HM - "PLUS".

Brocas componibles en HM con dientes soldados tipo "PLUS".

Att.	D	L	LT	ID nr. DX	ID nr. SX
Ø10x30*	5	35	70	4041001	4041002
Ø10x30*	6	35	70	4041003	4041004
Ø10x30*	8	35	70	4041005	4041006
Ø10x30*	10	35	70	4041007	4041008
Ø10x30*	12	35	70	4041009	4041010

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw



MAN



Caratteristiche

Queste punte hanno un'affilatura speciale grazie alla quale si ottiene un'ottima finitura del foro ed una durata superiore sino al 60%.

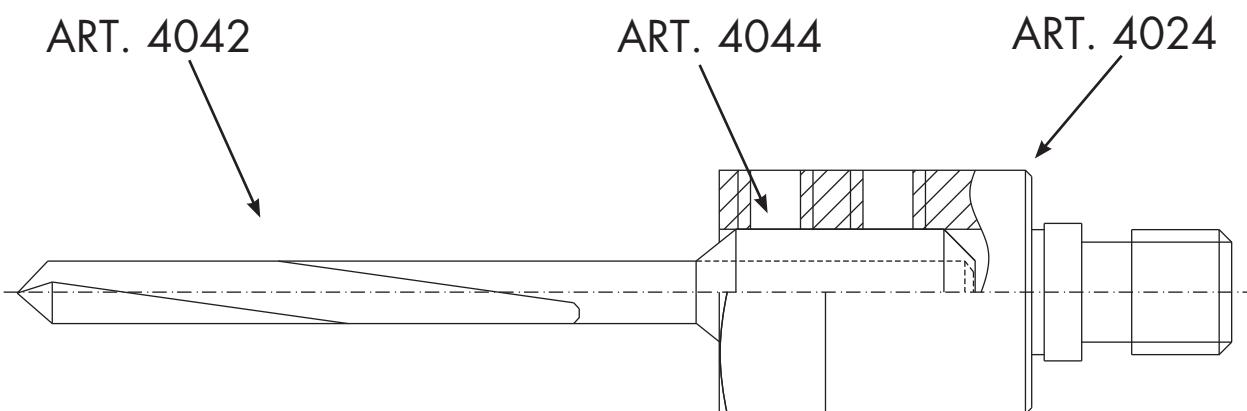
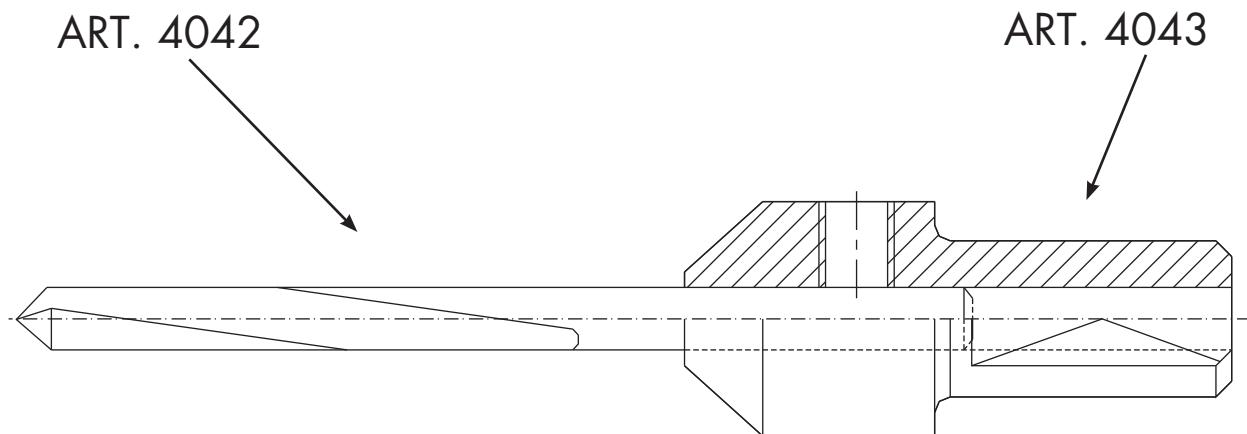
Characteristics

These drills have a special sharpening and with this it is possible to have an excellent finish and a life longer than 60%.

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.

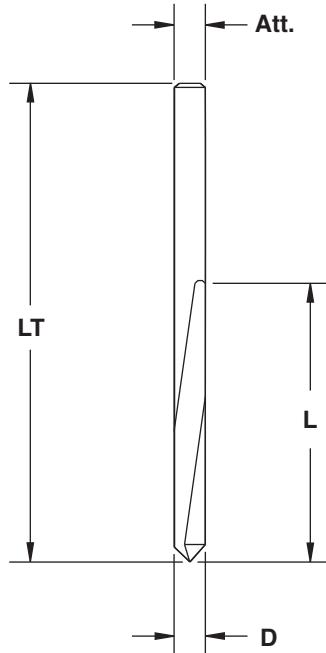
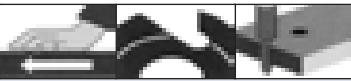
Mèches hélicoïdales en carbure monobloc pour trous transversants Z2 en HM INTÉGRAL.

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

MAN

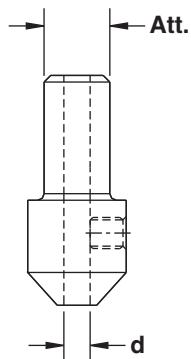


Mandrino porta-punte elicoidali.
Bushing and chucks for jobber drills.
 Mandrins pour mèches à percer.
Futter für spiralbohrer.
 Mandril portabrocas helicoidales.

4043

Att.	d	ID nr.
Ø10x25	2	4043001
Ø10x25	2,5	4043003
Ø10x25	3	4043005
Ø10x25	3,2	4043007
Ø10x25	3,5	4043009
Ø10x25	4	4043011
Ø10x25	5	4043013
Vite di fissaggio M6x6		9546024
Chiave esagonale 3mm		9548003

Materiale di costruzione: Acciaio
 Material: Steel

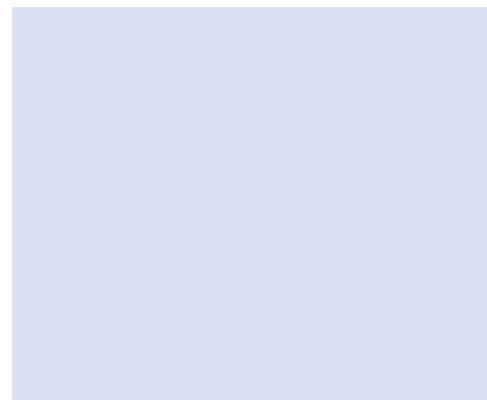
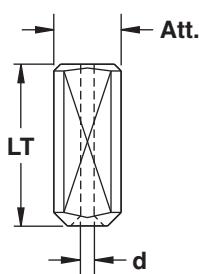


Boccola porta-punte elicoidali.
Adaptor bushing for small diameter drill bits.
 Douille adaptable pour mèches hélicoïdales.
Buchse ampbaglied für spitze für kleines loch.
 Adaptador portabrocas helicoidales.

4044

Att.	d	LT	ID nr.
Ø10x23	2	25	4044001
Ø10x23	2,5	25	4044003
Ø10x23	3	25	4044005
Ø10x23	3,2	25	4044007
Ø10x23	3,5	25	4044009
Ø10x23	4	25	4044011
Ø10x23	5	25	4044013

Materiale di costruzione: Acciaio
 Material: Steel



4045

Punte levanodi a coltellini Z2+2.

Knot correcting bit Z2+2.

Mèches à façonner Z2+2.

Kunstbohrer Z2+2.

Brocas bisagras con cuchillas Z2+2.

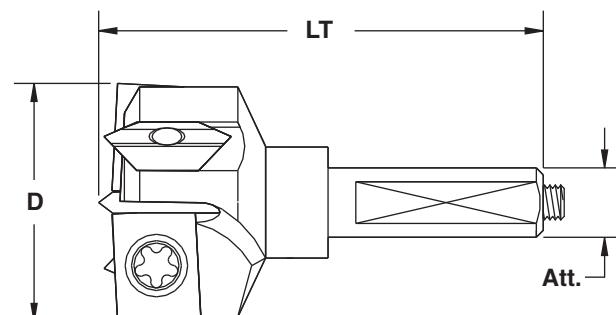


Att.	D	LT	ID nr. DX	ID nr. SX
Ø10x26*	25	57,5	4045001	4045002
Ø10x26*	26	57,5	4045003	4045004
Ø10x26*	30	57,5	4045005	4045006
Ø10x26*	35	57,5	4045007	4045008
Ø10x26*	40	57,5	4045009	4045010

*Con pianetto e vite di regolazione

*With driving flat and lenght adjustable screw

MAN



RICAMBI

COLTELLINI

PER Ø	25	26	30	35	40
Dimensioni	10,5x12x1,5	11x12x1,5	13x12x1,5	15,7x12x1,5	18x12x1,5
ID nr.	4045051	4045052	4045053	4045054	4045055

INCISORI

PER Ø	25	26	30	35	40
Dimensioni			18x8x4		
ID nr.			4045061		

PUNTA CENTRALE

PER Ø	25	26	30	35	40
Dimensioni			Ø3		
ID nr. DX			4045071		
ID nr. SX			4045072		

VITI DI FISSAGGIO

PER	COLTELLINI	INCISORI	PUNTA CENTRALE
Dimensioni	M4	M4	M6
ID nr.	4045081	4045082	4045083

CHIAVE TORX

PER	COLTELLINI - RASANTI
Dimensioni	CHIAVE TORX T15
ID nr.	9548002

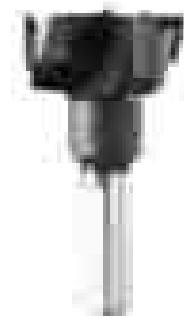
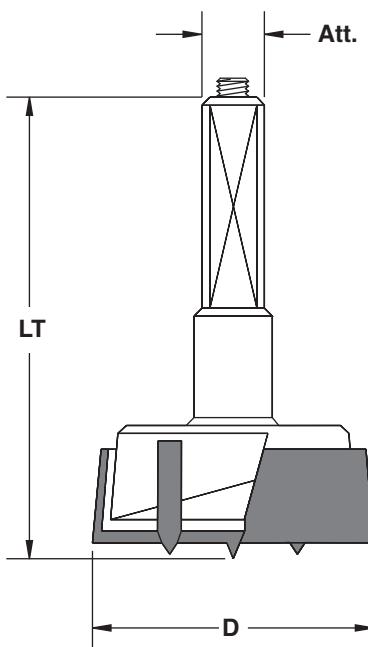
Punte levanodi Z2+2 in HM.
 Knot correcting bit Z2+2 in HM.
 Mèches à façonneur Z2+2 en HM.
 Kunstbohrer Z2+2 zu HM.
 Brocas bisagras en HM Z2+2.

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



MAN



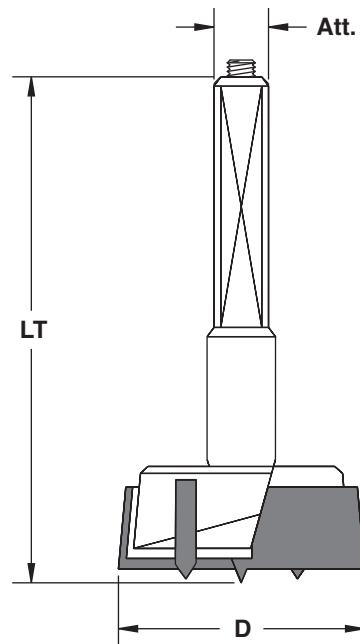
4047

Punte levanodi Z2+2 in HM.
Knot correcting bit Z2+2 in HM.
 Mèches à façonneur 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 lenght adjustable screw



Punte per cavatrici per sede piastrina con attacco filettato internamente Z2.

Drills for making the seating of lock plates with threaded shank Z2.

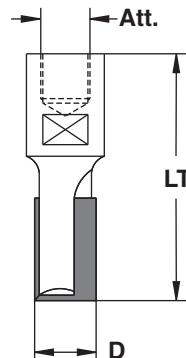
Mèches pour les logements de serrures avec queue filetée Z2.

Schaffräser mit Gewindschaft Z2.

Brocas para ranuras donde poner la herramienta con mango con rosca interna Z2.

Con taglienti in HM / *With cutting edge in HM*

Att.	D	LT	ID nr. DX
M12x1	18	60	4052001
M12x1	20	60	4052002
M12x1	22	60	4052003
M12x1	24	60	4052004



Con taglienti in KSS / *With cutting edge in KSS*

Att.	D	LT	ID nr. DX
M12x1	18	60	4052005
M12x1	20	60	4052006
M12x1	22	60	4052007
M12x1	24	60	4052008



Punte per cavatrici per eseguire cave con attacco filettato internamente Z2.

Drills for making the slots with threaded shank Z2.

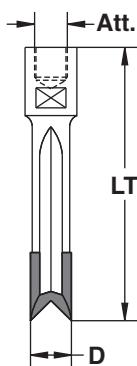
Mèches pour l'exécution de creux avec queue filetée Z2.

Schaffräser mit Gewindschaft Z2.

Brocas para ranuras con mango con rosca interna Z2.

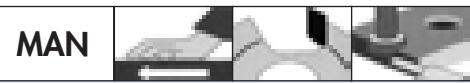
Con taglienti in HM / *With cutting edge in HM*

Att.	D	LT	ID nr. DX
M12x1	12	100	4053001
M12x1	14	100	4053002
M12x1	15	100	4053003
M12x1	16	100	4053004
M12x1	17	100	4053005
M12x1	18	100	4053006



Con taglienti in KSS / *With cutting edge in KSS*

Att.	D	LT	ID nr. DX
M12x1	12	100	4053007
M12x1	14	100	4053008
M12x1	15	100	4053009
M12x1	16	100	4053010
M12x1	17	100	4053011
M12x1	18	100	4053012



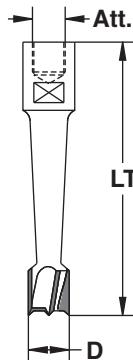
4054

Punte per cavatrici 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	4054001
M12x1	18	100	4054002
M12x1	20	100	4054003
M12x1	22	100	4054004
M12x1	24	100	4054005



4055

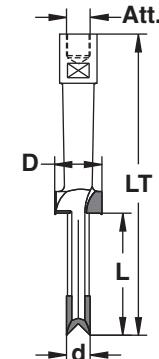
Punte per cavatrici per eseguire asola e foro, attacco filettato internamente Z2.

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	4055001
M12x1	10	20	62	155	4055002
M12x1	10	22	62	155	4055003
M12x1	11	19	62	155	4055004
M12x1	11	22	62	155	4055005
M12x1	12	19	62	155	4055006
M12x1	12	24	62	155	4055007



Con taglienti in KSS / With cutting edge in KSS

Att.	d	D	L	LT	ID nr. DX
M12x1	10	18	62	155	4055008
M12x1	10	20	62	155	4055009
M12x1	10	22	62	155	4055010
M12x1	11	19	62	155	4055011
M12x1	11	22	62	155	4055012
M12x1	12	19	62	155	4055013
M12x1	12	24	62	155	4055014

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	4056001
Ø10x35*	11	4,2	5,7	20	45	4056002
Ø10x35*	13	5,2	6,5	15	40	4056003
Ø10x35*	14	5,5	7	15	55	4056004
Ø10x35*	16	6	7,7	15	60	4056005
Ø10x35*	18	6,5	8,2	20	70	4056006
Ø10x35*	20	7,2	8,7	20	80	4056007

*Con pianetto

*With driving flat



MAN

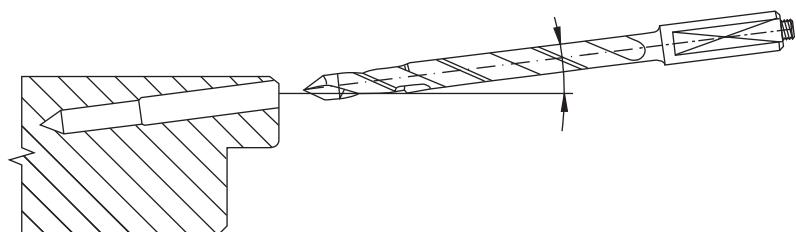
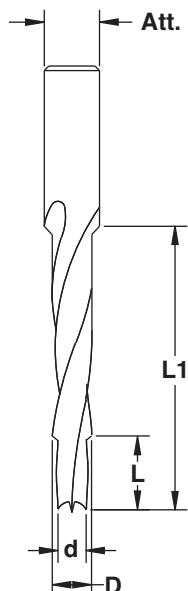


Caratteristiche

Punta da montare su macchina anubatrice per sede anuba.

Characteristics

Drill to be mounted on boring machines for anuba holes.

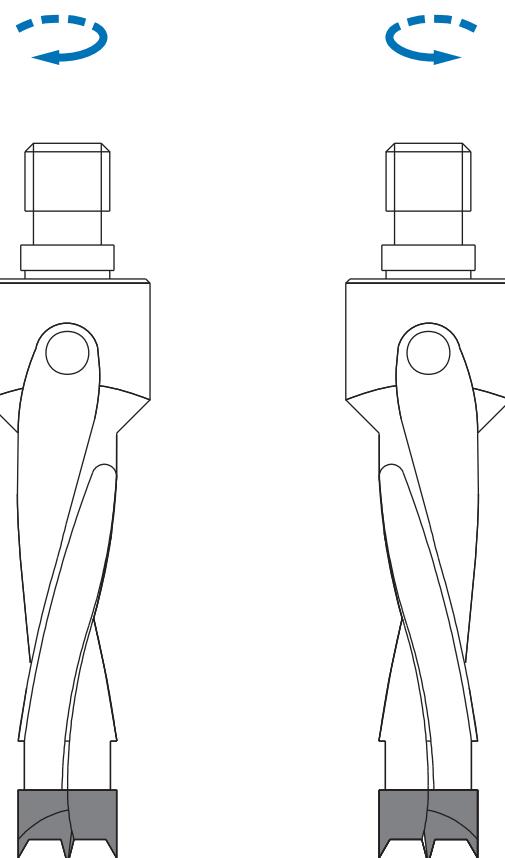


Dati necessari per le ordinazioni

- 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

5

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

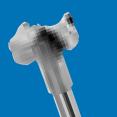
P 362



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.
 Dechiquiteurs à secteurs dentés (premier deux dents en diamant) sans lame.
Besäunzespanner (erste zwei Zähne aus Diamant) ohne Säge.
 Desmenuzador con segmentos con dientes (los primeros dos dientes en diamante) pero sin sierra.

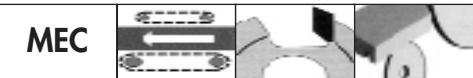
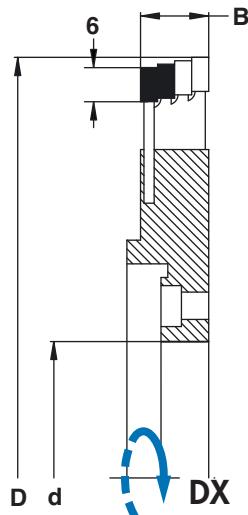
5001

D	B	d	N° Settori	ID nr. DX	ID nr. SX
200	18	80	4	5001001	5001002
250	18	80	6	5001003	5001004

Prezzo lama e mozzo esclusi
Price for sawblade and sleeve not included



ESEMPIO DI MONTAGGIO



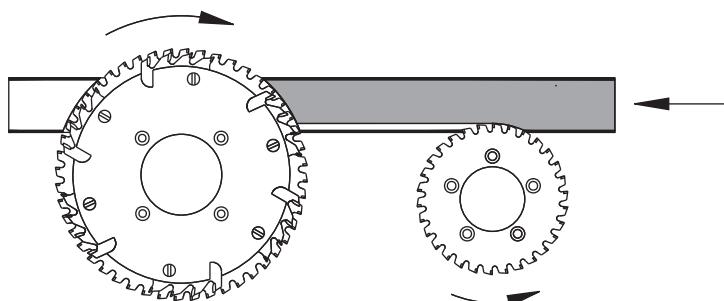
Caratteristiche

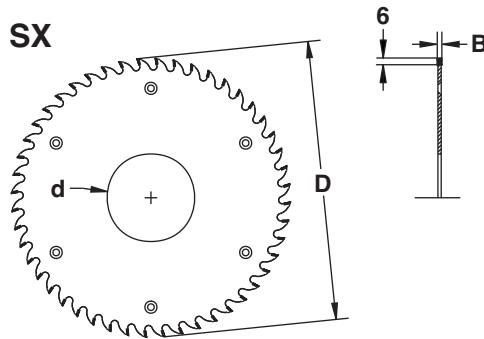
Truciolatori portalama a settori dentati Z4 (2 in Diamante, 2 in HM) da montare su mozzo.
 Come ricambio vengono forniti settori con 2÷4 denti in Diamante per una maggiore durata di taglio.
 Altezza diamante 6mm.

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.

ESEMPIO DI LAVORAZIONE



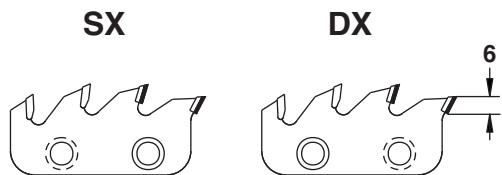


N.B.: E' possibile costruire le lame in versione economica con altezza diamante 3mm.
Per prezzi vedere riferimento nel listino con i codici che terminano con la sigla "H3".

ATTENTION: It is possible to manufacture economic sawblades with diamond height 3mm.
See BSP codes that finish with "H3" in our price list to know the price.

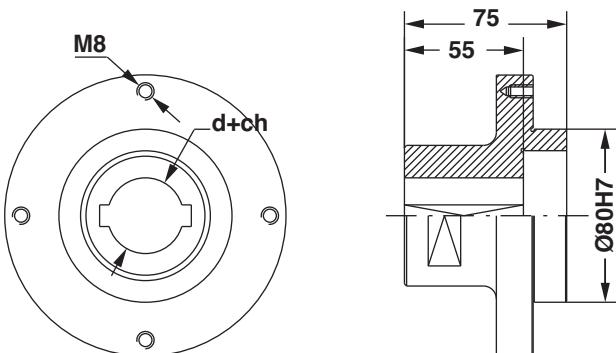
LAME IN DIAMANTE/DIAMOND SAWBLADES

D	B	d	Z	ID nr. DX	ID nr. SX
200	4,1	80+4	34	5001051	5001052
200	4,1	80+4	40	5001053	5001054
200	4,1	80+4	48	5001055	5001056
200	4,1	80+4	60	5001057	5001058
250	4,1	100+6	36	5001059	5001060
250	4,1	100+6	48	5001061	5001062
250	4,1	100+6	60	5001063	5001064
250	4,1	100+6	72	5001065	5001066



SETTORI IN DIAMANTE/DIAMOND SECTORS

Z	N° Denti in DIAMANTE	N° Denti in HM	ID nr. DX	ID nr. SX
4	2	2	5001101	5001102
4	4	-	5001103	5001104



MOZZO PORTA TRUCIOLATORE/SLEEVE FOR HOGGING UNIT

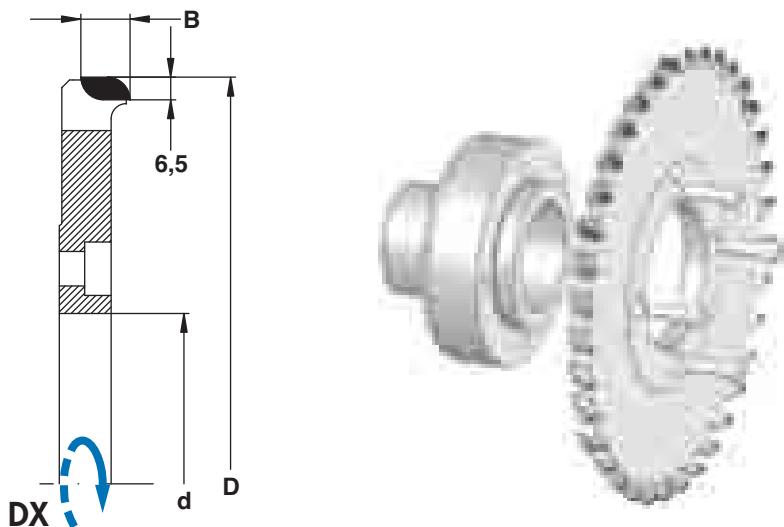
d+ch	ID nr.
35+2	5001201
40+2	5001202

Truciolatori raggiati ad alto rendimento a corpo unico.
Sides round hogging units in one body with high efficiency.
 Arondit dechiqueteus en un corps à haut rendement.
Radiusschneiden Zerspanner in eine Korpe Hochleistung.
 Desmenuzador con rayas y cuerpo único perdurable.

5002

D	B	d	Z	ID nr. DX	ID nr. SX
215	13	80	20+4	5002001	5002002
215	13	80	28+4	5002003	5002004
215	13	80	36+6	5002005	5002006

ESEMPIO DI MONTAGGIO



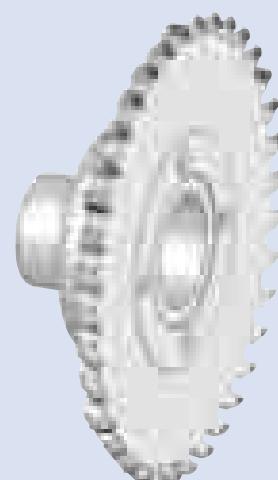
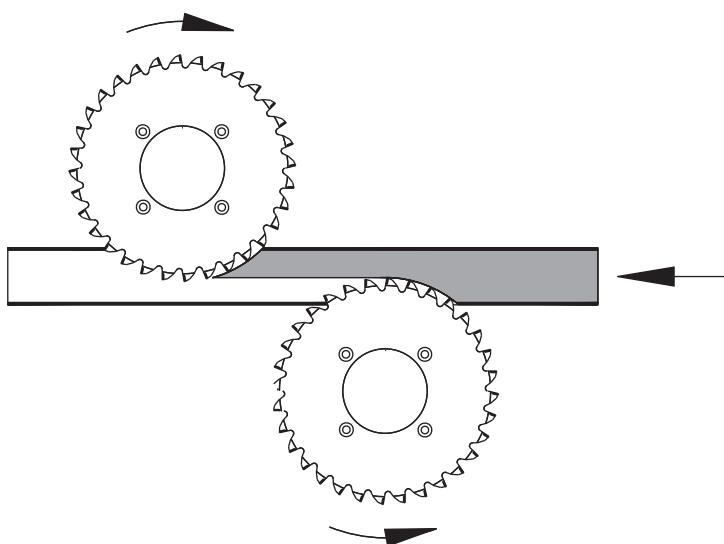
Caratteristiche

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 Korper 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



Caratteristiche

Truciolatori piani da montare su mozzo
 Fisso, Regolabile, Hydro Grip.

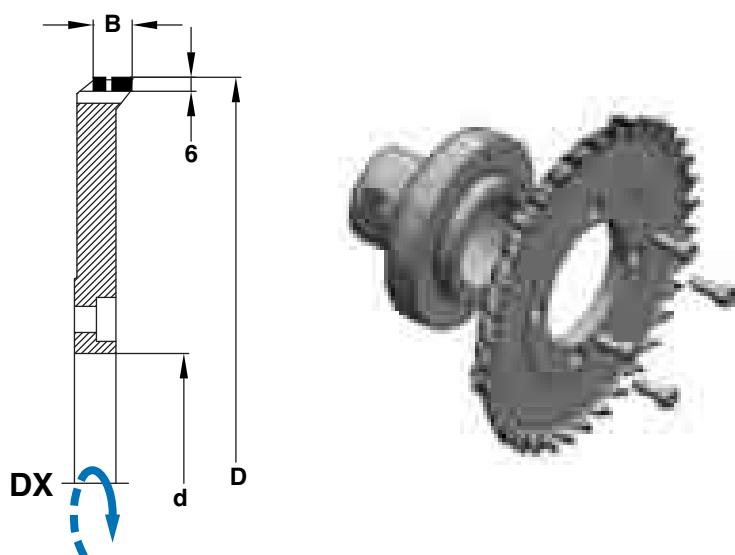
Vedi ART. 5045 - 5047.
 Altezza diamante 6mm.

Characteristics

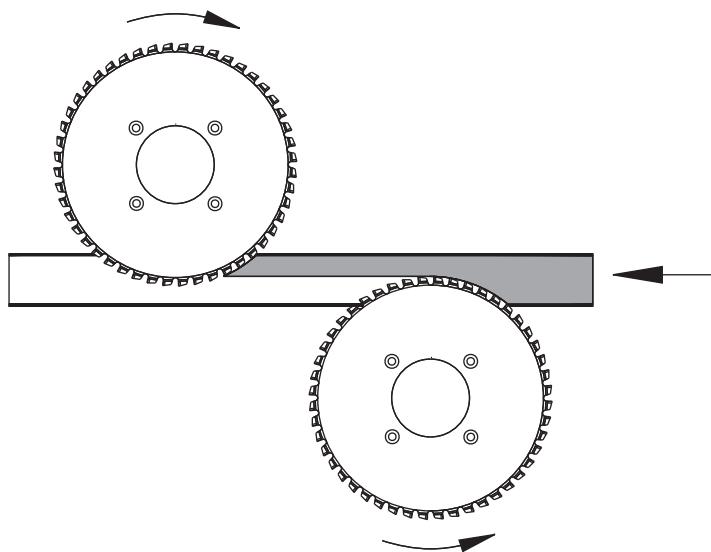
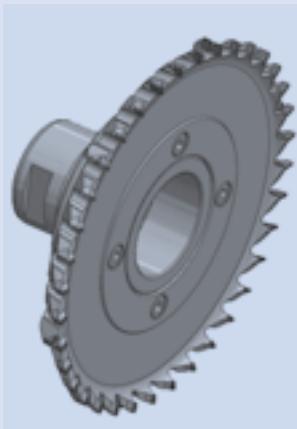
Sides round hogging units for assembling
 on Fixed, Adjustable or Hydro Grip sleeve.
 See ART. 5045 - 5047.

Diamond height 6mm.

ESEMPIO DI MONTAGGIO



ESEMPIO DI LAVORAZIONE



Incisori per squadratrici.

Scoring blades for squaring machines.

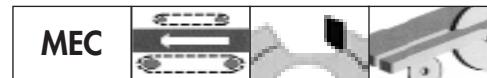
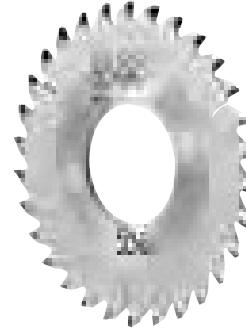
Inciseuses pour machines à équarrir.

Vorschneid Kreissägeblatt für Kantenmaschinen.

Incisores para escuadadoras.

5004

D	B	b	d	Z	β	ID nr. DX	ID nr. SX
150	3,2	2,2	55	24	10	5004019	5004020
150	3,2	2,2	60	24	10	5004021	5004022
150	3,2	2,2	55	30	10	5004023	5004024
150	3,2	2,2	60	30	10	5004025	5004026
150	3,2	2,2	55	36	10	5004027	5004028
150	3,2	2,2	60	36	10	5004053	5004054
180	3,2	2,2	55	30	10	5004029	5004030
180	3,2	2,2	60	30	10	5004031	5004032
180	3,2	2,2	55	36	10	5004033	5004034
180	3,2	2,2	60	36	10	5004035	5004036
180	3,2	2,2	55	42	10	5004037	5004038
180	3,2	2,2	60	42	10	5004039	5004040
200	3,2	2,2	55	30	10	5004041	5004042
200	3,2	2,2	60	30	10	5004043	5004044
200	3,2	2,2	55	36	10	5004045	5004046
200	3,2	2,2	60	36	10	5004047	5004048
200	3,2	2,2	55	48	10	5004049	5004050
200	3,2	2,2	60	48	10	5004051	5004052



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.

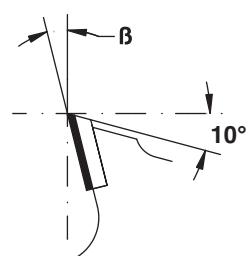
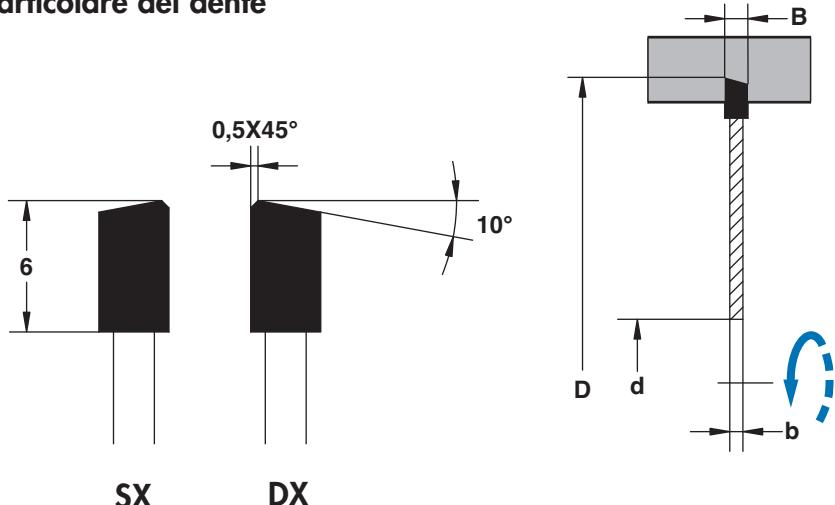
Characteristics

Scoring blades with unilateral sheet with bevel, for making the cut on coated panels.

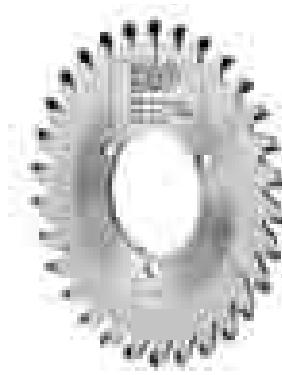
Diamond height 6mm.

On request set on sleeve ART. 5046.

Particolare del dente



5006



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.

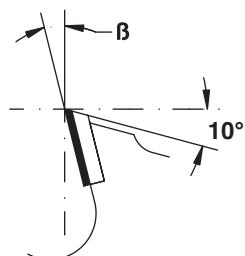
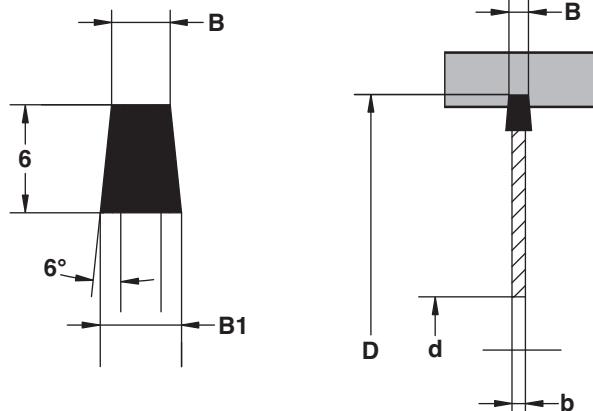
Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 340-341.

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 debit 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	-	Cascadei	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.

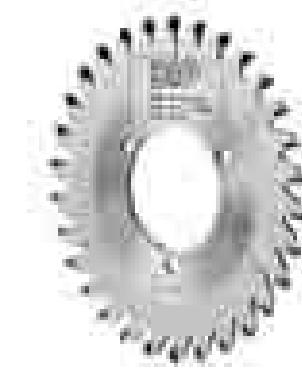
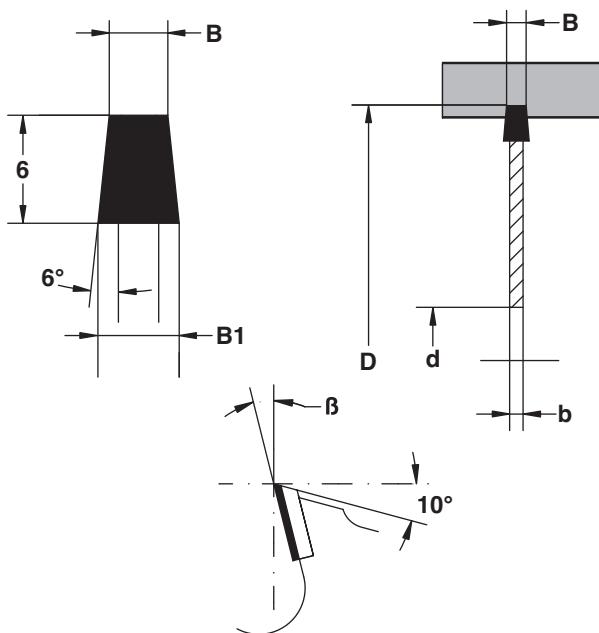
Konisch Vorschneid Kreissägeblatt.

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	5006007
125	4,4/5,6	3,2	45	3	Giben-Homag	24	6	5006022
150	4,4/5,6	3,2	30	-	SCM	24	6	5006010
150	4,4/5,6	3,2	30	-	SCM	30	6	5006012
150	4,4/5,6	3,2	45	4	Euromac	36	6	5006023
160	4,4/5,6	3,2	45	3	Giben	36	6	5006013
160	4,4/5,6	3,2	55	3+3	Gabbiani-MacMazza	36	6	5006024
180	4,4/5,6	3,2	30	-	Panhans	36	6	5006025
180	4,4/5,6	3,2	45	-	Holzma	36	6	5006026
180	4,4/5,6	3,2	50	3	Giben	36	6	5006027
180	4,4/5,6	3,2	55	3	Gabbiani	36	6	5006028
200	4,4/5,6	3,2	20	-	Schelling	36	6	5006014
200	4,4/5,6	3,2	30	-	Scheer	36	6	5006029
200	4,4/5,6	3,2	45	-		36	6	5006030
200	4,4/5,6	3,2	65	PH05	Selco	36	6	5006031
200	4,4/5,6	3,2	80	2	Gabbiani	36	6	5006032
215	4,4/5,6	3,2	50	3	Giben	42	6	5006015
280	4,4/5,6	3,2	55	3	MacMazza	40	6	5006033
300	4,4/5,6	3,2	50	3	Giben	48	6	5006034
300	4,4/5,6	3,2	65	PH05	Selco	48	6	5006035
300	4,4/5,6	3,2	80	2	Gabbiani	48	6	5006036
300	4,4/5,6	3,2	50	3	Giben	72	6	5006037
300	4,4/5,6	3,2	65	PH05	Selco	72	6	5006038
300	4,4/5,6	3,2	80	2	Gabbiani	72	6	5006039
180	4,8/6,0	3,5	45	-	Holzma	36	6	5006040
200	4,8/6,0	3,5	45	-	Holzma	36	6	5006041
180	5,2/6,4	3,5	55	3	Gabbiani	36	6	5006042
200	5,2/6,4	3,5	65	PH05	Selco	36	6	5006043
200	5,8/7,0	4,0	45	-	Holzma	36	6	5006044

Particolare del dente



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 sheet, for making the cut on panels coated with plastic material and more.

Diamond height 6mm.

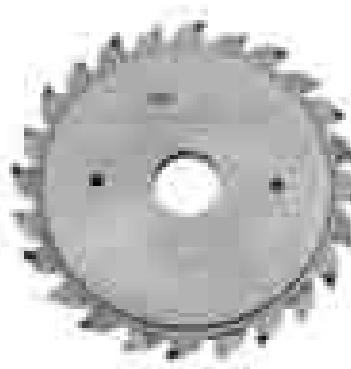
* Vedi "Tabella di riferimento per sezionatrici" pagg. 338-339.

* 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.

5008



Caratteristiche

Incisori per sezionatrici a spessore variabile mediante distanziatori con dente piano, per eseguire l'incisione di pannelli rivestiti con materiale plastico o altro.

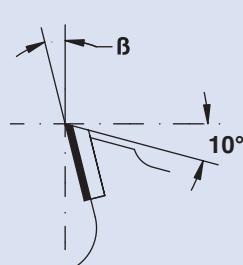
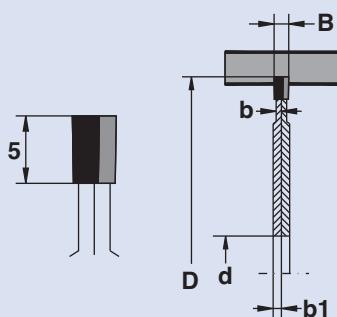
Altezza diamante 5mm.

Characteristics

Adjustable double scoring blades complete with spacing collars and flat sheet, to cut panels coated by plastic material and more.

Diamond height 5mm.

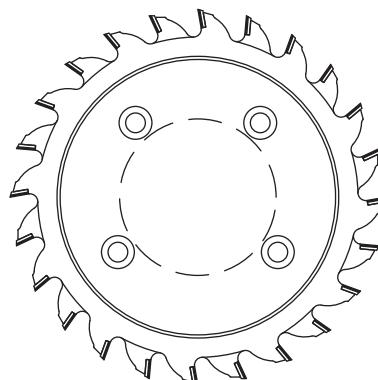
Particolare del dente



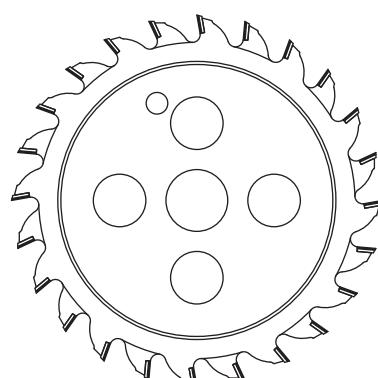
Incisori doppi regolabili completi di distanziatori.
Adjustable double scoring blades complete with spacing collars.
 Lames descie inciseuse doubles avec des bagues épaissees.
Kreissägeblätter zweiteilig mit Abstandsringen.
 Incisores dobles regulables completos de anillos distanciadores.

	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



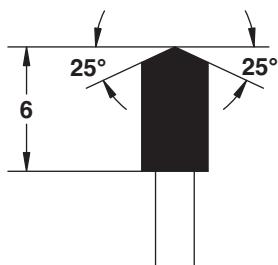
*La regolazione dello spessore viene fatta in macchina, senza l'uso di anelli distanziatori
 *Thickness adjustment controlled by the machines, no spacers required

Lame circolari universali.
 Universal circular sawblades.
 Lames circulaires universelles.
 Universal Kreissägeblat.
 Discos de sierra universales.

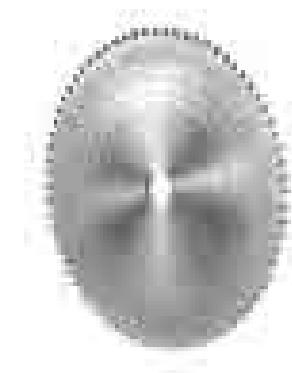
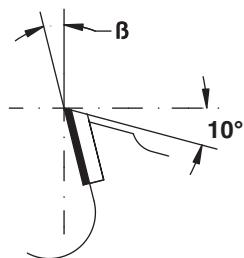
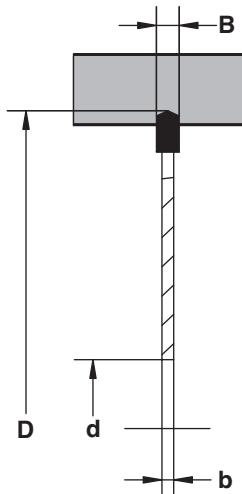
5010

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

Particolare del dente



CUSPIDE



MEC

Caratteristiche

Lame universali a dente cuspide, 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 teeth, for cutting raw and coated panels even on stacks.

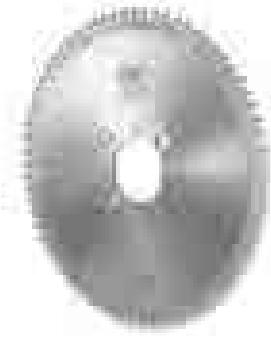
Diamond height 6mm.

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

Lame circolari per sezionatrici.
 Circular sawblades for panel sizing.
 Lames circulaires pour débit des panneaux.
 Kreissägeblätter für Vorschneid.
 Discos de sierra universales.



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.

D	B	b	d	PH	MACCHINA	Z	B	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.

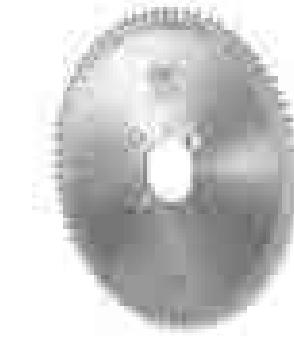
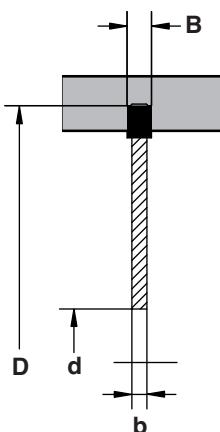
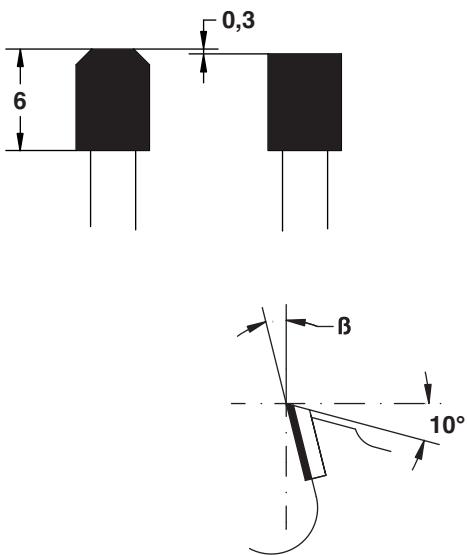
Kreissägeblät für Vorschneid.

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.
350	4,4	30	-	54	5012 004
350	4,4	30	-	72	5012 005
350	4,4	30	-	84	5012 006

D	B	d	Ø-INT.	Z	ID nr.
80	3,2/4,4	20	-	12	5006 001
125	4,4/5,6	20	-	24	5006 007

EUROMAC

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	75+2	11-100	72	5012 032
400	4,4	75+2	11-100	60	5012 052

D	B	d	Ø-INT.	Z	ID nr.
150	4,4/5,6	45+4	9-58/11-70	36	5006 023

GABBIANI

D	B	d	Ø-INT.	Z	ID nr.
300	4,4	30+2	7-82	48	5012 001
300	4,4	30+2	7-82	72	5012 003
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

D	B	d	Ø-INT.	Z	ID nr.
160	4,4/5,6	55+3+3	7-66	36	5006 024
200	4,4/5,6	80+2	14-110	36	5006 032

GIBEN

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	75+4	15-105	54	5012 028
350	4,4	75+4	15-105	72	5012 032
400	4,4	75+4	15-105	60	5012 052
400	4,4	75+4	15-105	72	5012 055
470	4,4	75+4	15-105	72	5012 065
565	5,2	100	-	48	5012 079
570	5,2	100	-	48	5012 080

D	B	d	Ø-INT.	Z	ID nr.
125	4,4/5,6	45+3	11-70	24	5006 022
160	4,4/5,6	45+3	11-70	36	5006 013
215	4,4/5,6	50+3	15-80	42	5006 015
300	4,4/5,6	50+3	15-80	72	5006 037

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	5012 026
380	4,4	60+2	14-100	54	5012 044
400	4,4	60	-	60	5012 051
420	4,8	60	-	72	5012 069
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

D	B	d	Ø-INT.	Z	ID nr.
180	4,4/5,6	45	-	36	5006 026
180	4,8/6,0	45	-	36	5006 040
200	4,8/6,0	45	-	36	5006 041
200	5,8/7,0	45	-	36	5006 044

MACMAZZA

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	75+3+3	54	5012 027	
350	4,4	75+3+3	72	5012 031	
350	4,4	75+3+3	84	5012 035	

D	B	d	Ø-INT.	Z	ID nr.
160	4,4/5,6	55+3+3	6-84	36	5006 024
280	4,4/5,6	55+3	6-84	40	5006 033

SCHELLING

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	30	-	54	5012 004
350	4,4	30	-	72	5012 005
380	4,4	30	-	72	5012 047
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

D	B	d	Ø-INT.	Z	ID nr.
100	3,2/4,4	20	-	20	5006 003
125	4,4/5,6	20	-	24	5006 007
200	4,4/5,6	20	-	36	5006 014

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	30	-	54	5012 004
350	4,4	80+8	VEDI PREC.	54	5012 029
350	4,4	30	-	72	5012 005
350	4,4	80+8	VEDI PREC.	72	5012 033

D	B	d	Ø-INT.	Z	ID nr.
150	4,4/5,6	30	-	30	5006 012
160	4,4/5,6	55+3+3	7-66	36	5006 024

D	B	d	Ø-INT.	Z	ID nr.
350	4,4	80+2+4	2/8,5-130	72	5012 033
400	4,4	80+2+4	4/19-120	72	5012 056
450	4,4	80+2+4		54	5012 062
450	4,4	80+2+4		72	5012 063
480	5,2	80+2+4		72	5012 066

D	B	d	Ø-INT.	Z	ID nr.
200	4,4/5,6	65+2+2	2/9-100	36	5006 031
200	5,2/6,4	65+2+2	2/9-110	36	5006 043
300	4,4/5,6	65+2+2		72	5006 038

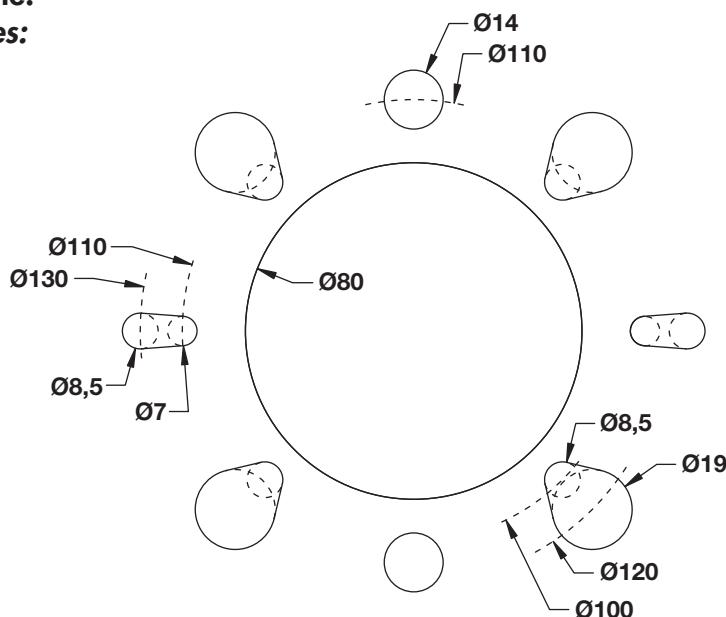
D	B	d	Ø-INT.	Z	ID nr.
350	4,4	80	-	72	5012 033
400	4,4	80	-	60	5012 053
400	4,4	80	-	72	5012 056

D	B	d	Ø-INT.	Z	ID nr.
150	4,4/5,6	30	-	30	5006 012

DISEGNI DI RIFERIMENTO PER FORATURE / REFERENCE DRAWINGS FOR STANDARD PIN HOLES

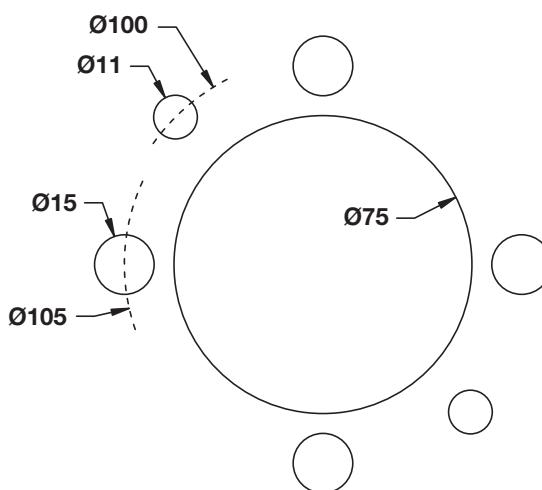
* PH01 per macchine:
* PH01 for machines:

GABBIANI
SELCO



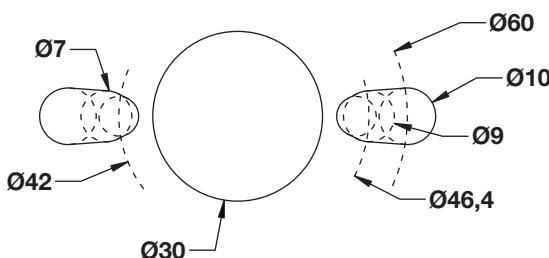
* PH02 per macchine:
* PH02 for machines:

GIBEN
EUROMAC



* PH03 per macchine:
* PH03 for machines:

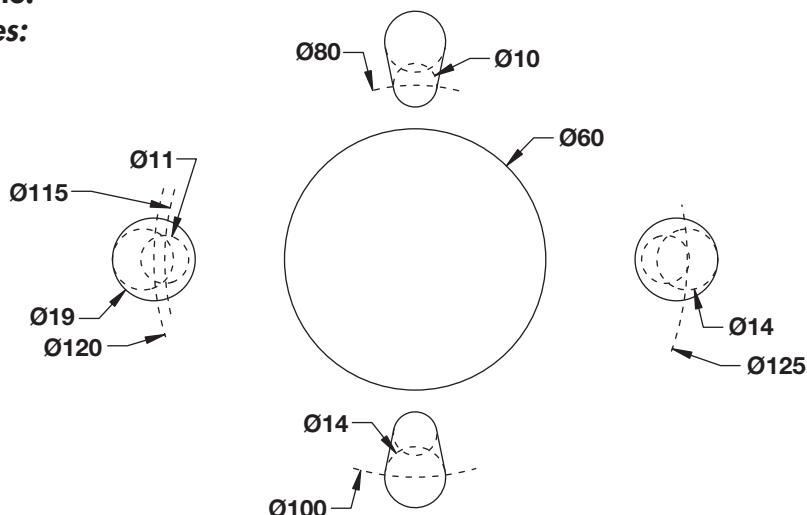
PANHANS
SCM
SCHEER
SCHELLING
CASADEI



DISEGNI DI RIFERIMENTO PER FORATURE / REFERENCE DRAWINGS FOR STANDARD PIN HOLES

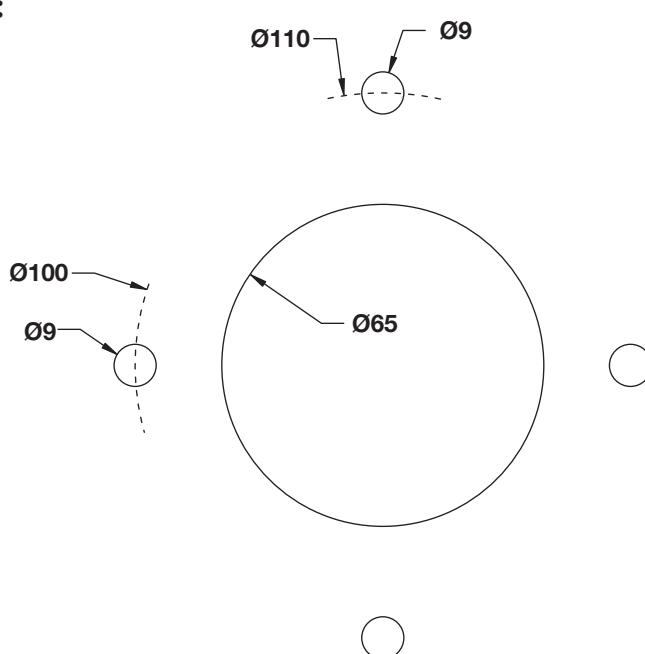
* PH04 per macchine:
* PH04 for machines:

HOLZMA



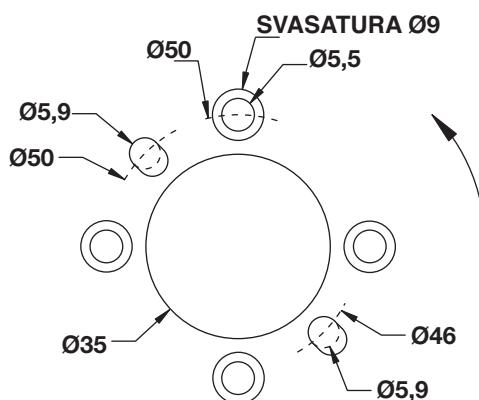
* PH05 per macchine:
* PH05 for machines:

SELCO



* PH06 per macchine:
* PH06 for machines:

BIESSE



5014



Caratteristiche

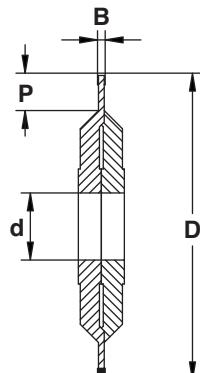
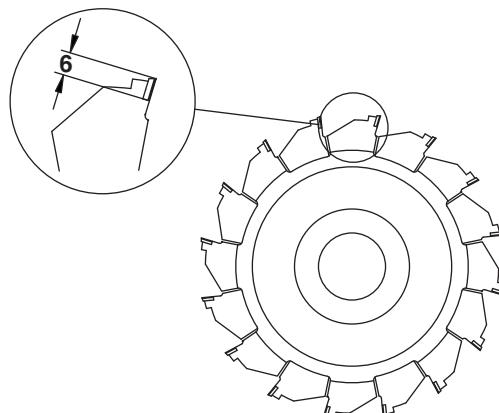
Frese a spessore regolabile mediante anelli distanziatori, per macchine squadratrici, bordatrici, toupie.
Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri.
La fresa viene fornita completa di anelli distanziatori.
Altezza diamante 6mm.

Characteristics

Grooving cutters with adjustable thickness by spacing collars for edgebander, doble-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 rainer avec réglable épaisseur par des anneaux.
Nutfräser mit regelbar Stärke durch Ringen.
Fresas para ranurar con espesor variable por medio de anillos.

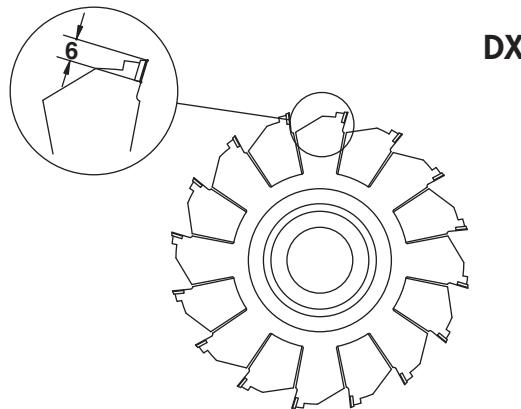
D	B	P	d	Z	ID nr.
120	3,5÷6,5	13	30	6+6	5014001
120	3,5÷6,5	13	35	6+6	5014019
120	4÷7,5	13	30	6+6	5014002
120	4÷7,5	13	35	6+6	5014020
120	5÷9,5	13	30	6+6	5014003
120	5÷9,5	13	35	6+6	5014021
150	3,5÷6,5	15	30	8+8	5014004
150	3,5÷6,5	15	35	8+8	5014022
150	4÷7,5	15	30	8+8	5014005
150	4÷7,5	15	30	8+8	5014023
150	5÷9,5	15	30	8+8	5014006
150	5÷9,5	15	35	8+8	5014024
180	3,5÷6,5	20	35	8+8	5014007
180	3,5÷6,5	20	40	8+8	5014025
180	4÷7,5	20	35	8+8	5014008
180	4÷7,5	20	40	8+8	5014026
180	5÷9,5	20	35	8+8	5014009
180	5÷9,5	20	40	8+8	5014027
150	3,5÷6,5	15	30	12+12	5014010
150	3,5÷6,5	15	35	12+12	5014028
150	4÷7,5	15	30	12+12	5014011
150	4÷7,5	15	35	12+12	5014029
150	5÷9,5	15	30	12+12	5014012
150	5÷9,5	15	35	12+12	5014030
180	3,5÷6,5	20	35	12+12	5014013
180	3,5÷6,5	20	40	12+12	5014031
180	4÷7,5	20	35	12+12	5014014
180	4÷7,5	20	40	12+12	5014032
180	5÷9,5	20	35	12+12	5014015
180	5÷9,5	20	40	12+12	5014033
200	3,5÷6,5	20	35	12+12	5014016
200	3,5÷6,5	20	40	12+12	5014034
200	4÷7,5	20	35	12+12	5014017
200	4÷7,5	20	40	12+12	5014035
200	5÷9,5	20	35	12+12	5014018
200	5÷9,5	20	40	12+12	5014036



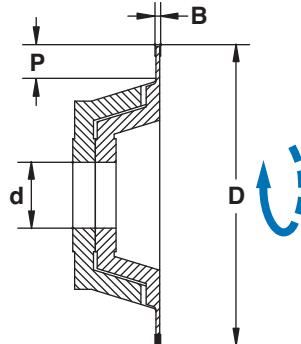
Frese a tazza per canali a spessore regolabile con anelli.
Grooving cutters with adjustable thickness by rings.
Fraises à rainer avec réglable épaisseur par des anneaux.
Nutfräser mit regelbar Stärke durch Ringen.
Fresas a taza para ranurar con espesor variable por medio de anillos.

5016

D	B	P	d	Z	ID nr. DX	ID nr. SX
120	3,5÷6,5	13	30	6+6	5016001	5016002
120	3,5÷6,5	13	35	6+6	5016037	5016038
120	4÷7,5	13	30	6+6	5016003	5016004
120	4÷7,5	13	35	6+6	5016039	5016040
120	5÷9,5	13	30	6+6	5016005	5016006
120	5÷9,5	13	35	6+6	5016041	5016042
150	3,5÷6,5	15	30	8+8	5016007	5016008
150	3,5÷6,5	15	35	8+8	5016043	5016044
150	4÷7,5	15	30	8+8	5016009	5016010
150	4÷7,5	15	35	8+8	5016045	5016046
150	5÷9,5	15	30	8+8	5016011	5016012
150	5÷9,5	15	35	8+8	5016047	5016048
180	3,5÷6,5	20	35	8+8	5016013	5016014
180	3,5÷6,5	20	40	8+8	5016049	5016050
180	4÷7,5	20	35	8+8	5016015	5016016
180	4÷7,5	20	40	8+8	5016051	5016052
180	5÷9,5	20	35	8+8	5016017	5016018
180	5÷9,5	20	40	8+8	5016053	5016054
150	3,5÷6,5	15	30	12+12	5016019	5016020
150	3,5÷6,5	15	35	12+12	5016055	5016056
150	4÷7,5	15	30	12+12	5016021	5016022
150	4÷7,5	15	35	12+12	5016057	5016058
150	5÷9,5	15	30	12+12	5016023	5016024
150	5÷9,5	15	35	12+12	5016059	5016060
180	3,5÷6,5	20	35	12+12	5016025	5016026
180	3,5÷6,5	20	40	12+12	5016061	5016062
180	4÷7,5	20	35	12+12	5016027	5016028
180	4÷7,5	20	40	12+12	5016063	5016064
180	5÷9,5	20	35	12+12	5016029	5016030
180	5÷9,5	20	40	12+12	5016065	5016066
200	3,5÷6,5	20	35	12+12	5016031	5016032
200	3,5÷6,5	20	40	12+12	5016067	5016068
200	4÷7,5	20	35	12+12	5016033	5016034
200	4÷7,5	20	40	12+12	5016069	5016070
200	5÷9,5	20	35	12+12	5016035	5016036
200	5÷9,5	20	40	12+12	5016071	5016072



DX



Caratteristiche

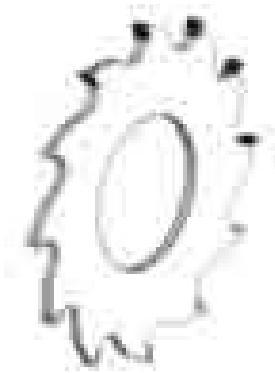
Frese a tazza a spessore regolabile mediante anelli distanziali, per macchine squadratrici, bordatrici, toupie.
 Per eseguire canali di vario spessore, su pannelli di truciolare rivestito e non, MDF o altri.
 La fresa viene fornita completa di anelli distanziali.
 Altezza diamante 6mm.

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.

5057

Frese per canali a spessore costante.
Grooving cutters with constant thickness.
Fraises à rainer avec épaisseur constant.
Nutfräser mit beständig Stärke.
Fresas para ranurar con espesor estable.

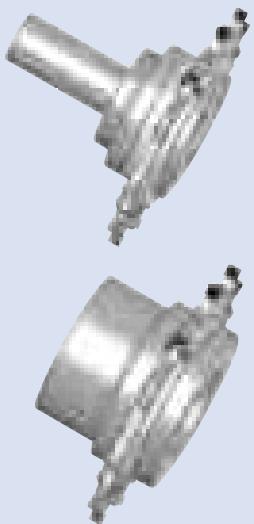


Caratteristiche

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.

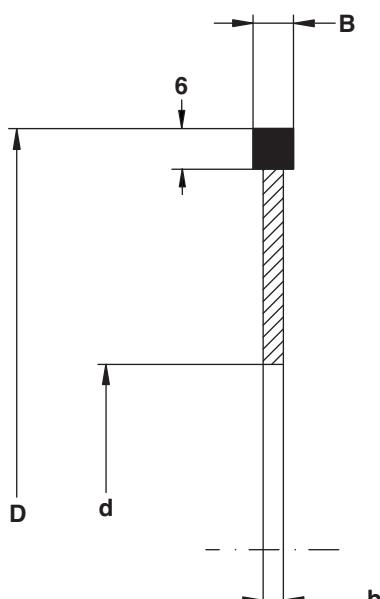
Characteristics

Grooving cutter with constant thickness for edgebander, doble-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.



D	B	b	d	Z	ID nr.
125	3	2	55	8	5057001
125	4	2,5	55	8	5057002
125	5	3	55	8	5057003
125	6	4	55	8	5057004
125	3	2	55	12	5057005
125	4	2,5	55	12	5057006
125	5	3	55	12	5057007
125	6	4	55	12	5057008
160	3	2	65	12	5057009
160	4	2,5	65	12	5057010
160	5	3	65	12	5057011
160	6	4	65	12	5057012
160	3	2	65	18	5057013
160	4	2,5	65	18	5057014
160	5	3	65	18	5057015
160	6	4	65	18	5057016

ESEMPI DI MONTAGGIO



RICAMBI

	MOZZO	MANDRINO
Dimensioni	FORO Ø30-35-40	ATTACCO Ø25x55
ID nr.	5065	5065051

Spigolatori per fresa spessore costante.

Gleaners for cutters with constant thickness.

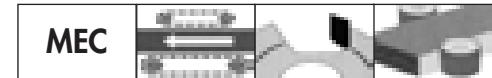
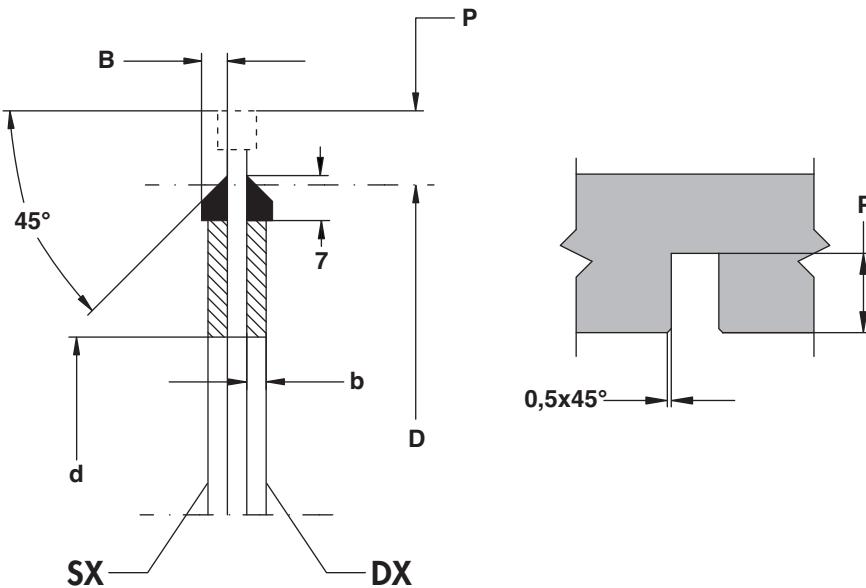
Glaneurs pour fraises avec épaisseur constant.

Hebelkanten für Nutfräser mit băstendig Stärke.

Chafanadores 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



Caratteristiche

Spigolatori per fresa a spessore costante, vedi pagina precedente.

In funzione del diametro della fresa è possibile variare la profondità di spigolatura "P".

Altezza diamante 7mm.

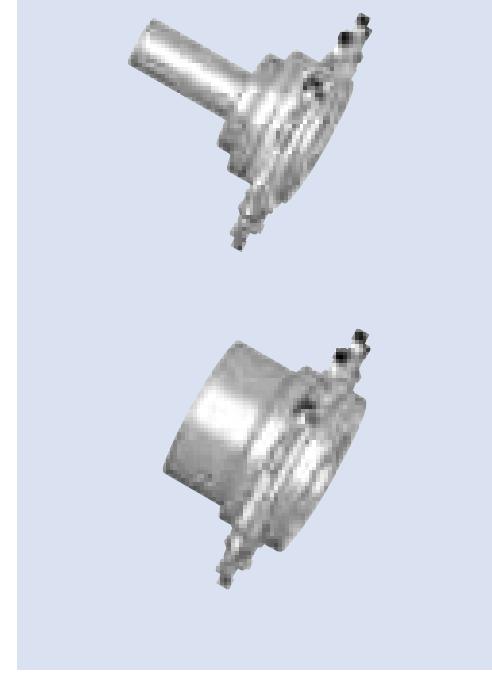
Characteristics

Gleaner for cutters with constant thickness, see previous page.

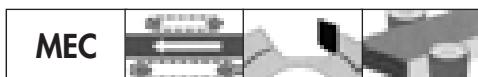
Depending from the cutter diameter it is possible to change the gleaning depth "P".

Diamond height 7mm.

ESEMPI DI MONTAGGIO



5058



Caratteristiche

Fresa a spessore regolabile mediante anelli distanziatori, 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 distanziatori, 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, doble-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.

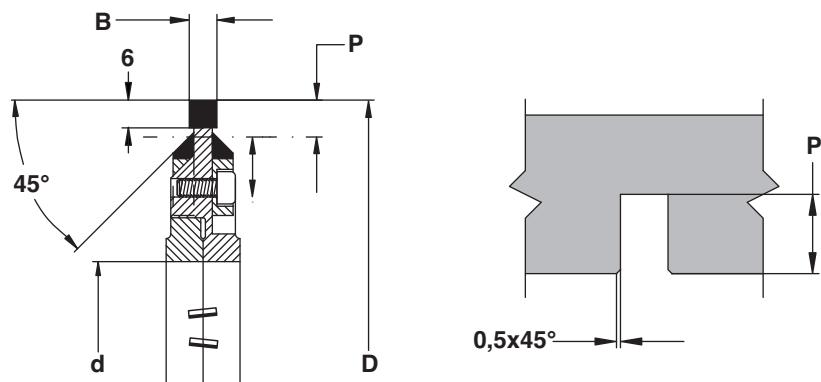
Grooving cutters with adjustable thickness by rings.

Fraises à rainer avec épaisseur à régler par des anneaux.

Nutfräser mit regelbar Stärke durch Ringe.

Fresas para ranurar con espesor variable por medios de anillos.

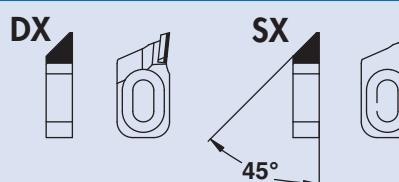
D	B	d	P	Z	V	ID nr.
125	3÷5,5	55	5÷12	4+4	2+2	5058001
125	4÷7,5	55	5÷12	4+4	2+2	5058002
125	5÷9,5	55	5÷12	4+4	2+2	5058003
125	6÷11,5	55	5÷12	4+4	2+2	5058004
125	3÷5,5	55	5÷12	6+6	3+3	5058005
125	4÷7,5	55	5÷12	6+6	3+3	5058006
125	5÷9,5	55	5÷12	6+6	3+3	5058007
125	6÷11,5	55	5÷12	6+6	3+3	5058008
160	3÷5,5	65	5÷12	6+6	3+3	5058009
160	4÷7,5	65	5÷12	6+6	3+3	5058010
160	5÷9,5	65	5÷12	6+6	3+3	5058011
160	6÷11,5	65	5÷12	6+6	3+3	5058012
160	3÷5,5	65	5÷12	9+9	3+3	5058013
160	4÷7,5	65	5÷12	9+9	3+3	5058014
160	5÷9,5	65	5÷12	9+9	3+3	5058015
160	6÷11,5	65	5÷12	9+9	3+3	5058016



ESEMPI DI MONTAGGIO



RICAMBI

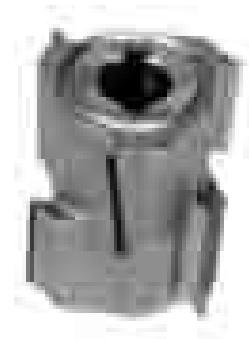


	SPIGOLATORI	VITI	MOZZO	MANDRINO
Dimensioni	20x10x5	M4x10	FORO Ø30-35-40	ATTACCO Ø25x55
ID nr. DX	5058011	9546028		
ID nr. SX	5058102		5065	5065051

Fresa per spianatura per macchine bordatrici SCM-STEFANI.
 Cutterheads for edge-banding machines SCM-STEFANI.
 Fraises pour machines à border SCM-STEFANI.
 Messerköpf für Bördemaschine 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

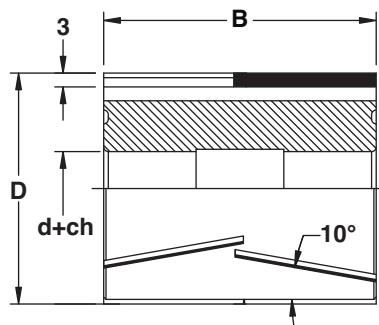
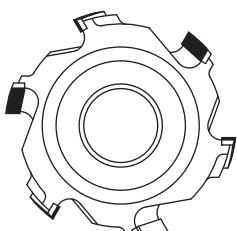


Caratteristiche

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.

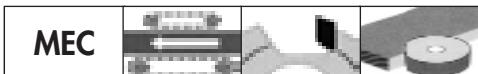


5019

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 ebenen PREISWERT Typ mit Ringen zu Bördertmaschinen.
 Juego de fresas ajustable 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	5019001
80	Max-48	30+2	6+6	5019002
80	Max-64	30+2	6+6	5019004
125	Max-38	30+2	6+6	5019005
125	Max-48	30+2	6+6	5019003
125	Max-64	30+2	6+6	5019006
150	Max-38	30+2	6+6	5019007
150	Max-48	30+2	6+6	5019008
150	Max-64	30+2	6+6	5019009

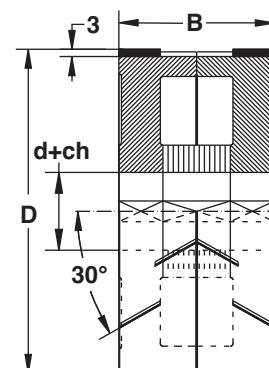
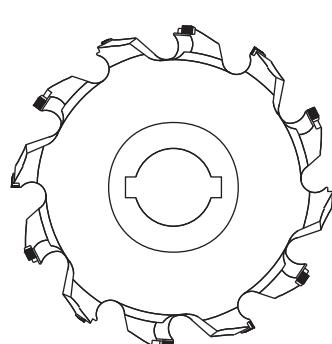


Caratteristiche

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.

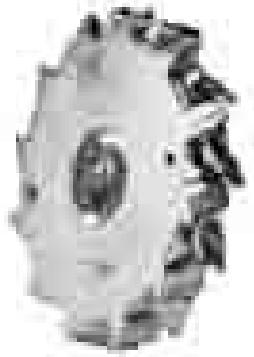
Jeu réglables dressés avec des anneaux pour machines à équarrir.

Regelbar Block zu ebnen mit Ringen zu Kantenmaschinen.

Juego de fresas ajustable por medio de anillos para aplanar para máquinas esquadadoras.

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.

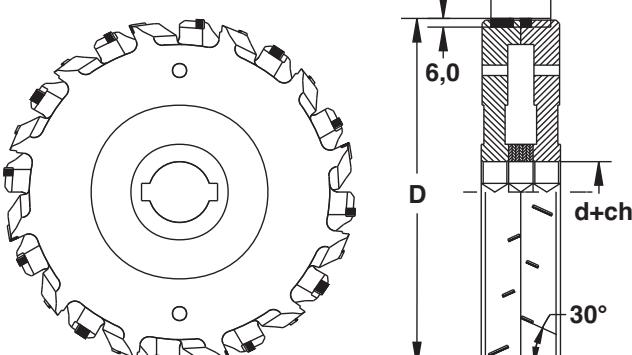
Characteristics

Adjustable flatter set with rings for squaring machines.

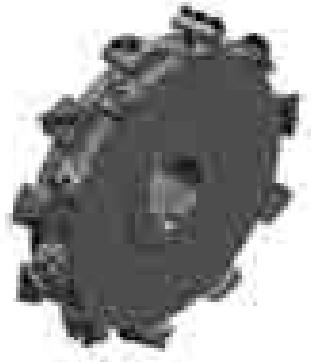
Excellent finish on all materials, coated panels and not.

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



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.

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

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.

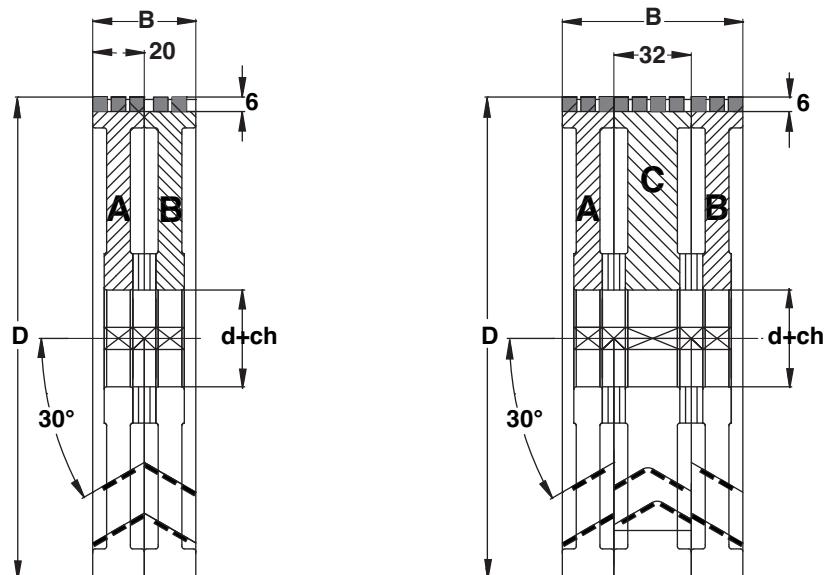
Particolarmente adatta per lavorare ad alte velocità di taglio.

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.



Fresa per spianare per macchine bordatrici BI-MATIC.

Cutterheads for edge-banding machines BI-MATIC.

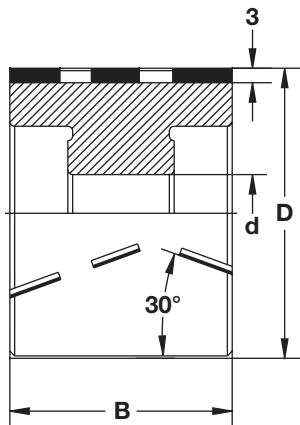
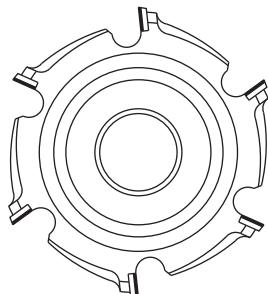
Fraises pour machines à border BI-MATIC.

Messerköpf für Bördelmaschine BI-MATIC.

Fresa para aplanar para máquinas canteadoras BI-MATIC.

5054

D	B	d	Z	ID nr.
60	54	16	3+3	5054002



MEC



Caratteristiche

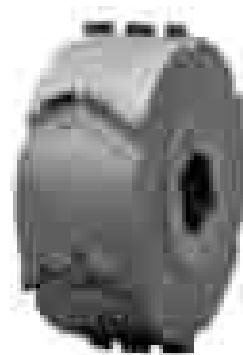
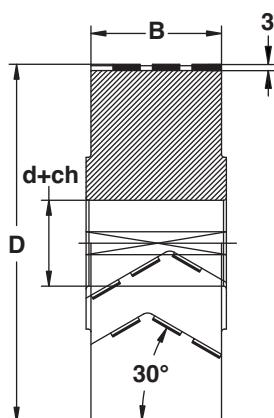
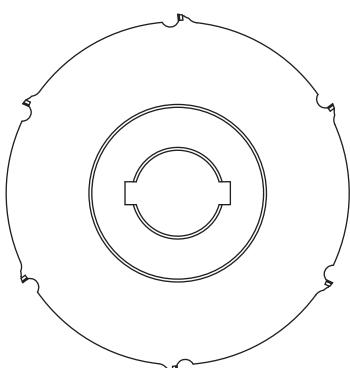
Fresa per spianare a spessore costante per macchine bordatrici BI-MATIC.
Altezza diamante 3mm.

Characteristics

Cutterhead with constant thickness for edge-banding machines BI-MATIC.
Diamond height 3mm.

5056

D	B	d+ch	Z	ID nr.
125	44	30+2	3+3	5056001
125	65	30+2	3+3	5056002



MEC



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.

Messerköpf 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	5055011	5055012
80	48	25	20+2	3+3	A	5055001	5055002
80	65	67	30+2	3+3	B	5055003	5055004
100	48	40,5	30+2	3+3	C	5055005	5055006
100	56	58	30+2	3+3	B	5055007	5055008
100	65	67	30+2	3+3	B	5055009	5055010

MEC



Caratteristiche

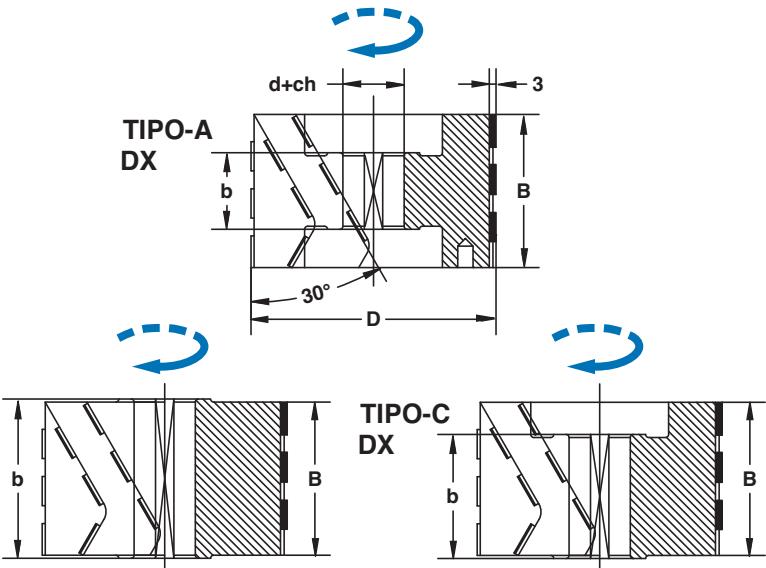
Fresa per spianare a spessore costante per macchine bordatrici.

Altezza diamante 3mm.

Characteristics

Cutterhead with constant thickness for edge-banding machines.

Diamond height 3mm.



D	B	b	d	Z	Tipo	ID nr. DX	ID nr. SX
80	48	25	20+2	3+3	A	5055051	5055052
80	65	67	30+2	3+3	B	5055053	5055054
100	48	40,5	30+2	3+3	C	5055055	5055056
100	56	58	30+2	3+3	B	5055057	5055058
100	65	67	30+2	3+3	B	5055059	5055060

MEC



Caratteristiche

Fresa per spianare a spessore costante per macchine bordatrici.

Particolarmente adatta per lavorare ad alte velocità di taglio.

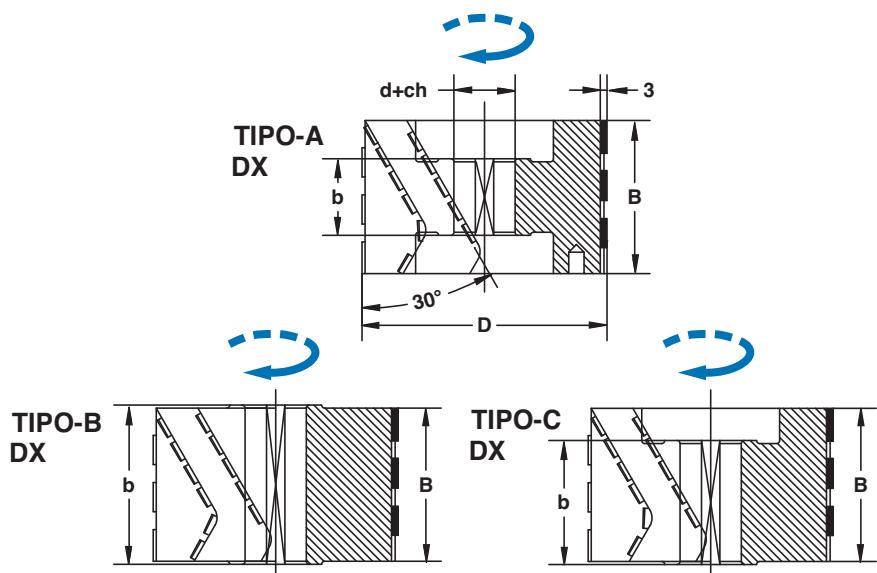
Altezza diamante 6 mm.

Characteristics

Cutterhead with constant thickness for edgebanding machines.

Excellent for works at hight speed.

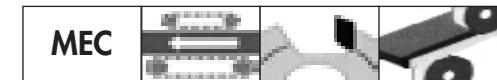
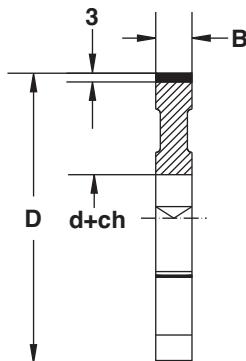
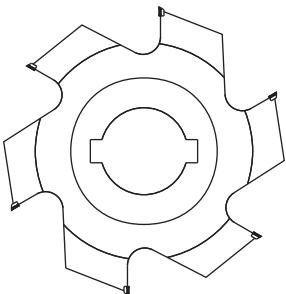
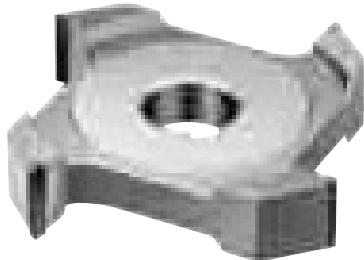
Diamond height 6mm.



Frese per spigolare per macchine bordatrici.
Milling cutters for chanfer on edge-banding machines.
 Fraises pour guamer 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	5022001
70	11	20+2	4	5022003
70	11	16+2	6	5022002
70	11	20+2	6	5022004
80	11	16+2	4	5022005
80	11	20+2	4	5022006
80	11	16+2	6	5022007
80	11	20+2	6	5022008



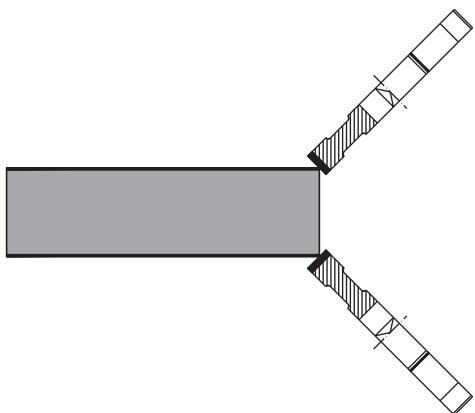
MEC

Caratteristiche
 Frese per raffilare 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

Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
Fraises pour machines à border.
Messerköpf für Bördelmaschine.
Fresas para máquinas canteadoras.



MEC			
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Caratteristiche

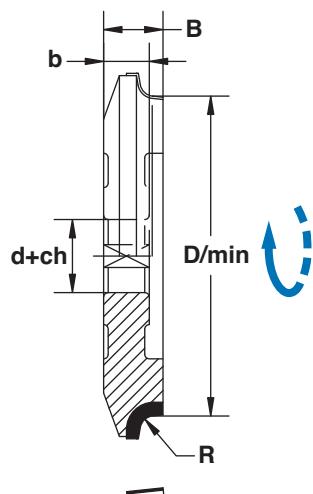
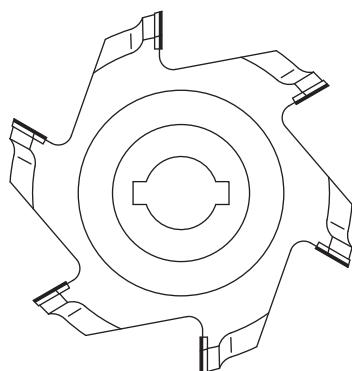
Frese a raggiare per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

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	13	10	16+2	1	6	SCM-STEFANI	5023001	5023002
60	13	10	16+2	2	6		5023003	5023004
60	13	10	16+2	3	6		5023005	5023006
60	13	10	16+2	4	6		5023007	5023008
60	13	10	16+2	5	6		5023009	5023010
61	13	10	16+2	1	6		5023011	5023012
61	13	10	16+2	2	6		5023013	5023014
61	13	10	16+2	3	6		5023015	5023016
61	13	10	16+2	4	6		5023017	5023018
61	13	10	16+2	5	6		5023019	5023020
61,3	13	10	16+2	1	6	SCM	5023021	5023022
61,3	13	10	16+2	2	6		5023023	5023024
61,3	13	10	16+2	3	6		5023025	5023026
61,3	13	10	16+2	4	6		5023027	5023028
61,3	13	10	16+2	5	6		5023029	5023030
70	13	10	16+2	1	6		5023031	5023032
70	13	10	16+2	2	6		5023033	5023034
70	13	10	16+2	3	6		5023035	5023036
70	13	10	16+2	4	6		5023037	5023038
70	13	10	16+2	5	6		5023039	5023040
70	14	10	16+2	1	6	SCM-STEFANI	5023071	5023072
70	14	10	16+2	2	6		5023073	5023074
70	14	10	16+2	3	6		5023075	5023076
70	14	10	16+2	4	6		5023077	5023078
70	14	10	16+2	5	6		5023079	5023080

DX



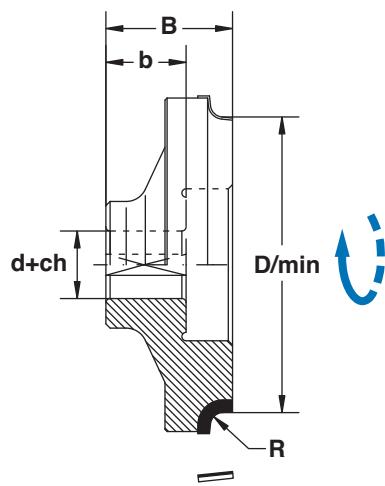
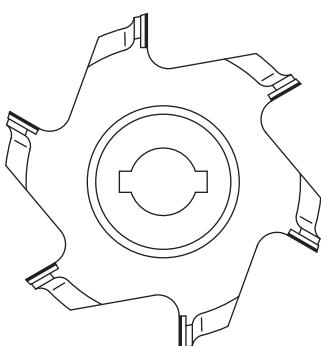
Frese per macchine bordatrici.
 Cutterheads for edge-banding machines.
 Fraises pour machines à border.
 Messerköpf für Bördelmaschine.
 Fresas para máquinas canteadoras.

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



MEC



Caratteristiche

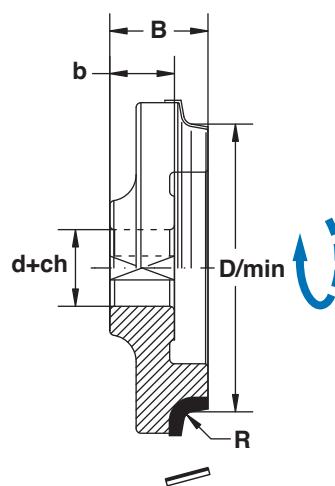
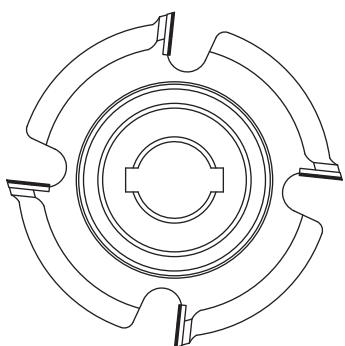
Frese a raggiare per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines with
 double radius.
 For making the edges on chipboard coated
 panels, MDF and more.
 Diamond height 3mm.

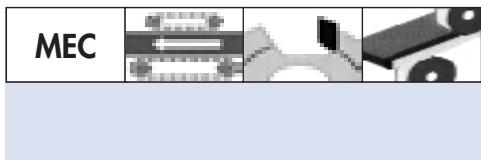
D/min	B	b	d+ch	R	Z	MACCHINA	ID nr. DX	ID nr. SX
60	20,5	13,5	16+2	1	4	BUSELLATO	5023 051	5023 052
60	20,5	13,5	16+2	2	4		5023 053	5023 054
60	20,5	13,5	16+2	3	4		5023 055	5023 056
60	20,5	13,5	16+2	4	4		5023 057	5023 058
60	20,5	13,5	16+2	5	4		5023 059	5023 060

DX



5059

Frese per macchine bordatrici.
Cutterheads for edge-banding machines.
Fraises pour machines à border.
Messerköpf für Bördelmaschine.
Fresas para máquinas canteadoras.



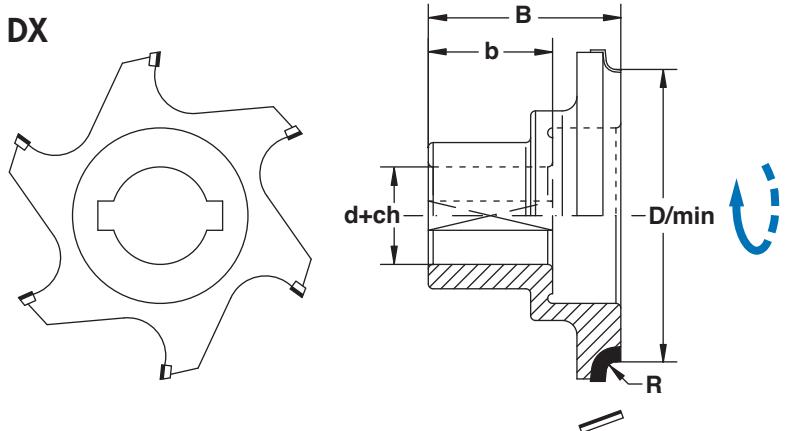
Caratteristiche

Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

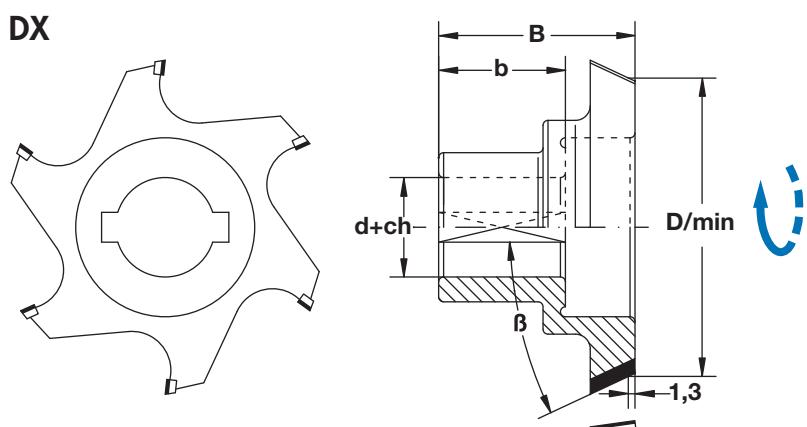
Characteristics

Cutterheads for edge-banding machines.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

D/min	B	b	d+ch	R	Z	MACCHINA	ID nr. DX	ID nr. SX
60	39,5	25,5	20+2	1	6	BIESSE	5059001	5059002
60	39,5	25,5	20+2	2	6		5059003	5059004
60	39,5	25,5	20+2	3	6		5059005	5059006
60	39,5	25,5	20+2	4	6		5059007	5059008
60	39,5	25,5	20+2	5	6		5059009	5059010



D/min	B	b	d+ch	β	Z	MACCHINA	ID nr. DX	ID nr. SX
60	39,5	25,5	20+2	25°	6	BIESSE	5059021	5059022

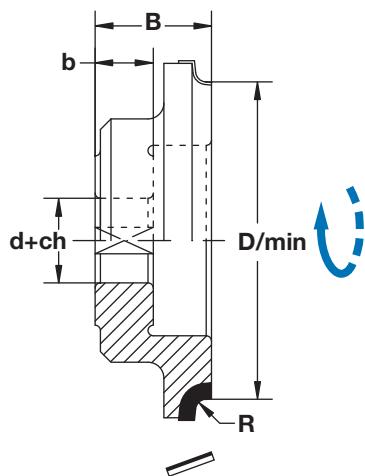
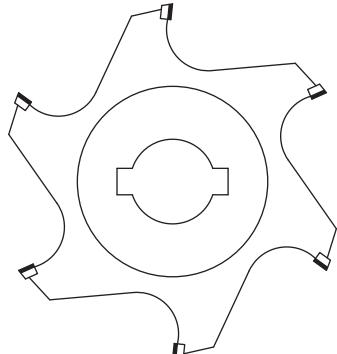


Frese per macchine bordatrici.
 Cutterheads for edge-banding machines.
 Fraises pour machines à border.
 Messerköpf für Bördelmachine.
 Fresas para máquinas canteadoras.

5059

D/min	B	b	d+ch	R	Z	MACCHINA	ID nr. DX	ID nr. SX
60	22	11	16+2	1	6	BIESSE	5059031	5059032
60	22	11	16+2	2	6		5059033	5059034
60	22	11	16+2	3	6		5059035	5059036
60	22	11	16+2	4	6		5059037	5059038
60	22	11	16+2	5	6		5059039	5059040

DX



MEC



MEC



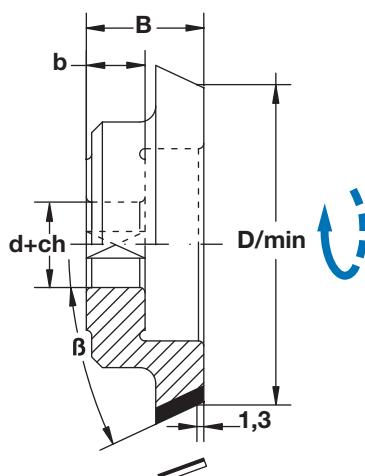
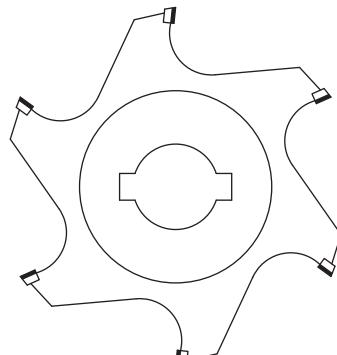
Caratteristiche

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.

DX



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 Wendeplatten.

Fresas para juego redondeador final para máquinas canteadoras.



Caratteristiche

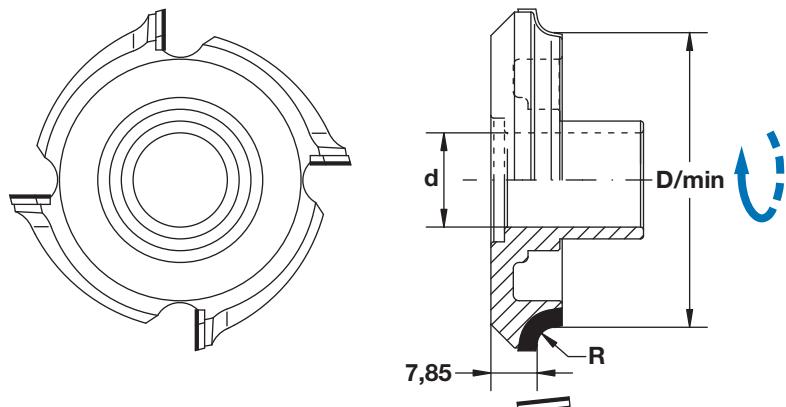
Frese a raggiare per macchine bordatrici.
Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
Altezza diamonte 3mm.

Characteristics

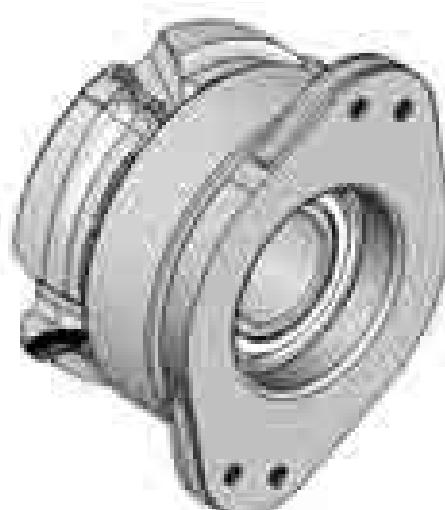
Cutterheads for edge-banding machines with double radius.
For making the edges on chipboards coated panels, MDF and more.
Diamond height 3mm.

D/min	d	R	Z	MACCHINA	ID nr. DX	ID nr. SX
50	16	2	4		5060001	5060002
50	16	3	4	SCM-STEFANI	5060003	5060004

SX



ESEMPIO DI MONTAGGIO

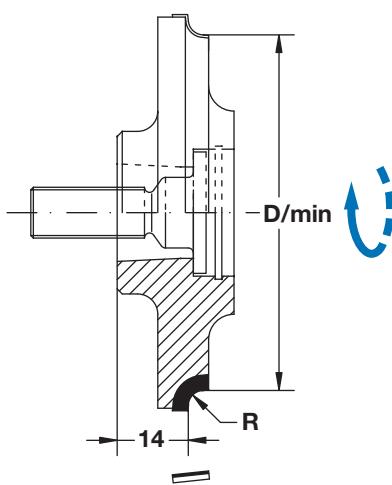
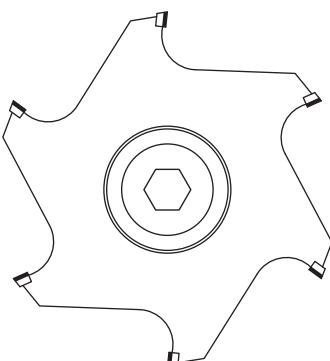


Frese per macchine bordatrici con motori HSK-25R.
 Cutters for edge-banding machines with motors HSK-25R.
 Fraises pour machines à border pour moteurs HSK-25R.
 Wendeplatten Nutfräser für Motor HSK-25R.
 Fresas para máquinas canteadoras con motor HSK-25R.

5051

D/min	Att.	R	Z	ID nr. DX	ID nr. SX
70	HSK-25R	1	6	5051001	5051002
70	HSK-25R	2	6	5051003	5051004
70	HSK-25R	3	6	5051005	5051006
70	HSK-25R	4	6	5051007	5051008
70	HSK-25R	5	6	5051009	5051010

DX



MEC

Caratteristiche

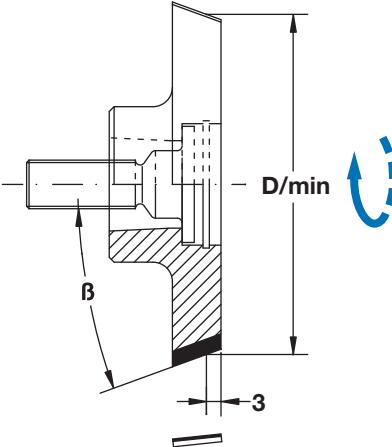
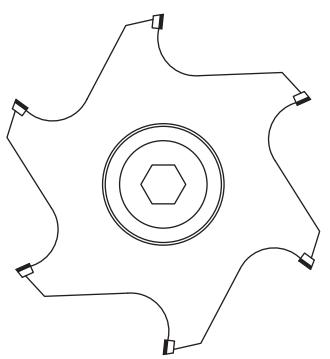
Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF e altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

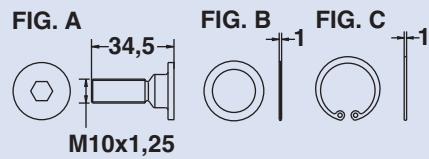
D/min	Att.	β	Z	ID nr. DX	ID nr. SX
70	HSK-25R	20°	6	5051011	5051012

DX



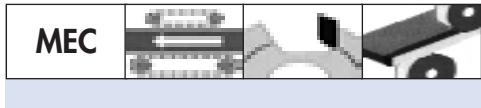
RICAMBI

	VITE (FIGURA-A)	ANELLO (FIGURA-B)	SEEGER (FIGURA-C)
Dimensioni	M10x1,25	$\varnothing 25 \times 1 \times 18$	UNI 7437 $\varnothing 25$
ID nr.	505101	505102	505103



5061

Frese per macchine bordatrici con motori HSK-32.
Cutters for edge-banding machines with motors HSK-32.
 Fraise pour machines à border pour moteurs HSK-32.
Wendeplatten Nutfräser für Motor HSK-32.
 Fresas para máquinas canteadoras con motor HSK-32.



Caratteristiche

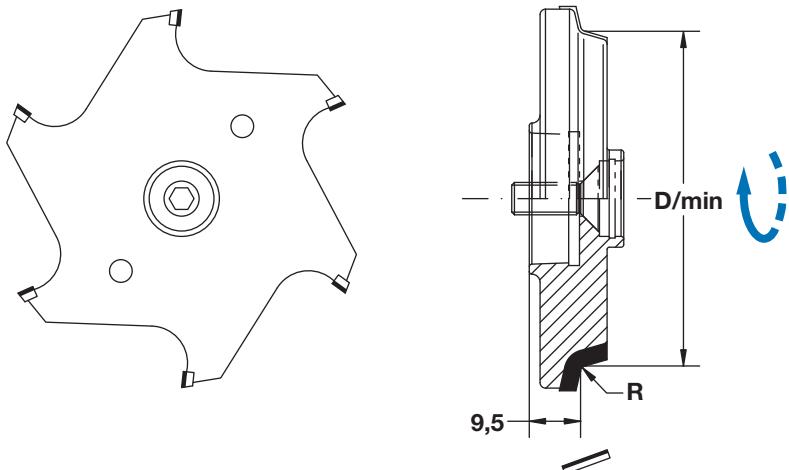
Frese per macchine bordatrici.
 Per eseguire la spigolatura di pannelli truciolari rivestiti, MDF o altri.
 Altezza diamante 3mm.

Characteristics

Cutterheads for edge-banding machines.
 For making the edges on chipboard coated panels, MDF and more.
 Diamond height 3mm.

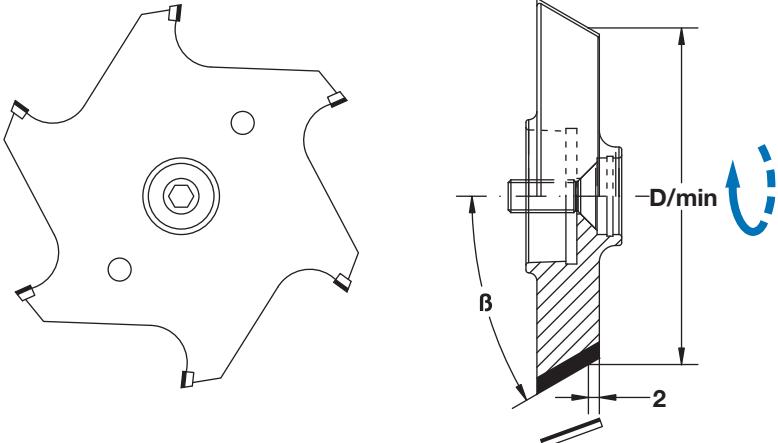
D/min	Att.	R	Z	ID nr. DX	ID nr. SX
62	HSK-32	1	6	5061001	5061002
62	HSK-32	2	6	5061003	5061004
62	HSK-32	3	6	5061005	5061006
62	HSK-32	4	6	5061007	5061008
62	HSK-32	5	6	5061009	5061010

DX



D/min	Att.	B	Z	ID nr. DX	ID nr. SX
62	HSK-32	20°	6	5061021	5061022

DX



RICAMBI

FIG. A

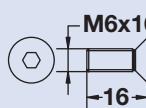


FIG. B

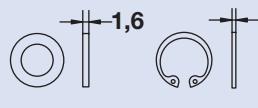


FIG. C



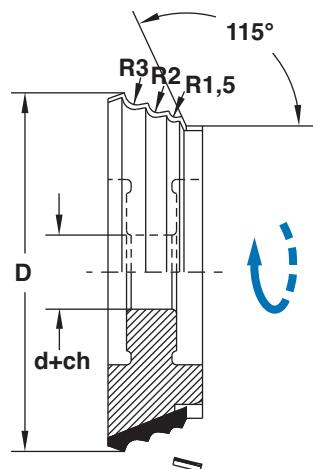
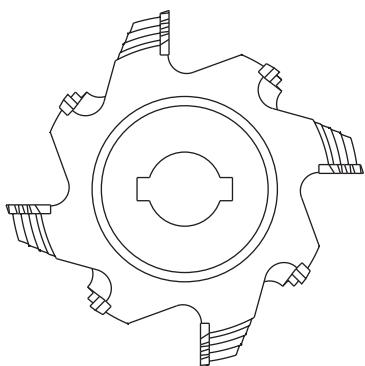
	VITE (FIGURA-A)	ANELLO (FIGURA-B)	SEEGER (FIGURA-C)
Dimensioni	M6x16	Ø14x1,6x8,4	UNI 7437-Ø14
ID nr.	9546012	5061101	5061102

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	5052001	5052002

DX



MEC

Caratteristiche

Frese a raggiare per macchine bordatrici, per eseguire la spigolatura di pannelli truciolari rivestiti, MDF e altri.

Altezza diamante 3mm.

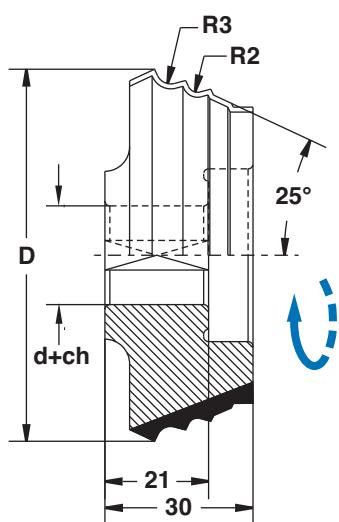
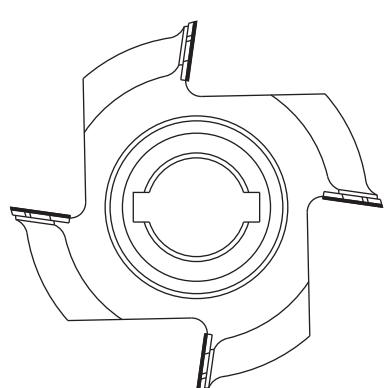
Characteristics

Cutterheads for edge-banding machines for making the edges on chipboard coated panels, MDF and more.

Diamond height 3mm.

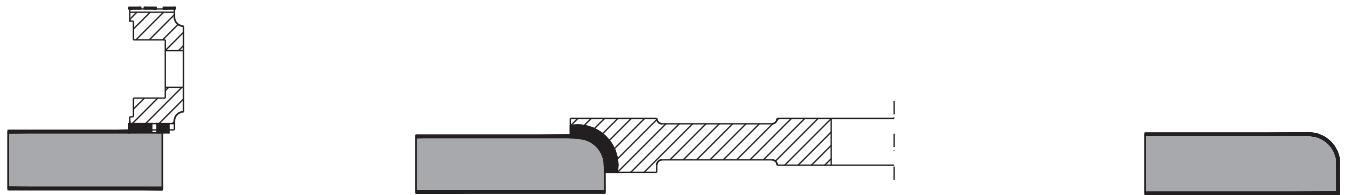
D	d+ch	R	Z	MACCHINA	ID nr. DX	ID nr. SX
75	16+2	2-3-25°-DIRITTO	4	BIESSE	5052003	5052004

DX

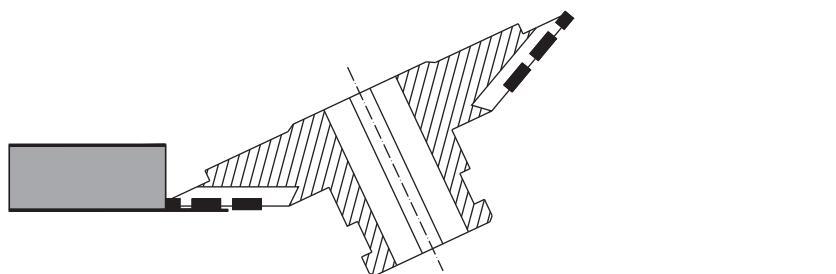




POST - FORMING



PRE - FORMING

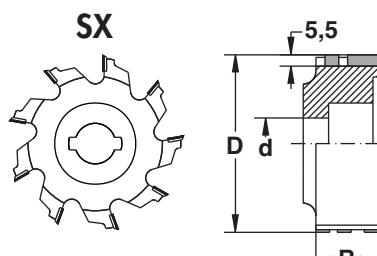


Frese rasanti per SOFT/POST-FORMING.
Trimming cutters for SOFT/POST-FORMING.
 Fraises pour SOFT/POST-FORMING.
Fräser für SOFT/POST-FORMING.
 Fresas rasantes para SOFT/POSTFORMADOS.

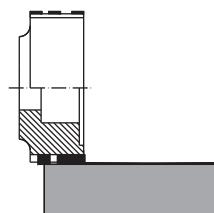
5026

D	B	d	Z	ID nr. DX	ID nr. SX
70	12	*	9+3	5026 001	5026 004
70	20	*	9+3	5026 002	5026 005
70	25	*	9+3	5026 003	5026 006

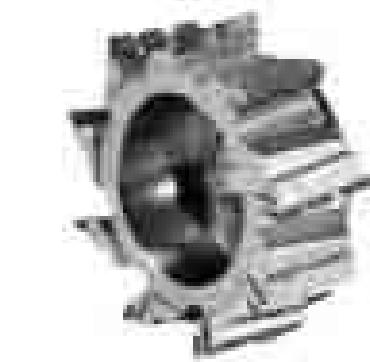
*Fori a richiesta
**Holes on request*



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.



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.

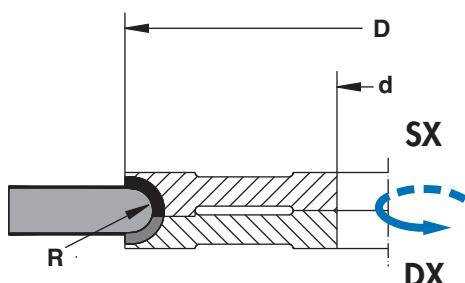
Characteristics

Cutters for the removal of plastic leaf on edgetracing machines, for soft/post-forming, with excellent finish. Diamond height 5,5mm.

5027

D	R	d	Z	ID nr.
120÷200	5	*	4	5027 001
120÷200	6	*	4	5027 002
120÷200	8	*	4	5027 003
120÷200	9	*	4	5027 004
120÷200	10	*	4	5027 005
120÷200	12	*	4	5027 006
120÷200	15	*	4	5027 007

*Fori a richiesta
**Holes on request*



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



MEC



Caratteristiche

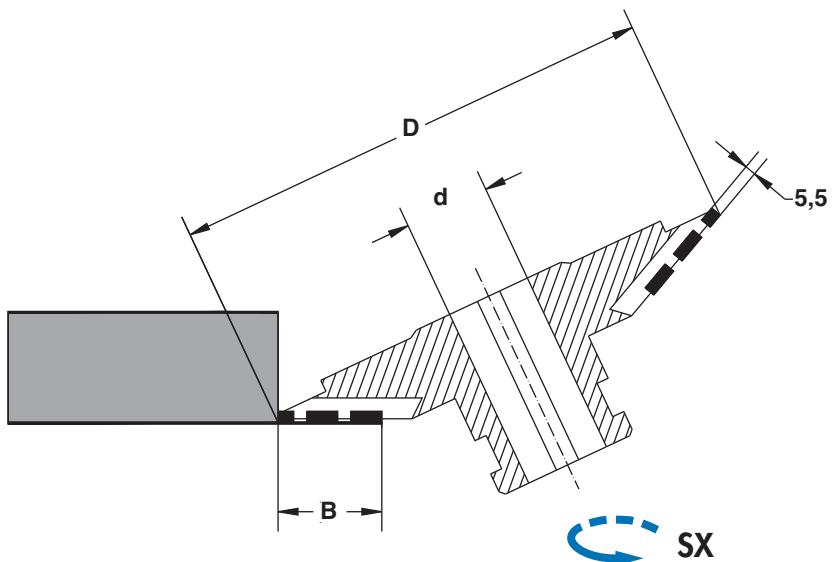
Fresa piattabanda per la finitura del laminato da curvare sul pre-forming. Lavora dopo il truciolatore. Ottima finitura della parte lavorata. Altezza diamante 5,5mm.

Characteristics

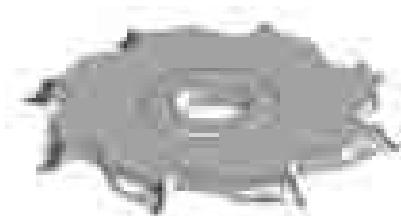
Panel raising for the finish of curved laminated. It works after the hogging set. Excellent finish. Diamond height 5,5mm.

**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



MEC



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

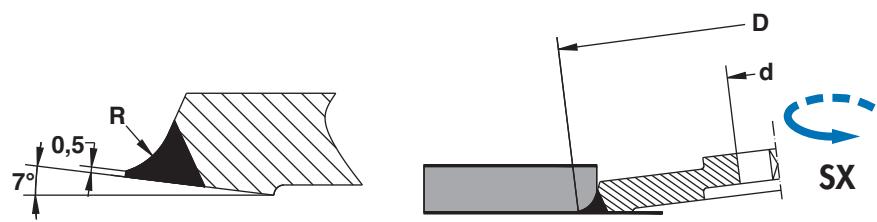
Cutter for making the radius on pre-forming. It works after the panel raising ART. 5028. ATTENTION: All radius with decimal numbers are in the bigger measure: EXAMPLE r5,3 = r6

**Frese a raggiare per PRE-FORMING.
Sides round cutters for PRE-FORMING.
Arrondit fraises pour PRE-FORMING.
Radiuschniden Fräser für PRE-FORMING.
Fresas para la realización de cantos con radios diferentes para PRÉ-FORMADO.**

D	R	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

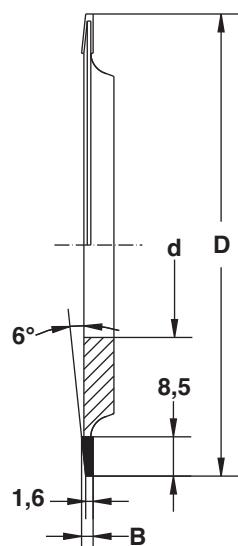
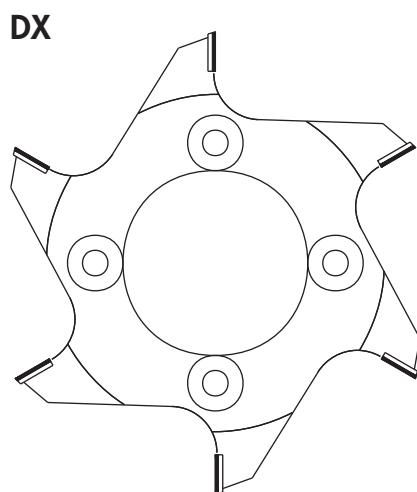


Lama per PRE-FORMING.
Sawblade for PRE-FORMING.
 lame pour PRE-FORMING.
Sägeblat für PRE-FORMING.
 Sierra para PRÉ-FORMADO.

5030

D	B	d	Z	ID nr. DX	ID nr. SX
100	2,5	*	6	5030 001	5030 002

*Fori a richiesta
**Holes on request*



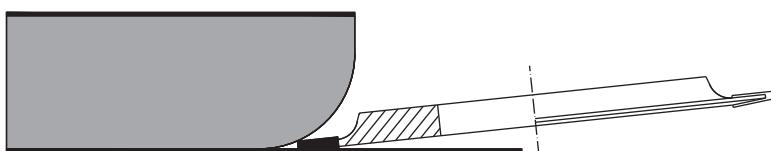
Caratteristiche

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.

ESEMPIO DI LAVORAZIONE



5031



MEC



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.

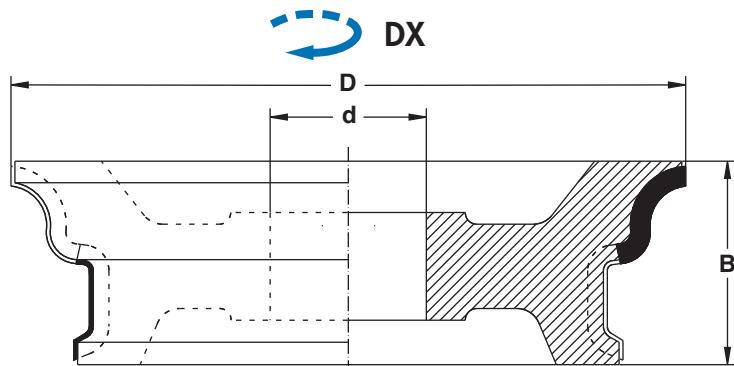
Characteristics

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



MEC



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.

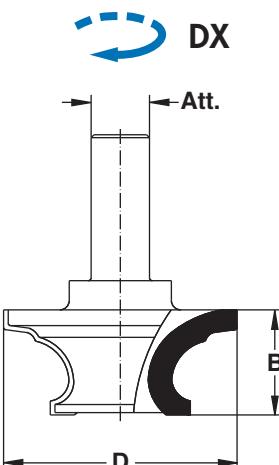
Characteristics

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	Att.	Z	ID nr. DX	ID nr. SX
*	*	*	*	5032001	5032002

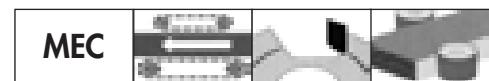
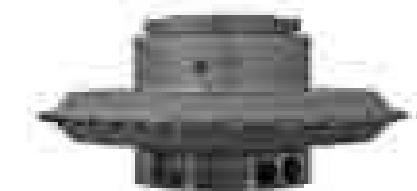
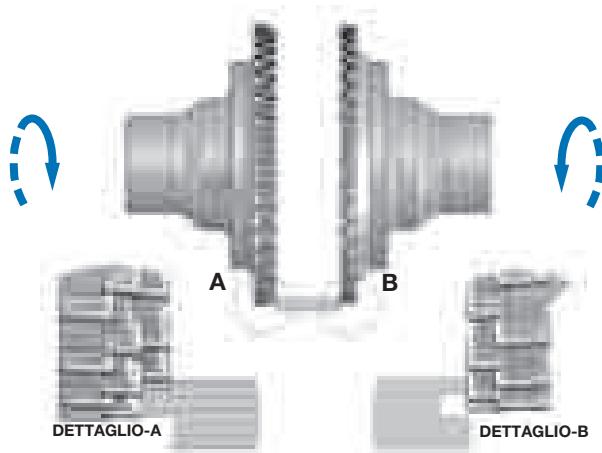
*Misure a richiesta (prezzo a preventivo)
*Measure on request (ask for offert)



Gruppi sagomati per parquets.
Shared groups for parquets.
 Groupes profilés pour parquets.
Gruppe mit profil für parquets.
 Juego de fresas perfiladas para parqué.

5033

Denominazione	D	Z	ID nr.
FINITURA SUPERIORE	200	36	5033001



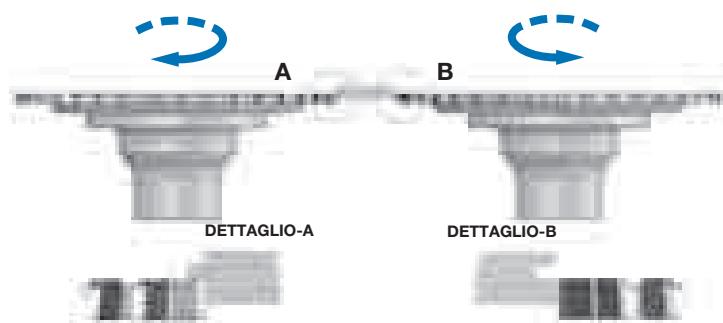
Caratteristiche

Sequenza di utensili per la lavorazione dei parquets.
 Su richiesta si esegue ogni tipo di profilo, per la lavorazione su macchine manuali o automatiche.

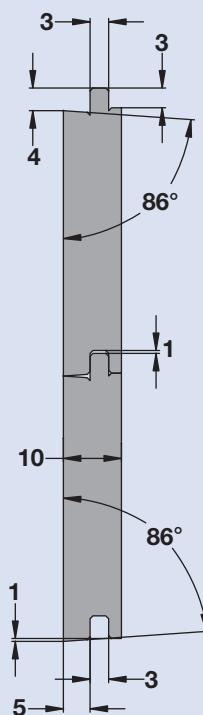
Characteristics

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.

Denominazione	D	Z	ID nr.
SGROSSATURA INFERIORE	260	36	5033002

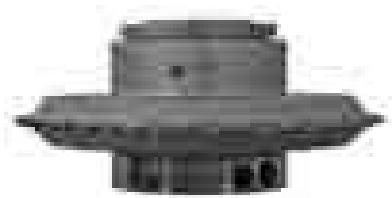


PROFILO ESEGUITO

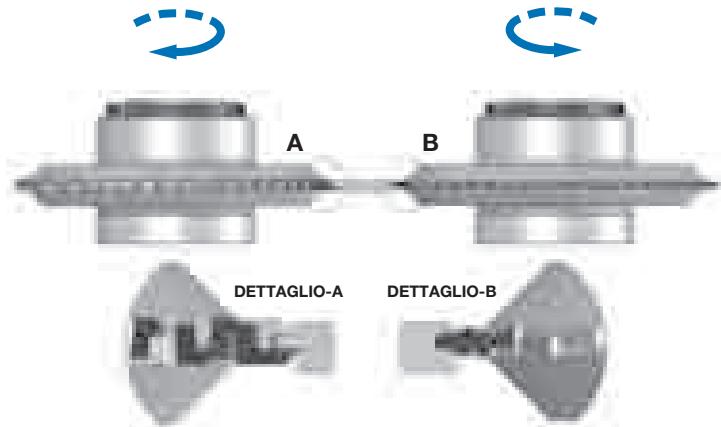


5033

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 SAGOMA	260	24	5033003



MEC



Caratteristiche

Sequenza di utensili per la lavorazione dei parquets.

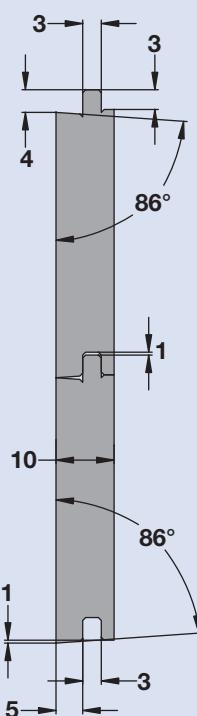
Su richiesta si esegue ogni tipo di profilo, per la lavorazione su macchine manuali o automatiche.

Characteristics

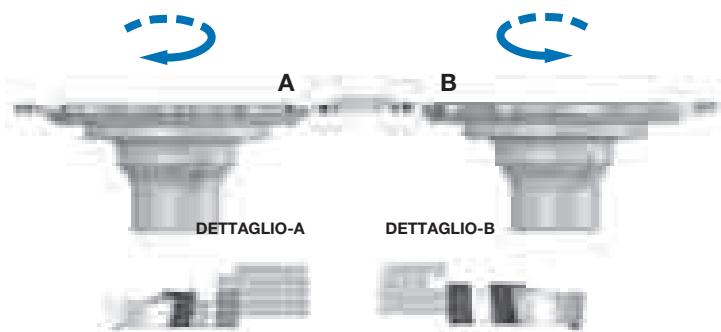
Set of tools to realise parquets.

It is possible to make every kind of profile on request and use it on both manual and automatic machines.

PROFILO ESEGUITO



Denominazione	D	Z	ID nr.
FINITURA INFERIORE	260	16	5033004



Punta a coda di rondine per profili in alluminio.

Dovetailing tip for aluminium.

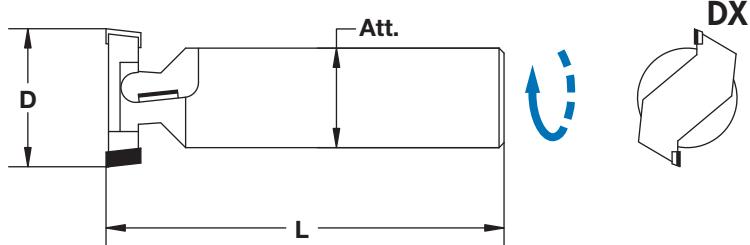
Mèche à queue d'aronde pour aluminium.

Schwalbenschwanzbohrer für Aluminium.

Broca a cola de golombrina para perfiles en aluminio.

5035

D	L	Att.	TIPO	Z	ID nr. DX
14	65	Ø12x50	1	2	5035 002
22,5	80	Ø20x50	2	2+2	5035 003
25	75	Ø20x50	3	2+2	5035 004
27	75	Ø20x50	4	2+2	5035 005
28	75	Ø20x50	5	2+2	5035 006
33	80	Ø20x50	6	2+2	5035 007



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.

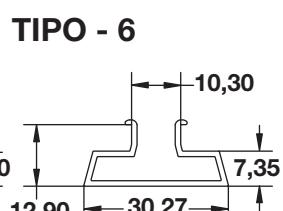
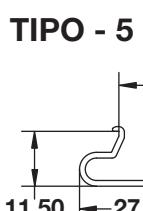
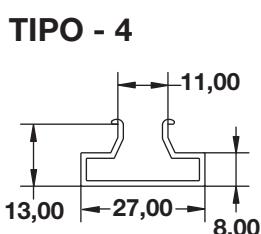
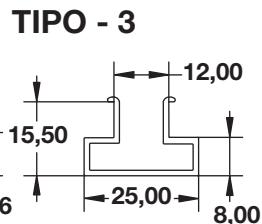
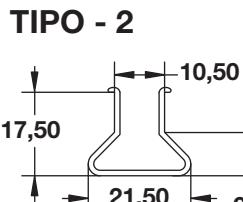
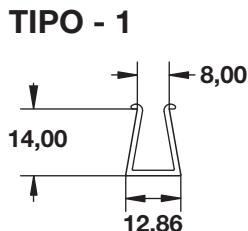
Characteristics

Dovetailing tip to make aluminium profiles between our profiles or on demand.

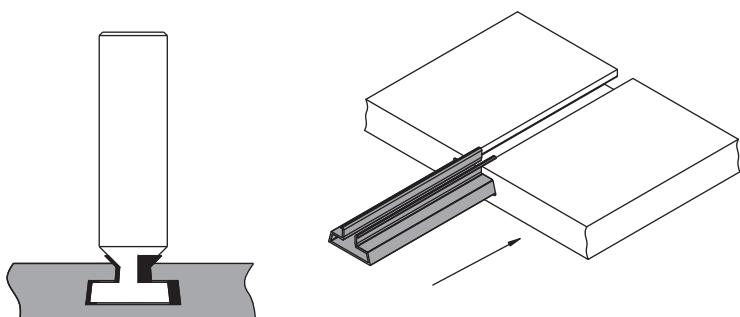
Suitable to work on chipboard panels, MDF, overlaid panel and not, laminated in general.

Diamond height 3mm.

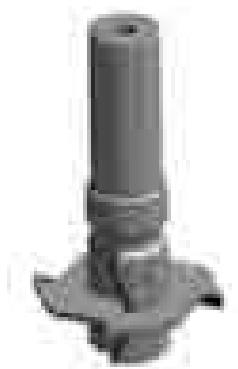
ESEMPI DI PROFILI



ESEMPIO DI LAVORAZIONE



5036



Caratteristiche

Gruppi di fresa 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.

Gruppi per eseguire canali e squadratura su macchine CNC.

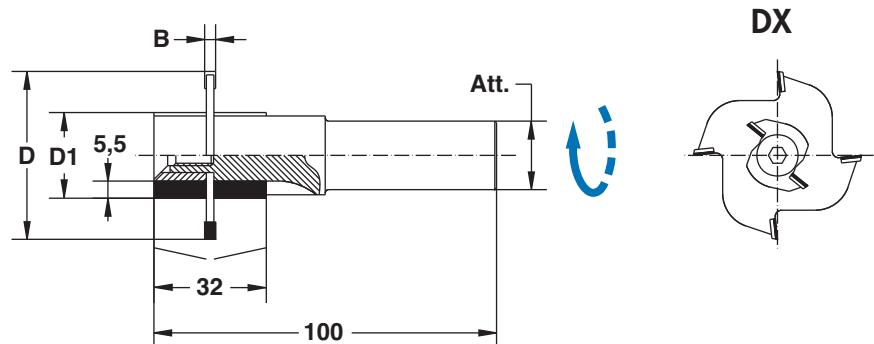
Grooving cutter set to make cuts and squaring on CNC machines.

Jeu de fraises à rainer pour rainures et équarissages sur CNC machines.

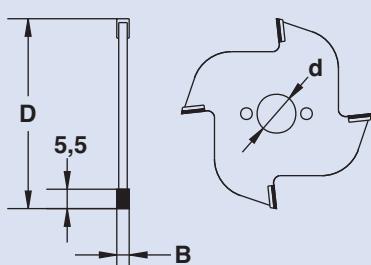
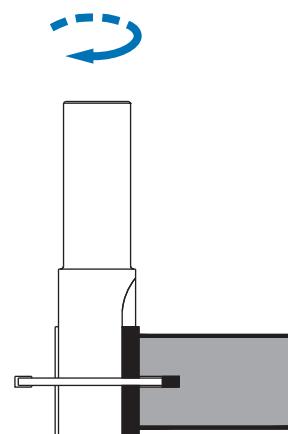
Regelbar Nutfräser für Auskeh lung und Abvierern auf CNC Maschinen.

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	5036001	5036002
55	30	4	Ø20x50	2+4+2	5036003	5036004
55	30	5	Ø20x50	2+4+2	5036005	5036006
55	30	6	Ø20x50	2+4+2	5036007	5036008



ESEMPIO DI LAVORAZIONE



RICAMBI

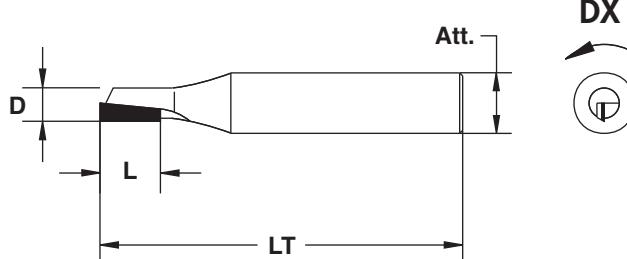
LAME DI RICAMBIO				
D	B	d	Z	ID
55	3	Ø10+2	4	5036051
55	4	Ø10+2	4	5036052
55	5	Ø10+2	4	5036053
55	6	Ø10+2	4	5036054

Punte Z1 forate e contornate per pantografo.
 Drills Z1 to perforate and blank for pantograph.
 Mèches Z1 à percer et contourner pour pantographe.
 Bohrer Z1 zu bohren und umgeben für Oberfräser.
 Broca Z1 para taladrar y contornear para fresadora.

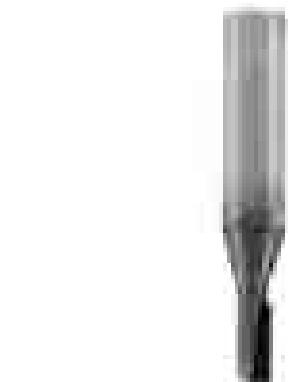
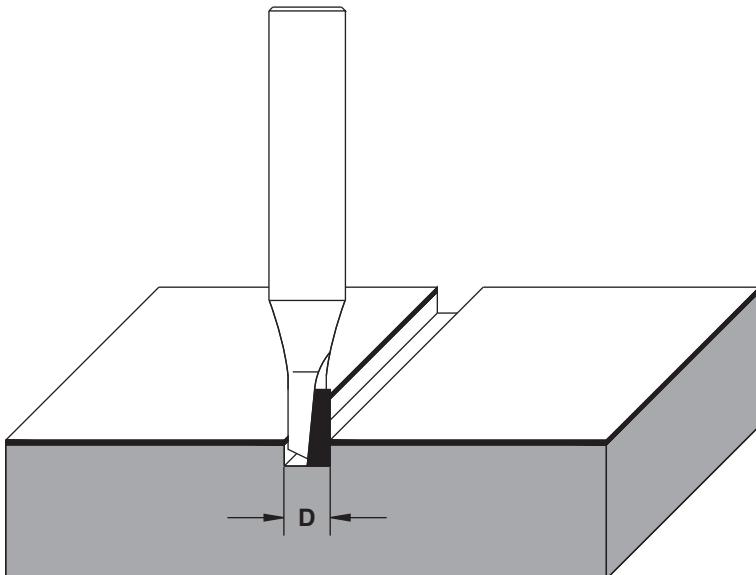
5037

D	L	Att.	LT	ID nr. DX
5*	10	Ø12	60	5037001
6*	10	Ø12	60	5037002
7	10	Ø12	60	5037003
8	15	Ø12	70	5037004
9	15	Ø12	70	5037005
10	15	Ø12	70	5037006
12	26	Ø12	80	5037007

*Costruite in acciaio densimet
 *Made in densimel steel



ESEMPIO DI LAVORAZIONE



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 foro 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	5062001
8	15	Ø12x50	75	5062002
10	15	Ø12x50	75	5062003
12	20	Ø12x50	80	5062004
14	25	Ø12x50	85	5062005
16	33	Ø16x50	95	5062006

MEC

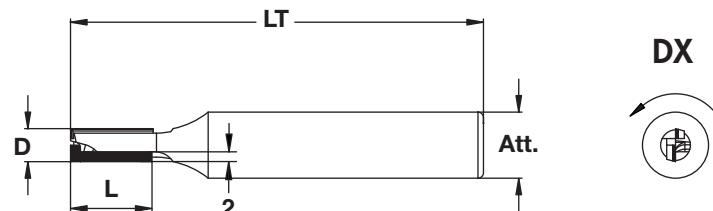


Caratteristiche

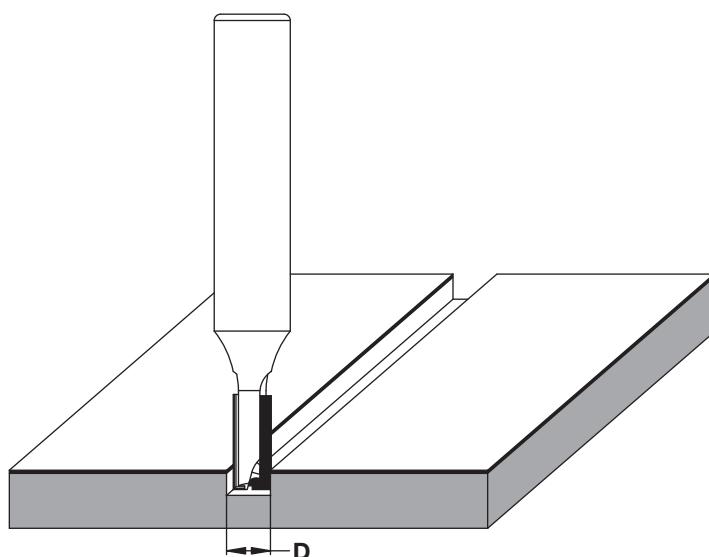
Punte con corpo in acciaio ad alta resistenza adatte alla lavorazione di pannelli in truciolare rivestiti e non, MDF, laminati in genere. Idonee a lavorazioni interne al pannello dove occorre ottenere piccoli raggi di curvatura. Altezza diamante 2mm.

Characteristics

High efficiency drills with body 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.



ESEMPIO DI LAVORAZIONE



Punte in diamante per pantografo per lavorazioni "Nesting".

Drills for pantograph for "Nesting" processing in diamond.

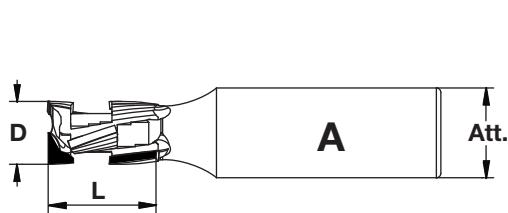
Mèches pour pantographe pour "Nesting" en diamant.

Spitze für Stromabnehmer für "Nesting" zu Diamant.

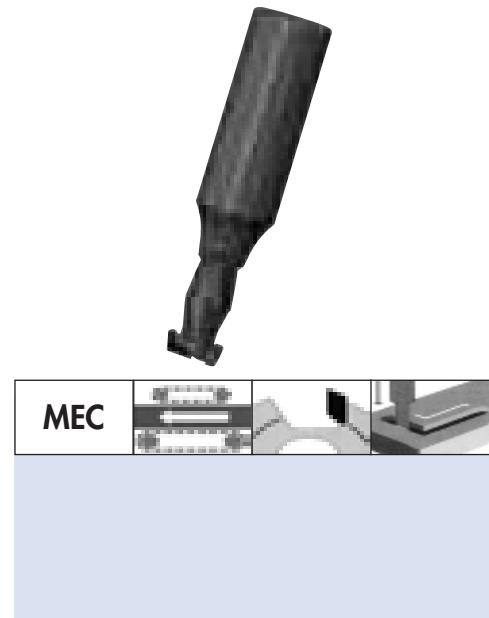
Broca para fresadora para "Nesting" en diamante.

5068

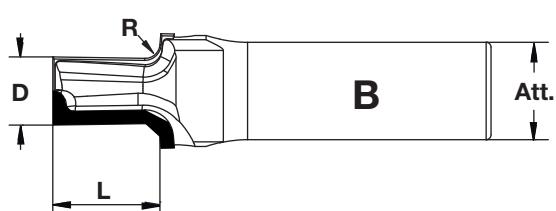
D	B	Att.	Z	Tipo	ID nr. DX
14	24	Ø20x50	2+1	A	5068 001



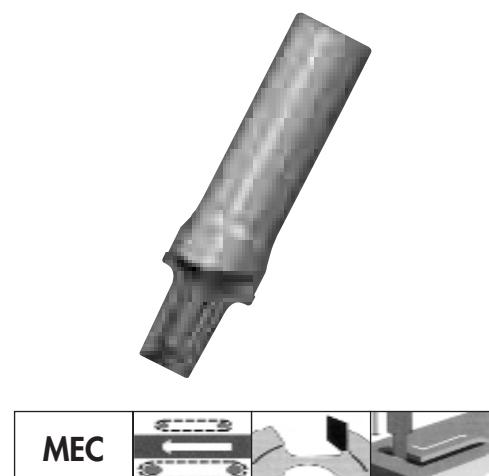
DX



D	B	Att.	R	Z	Tipo	ID nr. DX
14	22	Ø20x50	2	2	B	5068 021
14	22	Ø20x50	3	2	B	5068 022



DX



MEC

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 evauation during removal.

Excellent finish panel with axial angle.

On coated chipboard and not, MDF, laminated in general.

5039



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.

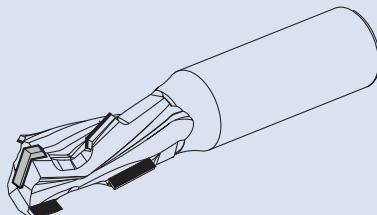
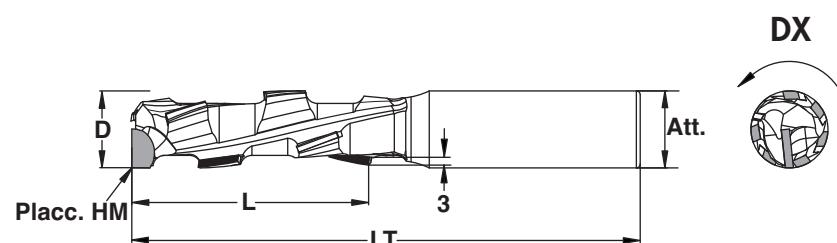
On coated chipboard and not, MDF, laminated in general.

Diamond height 3mm.

Punte tipo ECONOMICO Z3 forate e contornate 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 filetée.
Bohrer PREISWERT Typ Z3 zu bohrer und umgeben für Oberfräser mit Gewindschaft.
 Broca tipo ECONÓMICO Z3 para taladrar y contornear para fresadora mango cilíndrico.

D	L	Att.	LT	n° Placchette	ID nr. DX	ID nr. SX
10	25	Ø12x45	80	3+1HM	5039043	5039044
12	25	Ø12x45	80	3+1HM	5039001	5039002
12	35	Ø12x45	87,5	4+1HM	5039003	5039004
16	27,5	Ø20x50	88,5	3+1HM	5039005	5039006
16	36	Ø20x50	97	4+1HM	5039007	5039008
16	44,5	Ø20x50	105,5	5+1HM	5039009	5039010
18	27,5	Ø20x50	88,5	3+1HM	5039011	5039012
18	36	Ø20x50	97	4+1HM	5039013	5039014
18	44,5	Ø20x50	105,5	5+1HM	5039015	5039016
18	53	Ø20x50	114	6+1HM	5039017	5039018
20	27,5	Ø20x50	88,5	3+1HM	5039019	5039020
20	36	Ø20x50	97	4+1HM	5039021	5039022
20	44,5	Ø20x50	105,5	5+1HM	5039023	5039024
20	53	Ø20x50	114	6+1HM	5039025	5039026
20	61,5	Ø20x50	120	7+1HM	5039045	5039046
18	27,5	Ø25x55	96	3+1HM	5039027	5039028
18	36	Ø25x55	102	4+1HM	5039029	5039030
18	44,5	Ø25x55	110	5+1HM	5039031	5039032
18	53	Ø25x55	120	6+1HM	5039033	5039034
20	27,5	Ø25x55	96	3+1HM	5039035	5039036
20	36	Ø25x55	102	4+1HM	5039037	5039038
20	44,5	Ø25x55	110	5+1HM	5039039	5039040
20	53	Ø25x55	120	6+1HM	5039041	5039042
20	61,5	Ø25x55	128	7+1HM	5039047	5039048

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Punte tipo ECONOMICO Z4 forate e contornate 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 filetée.
 Bohrer PREISWERT Typ Z4 zu bohren und umgeben 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%

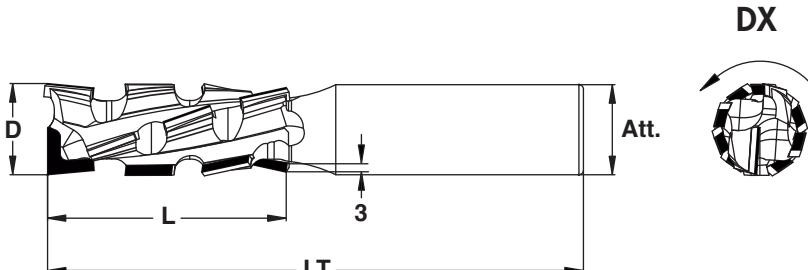


Caratteristiche

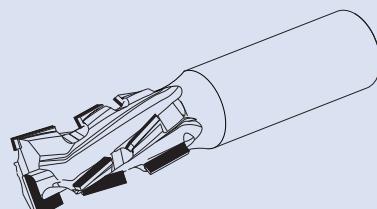
Punta in diamante tipo economico per pantografo, per eseguire: fori, scanalature, battute, sgrossature all'interno dei pannelli. Ottima finitura della parte superiore ed inferiore del pannello grazie all'angolo assiale. Su truciolare rivestito e non, MDF, laminati in genere. Altezza diamante 3mm.

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

Punte forate e contornate 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.



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.

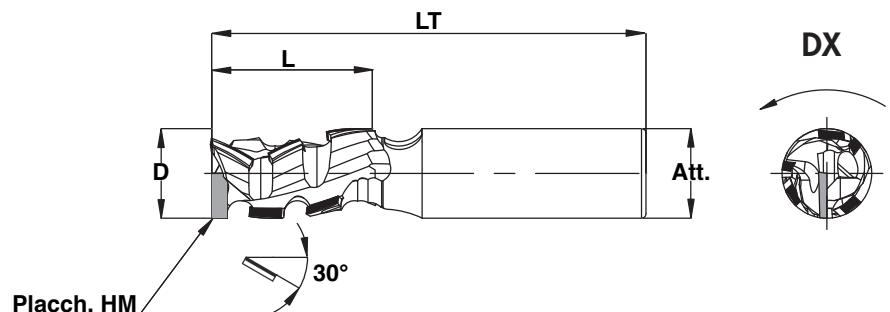
The high axial angle gives to the tool a lowest aggression in the step of contact with the material to be work, and in the same time permits o compress more the covering of the panel removing the chip in particular in exit phase.

Excellent for works at hight speed, on chipboard coated panels and not, MDF, laminated in general.

Diamond height 3mm.

D	L	Att.	LT	n° Placchette	ID nr. DX	ID nr. SX
16	28	16x50	90	4+2+1HM	5063 021	5063 022
16	36	16x50	98	6+2+1HM	5063 023	5063 024
16	44	16x50	106	8+2+1HM	5063 025	5063 026
18	28	20x50	90	4+2+1HM	5063 027	5063 028
18	36	20x50	98	6+2+1HM	5063 029	5063 030
18	44	20x50	106	8+2+1HM	5063 031	5063 032
18	52	20x50	114	10+2+1HM	5063 033	5063 034
20	28	20x50	90	4+2+1HM	5063 035	5063 036
20	36	20x50	98	6+2+1HM	5063 037	5063 038
20	44	20x50	106	8+2+1HM	5063 039	5063 040
20	52	20x50	114	10+2+1HM	5063 041	5063 042
20	64	20x50	126	13+2+1HM	5063 043	5063 044

Attacco CM2 aumento 20%
 Shank CM2 increase 20%



Punte tipo POWER Z3 forate e contornate 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 filetée.
 Bohrer POWER Typ Z3 zu bohren und umgeben für Oberfräser mit Gewindschaft.
 Broca tipo POWER Z3 para taladrar y contornear para fresadora mango cilíndrico.

5066

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%

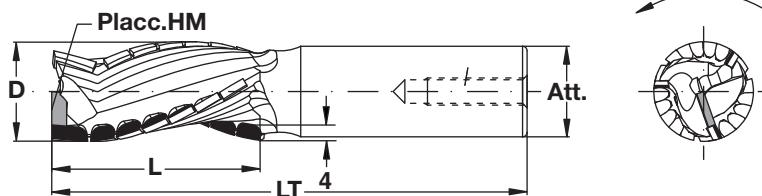


Caratteristiche

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.

DX



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.

Diamond height 4mm.

5067



Punte forate 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 Gewindestiel.
 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
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



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 trucioli rivestito e non, MDF, laminati in genere.

Altezza diamante 4,2mm

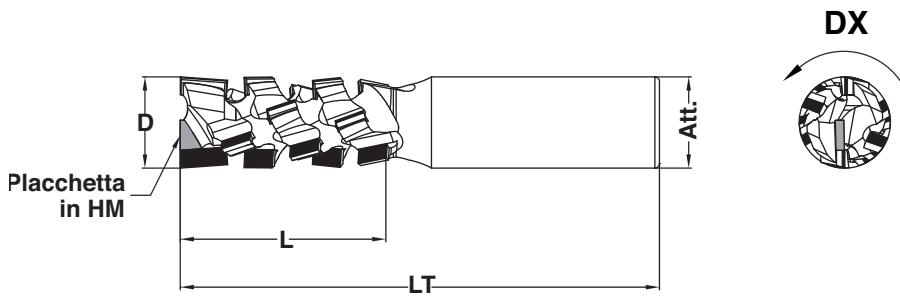
Characteristics

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 hight speed, on chipboard coated panels and not, MDF, laminated in general.

Diamond height 4,2mm.

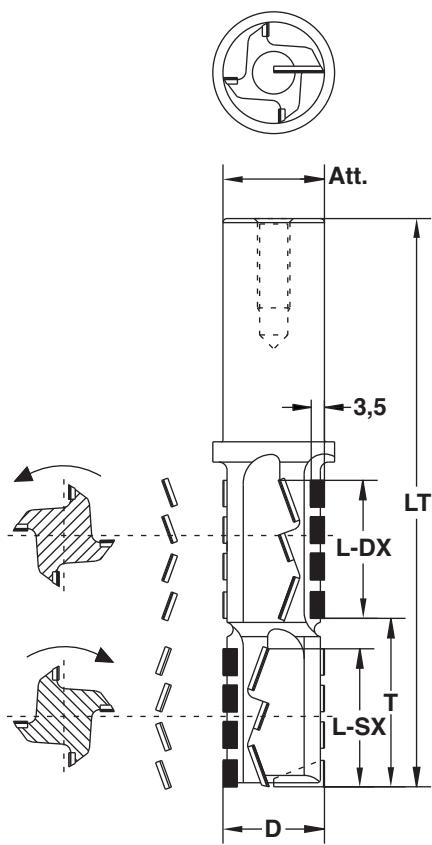
Attacco CM2 aumento 20%
Shank CM2 increase 20%



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 Umgeben 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	5050 004
25	34	34	140	42	Ø25x55	19+8+1	5050 003
25	42	42	157	50	Ø25x55	27+8+1	5050 001
25	50	50	175	57	Ø25x55	35+8+1	5050 002



MEC

Caratteristiche

Punta in diamante con 4 taglienti per pantografo, per eseguire squadature. Molto utilizzata su pantografi a CNC in quanto consente di risparmiare tempo sui cambi utensile. Particolamente 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

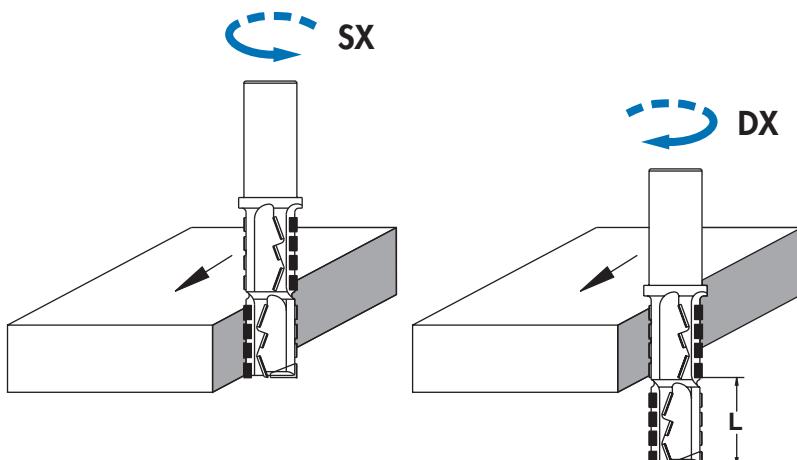
Diamond drill with 4 cuts for pantograph for makesquares.

Suitable frequently on CNC pantograph because it gives the possibility to save time.

Excellent for works at hight 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

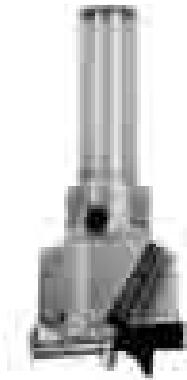
Punte per cerniere Z2+2.

Hinge drills Z2+2.

Mèches pour trous de précision Z2+2.

Beschlabohrer Z2+2.

Brocas para herramientas de puertas y ventanas Z2+2.



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

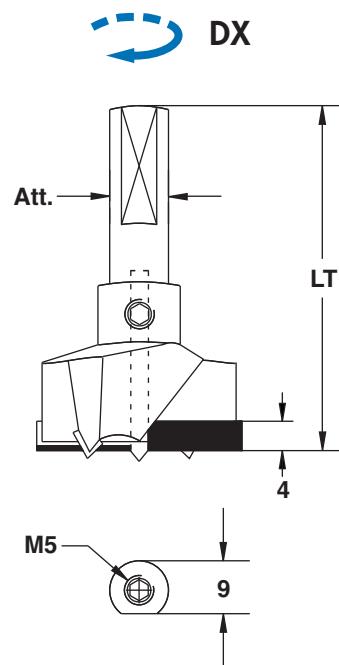
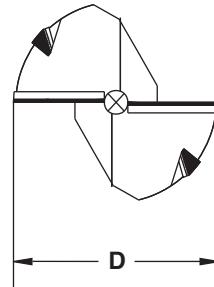
Diamond drill with for makes seats with excellent finish of upper part of panel and with diameter of hole constant for all his depth.

On chipboard coated panels and not, MDF, laminated in general.

To put on drilling machines.

Diamond height 4mm.

D	Att.	LT	ID nr. DX	ID nr. SX
25	Ø10x25	57,5	5044001	5044002
25	Ø10x25	70	5044003	5044004
30	Ø10x25	57,5	5044005	5044006
30	Ø10x25	70	5044007	5044008
35	Ø10x25	57,5	5044009	5044010
35	Ø10x25	70	5044011	5044012
40	Ø10x25	57,5	5044013	5044014
40	Ø10x25	70	5044015	5044016



RICAMBI

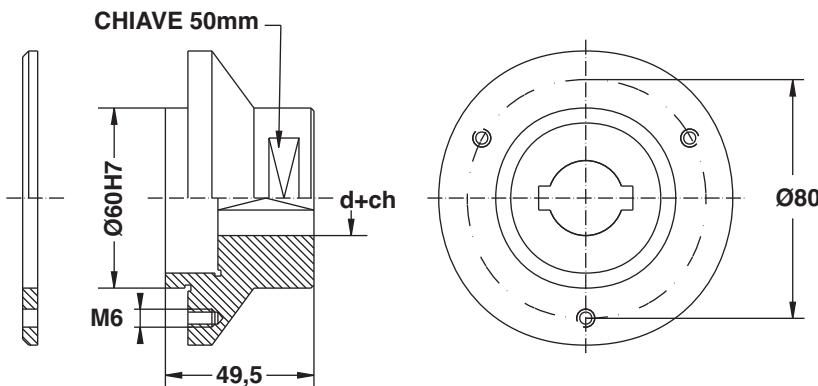
PUNTA CENTRALE

Dimensioni	Ø3x32
n° pezzi KIT	2
ID nr.	5044051

Mozzi porta-incisore.
Sleeves carrying scoring blades.
 Manchons porte-inciseurs.
Spannbüchse für Kreissägeblatt.
 Casquillos portaincisores.

5046

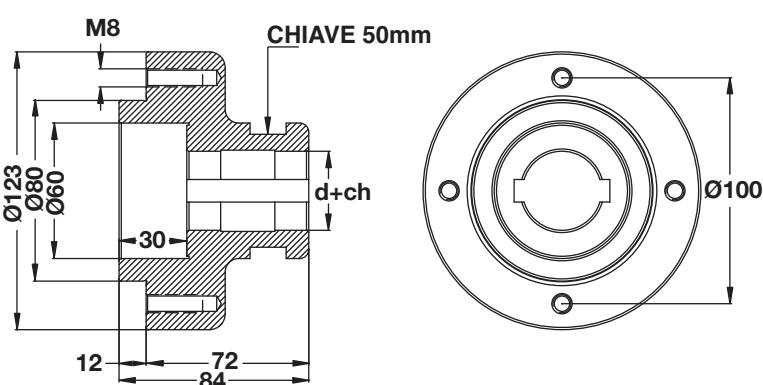
d+ch	ID nr.
25+2	5046001
30+2	5046002
35+2	5046003



Mozzi porta-truciolatore.
Sleeves carrying trimming hogger.
 Manchons porte-déchiqueteur.
Spannbüchse für Zerspaner.
 Casquillos portadesmenuzador.

5045

d+ch	ID nr.
35+2	5045003
40+2	5045004



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.



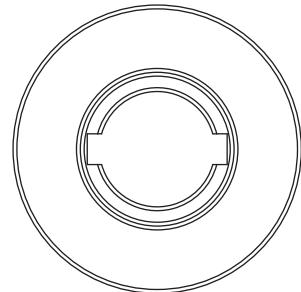
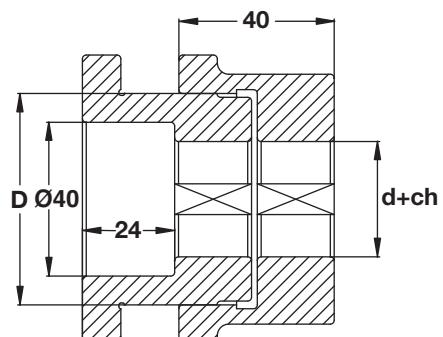
Caratteristiche

Mozzi portafrese per macchine squadratrici, bordatrici, toupie.

Characteristics

Sleeves for cutters for edgebander, doble-end, profiler and toupie machines.

d+ch	D	ID nr.
30+2	55	5065001
35+2	65	5065002
40+2	65	5065003



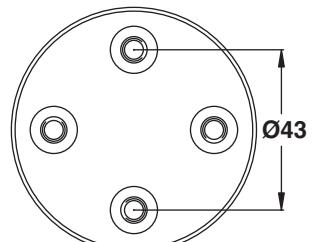
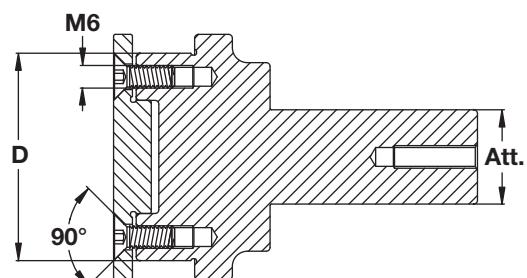
Caratteristiche

Mandrini portafrese per pantografi.

Characteristics

Chucks for cutters for pantographs.

D	Att.	ID nr.
55	Ø25x55	5065051



Mozzi porta-truciolatore alta precisione con fissaggio HIDRO.

Sleeves carrying-hogging high precision with HIDRO system.

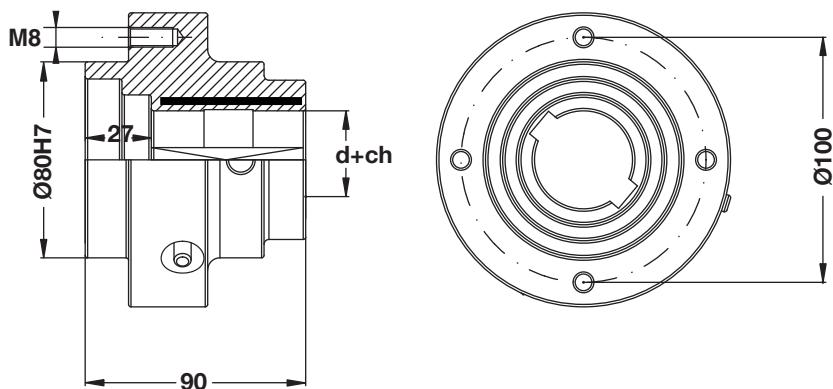
Moyeu porte-dechiqueteur haut precision avec HIDRO système.

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 blocaggi.

Eliminazione dei giochi tra utensile e albero motore.

Particolarmemente indicato per gli utensili in diamante.

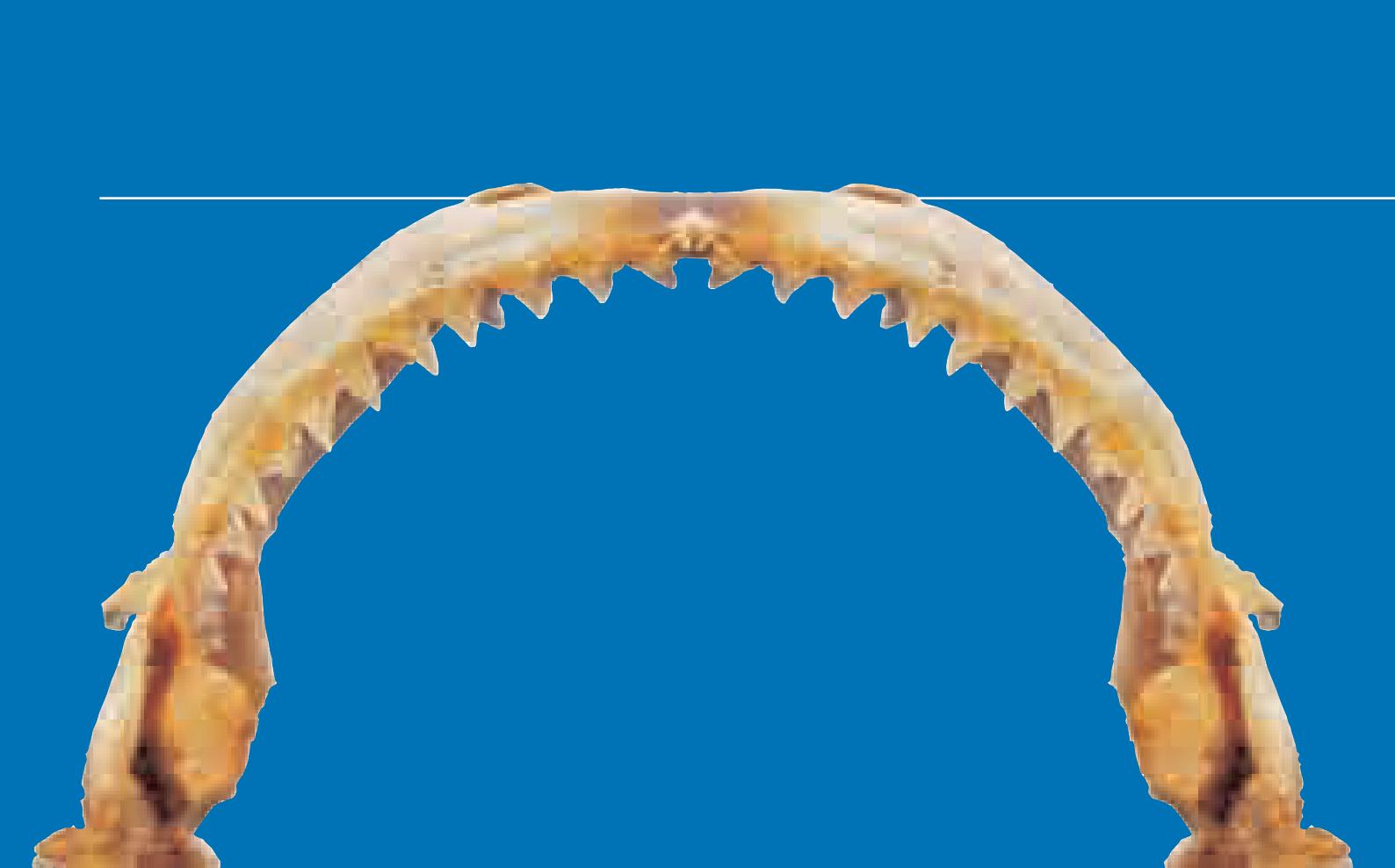
Characteristics

Sleeve of hight precision and safety.

It is possible to have an hight 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
Universal sawblades

P 389



Lame per sezionatrici
Panel sizing sawblades

P 397



Lame incisori
Scoring sawblades

P 400



Truciolatori
Hogging set

P 410



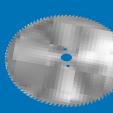
Lame per multilama
Multi sawblades

P 416



Lame per materiali ferrosi
Sawblades for ferrous materials

P 421



Lame per metalli non ferrosi
Sawblades for non ferrous metal

P 422



Lame silenziate universali
Universal silenced sawblades

P 425

6



Lame silenziate per sezionatrici
Silenced sawblades for panel

P 428

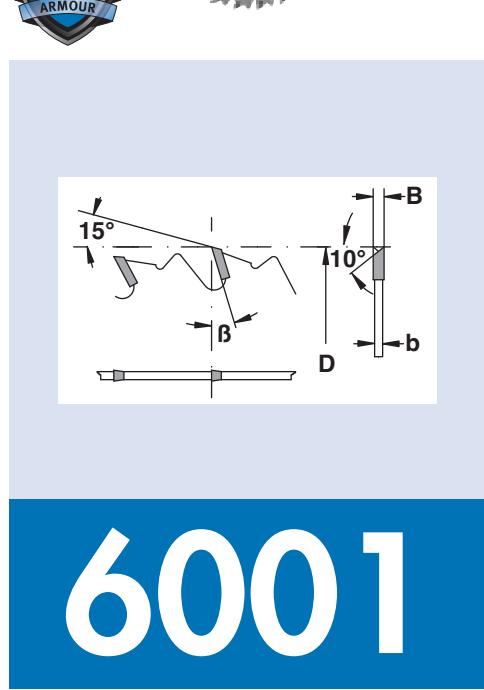
Lame circolari con limitatore di truciolo.
Circular sawblades with chip thickness limitation butts.
 Lames circulaires avec refouleur limitant.
Zuschneid Sägeblätter Wechselzahn.
 Discos de sierra con limitación para las virutas.

6007

= Disponibile anche silenziante vedi ART. 6501 / Also available with silenced body see ART. 6501

D	b	d	PH	Z	β	rpm	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.

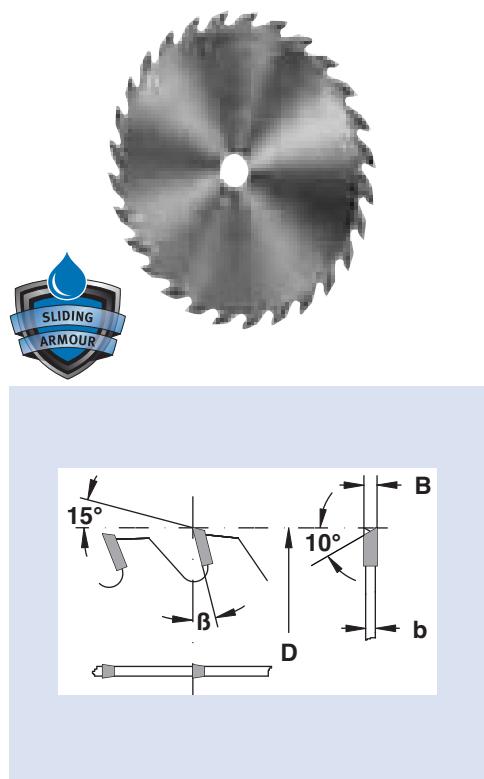


Lame circolari universali per taglio lungo vena.
Circular sawblades for ripping.
 Lames circulaires.
Zuschneid Sägeblätter.
 Discos de sierra para cortes longitudinales.

6001

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.



6002

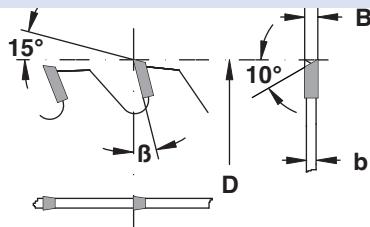
Lame circolari universali per taglio lungo vena.

Universal circular sawblades for ripping.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales.



6003

Lame circolari universali per taglio lungo e traverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales y transversales.

= Disponibile anche silenziante 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	6003021
180	3,2	2,2	30	PH03	30	13	6003022
200	3,2	2,2	30	PH03	34	13	6003023
200	3,2	2,2	35	-	34	13	6003004
220	3,2	2,2	30	PH03	34	13	6003005
250	3,2	2,2	30	PH03	40	13	6003006
250	3,2	2,2	35	-	40	13	6003007
300	3,2	2,2	30	PH03	48	13	6003008
300	3,2	2,2	35	-	48	13	6003009
350	3,5	2,5	30	PH03	54	13	6003010
350	3,5	2,5	35	-	54	13	6003011
400	4,0	2,8	30	PH03	60	13	6003017
400	4,0	2,8	35	-	60	13	6003018
450	4,4	3,2	30	PH03	66	13	6003019
500	4,4	3,2	30	PH03	72	13	6003020

Lame per taglio lungo e traverso vena con media finitura.

Sawblades for ripping and cross cutting with medium finish.

Lame circolari universali per taglio lungo e traverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

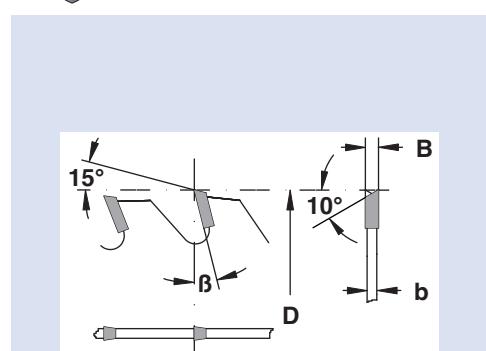
Discos de sierra para cortes longitudinales y transversales.

6004

D	B	b	d	PH	Z	β	ID nr.
150	3,2	2,2	30	PH03	30	12	6004019
180	3,2	2,2	30	PH03	36	12	6004020
220	3,2	2,2	30	PH03	48	12	6004003
250	3,2	2,2	30	PH03	48	12	6004004
250	3,2	2,2	35	-	48	12	6004005
300	3,2	2,2	30	PH03	60	12	6004006
300	3,2	2,2	35	-	60	12	6004007
350	3,5	2,5	30	PH03	72	12	6004008
350	3,5	2,5	35	-	72	12	6004009
400	4,0	2,8	30	PH03	80	12	6004015
400	4,0	2,8	35	-	80	12	6004016
450	4,4	3,2	30	PH03	84	12	6004017
500	4,4	3,2	30	PH03	108	12	6004018

Lame per taglio lungo e traverso vena con media finitura.

Sawblades for ripping and cross cutting with medium finish.



Lame circolari universali per taglio lungo e traverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

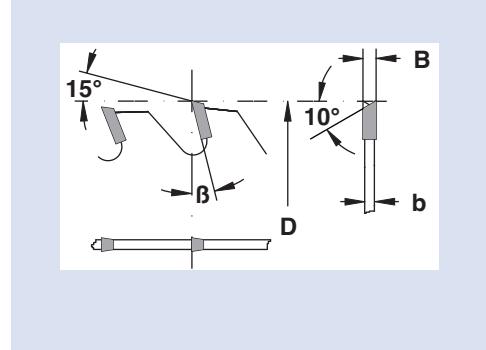
Discos de sierra para cortes longitudinales y transversales.

6005

D	B	b	d	PH	Z	β	ID nr.
150	3,2	2,2	30	-	36	12	6005021
180	3,2	2,2	30	-	48	12	6005022
200	3,2	2,2	30	-	48	12	6005023
200	3,2	2,2	35	-	48	12	6005004
220	3,2	2,2	30	PH03	64	12	6005019
250	3,2	2,2	30	PH03	60	12	6005005
250	3,2	2,2	35	-	60	12	6005006
300	3,2	2,2	30	PH03	72	12	6005007
300	3,2	2,2	35	-	72	12	6005008
315	3,2	2,2	30	PH03	72	12	6005020
350	3,5	2,5	30	PH03	84	12	6005009
350	3,5	2,5	35	-	84	12	6005010
400	4,0	2,8	30	PH03	96	12	6005015
400	4,0	2,8	35	-	96	12	6005016
450	4,4	3,2	30	PH03	108	12	6005017
500	4,4	3,2	30	PH03	120	12	6005018

Lame per taglio lungo e traverso 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.



6006

Lame circolari universali per taglio lungo e traverso vena.

Universal circular sawblades for ripping and cross cutting.

Lames circulaires.

Zuschneid Sägeblätter.

Discos de sierra para cortes longitudinales y transversales.

= Disponibile anche silenziato 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.

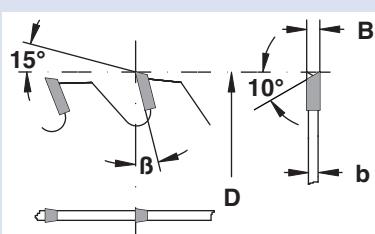
Zuschneid Sägeblätter.

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 traverso 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.

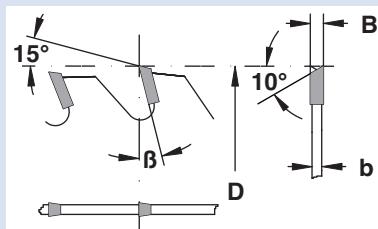
Discos de sierra con espesor fino.

6010

D	B	b	d	PH	Z	β	ID nr.
150	2,2	1,6	30	PH03	48	10	6010001
180	2,2	1,6	30	PH03	56	10	6010002
200	2,2	1,6	30	PH03	64	10	6010003
250	2,5	1,8	30	PH03	80	10	6010004
300	2,6	1,8	30	PH03	96	10	6010005
350	3,0	2,2	30	PH03	108	10	6010007

Lama per tagli lungo e traverso 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 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 trennschnittgütte in Feinschnittgütte.

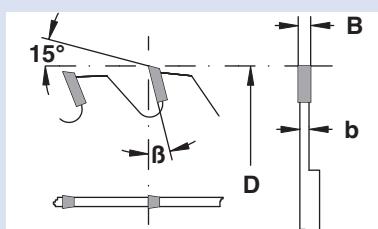
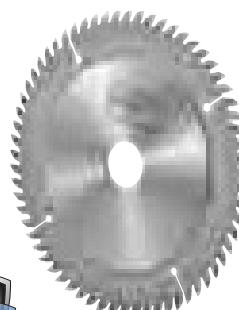
Discos de sierra con espesor extra fino con cuerpo reforzado.

6011

D	B	b	T.U.	d	Z	β	ID nr.
150	1,6	1,1/2,2	20	30	48	8	6011001
200	1,6	1,1/2,2	25	30	64	10	6011002
250	1,7	1,1/2,2	35	30	80	10	6011003

Lama corpo rinforzato con limitatore di altezza taglio.

Sawblade with blade bossed in both sides with limitation of cut.



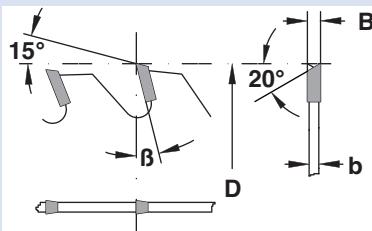
6012

Lame circolari per taglio di cornici sottili.
Circular sawblades suitable for cutting frames.
 Lames circulaires aptes pour coupe de cadres.
Kreissägeblatt für Rahmenzuschneid.
 Discos de sierra para marcos finos.



D	B	b	d	PH	Z	β	ID nr.
250	2,9	2,5	30	PH03	80	10	6012001
300	2,9	2,5	30	PH03	96	10	6012002
330	3,4	3,0	30	PH03	96	10	6012003
350	3,4	3,0	30	PH03	108	10	6012004

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°.



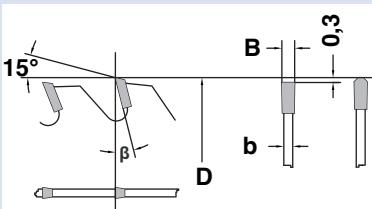
6013

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	6013007
250	3,2	2,2	30	PH03	60	12	6013001
250	3,2	2,2	30	PH03	80	10	6013002
300	3,2	2,2	30	PH03	72	12	6013003
300	3,2	2,2	30	PH03	96	10	6013004
350	3,5	2,5	30	PH03	84	12	6013005
350	3,5	2,5	30	PH03	108	10	6013006

Lama con ottima finitura su MDF truciolari ricoperti di melaminico.
Sawblade with excellent finish on MDF laminated chipboard.

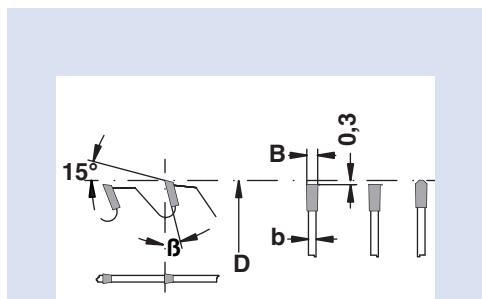


Lame circolari con geometria RRT per taglio di pannelli truciolari.
Circular sawblades with RRT geometry for cutting chipboard panels.
 Lames circulaires avec géométrie RRT pour panneaux.
Sägeblatt mit Geometrie RRT für Platten.
 Discos de sierra con geometría RRT para paneles aglomerados.

6046

D	B	b	d	PH	Z	B	ID nr.
250	3,2	2,2	30	PH03	78	10	6046001
300	3,2	2,2	30	PH03	96	10	6046002
350	3,5	2,5	30	PH03	108	10	6046003

Lama con ottima finitura su MDF truciolari ricoperti di melaminico.
Sawblade with excellent finishing on MDF laminated chipboard.

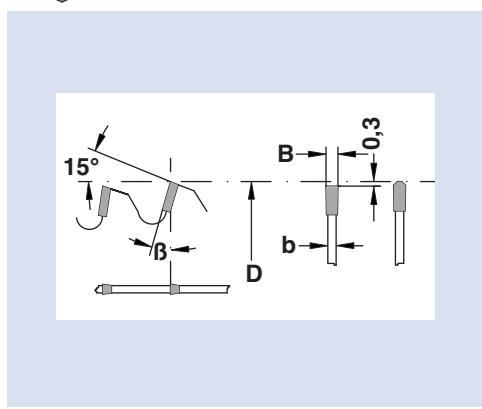


Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.
PH holes see "Reference drawings for standard pin holes" pages 403-404.

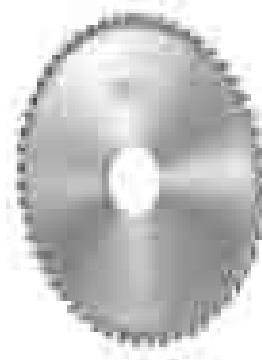
6014

D	B	b	d	PH	Z	B	ID nr.
250	3,2	2,2	30	PH03	60	-6	6014001
300	3,2	2,2	30	PH03	72	-6	6014002
350	3,5	2,5	30	PH03	84	-6	6014003

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.



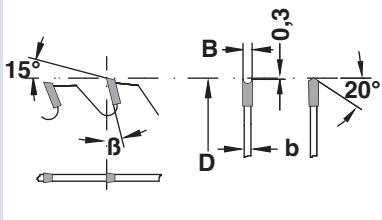
6047



Lame circolari con dente concavo per taglio di pannelli truciolarati.
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	6047004
250	3,2	2,2	30	PH03	48	10	6047001
303	3,2	2,2	30	PH03	60	10	6047002
350	3,5	2,5	30	PH03	72	10	6047003

Lama con ottima finitura su MDF truciolarati 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.

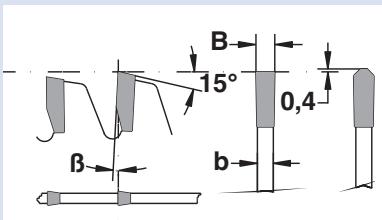
6045



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	6045004
250	2,8	2,2	30	PH03	80	-3	6045001
300	2,8	2,2	30	PH03	96	-3	6045002
350	2,8	2,2	30	PH03	108	-3	6045003

Lama con ottima finitura su PLEXIGLASS.
Sawblade with excellent finishing on PLEXIGLASS.

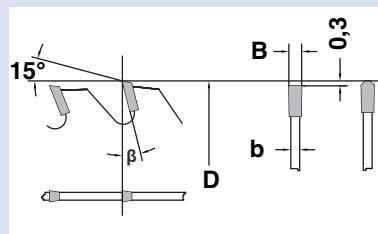


Lame per sezionatrici con taglienti a sbizzare e finire.
Sawblades for cutting panels with roughing and finishing teeth.
 Lames pour coupe des panneaux avec dents à aboucher et à finir.
Zuschneid Sägeblätter von beachtliche Stärke zu schneiden von Plattenin Späeln.
 Discos de sierra para seccionadoras con cuchillas para cantear.

6015

= Disponibile anche silenziata 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

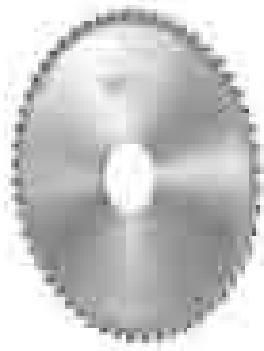
Lame per sezionatrici con taglienti a sbozzare e finire.

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.

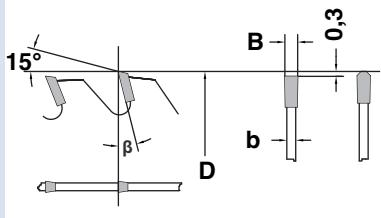
Discos de sierra para seccionadoras con cuchillas para cantear.



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.



* 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 per sezionatrici a denti alternati.

Circular sawblades for panel sizing with alternate top bevel teeth.

Lames pour debit des panneaux avec denture alternée.

Universal Kreissägeblatt mit Wechselzahn.

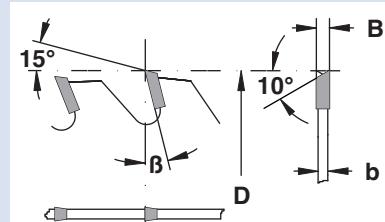
Discos de sierra para seccionadoras con dientes alternados.

6016

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.



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

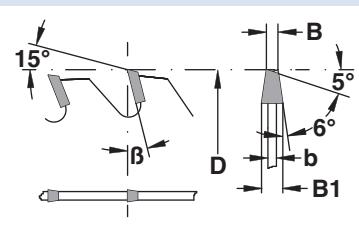
Lame circolari incisori per sezionatrici con taglienti conici.

Scoring blades for panel sizing with conical teeth.

Lames à decouper avec dentature conique.

Zuschneid Sägeblätter für Platten aufteilsägen mit Konischzahn.

Discos de sierra incisores para seccionadoras con dientes cónicos.



* 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.

D1	B/B1	b	d	PH	MACCHINA	Z	B	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.
350	4,4	30	-	54	6015 003
350	4,4	30	-	72	6015 006

D	B	d	Ø - INT.	Z	ID nr.
80	3,2/4,4	20	-	12	6017 001
125	4,6/5,6	20	-	24	6017 007

EUROMAC

D	B	d	Ø - INT.	Z	ID nr.
350	4,4	75+2	11 - 100	72	6015 038
400	4,4	75+2	11 - 100	60	6015 013

D	B	d	Ø - INT.	Z	ID nr.
150	4,4/5,6	45+4	9-58/11-70	36	6017 030

GABBIANI

D	B	d	Ø - INT.	Z	ID nr.
300	4,4	30+2	7 - 82	54	6015 001
300	4,4	30+2		72	6015 002
300	4,4	80+2		54	6015 033
300	4,4	80+2	14 - 110	72	6015 034
380	4,4	80+2		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	2/7 - 110	72	6015 018
420	4,4	80+8	2/14 - 110	60	6015 020
450	4,4	80+8	4/8,5 - 100	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

D	B	d	Ø - INT.	Z	ID nr.
150	4,4/5,6	55+3+3	7 - 66	36	6017 013
200	4,4/5,6	80+2	14 - 110	36	6017 017
300*	4,6	80+2	14 - 110	720	6018 054

GIBEN

D	B	d	Ø - INT.	Z	ID nr.
350	4,4	75+4	15 - 105	54	6015 036
350	4,4	75+4	15 - 105	72	6015 038
400	4,4	75+4	15 - 105	60	6015 013
400	4,4	75+4	15 - 105	72	6015 017
430	4,4	75+4	15 - 105	72	6015 021
470	4,4	75+4	15 - 105	72	6015 026
565	5,2	100	-	48	6015 060
565	5,2	100	-	72	6015 032

D	B	d	Ø - INT.	Z	ID nr.
125	4,4/5,6	45+3	11 - 70	24	6017 022
160	4,4/5,6	45+3	11 - 70	36	6017 012
215	4,4/5,6	50+3	15 - 80	42	6017 018
300	4,4/5,9	50+3	15 - 80	72	6017 020
300*	4,6	50+3	15 - 80	72	6018 052

* 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		54	6015 035
350	4,4	75+3+3		72	6015 037
400	4,4	75+3+3	3/7 - 120	60	6015 012
400	4,4	75+3+3	3/7 - 100	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		54	6015 003
350	4,4	80+8	VEDI PREC.	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		72	6015 008
400	4,4	80+2+4		72	6015 018
430	4,4	80+2+4	2/8,5-130	72	6015 022
450	4,4	80+2+4	4/19-120	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		36	6017 016
200	5,2/6,4	65+2+2		36	6017 024
300	4,4/5,9	65+2+2	2/9-100	72	6017 021
300*	4,6	65+2+2	2/9-110	72	6018 053

STETON

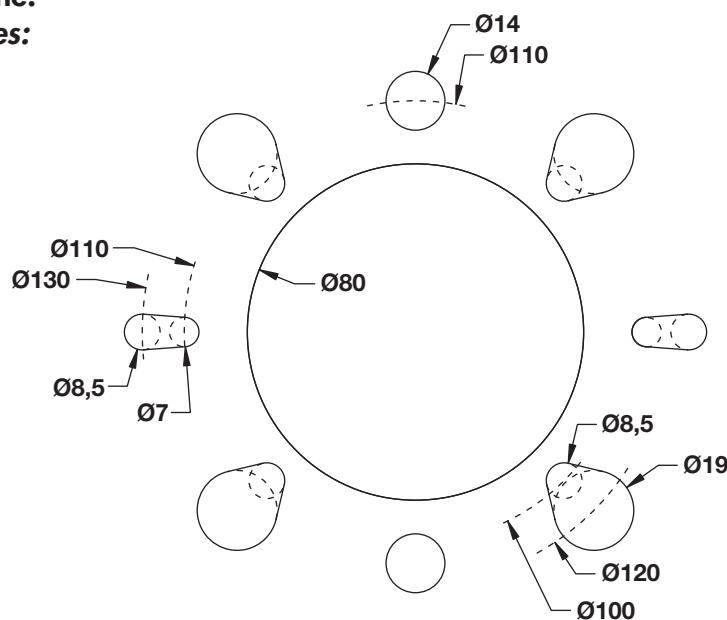
D	B	d	Ø - INT.	Z	ID nr.
350	4,4	80	-	72	6015 008
400	4,4	80	-	60	6015 014
400	4,4	80	-	72	6015 018

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

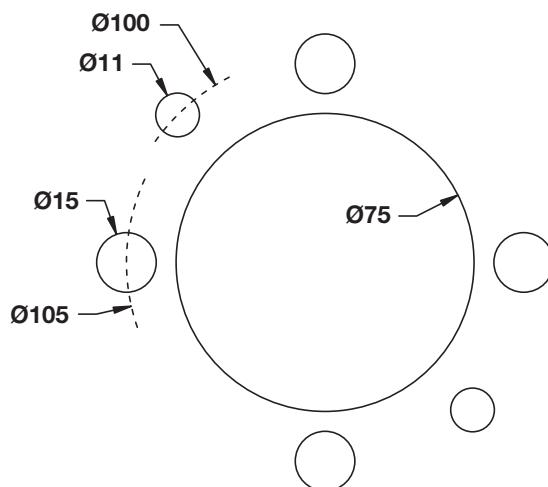
* PH01 per macchine:
* PH01 for machines:

**GABBIANI
SELCO**



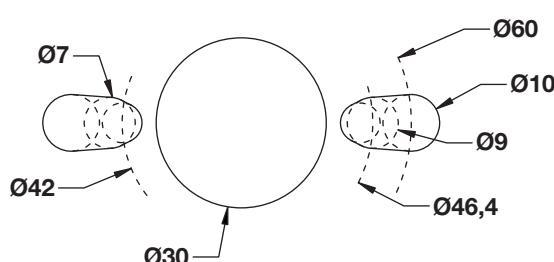
* PH02 per macchine:
* PH02 for machines:

**GIBEN
EUROMAC**



* PH03 per macchine:
* PH03 for machines:

**PANHANS
SCM
SCHEER
SCHELLING
CASADEI**

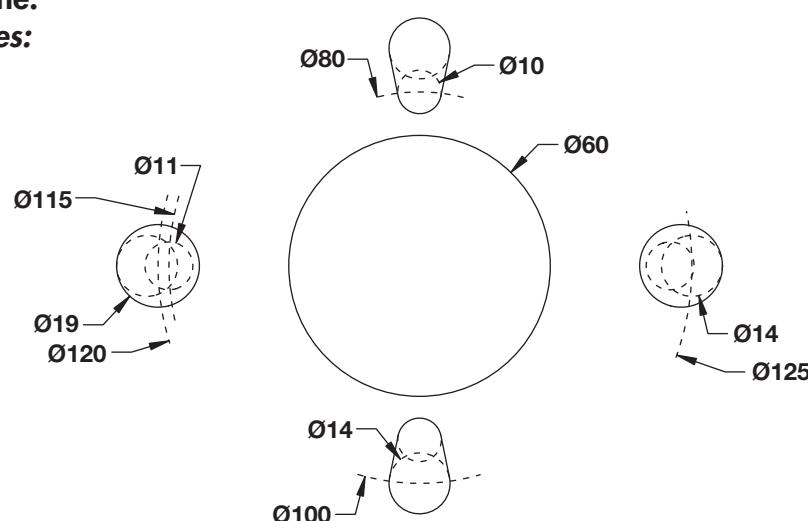


DISEGNI DI RIFERIMENTO PER FORATURE / REFERENCE DRAWINGS FOR STANDARD PIN HOLES

* PH04 per macchine:

* PH04 for machines:

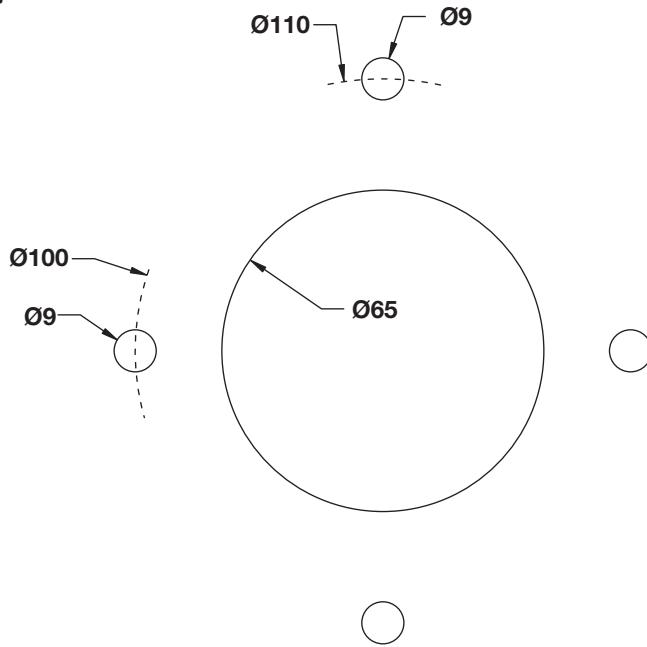
HOLZMA



* PH05 per macchine:

* PH05 for machines:

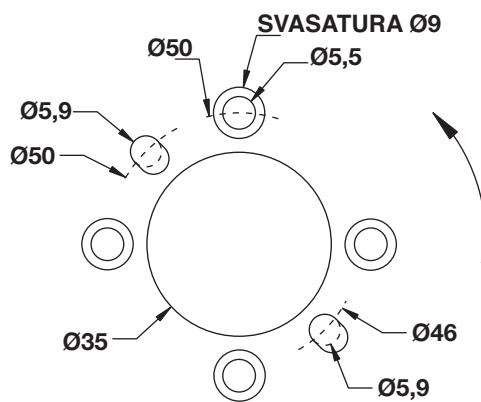
SELCO



* PH06 per macchine:

* PH06 for machines:

BIESSE

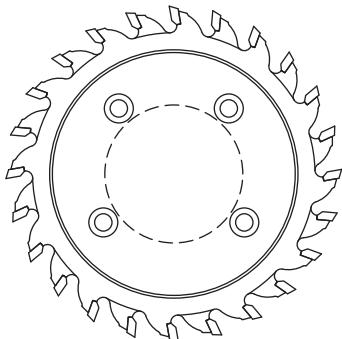


Incisori doppi regolabili completi di distanziali per ottenere diversi spessori.
Adjustable double scoring blades complete with spacer to obtain different thickness.
 Lames inciseuses doubles avec bagues pour avoir différents épaisseurs.
Kreissägeblätter zweiteilig verstellbar durch Zwischenringe.
 Incisores dobles regulables completos con anillos distanciadores para realizar espesores.

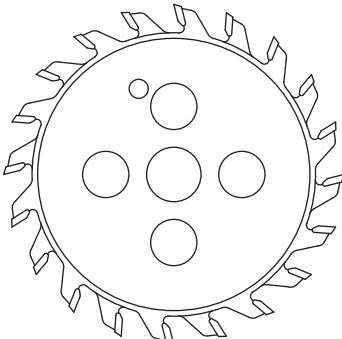
6018

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

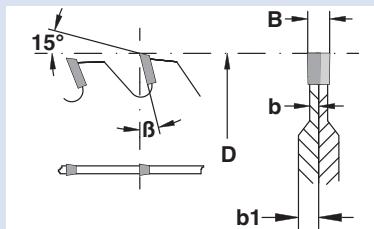
D	B	b-b1	d	PH	MACCHINA	Z	β	ID nr.
120*	2,8÷3,6	1,1/2,2	50	4	Altendorf-Griggio	12+12	12	6018 013



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



*La regolazione dello spessore viene fatta in macchina, senza l'uso di anelli distanziali.
 *Thickness adjustment controlled by the machines, no spacers required.



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.

6018a

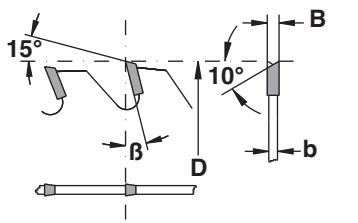
Incisori a spessore costante per POST-FORMING.
Scoring blades with constant thickness for POST-FORMING.
 Lames inciseuses avec épaisseur constant pour POST-FORMING.
Kreissägeblätter mit konstant Stärke für POST-FORMING.
 Incisor con espesor constante para POSTFORMADO.



D	B	b	d	PH	MACCHINA	Z	B	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.



* 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.

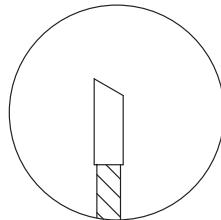
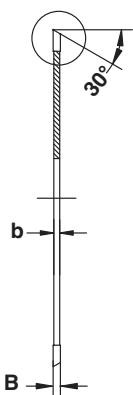
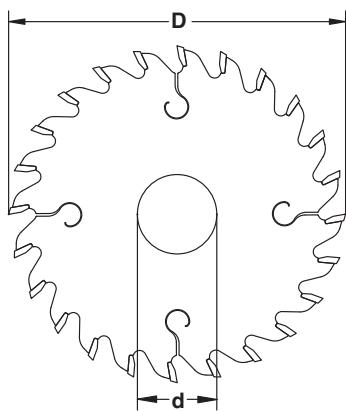
PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lame circolari intestatori per bordatrici.
Sawblades for edge-banding machines.
 Lames à inciser pour machines à border.
Ritz Sägeblätter.
 Discos de sierra para retestar para canteadoras.

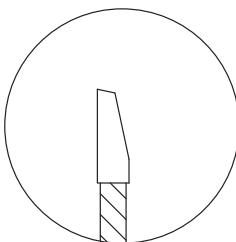
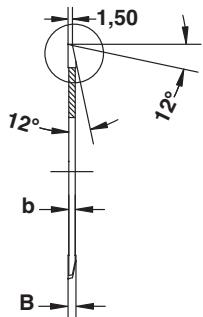
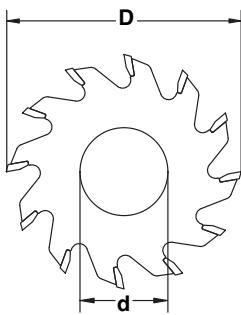
6019

D	B	b	d	PH	MACCHINA	Z	B	ID nr. DX	ID nr. SX
85	3,2	2,2	30	-	BI-MATIC	12	10	6019021	6019022
120	3,6	2,8	40	4	BIESSE	20+4	15	6019005	6019006
125	2,6	1,8	20	-	ELWOOD	16+4	15	6019009	6019010
140	3,2	2,2	30	-		28+4	15	6019001	6019002
150	3,8	2,5	35	4	STEFANI	24+6	10	6019007	6019008

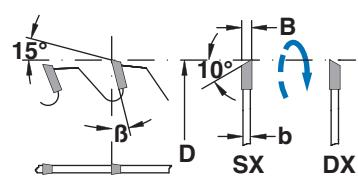
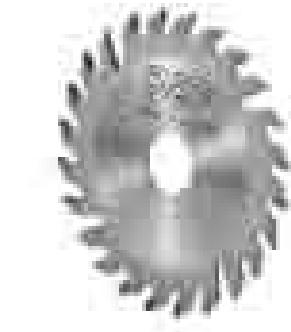
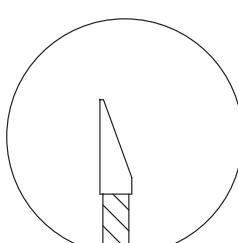
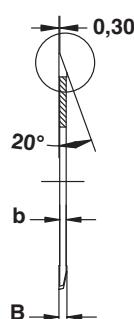
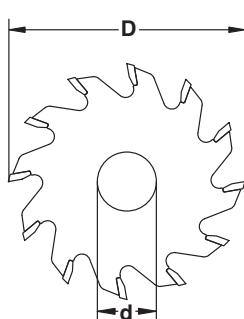
D	B	b	d	PH	MACCHINA	Z	B	ID nr. DX	ID nr. SX
100	2,6	1,6	30	-	STEFANI	30	10	6019015	6019016
125	3,2	2,2	30	-	EBS	24	10	6019017	6019018



D	B	b	d	PH	MACCHINA	Z	B	ID nr. DX	ID nr. SX
80	3,2	2,2	30	-	BI-MATIC	30	10	6019011	6019012



D	B	b	d	PH	MACCHINA	Z	B	ID nr. DX	ID nr. SX
80	3,0	2,2	20	-	PAOLONI CASADEI	12	6	6019019	6019020



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.

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 alternées.

Ritz Sägeblätter.

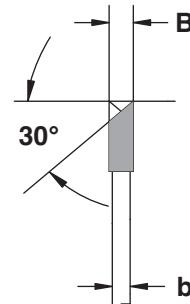
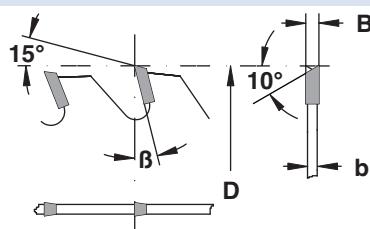
Discos de sierra para escuadradoras y canteadoras con dientes inclinados y alternados.

D	B	b	d	Z	β	ID nr.
100*	2,6	1,6	30	20	10	6020005
100	3,2	2,2	20	20	10	6020006
115*	2,6	1,6	30	24	10	6020004
115	3,2	2,2	20	24	10	6020001
120	3,2	2,2	20	24	10	6020002
125	3,2	2,2	20	30	10	6020003

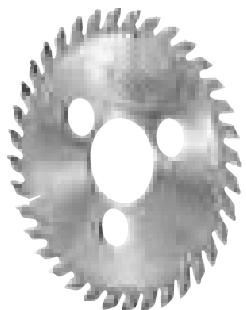
Incisori a dente alternato per incisione di pannelli bilaminati.

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.

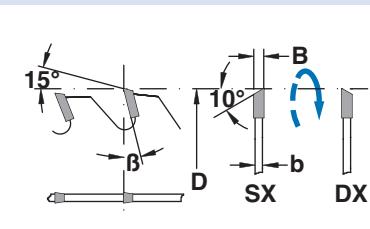
Spezialen Ritzsägen mit schnell Befestigung LEUCO.

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	6022001	6022002
180	3,2	2,2	50	3/22-80	56	10	6022003	6022004

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.

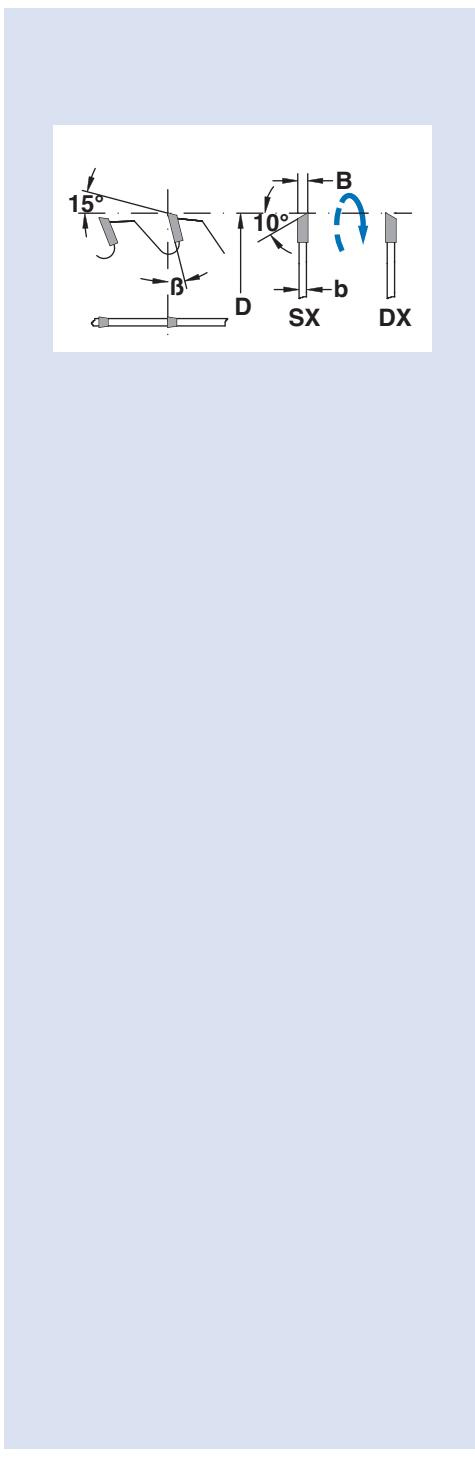
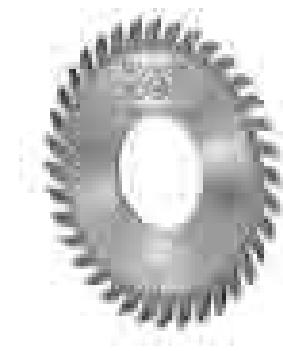


Incisori per squadratrici e bordatrici con taglienti unilateralmente inclinati.
Scoring blades for squaring and edge-banding machines with one-side cutting.
 Inciseur pour machines à équarrir et border avec dents inclinés unilatéralement.
Ritz Sägeblätter.
 Discos de sierra para escuadradoras y canteadoras 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.

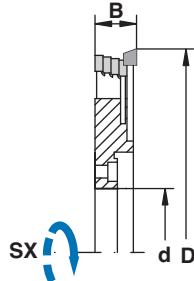
Desmenuzador con cuerpo en aluminio y sectores con dientes.



D	B	d	Z	ID nr. DX	ID nr. SX
255	30	60	58	6023001	6023002
255	30	80	58	6023003	6023004
255	30	60	78	6023005	6023006
255	30	80	78	6023007	6023008

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.

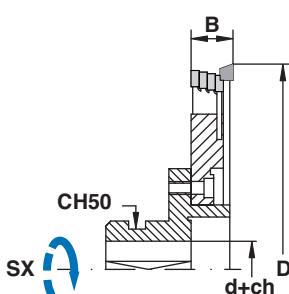
Desmenuzador completo de casquillo con cuerpo en aluminio y sectores con dientes



D	B	d+ch	Z	ID nr. DX	ID nr. SX
205	30	35+2	46	6024001	6024002
205	30	40+2	46	6024003	6024004
205	30	35+2	58	6024005	6024006
205	30	40+2	58	6024007	6024008
255	30	35+2	58	6024009	6024010
255	30	40+2	58	6024011	6024012
255	30	35+2	78	6024013	6024014
255	30	40+2	78	6024015	6024016

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.

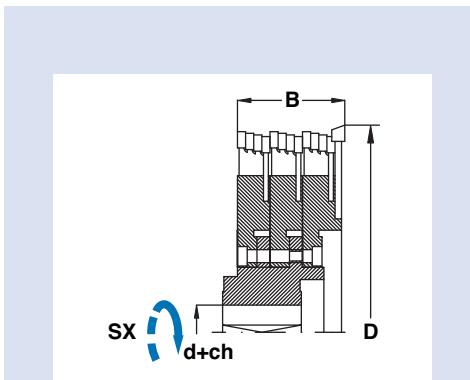
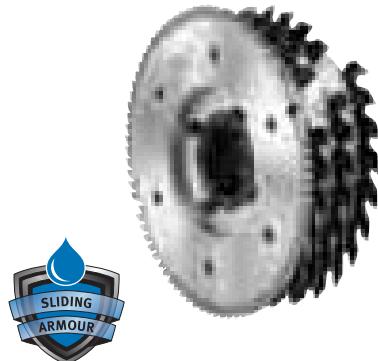
Desmenuzadores acoplados completos de casquillo con cuerpo en aluminio y sectores con dientes.

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 déchiqueteurs.

Ersatzkreissägeblätter für Zerspanner.

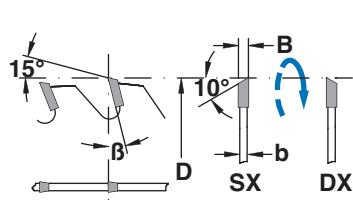
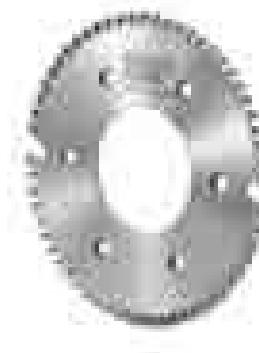
Discos de sierra como repuestos para desmenuzadores.

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	6026001	6026002
205	4,1	2,8	80	6/8,5-128	58	10	6026003	6026004
255	4,1	2,8	130	6/8,5-177	58	10	6026005	6026006
255	4,1	2,8	130	6/8,5-177	78	10	6026007	6026008

Per legni teneri, duri e pannelli bilaminati con 6 fori di trascinamento.

For soft, hardwoods and bilaminated panels with 6 holes.

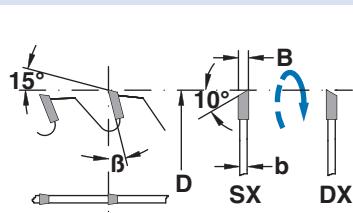
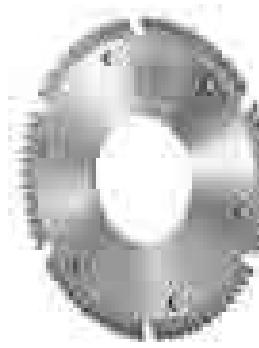


Ricambio per truciolatori LEUCO / Spare parts for LEUCO hogging sets

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	6026021	6026022
250	4,1	2,8	100	6/6,5-200	72	7	6026023	6026024

Per legni teneri, duri e pannelli bilaminati con 6 fori di trascinamento.

For soft, hardwoods and bilaminated panels with 6 holes.



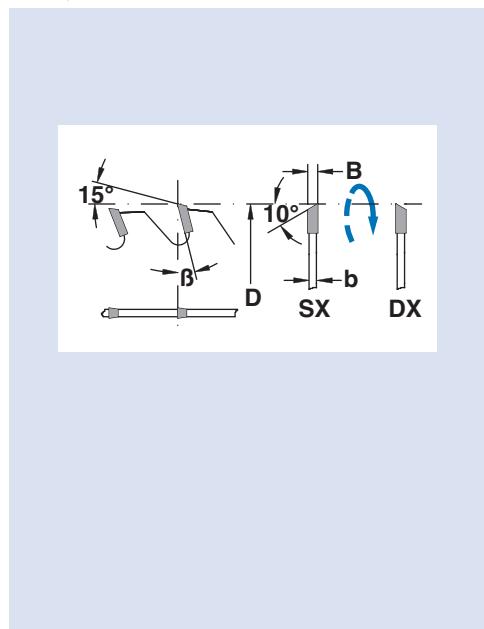
Lame circolari di ricambio per truciolatori.
Spare circular sawblades for hogging units.
 Lames circulaires de rechange pour déchiqueteurs.
Ersatzkreissägeblätter für Zerspanner.
 Discos de sierra como repuestos para desmenuzadores

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

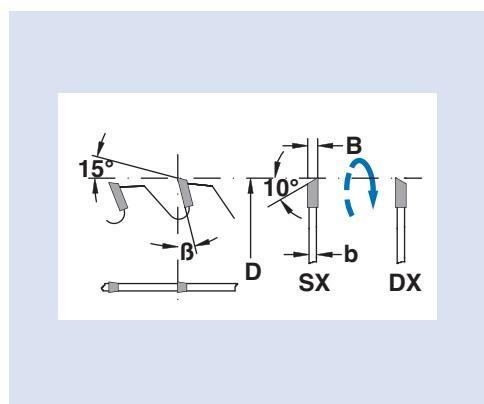
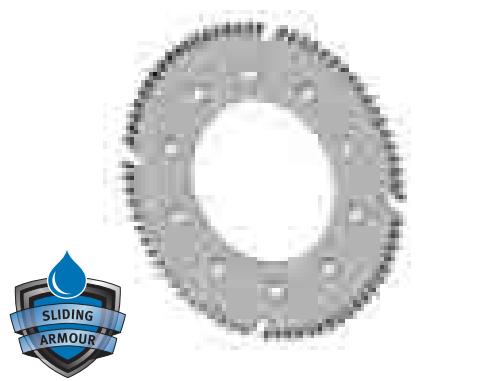
Per legni teneri, duri e pannelli bilaminati con 4 fori di trascinamento.
For soft, hardwoods and bilaminated panels with 4 holes.



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.

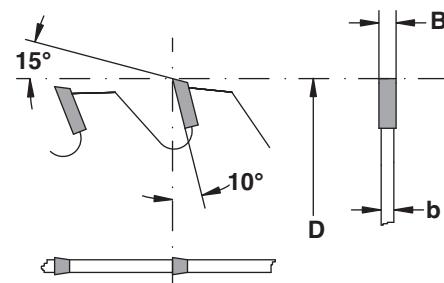
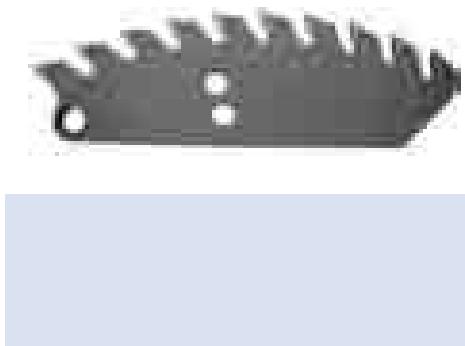
Secteurs dentés de rechange pour déchiqueteurs.

Ersatz Sektoren für Zerspanner.

Sectores como repuestos para desmenuzadores.

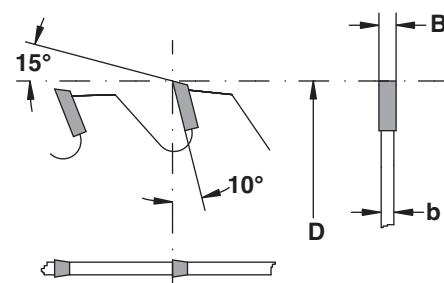
Ricambio per truciolatori B.S.P. / Spare parts for B.S.P. hogging sets

D	B	b	d	Z	ID nr.
200	4,0	2,8	-	12	6027 007
250	4,0	2,8	-	14	6027 008



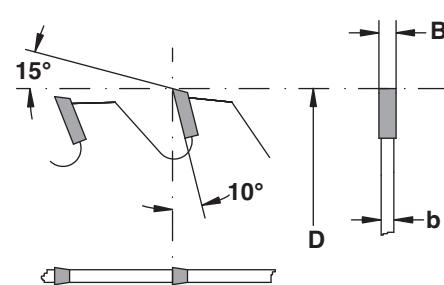
Ricambio per truciolatori LEUCO / Spare parts for LEUCO hogging sets

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	Z	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 déchiqueteurs.

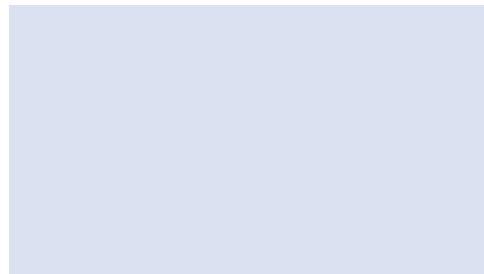
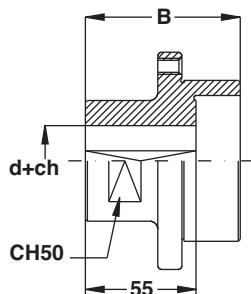
Grundkörper für Zerspaner.

Casquillos portadesmenuzadores como repuestos.

6028

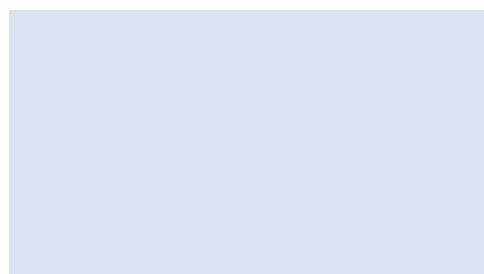
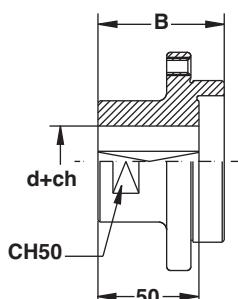
B	d+ch	ID nr.
77	35+2	6028 001
77	40+2	6028 002

Ricambio per truciolatori ART. 6024 Ø205
Spare parts for hoggings ART. 6024 Ø205



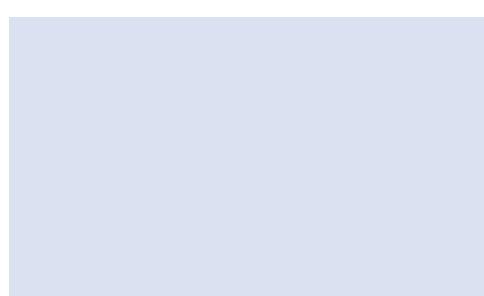
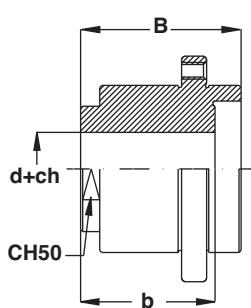
B	d+ch	ID nr.
61,5	35+2	6028 011
61,5	40+2	6028 012

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



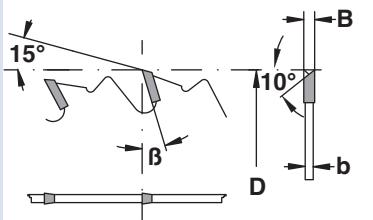
6008



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	6008001
300	3,2	2,2	35	-	24+4	20	6008002
350	3,5	2,5	30	PH03	28+6	20	6008003
350	3,5	2,5	35	-	28+6	20	6008004
400	3,8	2,5	30	PH03	32+6	20	6008005
400	3,8	2,5	35	-	32+6	20	6008006

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.



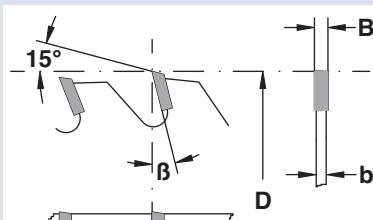
6048



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.
Schbklinge für Mehrfachklinge.
 Discos de sierra con espesor robusto para sierras multiples con rasantes y limitación para las virutas.

D	B	b	d+ch	Z	β	ID nr.
250	4,0	2,8	60+2	16+4	25	6048001
250	4,0	2,8	70+2	16+4	25	6048002
250	4,0	2,8	80+2	16+4	25	6048003
300	4,0	2,8	60+2	20+4	25	6048004
300	4,0	2,8	70+2	20+4	25	6048005
300	4,0	2,8	80+2	20+4	25	6048006
320	4,0	2,8	70+2	20+4	25	6048007
320	4,0	2,8	80+2	20+4	25	6048008
350	4,0	2,8	60+2	20+6	25	6048009
350	4,0	2,8	70+2	20+6	25	6048010
350	4,0	2,8	80+2	20+6	25	6048011

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.

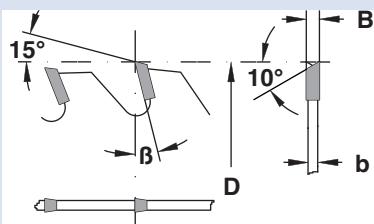
Discos de sierra para sierras multiples y con rasantes.

6029

D	B	b	d+ch	Z	β	ID nr.
250	3,2	2,2	60+2	20+4	18	6029001
250	3,2	2,2	70+2	20+4	18	6029002
250	3,2	2,2	80+2	20+4	18	6029003
300	3,2	2,2	60+2	24+4	20	6029004
300	3,2	2,2	70+2	24+4	20	6029005
300	3,2	2,2	80+2	24+4	20	6029006
350	3,5	2,5	60+2	28+6	20	6029007
350	3,5	2,5	70+2	28+6	20	6029008
350	3,5	2,5	80+2	28+6	20	6029009
400	3,8	2,8	70+2	32+6	20	6029010

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.

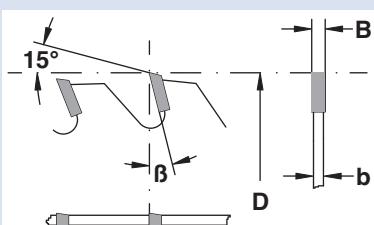
Discos de sierra con espesor fino para sierras multiples con rasantes.

6030

D	B	b	d+ch	Z	β	ID nr.
250	2,6	1,8	60+2	20+4	18	6030001
250	2,6	1,8	70+2	20+4	18	6030002
250	2,6	1,8	80+2	20+4	18	6030003
300	2,6	1,8	60+2	24+4	20	6030004
300	2,6	1,8	70+2	24+4	20	6030005
300	2,6	1,8	80+2	24+4	20	6030006

Lama con media finitura per la lavorazione di tavolame distorto secco e umido.

Sawblade with medium finishing for working dry and damp woods.



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.

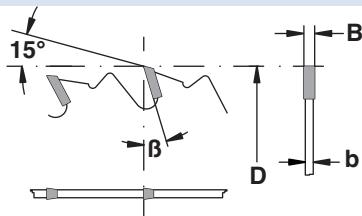
D	B	b	d+ch	Z	β	ID nr.
180	2,2	1,6	40	16+2	18	6031001
200	2,2	1,6	40	16+2	18	6031002
250	2,2	1,6	60+2	20+2	18	6031003
250	2,2	1,6	70+2	20+2	18	6031004
250	2,2	1,6	80+2	20+2	18	6031005

Lame con buona finitura indicate per legni pregiati Ø180 e Ø200.

Si utilizza anche su scorniciatrici 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.

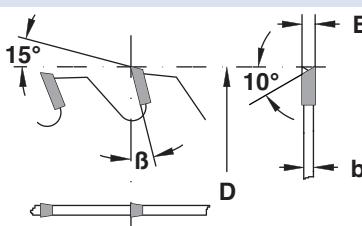
Zuschneidsägeblätter Wechselzahn mit Knopflochen.

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	6032001
250	3,2	2,2	70+2	20	20	6032002
300	3,2	2,2	60+2	24	20	6032003
300	3,2	2,2	70+2	24	20	6032004
350	3,5	2,5	70+2	28	20	6032005

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 fouleur limitant et boutonnières.

Zuschneidsägeblätter Welchselzahn mit Knopflochen.

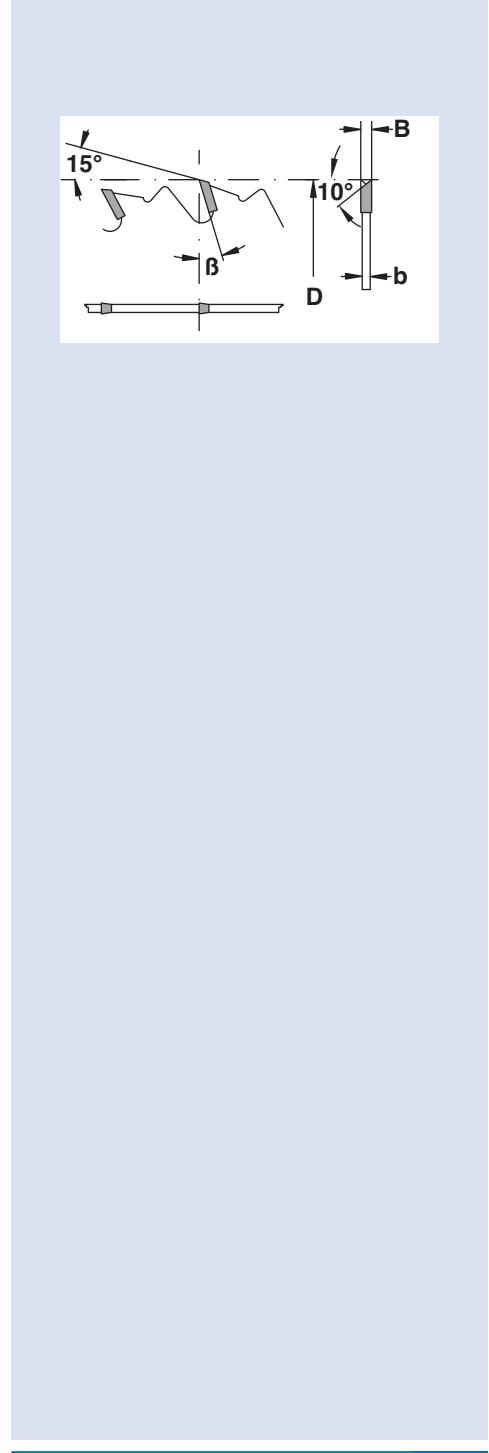
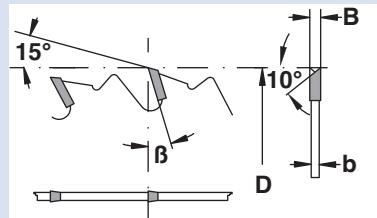
Discos de sierra para sierras múltiples con limitación para las virutas y fori-combi di raffreddamento.

6033

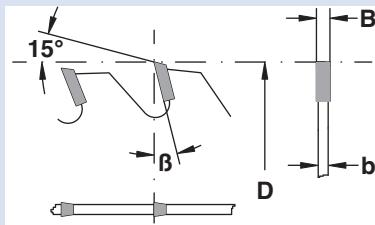
D	B	b	d+ch	Z	β	ID nr.
250	3,2	2,2	60+2	20+Lim.	18	6033 001
250	3,2	2,2	70+2	20+Lim.	18	6033 002
300	3,2	2,2	60+2	24+Lim.	18	6033 003
300	3,2	2,2	70+2	24+Lim.	18	6033 004
350	3,5	2,5	70+2	28+Lim.	20	6033 005

Lama per tagli di legni teneri e duri con nodi cascanti.

Sawblade for cutting hard and softwoods with loose knots.



6035



Lame circolari per multilame a forte spessore con rasanti.

Thicks circular sawblades for multiblades machines with shavings.

Lames circulaires pour machines multilames à fort epaisseur 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	6035001
250	5,5	3,5	80+2	20+4	20	6035002
300	5,5	3,5	70+2	24+4	20	6035003
300	5,5	3,5	80+2	24+4	20	6035004
350	5,5	3,5	70+2	28+6	20	6035005

Lama utilizzata con lama di guida in coppia con ART. 6028 - 6029 - 6030.
Sawblade used together with ART. 6028 - 6029 - 6030.

6036



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.

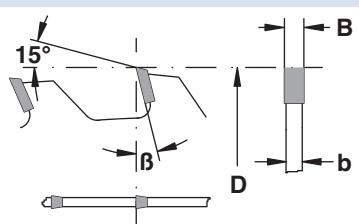
Lames spéciales avec le corps très épais pour obtenir des jeux de 2,5 à 6mm.

Spezial-Kreissägeblätter mit grössten 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	6036001
125	3,0	2,2	35	12	8	6036002
125	4,0	2,8	35	12	8	6036003
125	5,0	2,8	35	12	8	6036004
125	6,0	3,2	35	12	8	6036005
150	2,5	1,8	35	12	10	6036006
150	3,0	2,2	35	12	10	6036007
150	4,0	2,8	35	12	10	6036008
150	5,0	2,8	35	12	10	6036009
150	6,0	3,2	35	12	10	6036010
180	4,0	2,8	35	18	10	6036011
180	5,0	2,8	35	18	10	6036012
180	6,0	3,2	35	18	10	6036013

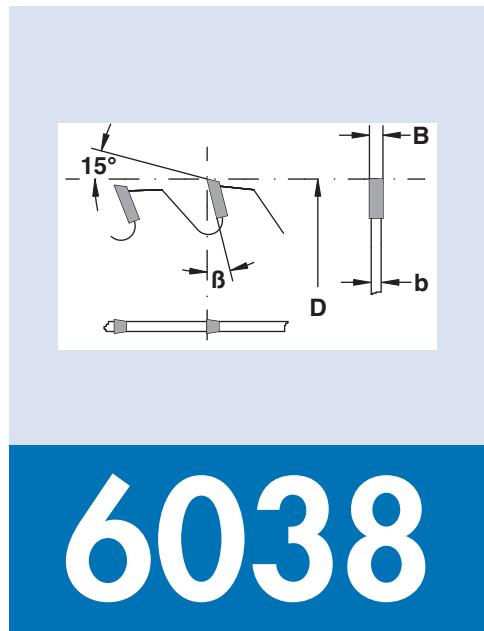
Particolarmente adatte per ottenere incastri di vario spessore, con possibilità di montarle a pacco.
Suitable for obtain grooves of different thickness with the possibility of using in stack.



Lama circolare per lamello.
Special circular sawblade for lamello.
 Lame speciales pour lamello.
Spezial-Kreissägeblätter für lamello.
 Discos de sierra para lamello.

6037

D	B	b	d	Z	β	ID nr.
102	3,95	2,8	22	8	10	6037001

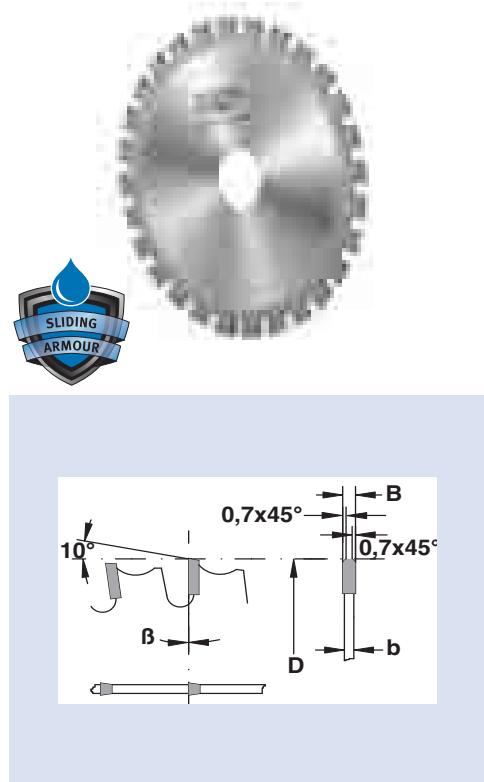


Lame circolari per taglio di materiali ferrosi e coibentati.
Circular sawblades for ferrous materials.
 Lames circulaires pour matière ferreux.
Kreissägeblätter für Metallstoff und isolieren.
 Discos de sierra para cortar materiales en hierro.

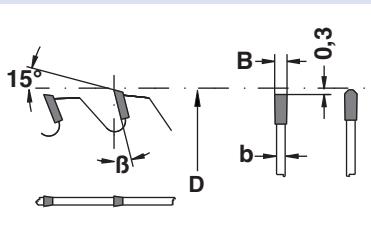
6038

D	B	b	d	Z	β	ID nr.
160	2,4	1,8	20	36	0	6038010
180	2,4	1,8	30	48	0	6038003
190	2,4	1,8	30	48	0	6038011
205	2,4	1,8	30	54	0	6038012
230	2,4	1,8	30	54	0	6038013
250	2,8	2,2	30	60	0	6038014
300	2,8	2,2	30	72	0	6038015
350	2,8	2,2	30	80	0	6038016

Lame speciali per taglio di tubolare di ferro, lamiere 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 non 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 metaux legers non ferreux avec dents negatif.

Kreissägeblätter zur Bearbeitung von Aluminium mit negativ Schnitt.

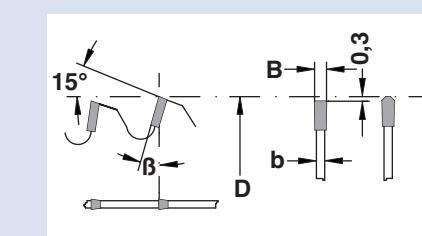
Discos de sierra con corte negativo para metales ligeros.

6041

D	B	b	d	PH	Z	B	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 profili di leghe non ferrose come alluminio o altro.

Circular sawblades for cutting light alloy non-ferrous profiles as aluminium and more.



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

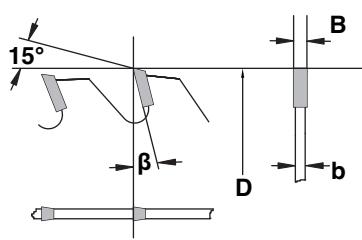
6043



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

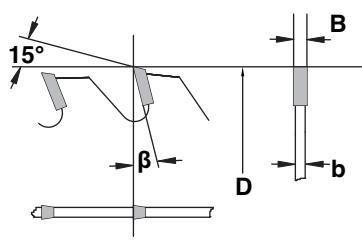


6044



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.

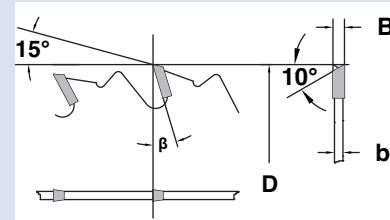
Lame circolari per pantografi da montare su alberini e rinvio angolare.
Circular sawblades for pantograph to set on shaft and angular-return.

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.

6501

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 traverso 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.



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

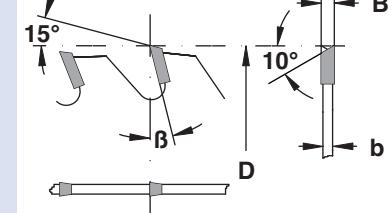
PH holes see "Reference drawings for standard pin holes" pages 403-404.

6502

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 traverso 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.

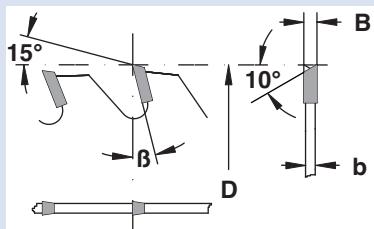


Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

6503

Lame circolari universali "SILENZIATE".
"SILENCED" universal circular sawblades.
 Lames circulaires universelles "SILENCIEUX".
Universal Zuschneid Sägeblätter "DÄMPFEU".
 Discos de sierra "SILENCIADAS".



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

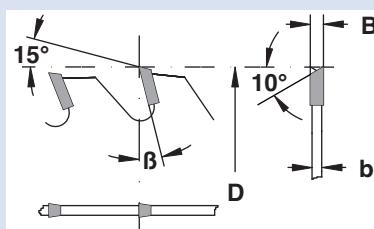
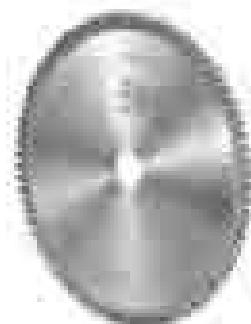
PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lama per tagli lungo e traverso 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.

6504

Lame circolari universali "SILENZIATE".
"SILENCED" universal circular sawblades.
 Lames circulaires universelles "SILENCIEUX".
Universal Zuschneid Sägeblätter "DÄMPFEU".
 Discos de sierra "SILENCIADAS".



Per forature **PH** vedi "Disegni di riferimento per forature" pagg. 403-404.

PH holes see "Reference drawings for standard pin holes" pages 403-404.

Lama per tagli lungo e traverso 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.

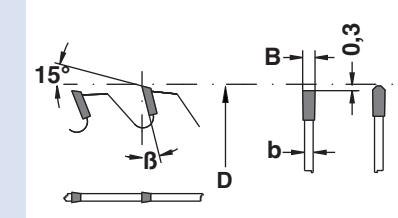
D	B	b	d	PH	Z	B	ID nr.
250	3,2	2,2	30	PH03	60	12	6503001
300	3,2	2,2	30	PH03	72	12	6503002
350	3,5	2,5	30	PH03	84	12	6503003
350	3,5	2,5	35	-	84	12	6503004
400	4,0	2,8	30	PH03	96	12	6503007

Lame circolari "SILENZIATE" con taglienti a sbizzare e finire.
"SILENCED" universal circular sawblades with trapez-flat teeth.
Lames circulaires universelles "SILENCIEUX" avec dents trapézoïdale-plats.
Universal Zuschneid Sägeblätter "DÄMPFEU" mit schneiden trapez-flach.
Discos de sierra "SILENCIADAS" con dientes para cantear.

D	B	b	d	PH	Z	β	ID nr.
250	3,2	2,2	30	PH03	60	12	6505 006
250	3,2	2,2	30	PH03	80	10	6505 001
300	3,2	2,2	30	PH03	72	12	6505 004
300	3,2	2,2	30	PH03	96	10	6505 002
350	3,5	2,5	30	PH03	84	12	6505 005
350	3,5	2,5	30	PH03	108	10	6505 003

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.

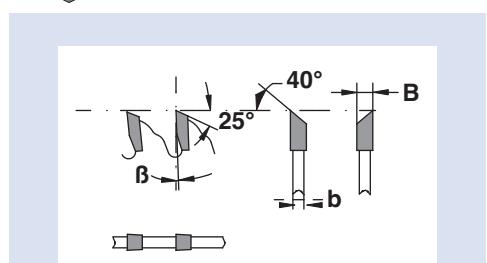
Lame circolari universali "SILENZIATE" per taglio senza incisore.
"SILENCED" universal circular sawblades for cutting without scoring blade.
Lames circulaires "SILENCIEUX" pour coupe sans lames inciseuses.
Universal Zuschneid Sägeblätter "DAMPFEU" für Schnitt ohne Schneider.
Discos de sierra "SILENCIADAS" para realizar cortes sin incisiones.

6507

D	B	b	d	PH	Z	β	ID nr.
250	3,2	2,2	30	PH03	80	-2	6507 001
300	3,2	2,2	30	PH03	96	2	6507 002
350	3,5	2,5	30	PH03	108	5	6507 003

Lama per sezionatura senza l'utilizzo dell'incisore, con ottima finitura su pannelli truciolari e MDF ricoperti in entrambi i lati.

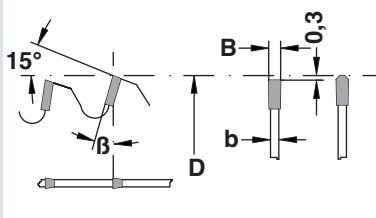
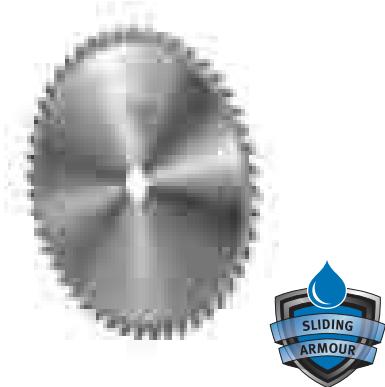
Sawblade for cutting without scoring blade, with excellent finishing on MDF and chipboard coated on both sides.



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 trapézoïdal-plate.
Sägen "DÄMPFEU" von beachtliche Stärke mit schneiden trapez-flach.
 Discos de sierra "SILENCIADAS" para seccionadoras con dientes para cantear.

D	B	b	d	PH	MACCHINA	Z	B	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

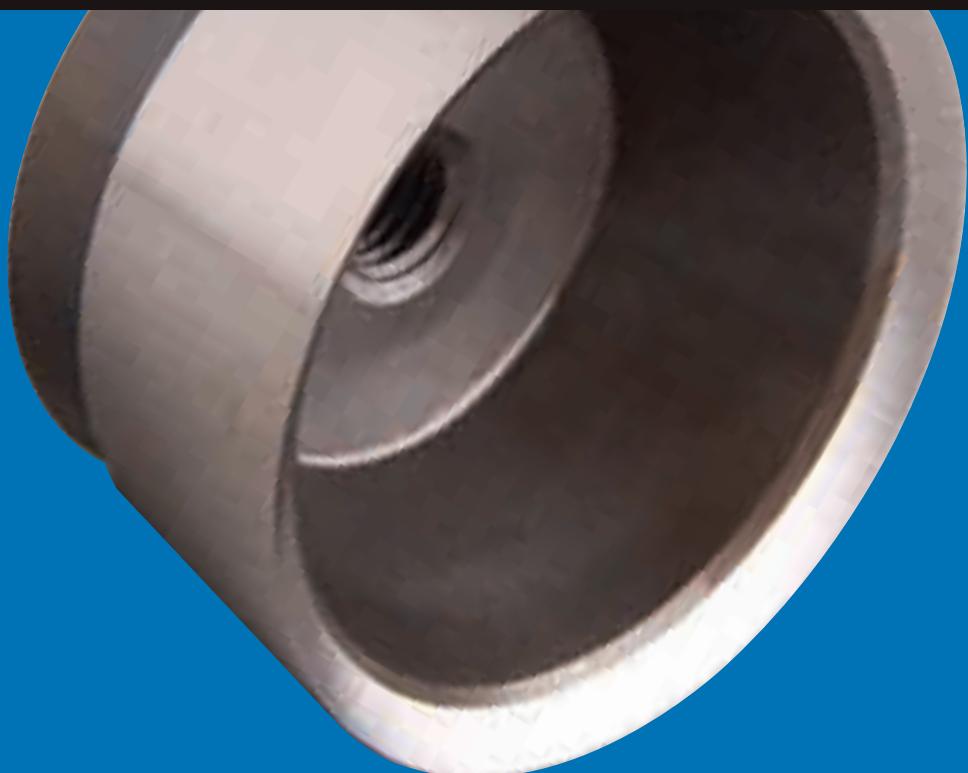
Adatte per il taglio di pannelli disposti a pacco.
Suitable for cutting panels in stack.

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
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

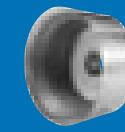
P 435



Utensili per tornio copiativo

Tools for copying lathes

P 436



Bicchierini e piattielli

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

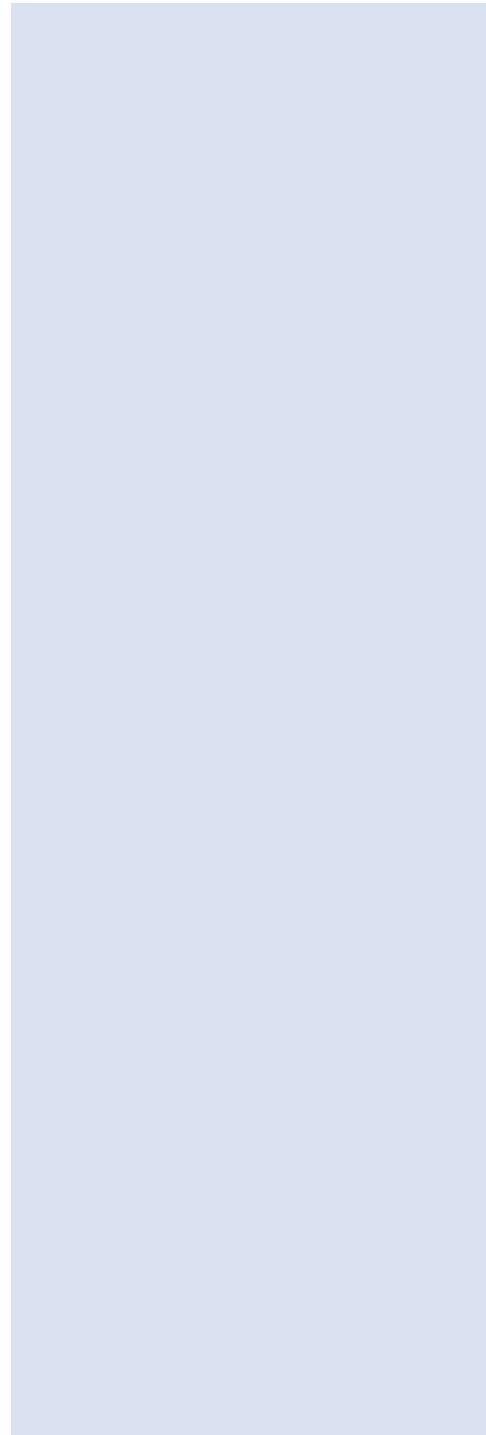
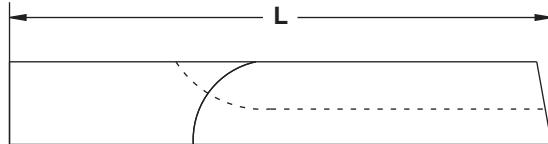
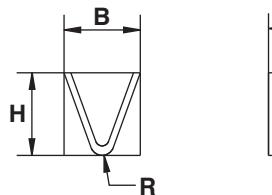
P 442

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

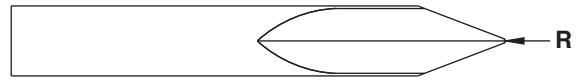
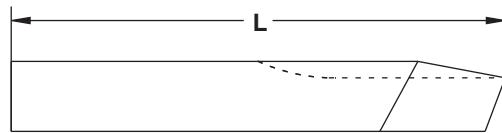
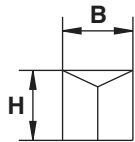


8003

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

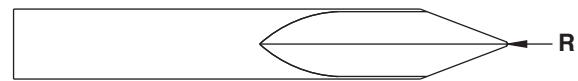
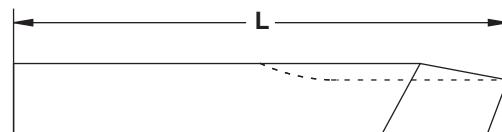
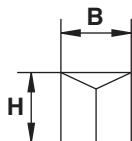


8004

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 cubierta en titanio.



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.

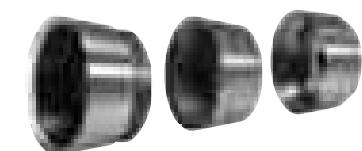
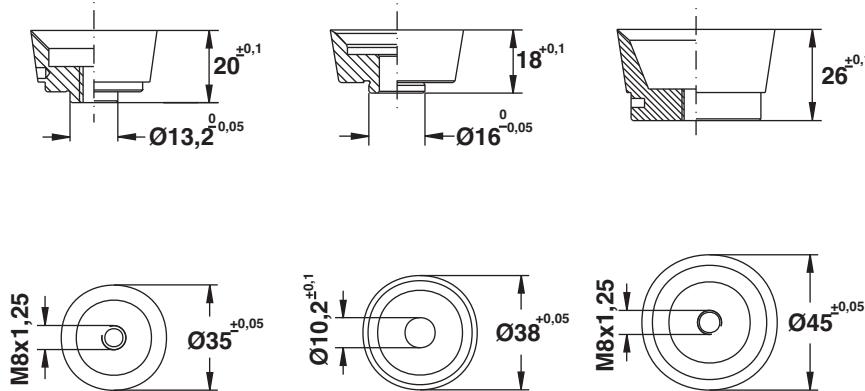
Vasos para tornio copiativo

8005

D	R	ID nr.
35	20	8005001
38	18	8005002
45	26	8005003

Esecuzione in HSS

Execution in HSS



8006

Piattelli per tornio copiativo.

Plates for copying lathes.

Plateaux pour tour à copier.

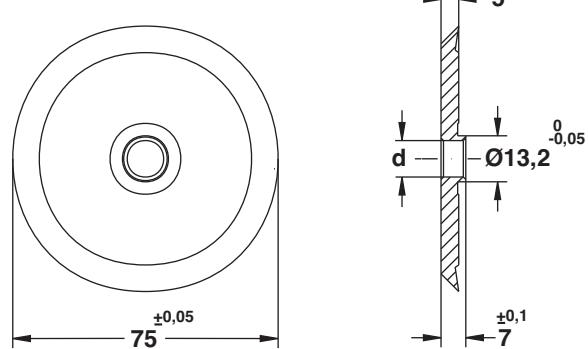
Teller für Kopierdrehbänke.

Discos para tornio copiativo.

D	d	ID nr.
75	10,3	8006001

Esecuzione in HSS

Execution in HSS

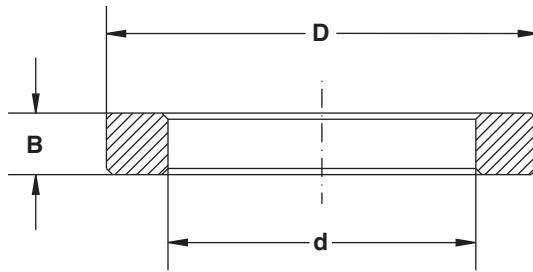


9001

Anelli distanziali.
Spacing collars.
 Bagues épaissees.
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.

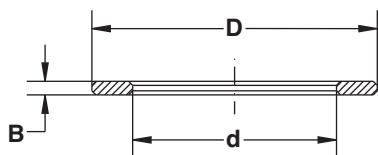
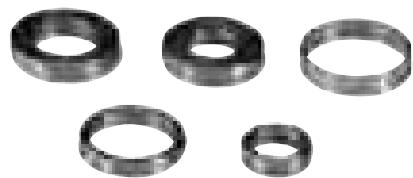
9002

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.

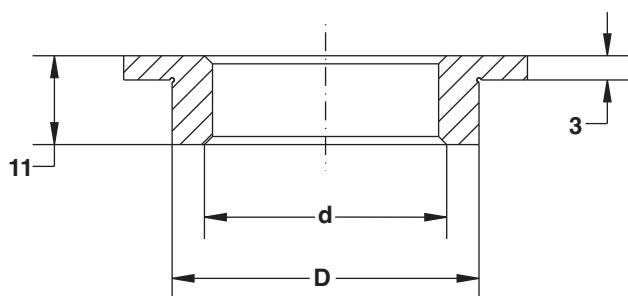
Douilles de réduction avec épaulement.

Reduzierungsbüchse mit Bund.

Anillos de reducción del eje con borde.

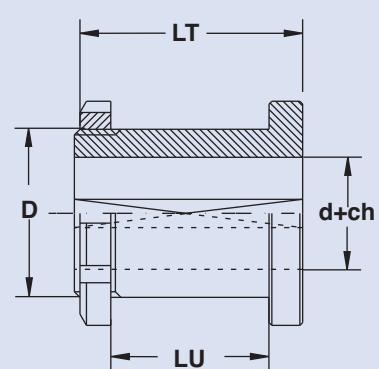
9003

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



9004

Mozzi porta-frese con ghiera.
Sleeves carrying drills with lockring
 Flasques porte-fraises avec collier de serrage.
Grundkörper Fraesdorn mit Nutmutter.
 Casquillos portafresas con tuerca.



D	LU	LT	d+ch	ID nr.
50	50	75	30+2	9004001
50	100	125	30+2	9004002
50	150	175	30+2	9004003
50	50	75	35+2	9004007
50	100	125	35+2	9004008
50	150	175	35+2	9004009
50	50	75	40	9004013
50	100	125	40	9004014
50	150	175	40	9004015
60	50	75	35+2	9004010
60	100	125	35+2	9004011
60	150	175	35+2	9004012
60	50	75	40+2	9004004
60	100	125	40+2	9004005
60	150	175	40+2	9004006
60	50	75	50	9004016
60	100	125	50	9004017
60	150	175	50	9004018

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	9005001
35	9005003
40	9005004

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.

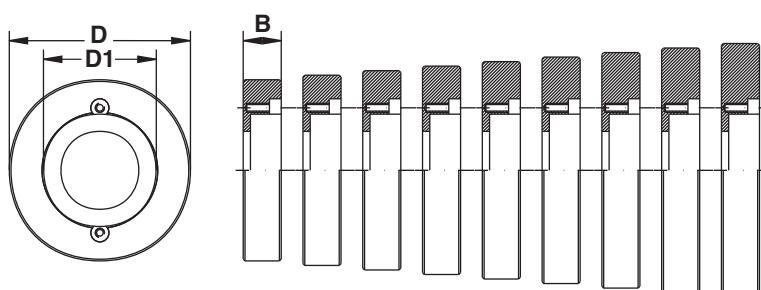
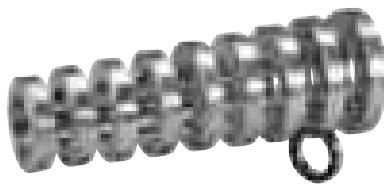
Set di cuscinetti e anelli guida di copiatura.
Set of ball bearings and guide rings for copying.
Jeu de roulement à billes et anneaux pour copiage.
Set mit Kugellager und Ring für Kopieren.
Juego de anillos de ataque con cojinete.

9006

ANELLI GUIDA / GUIDE RINGS

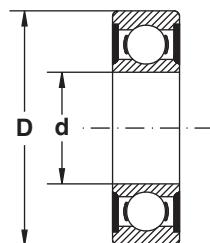
D	B	D1	ID nr.
100	21	62	9006 001
105	21	62	9006 002
110	21	62	9006 003
115	21	62	9006 004
120	21	62	9006 005
125	21	62	9006 006
130	21	62	9006 007
135	21	62	9006 008
140	21	62	9006 009
SPECIALE*	21	62	9006 010

*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.



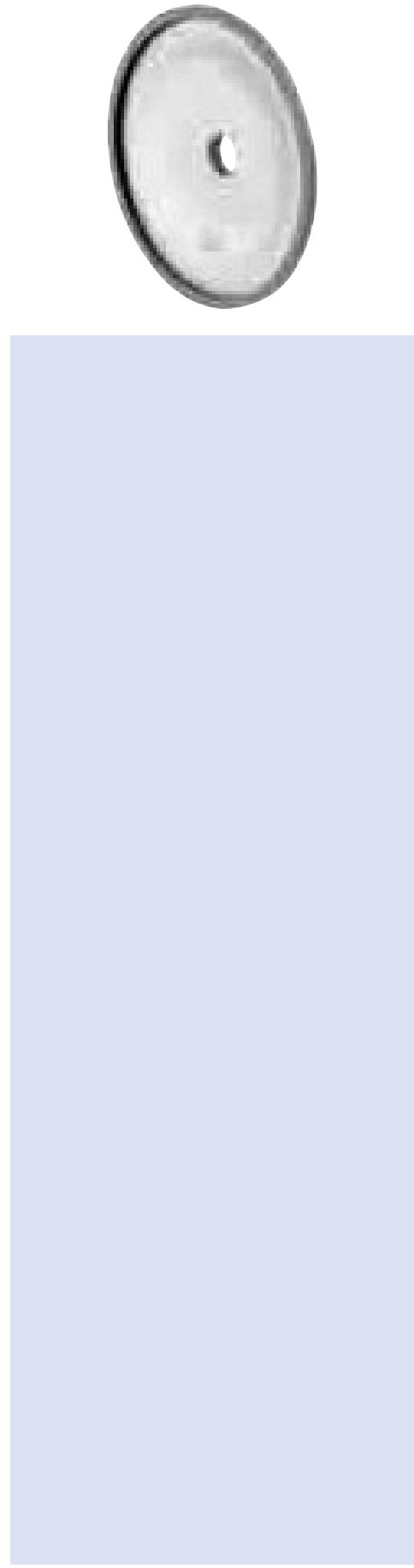
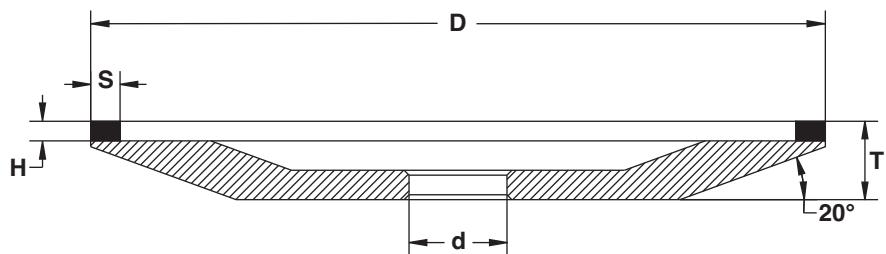
PROFILO DEL DENTE / PROFILE OF THE TOOTH

Mole diamante.
Diamond grinding wheel.
 Meule diamantée.
Diamants Schlefscheiben.
 Muelas en diamante.

9008

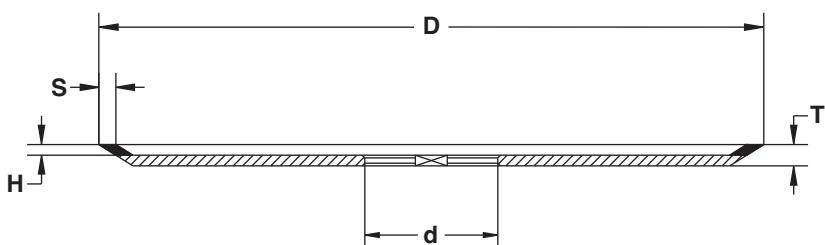
TIPO - A

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



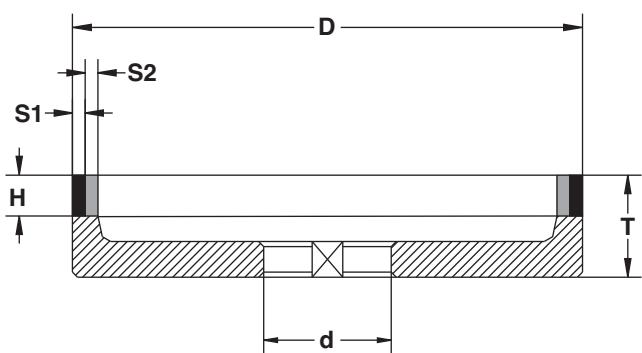
TIPO - B

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

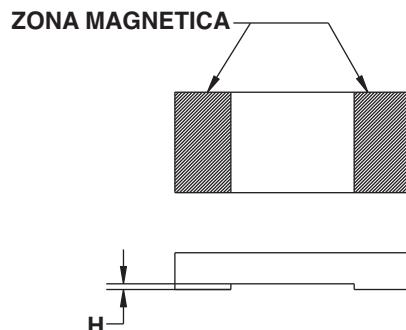


9009

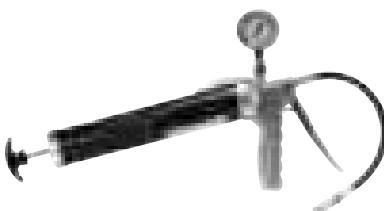


Calibro magnetico per posizionamento coltellini HM.
Magnetic gauge for HM knives positioning.
Calibre magnetique pour positionner couteaux HM.
Magnetisch Lehre zu HM Messer positionieren.
Calibre magnético para posicionar las cuchillas en HM.

H	ID nr.
0,3	9009001
1	9009002



9010

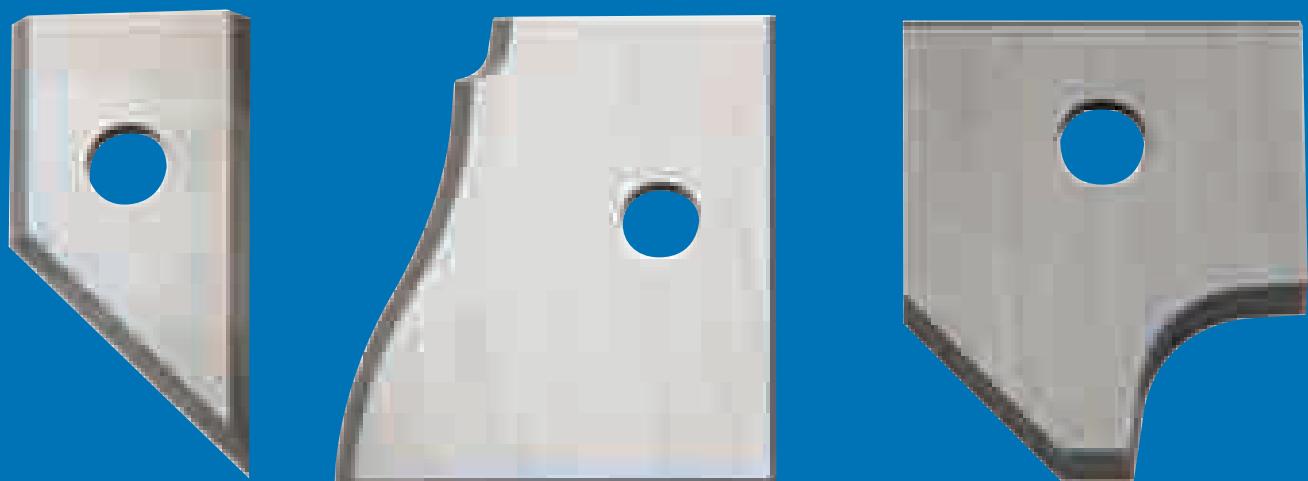


Pompa di ingrassaggio per boccale HYDRO.
Grease gun for system HYDRO.
Pompe d'engrasse pour le système HYDRO.
Schmierpumpe für System HYDRO.
Bomba de ingrasamiento para el sistema HYDRO.

ID nr.
9010001



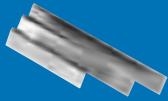
Evolved**Experience**



Ricambi

Spare parts

Ricambi Spare parts



Coltelli pialla

Plaining knives

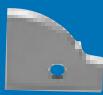
P 449



Coltelli standard

Standard knives

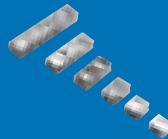
P 457



Coltelli sagomati

Shaped knives

P 464



Lardonni di serraggio

Clamping wedge

P 486



Viti di fissaggio

Fixing screws

P 487

Coltelli pialla spessore 3mm.

Plaining knives with thickness of 3mm.

Couteaux pour rabots avec épaisseur de 3mm.

Strefenhobelmesser 3mm.

Cuchillas para cepillar 3mm.

9501

Altezza 25mm

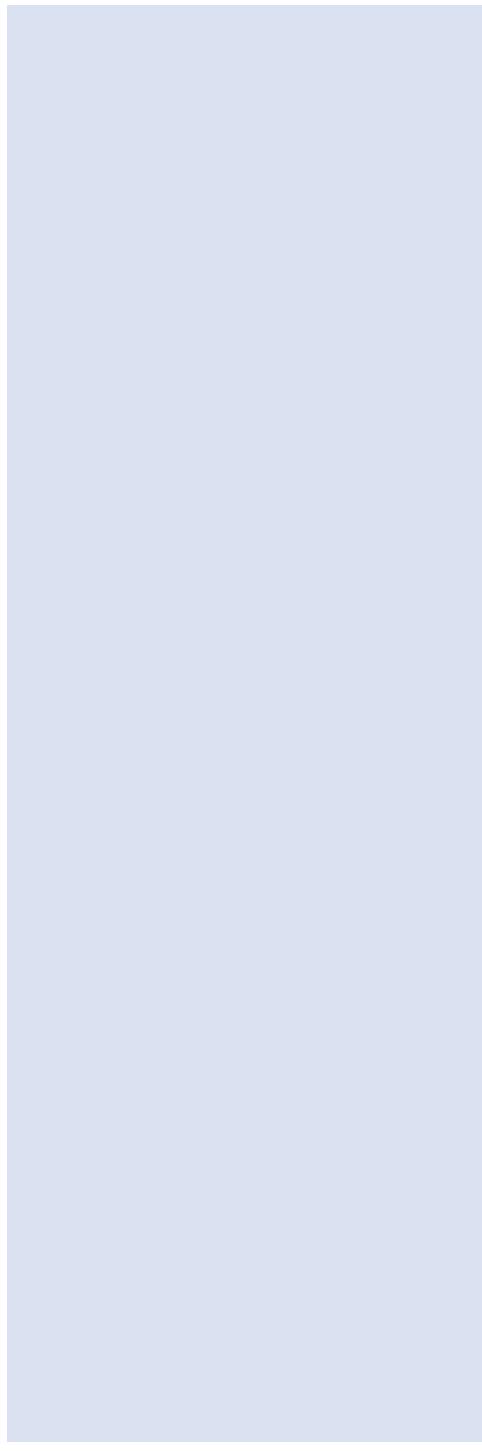
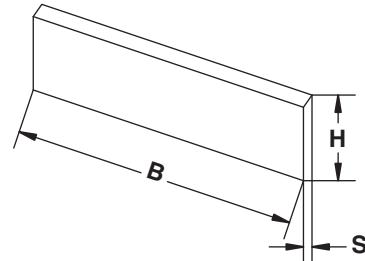
Height 25 mm

B	H	S	HSS (13% Cr) ID nr.	HSS (18% W) ID nr.	HM 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

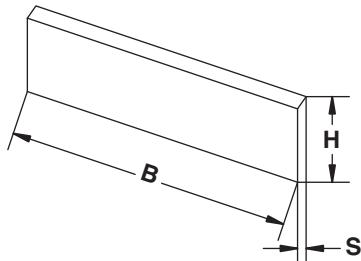
Height 30 mm

B	H	S	HSS (13% Cr) ID nr.	HSS (18% W) ID nr.	HM 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
1000	30	3	9501 141/30	9501 138/30	9501 144/30
1080	30	3	9501 083/30	9501 033/30	9501 133/30



9501

Coltelli pialla spessore 3mm.
Plaining knives with thickness of 3mm.
 Couteaux pour rabots avec épaisseur de 3mm.
Streifenholbmesser 3mm.
 Cuchillas para cepillar 3mm.



Altezza 35mm

Height 35 mm

HSS (13% Cr)

HSS (18% W)

HM

B	H	S	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
1000	35	3	9501 141/35	9501 138/35	9501 144/35
1080	35	3	9501 083/35	9501 033/35	9501 133/35

Coltelli rigati da sagomare in HSS.

Knives to profile in HSS.

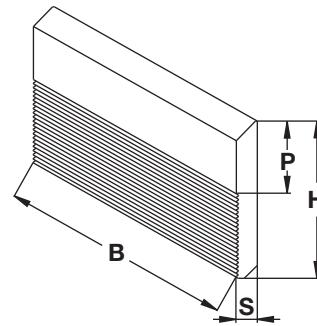
Couteaux à profiler en HSS.

Messern zu profilieren in HSS.

Cuchillas curvadas en HSS por perfilar.

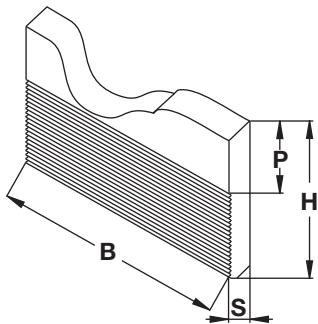
9502

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.
Profilieren Messern in HSS.
 Cuchillas curvadas 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.

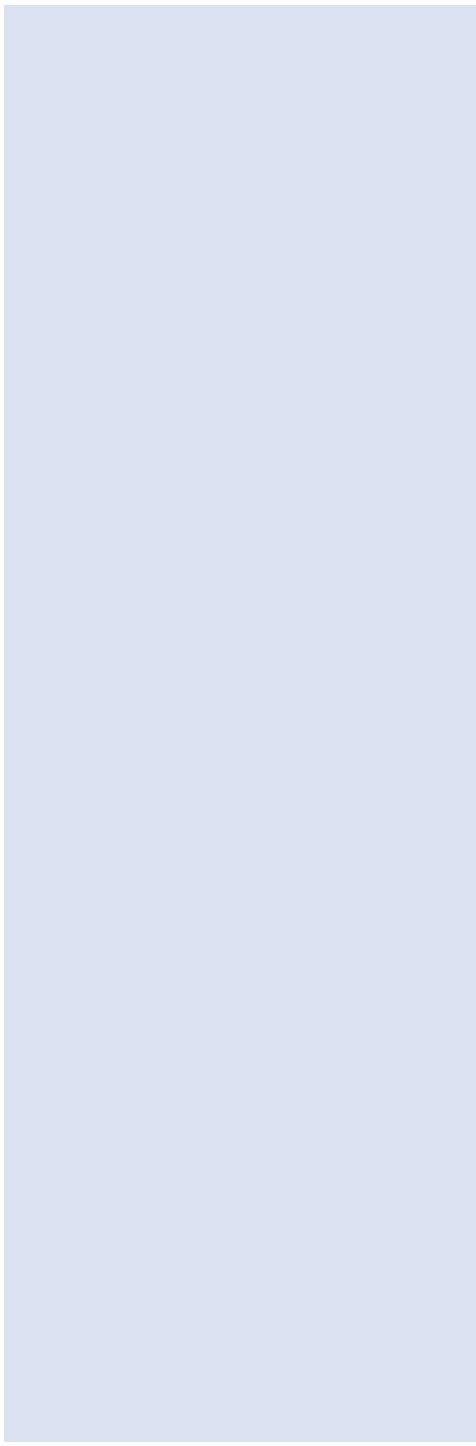
Systemhobelmesser "Tersa".

Couteaux à raboter pour système "Tersa".

Cuchillas para cepillar para sistema "Tersa".

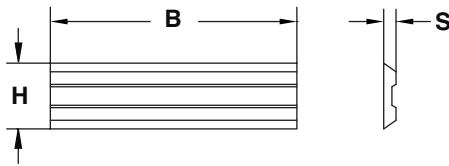
9577

		HSS (13% Cr)	HSS (18% W)	HM	
B	H	S	ID nr.	ID nr.	ID nr.
60	10	2,3	9577 001	9577 101	9577 201
75	10	2,3	9577 002	9577 102	9577 202
80	10	2,3	9577 003	9577 103	9577 203
90	10	2,3	9577 004	9577 104	9577 204
95	10	2,3	9577 005	9577 105	9577 205
100	10	2,3	9577 006	9577 106	9577 206
110	10	2,3	9577 007	9577 107	9577 207
115	10	2,3	9577 008	9577 108	9577 208
120	10	2,3	9577 009	9577 109	9577 209
125	10	2,3	9577 010	9577 110	9577 210
130	10	2,3	9577 011	9577 111	9577 211
135	10	2,3	9577 012	9577 112	9577 212
140	10	2,3	9577 013	9577 113	9577 213
145	10	2,3	9577 014	9577 114	9577 214
150	10	2,3	9577 015	9577 115	9577 215
160	10	2,3	9577 016	9577 116	9577 216
170	10	2,3	9577 017	9577 117	9577 217
180	10	2,3	9577 018	9577 118	9577 218
185	10	2,3	9577 019	9577 119	9577 219
190	10	2,3	9577 020	9577 120	9577 220
200	10	2,3	9577 021	9577 121	9577 221
210	10	2,3	9577 022	9577 122	9577 222
220	10	2,3	9577 023	9577 123	9577 223
230	10	2,3	9577 024	9577 124	9577 224
235	10	2,3	9577 025	9577 125	9577 225
240	10	2,3	9577 026	9577 126	9577 226
250	10	2,3	9577 027	9577 127	9577 227
260	10	2,3	9577 028	9577 128	9577 228
265	10	2,3	9577 029	9577 129	9577 229
270	10	2,3	9577 030	9577 130	9577 230
280	10	2,3	9577 031	9577 131	9577 231
300	10	2,3	9577 032	9577 132	9577 232
310	10	2,3	9577 033	9577 133	9577 233
320	10	2,3	9577 034	9577 134	9577 234
330	10	2,3	9577 035	9577 135	9577 235
350	10	2,3	9577 036	9577 136	9577 236
360	10	2,3	9577 037	9577 137	9577 237
400	10	2,3	9577 038	9577 138	9577 238
410	10	2,3	9577 039	9577 139	9577 239
415	10	2,3	9577 040	9577 140	9577 240
420	10	2,3	9577 041	9577 141	9577 241
430	10	2,3	9577 042	9577 142	9577 242
450	10	2,3	9577 043	9577 143	9577 243
500	10	2,3	9577 044	9577 144	9577 244
510	10	2,3	9577 045	9577 145	9577 245
520	10	2,3	9577 046	9577 146	9577 246
530	10	2,3	9577 047	9577 147	9577 247
540	10	2,3	9577 048	9577 148	9577 248
600	10	2,3	9577 049	9577 149	9577 249
610	10	2,3	9577 050	9577 150	9577 250
630	10	2,3	9577 051	9577 151	9577 251
635	10	2,3	9577 052	9577 152	9577 252
640	10	2,3	9577 053	9577 153	9577 253
650	10	2,3	9577 054	9577 154	9577 254
710	10	2,3	9577 055	9577 155	9577 255
810	10	2,3	9577 056	9577 156	9577 256
1050	10	2,3	9577 057	9577 157	9577 257



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) ID nr.	HSS (18% W) ID nr.	HM 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.

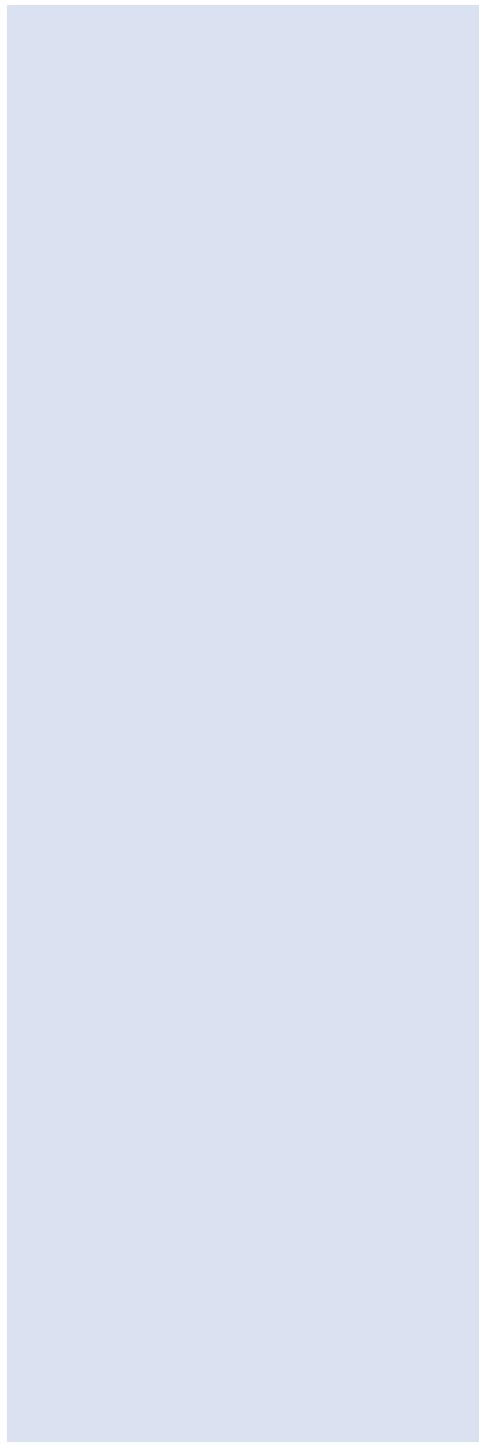
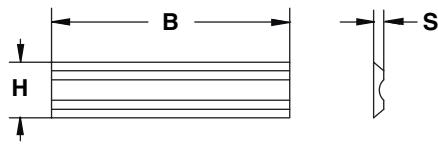
Systemhobelmesser "Terminus".

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

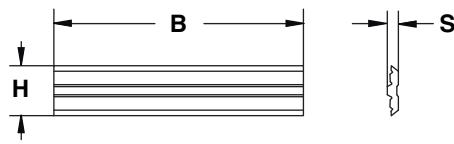
Coltelli pialla per sistema "Centrofix/Centrostar/Quickfix".

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".

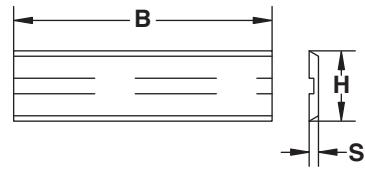


B	H	S	HSS (13% Cr) ID nr.	HSS (18% W) ID nr.	HM ID nr.
50	12	2,7	9580001	9580101	9580201
80	12	2,7	9580002	9580102	9580202
100	12	2,7	9580003	9580103	9580203
120	12	2,7	9580004	9580104	9580204
130	12	2,7	9580005	9580105	9580205
136	12	2,7	9580006	9580106	9580206
150	12	2,7	9580007	9580107	9580207
170	12	2,7	9580008	9580108	9580208
180	12	2,7	9580009	9580109	9580209
190	12	2,7	9580010	9580110	9580210
210	12	2,7	9580011	9580111	9580211
230	12	2,7	9580012	9580112	9580212
240	12	2,7	9580013	9580113	9580213
310	12	2,7	9580014	9580114	9580214
400	12	2,7	9580015	9580115	9580215
410	12	2,7	9580016	9580116	9580216
420	12	2,7	9580017	9580117	9580217
430	12	2,7	9580018	9580118	9580218
500	12	2,7	9580019	9580119	9580219
510	12	2,7	9580020	9580120	9580220
520	12	2,7	9580021	9580121	9580221
530	12	2,7	9580022	9580122	9580222
540	12	2,7	9580023	9580123	9580223
630	12	2,7	9580024	9580124	9580224
640	12	2,7	9580025	9580125	9580225
650	12	2,7	9580026	9580126	9580226
710	12	2,7	9580027	9580127	9580227
810	12	2,7	9580028	9580128	9580228
1050	12	2,7	9580029	9580129	9580229

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

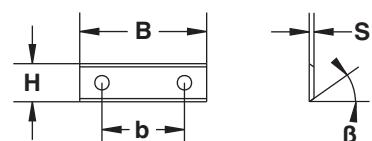
B	H	S	ID nr.
60	13,6	1,8	9565008
70	13,6	1,8	9565009
80	13,6	1,8	9565001
100	13,6	1,8	9565002
110	13,6	1,8	9565010
120	13,6	1,8	9565003
130	13,6	1,8	9565011
140	13,6	1,8	9565012
150	13,6	1,8	9565013
160	13,6	1,8	9565014
180	13,6	1,8	9565015
184	13,6	1,8	9565004
190	13,6	1,8	9565016
200	13,6	1,8	9565017
220	13,6	1,8	9565005
230	13,6	1,8	9565006
240	13,6	1,8	9565018
250	13,6	1,8	9565007
260	13,6	1,8	9565019



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°	9503001
9,65	12	1,5	-	35°	9503002
12	12	1,5	-	35°	9503003
15	12	1,5	-	35°	9503004
20	12	1,5	-	35°	9503005
30	12	1,5	14	35°	9503006
40	12	1,5	26	35°	9503007
50	12	1,5	26	35°	9503008
60	12	1,5	26	35°	9503009
80	13	2,2	60	35°	9503010
100	13	2,2	60	35°	9503011
120	13	2,2	60	35°	9503012



9504

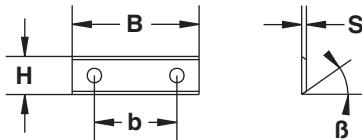
Coltellini a gettare in HM integrale con spoglia a 45°.

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

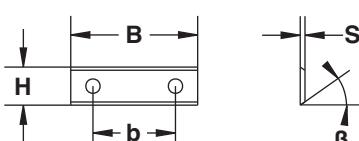
Coltellini a gettare in HM integrale KCR08.

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.

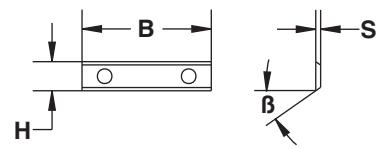


B	H	S	b	β	ID nr.
20	12	1,5	-	35°	9505 001
30	12	1,5	14	35°	9505 002
50	12	1,5	26	35°	9505 003

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

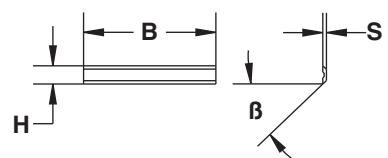
B	H	S	β	ID nr.
7,5	9	1,5	35°	9506 001
9,6	9	1,5	35°	9506 002
12	9	1,5	35°	9506 003
14,6	9	1,5	35°	9506 004
20	9	1,5	35°	9506 005
30	9	1,5	35°	9506 006
40	9	1,5	35°	9506 007
50	9	1,5	35°	9506 008
60	9	1,5	35°	9506 009



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

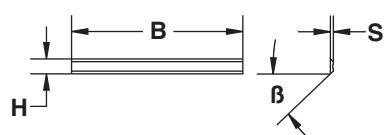
B	H	S	β	ID nr.
12	5,5	1,1	35°	9507 001
20	5,5	1,1	35°	9507 002
30	5,5	1,1	35°	9507 003
40	5,5	1,1	35°	9507 004
50	5,5	1,1	35°	9507 005



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.

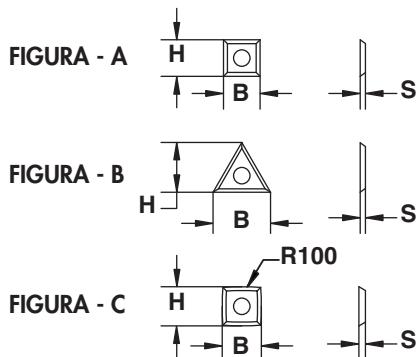
9507a

B	H	S	β	ID nr.
82	5,5	1,1	35°	9507 051



9508

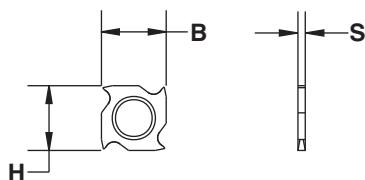
Rasanti in HM integrale.
Reversible HM integral trimmers.
 Rasant en HM intégral.
Vorschneider zu HM integral.
 Cuchillas ralladoras en HM macizo.



B	H	S	FIGURA	ID nr.
14	14	1,2	A	9508001
14	14	2	A	9508002
22	19	2	B	9508003
15	15	2,5	C	9508011

9509

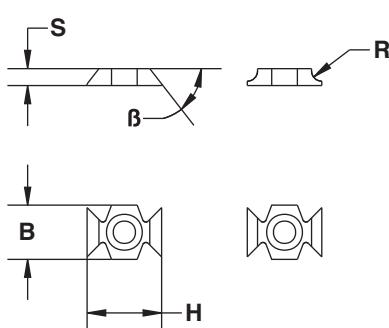
Rosette per teste incastri in HM integrale.
Reversible HM integral knives for groove cutter heads.
 Couteaux pour têtes encastrement en HM intégral.
Messer für kopf einschnitt zu HM integral.
 Cuchillas ralladoras para ensambles en HM macizo.



B	H	S	ID nr.
18	18	1,95	9509001
18	18	2,95	9509002

9510

Inserti levaspigoli in HM integrale.
All-HM integral beveler inserts.
 Insertions leve-angles en HM intégral.
Zeitung Hebelkante zu HM integral.
 Chaflanadores en HM macizo.



B	H	S	β	RAGGIO	ID nr.
16	22	5	45°	-	9510001
16	22	5	-	R1,5	9510002
16	22	5	-	R2	9510003
16	22	5	-	R3	9510004
16	22	5	-	R4	9510005
16	22	5	-	R5	9510006

Inserti levaspigoli in HM integrale tagliati.

All-HM integral beveler inserts.

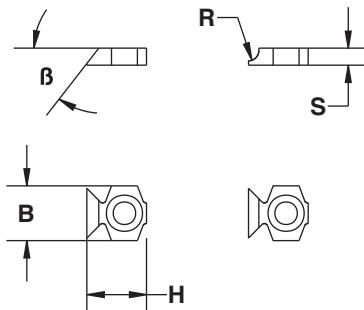
Insertions leve-angles en HM intégral.

Zeitung Hebalkante zu HM integral.

Chaflanadores en HM macizo cortados.

9511

B	H	S	B	RAGGIO	ID nr.
16	16,5	5	45°	-	9511001
16	16,5	5	-	R1,5	9511002
16	16,5	5	-	R2	9511003
16	16,5	5	-	R3	9511004
16	16,5	5	-	R4	9511005
16	16,5	5	-	R5	9511006



Inserti per canali in HM integrale.

Inserts in HM integral for gasket groove.

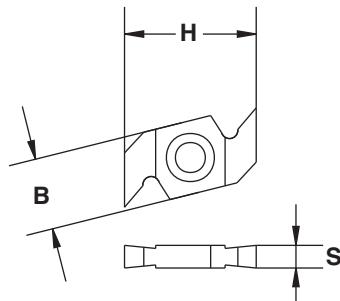
Insertion en HM intégral pour rainure joint.

Zeitung zu HM integral für Rohr besatz.

Cuchillas para ranuras en HM macizo.

9512

BxHxS	ID nr.
16x29x4	9512001
16x29x5	9512002
16x29x6	9512003



Inserti per canali saldabrasati in HM integrale.

All-HM integral inserts.

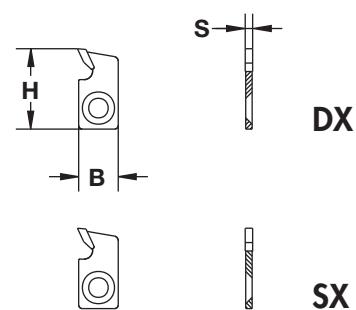
Outils en HM intégral.

Zeitung zu HM integral.

Cuchillas para ranuras con dientes soldados en HM macizo.

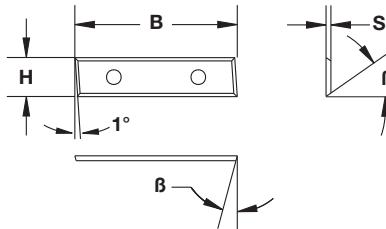
9513

BxHxS	ID nr. DX	ID nr. SX
16x32,5x3	9513051	9513052
16x32,5x4	9513053	9513054
16x32,5x5	9513055	9513056
16x32,5x6	9513057	9513058
16x32,5x7	9513059	9513060
16x32,5x8	9513061	9513062

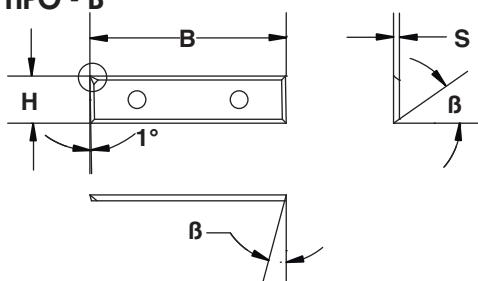


9514

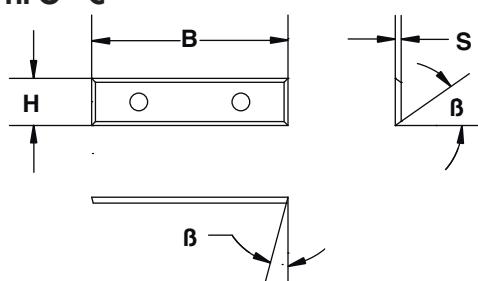
TIPO - A



TIPO - B



TIPO - C



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.

B	H	S	TIPO	B	ID nr.
30	12	1,5	A	35°	9514001
50	12	1,5		35°	9514002
30	9	1,5		35°	9514011
50	9	1,5		35°	9514012

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	B	35°	9514021
50	12	1,5		35°	9514022
30	9	1,5		35°	9514023

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°	9514051
50	12	1,5		35°	9514052
30	9	1,5		35°	9514053

Coltellini a gettare inclinati lateralmente in HM integrale.

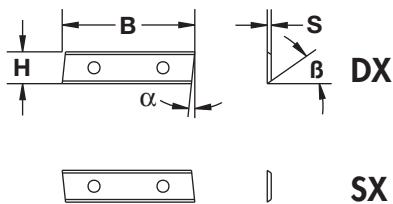
Reversible HM integral knives.

Couteaux reversibles en HM intégral.

Messe zu HM integral Werfen.

Cuchillas de usar y tirar con dos lados inclinados en HM macizo.

9515



BxHxS	α	β	ID nr. DX	ID nr. SX
7,5x12x1,5	6°	35°	9515001	9515002
9,65x12x1,5	6°	35°	9515003	9515004
12x12x1,5	6°	35°	9515005	9515006
15x12x1,5	6°	35°	9515007	9515008
20x12x1,5	6°	35°	9515009	9515010
30x12x1,5	6°	35°	9515011	9515012
40x12x1,5	6°	35°	9515013	9515014
50x12x1,5	6°	35°	9515015	9515016
7,5x12x1,5	12°	35°	9515051	9515052
9,65x12x1,5	12°	35°	9515053	9515054
12x12x1,5	12°	35°	9515055	9515056
15x12x1,5	12°	35°	9515057	9515058
20x12x1,5	12°	35°	9515059	9515060
30x12x1,5	12°	35°	9515061	9515062
40x12x1,5	12°	35°	9515063	9515064
50x12x1,5	12°	35°	9515065	9515066

Coltellini a gettare in HM integrale inclinati lateralmente con spoglia a 45°.

Reversible HM integral knives with rake of 45°.

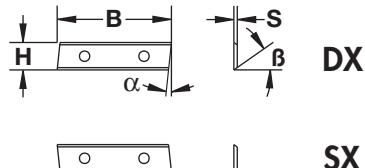
Couteaux reversibles en HM intégral avec depouille à 45°.

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°	9516001	9516002
15x12x1,5	6°	45°	9516005	9516006
20x12x1,5	6°	45°	9516007	9516008
30x12x1,5	6°	45°	9516009	9516010
40x12x1,5	6°	45°	9516011	9516012
50x12x1,5	6°	45°	9516013	9516014
7,5x12x1,5	12°	45°	9516051	9516052
15x12x1,5	12°	45°	9516055	9516056
20x12x1,5	12°	45°	9516057	9516058
30x12x1,5	12°	45°	9516059	9516060
40x12x1,5	12°	45°	9516061	9516062
50x12x1,5	12°	45°	9516063	9516064



DX SX

Coltellini a gettare in HM integrale affilati a botte.

Reversible HM integral knives bevelled in 4 sides.

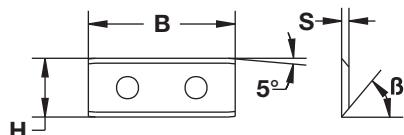
Couteaux reversibles en HM intégral émoussés sur 4 côtés.

Messe zu HM integral stumpf auf 4 Seiten.

Cuchillas de usar y tirar en HM macizo con corte chaflanado.

9517

B	H	S	β	ID nr.
30	12	1,5	35°	9517001
40	12	1,5	35°	9517002
30	12	1,5	45°	9517051



Coltellino in HM integrale con rompitruciolo.

Knife HM integral with chipbreaker.

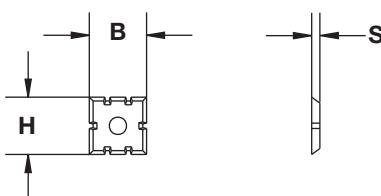
Couteau en HM intégral avec brisecoupeau.

Messe zu HM integral mit Spanbrecher.

Cuchilla en HM macizo con rompevirutas.

9518

B	H	S	ID nr.
15	15	2	9518001



9519

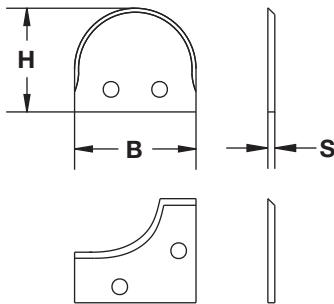
Coltelli sagomati di ricambio in HM integrale.

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

BxHxS	n°6 pz	n°12 pz	n°24 pz	n°36 pz	ID nr.	n°60 pz	n°90 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	9518033/E	
100x30x2	9519034	9519034/A	9519034/B	9519034/C	9519034/D	9518034/E	
100x35x2	9519035	9519035/A	9519035/B	9519035/C	9519035/D	9518035/E	
100x40x2	9519036	9519036/A	9519036/B	9519036/C	9519036/D	9518036/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.

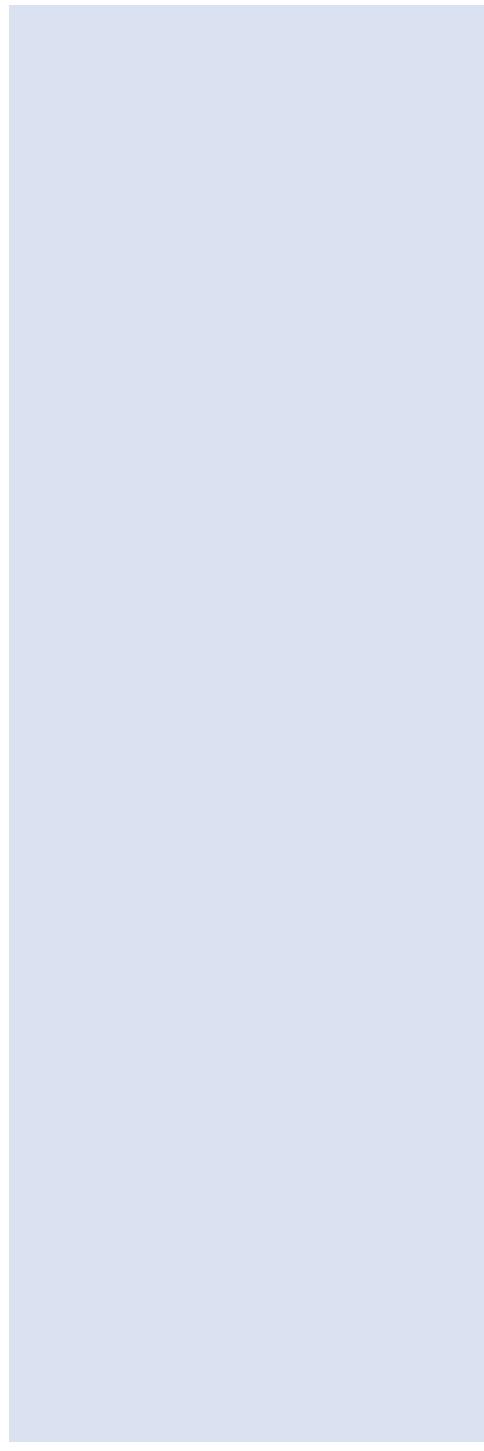
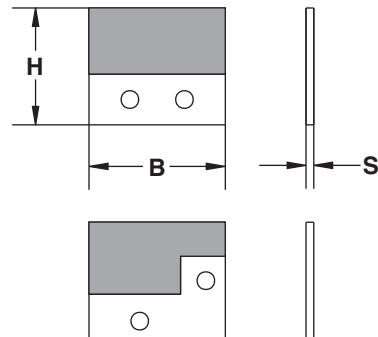
Cuchillas por perfilar utilizadas como repuestos en HM macizo.

9519a

Dimensioni	ID nr.
BxHxS	n°1 pz
20x20x2	9519101
20x25x2	9519102
20x30x2	9519103
20x35x2	9519104
25x20x2	9519105
25x25x2	9519106
25x30x2	9519107
25x35x2	9519108
30x20x2	9519109
30x25x2	9519110
30x30x2*	9519111
30x35x2	9519112
30x40x2	9519113
35x25x2	9519114
35x30x2*	9519115
35x35x2*	9519116
35x40x2	9519117
40x20x2	9519118
40x25x2	9519119
40x30x2*	9519120
40x35x2*	9519121
40x40x2*	9519122
50x25x2	9519123
50x30x2	9519124
50x35x2	9519125
50x40x2	9519126
50x45x2	9519127
60x30x2	9519128
60x35x2	9519129
60x40x2	9519130
80x30x2	9519131
80x35x2	9519132
80x40x2	9519133

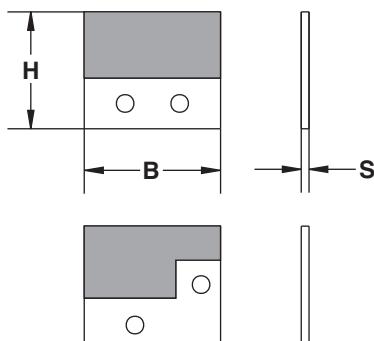
*Disponibile anche con fori sfalsati

*Also available with staggered holes



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 para perfilar utilizadas como repuestos en HM macizo.

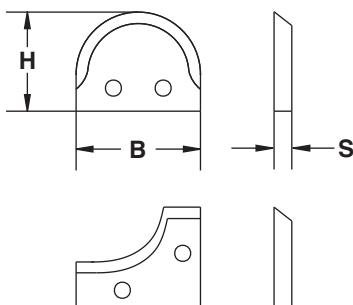


Dimensioni	ID nr.
BxHxS	n°1 pz
30x28x5	9519 201
30x33x5	9519 202
30x38x5	9519 203
35x28x5	9519 213
35x33x5	9519 214
35x38x5	9519 215
40x28x5	9519 204
40x33x5	9519 205
40x38x5	9519 206
60x28x5	9519 207
60x33x5	9519 208
60x38x5	9519 209
80x28x5	9519 210
80x33x5	9519 211
80x38x5	9519 212

= 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.

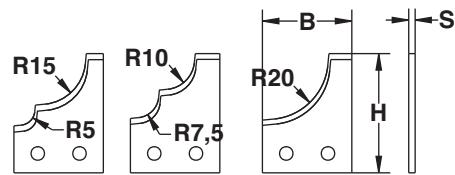
Messern mit Profil für art. 2007.

Cuchillas perfiladas utilizadas como repuestos del art. 2007.

9520

COLTELLI SAGOMATI

Dimensioni BxHxS	R7,5-10 30x40x2	R5-15 30x40x2	R20 30x40x2
ID nr.	9520001	9520002	9520003



Coltelli sagomati di ricambio per art. 2008.

Shaped spare cutters for art. 2008.

Couteaux de rechange à profil pour art. 2008.

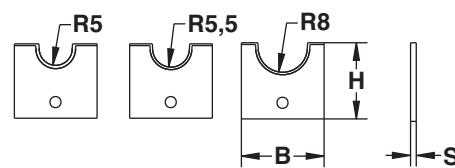
Messern mit Profil für art. 2008.

Cuchillas perfiladas utilizadas como repuestos del art. 2008.

9521

COLTELLI SAGOMATI

Dimensioni BxHxS	R5 25x30x2	R5,5 25x30x2	R8 25x30x2
ID nr.	9521001	9521002	9521003



Coltelli sagomati di ricambio per art. 2009.

Shaped spare cutters for art. 2009.

Couteaux de rechange à profil pour art. 2009.

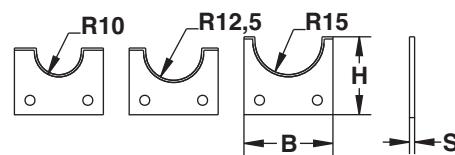
Messern mit Profil für art. 2009.

Cuchillas perfiladas utilizadas como repuestos del art. 2009.

9522

COLTELLI SAGOMATI

Dimensioni BxHxS	R10 40x35x2	R12,5 40x35x2	R15 40x35x2
ID nr.	9522001	9522002	9522003



Coltelli sagomati di ricambio per art. 2010.

Shaped spare cutters for art. 2010.

Couteaux de rechange à profil pour art. 2010.

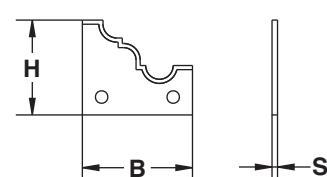
Messern mit Profil für art. 2010.

Cuchillas perfiladas utilizadas como repuestos del art. 2010.

9523

COLTELLI SAGOMATI

Dimensioni BxHxS	40x35x2
ID nr.	9523001



9524

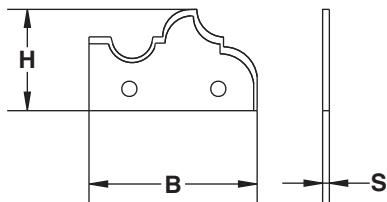
Coltelli sagomati di ricambio per art. 2011.

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.	9524001

9525

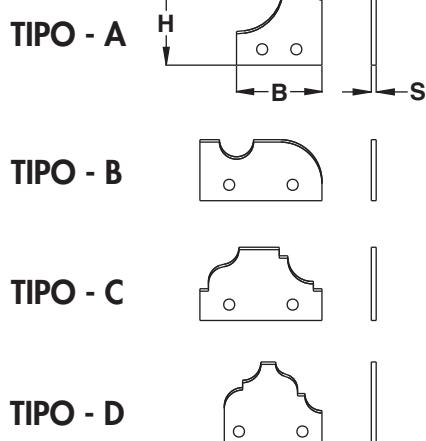
Coltelli sagomati di ricambio per art. 2012.

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.	9525001	9525002
TIPO	C	D
Dimensioni BxHxS	50x35x2	40x35x2
ID nr.	9525003	9525004

9526

Coltelli sagomati di ricambio per art. 2015.

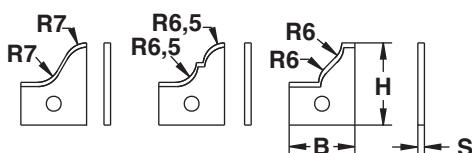
Shaped spare cutters for art. 2015.

Couteaux de rechange à profil pour art. 2015.

Messern mit Profil für art. 2015.

Cuchillas perfiladas utilizadas como repuestos del art. 2015.

TIPO - 1 TIPO - 2 TIPO - 3



COLTELLI SAGOMATI

TIPO	1	2	3
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2
ID nr.	9526001	9526002	9526003

Coltelli sagomati di ricambio per art. 2028.

Shaped spare cutters for art. 2028.

Couteaux de rechange à profil pour art. 2028.

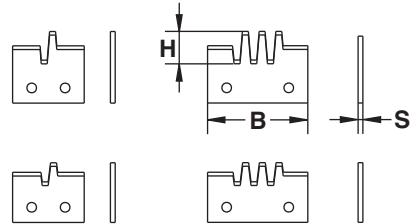
Messern mit Profil für art. 2028.

Cuchillas perfiladas utilizadas como repuestos del art. 2028.

9527

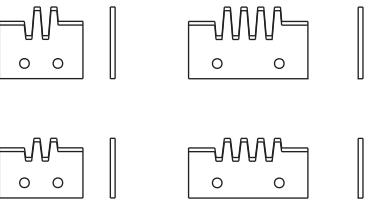
COLTELLI SAGOMATI

	n°incastri=1		n°incastri=2	
Altezza	H=8	H=12	H=8	H=12
Dimensioni BxHxS	30x25x2	30x30x2	35x25x2	35x30x2
ID nr.	9527001	9527002	9527003	9527004



COLTELLI SAGOMATI

	n°incastri=3		n°incastri=4	
Altezza	H=8	H=12	H=8	H=12
Dimensioni BxHxS	42x25x2	42x28x2	50x25x2	50x30x2
ID nr.	9527005	9527006	9527007	9527008



Coltelli sagomati di ricambio per art. 2029.

Shaped spare cutters for art. 2029.

Couteaux de rechange à profil pour art. 2029.

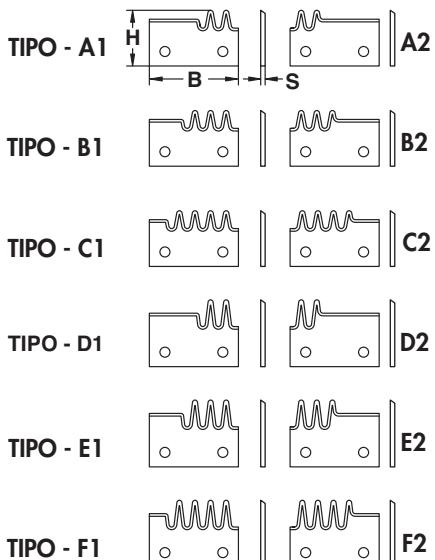
Messern mit Profil für art. 2029.

Cuchillas perfiladas utilizadas como repuestos del art. 2029.

9528

COLTELLI SAGOMATI

TIPO	A1	A2	B1	B2
Dimensioni BxHxS	40x25x2	40x25x2	40x25x2	40x25x2
ID nr.	9528011	9528012	9528013	9528014
TIPO	C1	C2	D1	D2
Dimensioni BxHxS	40x25x2	40x25x2	40x30x2	40x30x2
ID nr.	9528015	9528016	9528021	9528022
TIPO	E1	E2	F1	F2
Dimensioni BxHxS	40x30x2	40x30x2	40x30x2	40x30x2
ID nr.	9528023	9528024	9528025	9528026



9532

DX SX

TIPO - 1		
TIPO - 2		
TIPO - 3		
TIPO - 4		
TIPO - 5		

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	9532001	9532003	9532005	9532021	9532023
ID nr. SX	9532002	9532004	9532006	9532022	9532024

9533

DX SX

TIPO - 1		
TIPO - 4		
TIPO - 5		

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

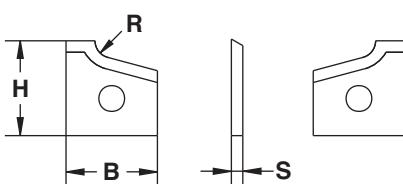
TIPO	1	4	5
Dimensioni BxHxS	60x12x1,5	20x12x1,5	20x12x1,5
ID nr. DX	9533001	9532021	9532023
ID nr. SX	9533002	9532022	9532024

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.

9534

DX SX



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	9534001	9534002
COLTELLI R3 (SM.Mec)	16x17x2	9534005	9534006
COLTELLI R3 (MiniMax/(SM.Mec))	16x17x2	9534003	9534004
COLTELLI R2-2° (SM.Mec)	16x17x2	9534007	9534008
COLTELLI R2 -1,5° (SM.Mec)	16x17x2	9534009	9534010

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.

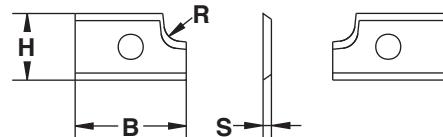
9535

COLTELLI SAGOMATI

	RAGGIO-2	RAGGIO-3
Dimensioni BxHxS	20x12x1,5	20x12x1,5
ID nr. DX	9535001	9535003
ID nr. SX	9535002	9535004

DX

SX



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

Dimensioni BxHxS	16x14x2
ID nr.	9536001

TIPO - B PER ART. 2047005/006/007/008/017/018/019/020

Dimensioni BxHxS	16x17,5x2
ID nr.	9536002

TIPO - C PER ART. 2047001/002/003/004/021

Dimensioni BxHxS	16x13,4x2
ID nr.	9536003

TIPO - D PER ART. 2047013/014/015/016

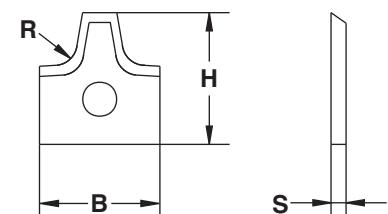
Dimensioni BxHxS	16x14,4x2
ID nr.	9536004

TIPO - E PER ART. 2047101

Dimensioni BxHxS	16x13,15x2
ID nr.	9536101

TIPO - F PER ART. 2047022/023

Dimensioni BxHxS	16x14,4x2
ID nr.	9536005



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.

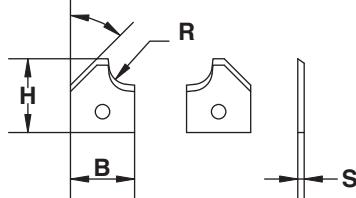
Messern mit Profil für art. 3040 - 2032.

Cuchillas perfiladas utilizadas como repuestos del art. 3040 - 2032.

DX

SX

45°



PER ART. 3040

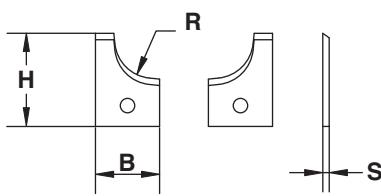
COLTELLI SAGOMATI

Raggio	2-45°	3-45°	4-45°
Dimensioni BxHxS	20x25x2	20x25x2	20x25x2
ID nr. DX	9538001-01	9538001-02	9538001-03
ID nr. SX	9538002-01	9538002-02	9538002-03
Raggio	5-45°	6-45°	
Dimensioni BxHxS	20x25x2	20x25x2	
ID nr. DX	9538001-04	9538001-05	
ID nr. SX	9538002-04	9538002-05	

DX

SX

R



PER ART. 3040

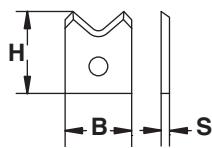
COLTELLI SAGOMATI

Raggio	6	7	8	9
BxHxS	20x30x2	20x30x2	20x30x2	20x30x2
ID nr. DX	9538003-01	9538003-02	9538003-03	9538003-04
ID nr. SX	9538004-01	9538004-02	9538004-03	9538004-04
Raggio	10	11	12	
BxHxS	20x30x2	20x30x2	20x30x2	
ID nr. DX	9538003-05	9538003-06	9538003-07	
ID nr. SX	9538004-05	9538004-06	9538004-07	

DX

SX

H



PER ART. 2032

COLTELLI SAGOMATI

Raggio	2	3	4
Dimensioni BxHxS	16x20x2	16x20x2	16x20x2
ID nr. DX	9538011	9538012	9538013
ID nr. SX	-	-	-
Raggio	5	6	
Dimensioni BxHxS	16x20x2	16x20x2	
ID nr. DX	9538014	9538015	
ID nr. SX	-	-	

Coltelli sagomati di ricambio per art. 3050.

Shaped spare cutters for art. 3050.

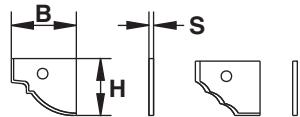
Couteaux de rechange à profil pour art. 3050.

Messern mit Profil für art. 3050.

Cuchillas perfiladas utilizadas como repuestos del art. 3050.

9539

COLTELLI SAGOMATI				
TIPO	A	B	C	D
Dimensioni BxHxS	30x25x2	30x25x2	15x25x2	30x25x2
ID nr.	9539001	9539002	9539003	9539004



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.

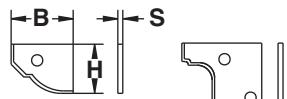
Messern mit Profil für art. 3051.

Cuchillas perfiladas utilizadas como repuestos del art. 3051.

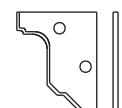
9540

COLTELLI SAGOMATI				
TIPO	A	B	C	D
Dimensioni BxHxS	25x20x2	40x35x2	22,4x12x1,5*	23,8x12x1,5*
ID nr.	9540001	9540002	9540003	9540004

*Ricavati dal 30x12x1,5 / Realised using knife 30x12x1,5



TIPO - A



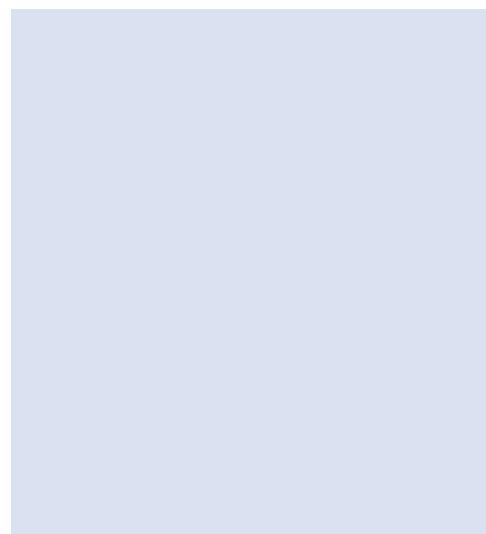
TIPO - B



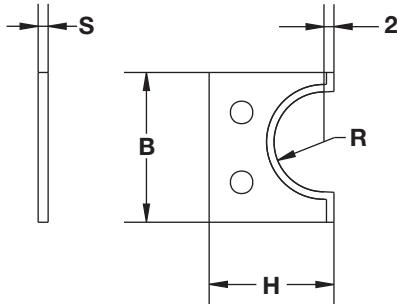
TIPO - C



TIPO - D



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.	9542011	9542012	9542013	9542014

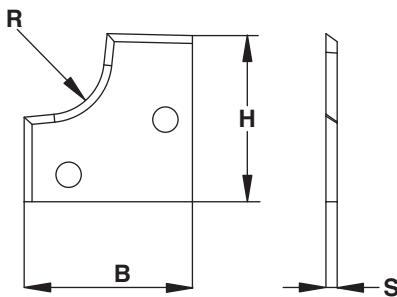
COLTELLI SAGOMATI

	R12	R12,5	R15	R17,5
Dimensioni BxHxS	35x30x2	35x30x2	50x35x2	50x35x2
ID nr.	9542015	9542016	9542017	9542018

COLTELLI SAGOMATI

	R20	R22,5	R25
Dimensioni BxHxS	50x35x2	60x40x2	60x40x2
ID nr.	9542019	9542020	9542021

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.	9543011	9543012	9543013	9543014

COLTELLI SAGOMATI

	R12	R12,5	R15	R17,5
Dimensioni BxHxS	30x30x2	30x30x2	35x35x2	35x35x2
ID nr.	9543015	9543016	9543017	9543018

COLTELLI SAGOMATI

	R20	R22,5	R25
Dimensioni BxHxS	35x35x2	40x40x2	40x40x2
ID nr.	9543019	9543020	9543021

Coltelli sagomati di ricambio per art. 3061.

Shaped spare cutters for art. 3061.

Couteaux de rechange à profil pour art. 3061.

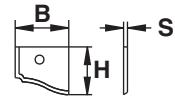
Messern mit Profil für art. 3061.

Cuchillas perfiladas utilizadas como repuestos del art. 3061.

9549

COLTELLI SAGOMATI

TIPO	A	B	C	D	E
BxHxS	30x25x2	25x25x2	15x25x2	15x25x2	30x30x2
ID nr.	9549001	9549002	9549003	9549004	9549005



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.

Plaquette 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.

9550

FIGURA-A PER ART.2048 PLACCHETTA 12,7x12,7x3,18 SAGOMATA 106° TIPO SCM

Raggio	1	1,5	2	3
ID nr.	9550001	9550002	9550003	9550004

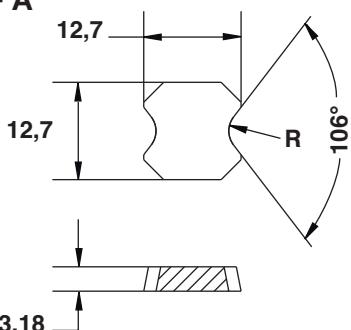


FIGURA - A

FIGURA-B PER ART.2048 PLACCHETTA 12,7x12,7x3,18 SAGOMATA 110° TIPO BIESSE

Raggio	1	1,5	2	3
ID nr.	9550101	9550102	9550103	9550104

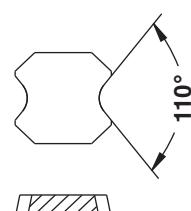


FIGURA - B



9550

Placchette di ricambio per raschiabordi art. 2048 - 2057 - 2058.

Spared tips for scraper art. 2048 - 2057 - 2058.

Plaquette 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

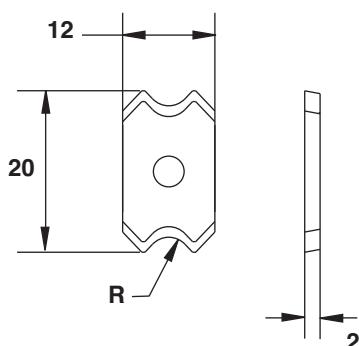


FIGURA-C PER ART.2057

PLACCHETTA 20x12x2 SAGOMATA

Raggio	1	1,5	2	3
ID nr.	9550 201	9550 202	9550 203	9550 204

FIGURA - D

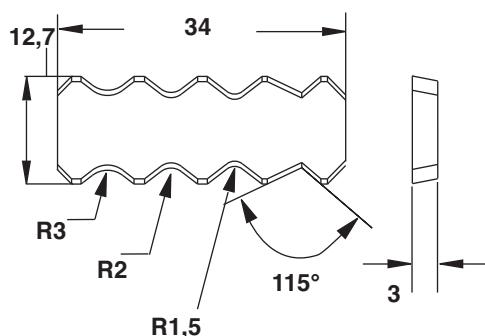


FIGURA-D PER ART.2058

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

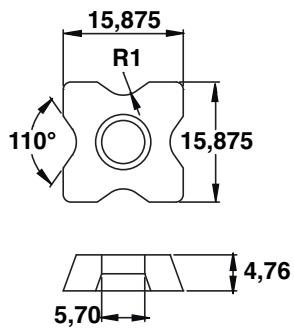


FIGURA-E

PLACCHETTA RCS 15,87x15,87x4,76

Raggio	1	1,5	2	3
ID nr.	9550 401	9550 402	9550 403	9550 404

FIGURA - F

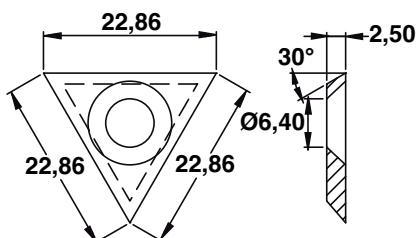


FIGURA-F

RASANTI IN HM TRIANGOLARI 22,86 SP = 2,5

ID nr.	9550 501
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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.

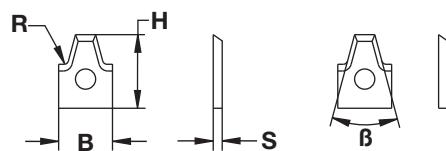
9551

COLTELLI SAGOMATI

RAGGIO	1,5	2,0	3,0	4,0	5,0
BxHxS	12x20x2	12x20x2	12x20x2	12x20x2	15x20x2
ID nr.	9551003	9551004	9551006	9551008	9551010

COLTELLI SAGOMATI

B	30°	45°	60°
BxHxS	12x20x2	12x20x2	12x20x2
ID nr.	9551021	9551022	9551023



Coltelli sagomati di ricambio per art. 2053.

Shaped spare cutters for art. 2053.

Couteaux de rechange à profil pour art. 2053.

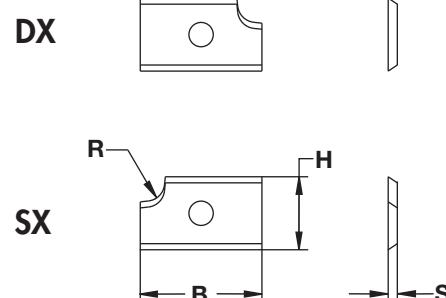
Messern mit Profil für art. 2053.

Cuchillas perfiladas utilizadas como repuestos del art. 2053.

9552

COLTELLI SAGOMATI

RAGGIO	1,5	2,0	3,0
Dimensioni BxHxS	20x12x1,5	20x12x1,5	20x12x1,5
ID nr. DX	9552001	9552003	9552005
ID nr. SX	9552002	9552004	9552006



Coltelli sagomati di ricambio per art. 2051.

Shaped spare cutters for art. 2051.

Couteaux de rechange à profil pour art. 2051.

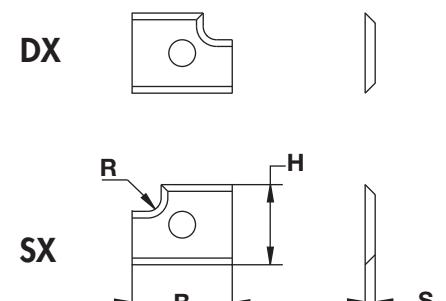
Messern mit Profil für art. 2051.

Cuchillas perfiladas utilizadas como repuestos del art. 2051.

9553

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. DX	9553001	9553003	9553005	9553007	9553009
ID nr. SX	9553002	9553004	9553006	9553008	9553010



9554

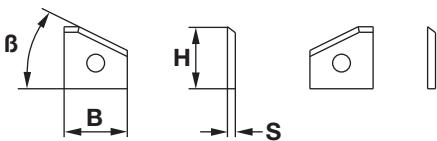
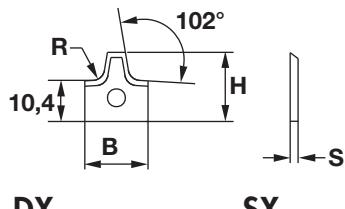
Coltelli sagomati di ricambio per art. 2054.

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.	9554001	9554002	9554003	9554004	9554005

COLTELLI SAGOMATI

β	25°
BxHxS	16x15,7x2
ID nr. DX	9554011
ID nr. SX	9554012

9555

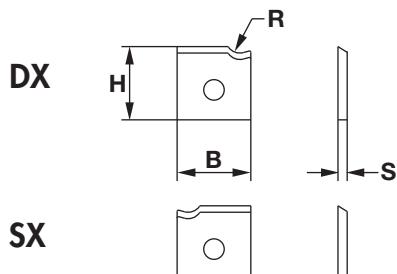
Coltelli sagomati di ricambio per art. 2055.

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	9555001	9555003	9555005
ID nr. SX	9555002	9555004	9555006

9556

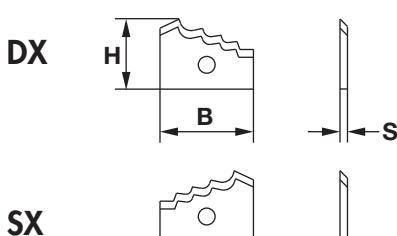
Coltelli sagomati di ricambio per art. 2056.

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	9556001
ID nr. SX	9556002

Coltelli sagomati di ricambio per art. 2060.

Shaped spare cutters for art. 2060.

Couteaux de rechange à profil pour art. 2060.

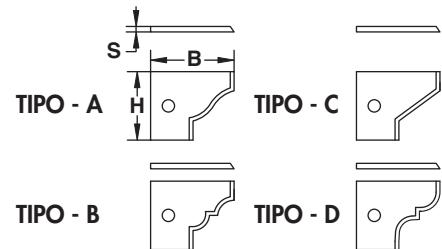
Messern mit Profil für art. 2060.

Cuchillas perfiladas utilizadas como repuestos del art. 2060.

9557

COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	25x30x2	25x30x2	25x30x2	25x30x2
ID nr.	9557001	9557002	9557003	9557004



Coltelli sagomati di ricambio per art. 2065.

Shaped spare cutters for art. 2065.

Couteaux de rechange à profil pour art. 2065.

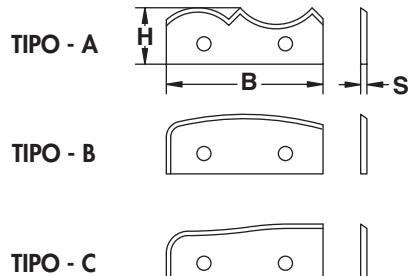
Messern mit Profil für art. 2065.

Cuchillas perfiladas utilizadas como repuestos del art. 2065.

9558

COLTELLI SAGOMATI

RAGGIO	A	B	C
Dimensioni BxHxS	50x18x2	50x19x2	50x19x2
ID nr.	9558001	9558002	9558003



Coltelli sagomati di ricambio per art. 2066 - 2067.

Shaped spare cutters for art. 2066 - 2067.

Couteaux de rechange à profil pour art. 2066 - 2067.

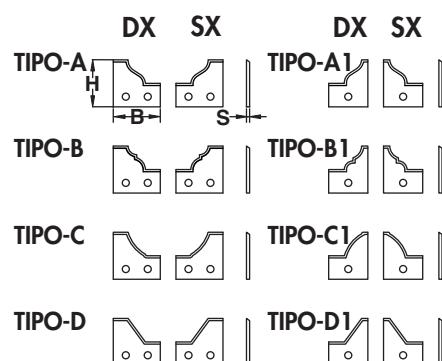
Messern mit Profil für art. 2066 - 2067.

Cuchillas perfiladas utilizadas como repuestos del art. 2066 - 2067.

9559

COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	30x30x2	30x30x2	30x30x2	30x30x2
ID nr. DX	9559001	9559003	9559005	9559007
ID nr. SX	9559002	9559004	9559006	9559008
TIPO	A1	B1	C1	D1
Dimensioni BxHxS	25x30x2	25x30x2	25x30x2	25x30x2
ID nr. DX	9559009	9559011	9559013	9559015
ID nr. SX	9559010	9559012	9559014	9559016



9560

	DX	SX
TIPO - 1		
TIPO - 2		
TIPO - 3		
TIPO - 4		
TIPO - 5		
TIPO - 6		
TIPO - 7		
TIPO - 8		

Coltelli sagomati di ricambio per art. 2069.

Shaped spare cutters for art. 2069.

Couteaux de rechange à profil pour art. 2069.

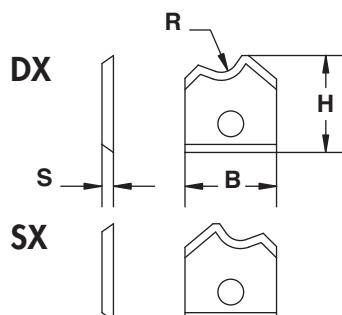
Messern mit Profil für art. 2069.

Cuchillas perfiladas utilizadas como repuestos del art. 2069.

COLTELLI SAGOMATI

TIPO	1	2	3	4
Dimensioni BxHxS	60x25x2	60x25x2	60x25x2	60x25x2
ID nr. DX	9560001	9560003	9560005	9560007
ID nr. SX	9560002	9560004	9560006	9560008
TIPO	5	6	7	8
Dimensioni BxHxS	60x25x2	60x25x2	60x25x2	60x25x2
ID nr. DX	9560009	9560011	9560013	9560015
ID nr. SX	9560010	9560012	9560014	9560016

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	9562001	9562003	9562005
ID nr. SX	9562002	9562004	9562006

Coltelli sagomati di ricambio per art. 2072.

Shaped spare cutters for art. 2072.

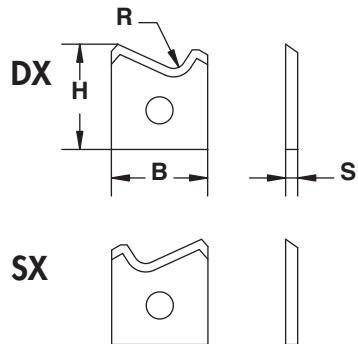
Couteaux de rechange à profil pour art. 2072.

Messern mit Profil für art. 2072.

Cuchillas perfiladas utilizadas como repuestos del art. 2072.

9563

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	



Coltelli sagomati di ricambio per art. 3049.

Shaped spare cutters for art. 3049.

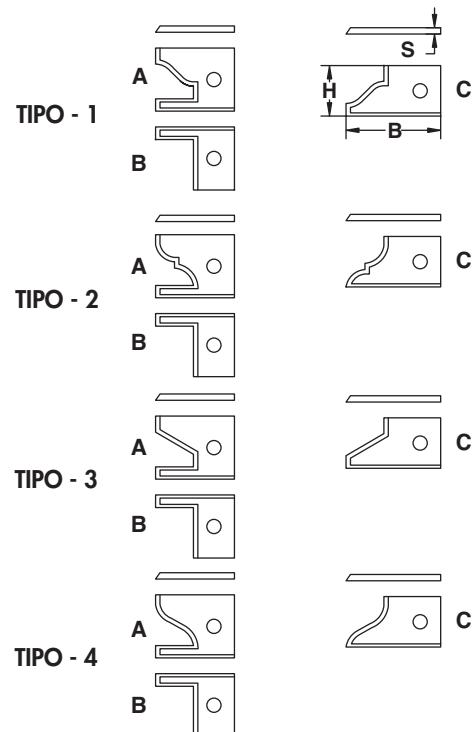
Couteaux de rechange à profil pour art. 3049.

Messern mit Profil für art. 3049.

Cuchillas perfiladas utilizadas como repuestos del art. 3049.

9564

COLTELLI SAGOMATI				
TIPO - C	1	2	3	4
Dimensioni BxHxS	16x30x2	16x30x2	16x30x2	16x30x2
ID nr.	9564 001	9564 002	9564 003	9564 004



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			

9566

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.



TIPO - A



TIPO - B



TIPO - C



TIPO - D



TIPO - E

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

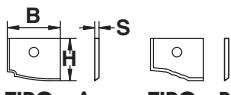
Coltelli sagomati di ricambio per art. 3070.

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.



TIPO - A



TIPO - B



TIPO - C



TIPO - D

COLTELLI SAGOMATI

TIPO	A	B	C	D
Dimensioni BxHxS	25x20x2	25x20x2	15x25x2	30x30x2
ID nr.	9567 001	9567 002	9567 003	9567 004

9568

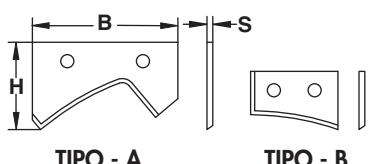
Coltelli sagomati di ricambio per art. 3071.

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.



TIPO - A



TIPO - B

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.

9569

PER ART. 3062001/002/003/004

COLTELLI SAGOMATI

TIPO	1	2	3	4
Dimensioni	25x30x2	25x30x2	25x30x2	25x30x2
ID nr. DX	9569001	9569003	9569005	9569007
ID nr. SX	9569002	9569004	9569006	9569008
TIPO	5	6	7	8
Dimensioni	25x30x2	25x30x2	25x30x2	25x30x2
ID nr. DX	9569009	9569011	9569013	9569015
ID nr. SX	9569010	9569012	9569014	9569016

PER ART. 3062007

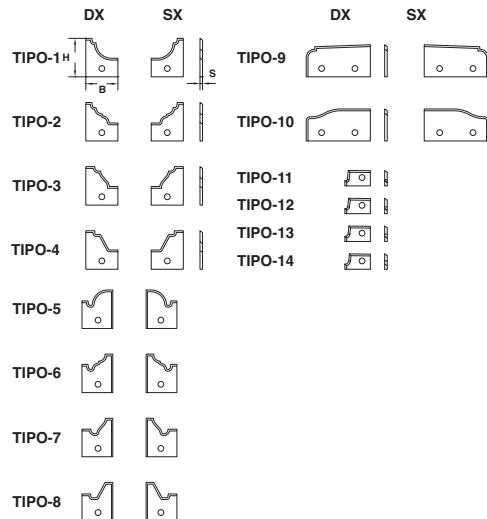
COLTELLI SAGOMATI

TIPO	9	10
Dimensioni	50x25x2	50x25x2
ID nr. DX	9569017	9569019
ID nr. SX	9569018	9569020

PER ART. 3062006

COLTELLI SAGOMATI

TIPO	11	12	13	14
Dimensioni	12x19,85x2	12x19,85x2	12x19,85x2	12x19,85x2
ID nr. DX	9569021	9569022	9569023	9569024
ID nr. SX	-	-	-	-



Coltelli sagomati di ricambio per art. 3063.

Shaped spare cutters for art. 3063.

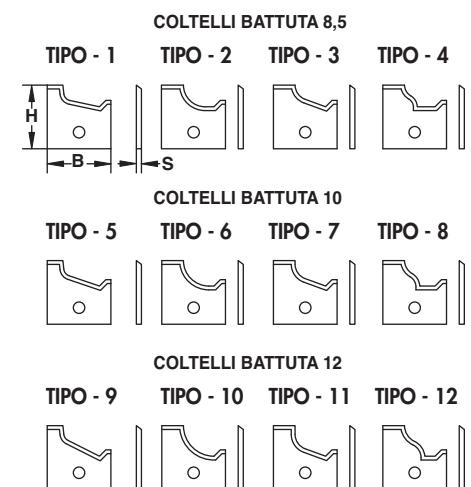
Couteaux de rechange à profil pour art. 3063.

Messern mit Profil für art. 3063.

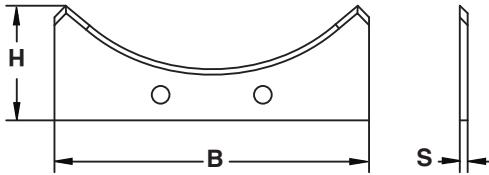
Cuchillas perfiladas utilizadas como repuestos del art. 3063.

9570

COLTELLI SAGOMATI				
TIPO	1	2	3	4
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr. DX	9570001	9570002	9570003	9570004
TIPO	5	6	7	8
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr. DX	9570011	9570012	9570013	9570014
TIPO	9	10	11	12
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr. DX	9570021	9570022	9570023	9570024



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.

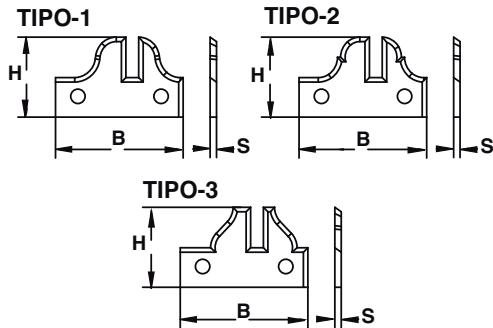
COLTELLI SAGOMATI

	R30	R35	R40
Dimensioni BxHxS	60x30x2	60x30x2	60x30x2
ID nr. DX	9571001	9571002	9571003
ID nr. SX	-	-	-

COLTELLI SAGOMATI

	R45	R50	R55
Dimensioni BxHxS	80x30x2	80x30x2	80x30x2
ID nr. DX	9571011	9571012	9571013
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.

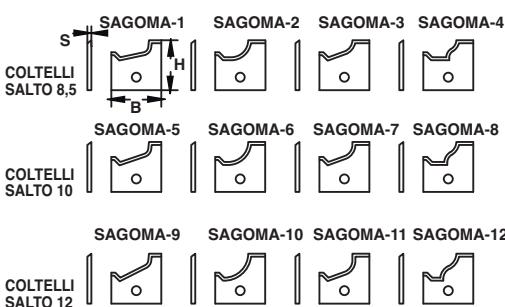
Messern mit Profil für art. 2077.

Cuchillas perfiladas utilizadas como repuestos del art. 2077.

COLTELLI SAGOMATI

	1	2	3
Dimensioni BxHxS	40x25x2	40x25x2	40x25x2
ID nr. DX	9572001	9572002	9572003

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

TIPO	1	2	3	4
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr.	9573001	9573002	9573003	9573004

BATTUTA 10

TIPO	5	6	7	8
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr.	9573011	9573012	9573013	9573014

BATTUTA 12

TIPO	9	10	11	12
Dimensioni BxHxS	25x25x2	25x25x2	25x25x2	25x25x2
ID nr.	9573021	9573022	9573023	9573024

Coltelli sagomati di ricambio per art. 2080.

Shaped spare cutters for art. 2080.

Couteaux de rechange à profil pour art. 2080.

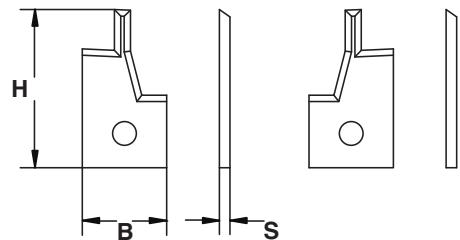
Messern mit Profil für art. 2080.

Cuchillas perfiladas utilizadas como repuestos del art. 2080.

9574

COLTELLI SAGOMATI

Dimensioni BxHxS	16x30x2
ID nr. DX	9574001
ID nr. SX	9574002



Coltelli sagomati di ricambio per art. 2081.

Shaped spare cutters for art. 2081.

Couteaux de rechange à profil pour art. 2081.

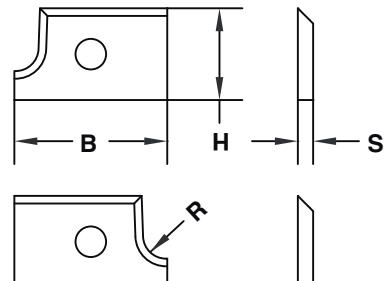
Messern mit Profil für art. 2081.

Cuchillas perfiladas utilizadas como repuestos del art. 2081.

9575

COLTELLI SAGOMATI

RAGGIO	2	3
Dimensioni BxHxS	12x20x2	12x20x2
ID nr. DX	9575001	9575003
ID nr. SX	9575002	9575004



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.

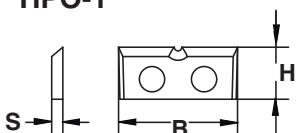
Cuchillas perfiladas utilizadas como repuestos del art. 3073.

9576

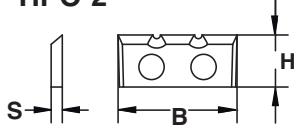
COLTELLI SAGOMATI

TIPO	1	2
Dimensioni BxHxS	16x7x1,5	16x7x1,5
ID nr.	9576001	9576002

TIPO-1



TIPO-2



9545

Lardoni di serraggio per coltelli.

Clamping wedge.

Coins de serrage.

Keil von Sperren.

Cuñas para las cuchillas.

FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 6



FIG. 7



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	9545001
8,5x12x7,5	per coltello da 9,65	9545002
10x12x7,5	per coltello da 12	9545003
13x12x7,5	per coltello da 15-16	9545004
18x12x7,5	per coltello da 20-25	9545005
28x12x7,5	per coltello da 30-35	9545006
38x12x7,5	per coltello da 40	9545007
48x12x7,5	per coltello da 50	9545008
58x12x7,5	per coltello da 60	9545009
78x12x7,5	per coltello da 80	9545010

Lardoni di ricambio per fissaggio con ogiva/Spare clamping wedges for fixing by ogiva screw - **FIG.2**

Dimensioni	Impiego	ID nr.
10x12x7,5	per coltello da 12	9545021
13x12x7,5	per coltello da 15-16	9545022
18x12x7,5	per coltello da 20-25	9545023
28x12x7,5	per coltello da 30-35	9545024
38x12x7,5	per coltello da 40	9545025
48x12x7,5	per coltello da 50	9545026

Lardoni di ricambio per art. 2046/Spare clamping wedges for art. 2046 - **FIG.3**

Dimensioni	Impiego	ID nr. Dx	ID nr. Sx
18x12x7,5	per coltello ART.9535	9545031	9545032

Lardoni di ricambio per art. 2047/Spare clamping wedges for art. 2047 - **FIG.4**

Dimensioni	Impiego	ID nr.
13x12x6	per coltello da 16	9545041

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	9545061

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	9545071

Viti.
Screws.
Vis.
Schraube.
Tornillos.

9546

Dimensioni	Denominazione	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 levaspigoli 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



9547

Controviti.
Back-screws.
Vis derrières.
Hinter-schraube.
Cuñas.

FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5

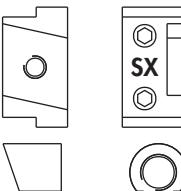


FIG. 6



Dimensioni	Impiego	ID nr.	FIG.
M4 Ø10,2	Controvite per rasanti ART. 9508	9547001	FIG.1
M4 Ø11,6	Controvite per rosette ART. 9509	9547002	FIG.2
Ø13x0,1x6,2 Ø13x0,3x6,2 Ø13x0,5x6,2 Ø13x1x6,2	Spessori per levaspigoli ART. 9510/9511 e inserti ART. 9512/9513	9547003 9547004 9547005 9547006	FIG.3
27x14,5x14 DX 27x14,5x14 SX	Supporti regolabili per levaspigoli ART. 9510/9511 e inserti ART. 9512/9513	9547007DX 9547007SX	FIG.4
M5 Ø8 M8 Ø12	Ogiva di fissaggio per coltellini	9547008 9547009	FIG.5
M10x14	Elicoide per teste piatta Art. 2017	9547010	FIG.6

9548

Chiavi.
Keys.
Clefs.
Llave.
Llaves.

FIG. 1



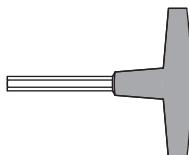
FIG. 2



FIG. 3



FIG. 4



Dimensioni	Impiego	ID nr.	FIG.
T9 T15	Chiave per viti TORX	9548001 9548002	FIG.1
Chiave esagonale 3mm	M6	9548003	FIG.2
Chiave esagonale 6mm	M12	9548006	FIG.2
45/50 58/62	Chiave settore per ghiere	9548007 9548008	FIG.3
Chiave esagonale 4mm Chiave esagonale 5mm	Per viti M8 Per viti M10	9548009 9548010	FIG.4

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