



PROGRAMMA PUNTE PER C.N.C.
ROUTER PROGRAMME FOR C.N.C - BOHRER-PROGRAMM FÜR C.N.C.



2

2003

ISO-9001 certificated



quality by choice

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Il Gruppo STARK nasce nel 1962. La sede centrale, con gli uffici e lo stabilimento produttivo, è ubicata a Trivignano Udinese, a circa 20 km a sud di Udine, nel Friuli-Venezia Giulia (Italia). Nel 1976 è stato costituito lo stabilimento della STARK GmbH, a Oberkochen, nel Baden-Württemberg, che cura la distribuzione in Germania. La produzione STARK si sviluppa su due linee: gli utensili per la lavorazione del legno e le seghe circolari per il taglio dei metalli. Leader nei settori di attività, STARK è presente in tutto il mondo tramite una consolidata e capillare rete commerciale i cui risultati hanno consentito all'Azienda una sistematica crescita. Attualmente STARK conta di un organico di circa 200 unità, composto da uno staff dirigenziale di prim'ordine e da tecnici qualificati che le assicurano una gestione ottimale e prodotti considerati all'avanguardia per la qualità, la sicurezza e per la puntualità del servizio offerto alla numerosa ed esigente clientela. STARK monitorizza l'avanzamento della produzione su ogni fase ottenendo così un dinamico miglioramento organizzativo, per il costante perfezionamento dell'intero sistema aziendale. Gli utensili per la lavorazione del legno sono progettati per rispondere puntualmente alle diversificate specifiche del Cliente, nel rispetto dei più elevati standard di sicurezza, in conformità alle normative europea EN 847-1/2 e tedesca BG-TEST, con soluzioni tecniche in linea con le raccomandazioni e le normative dell'Unione Europea in tema di sicurezza. La capacità propositiva e di qualificata consulenza, l'assistenza tecnica post-vendita e la puntualità di consegna, sono i precisi impegni di STARK nei confronti della Clientela. La sistematica ricerca, la sperimentazione, la flessibilità e l'efficienza consentono a STARK di soddisfare ogni esigenza del mercato in modo affidabile. In questo catalogo STARK presenta il proprio programma di produzione "standard" che riguarda gli utensili per la lavorazione del legno. L'ufficio tecnico di STARK resta a disposizione degli interessati per rispondere a qualsiasi richiesta o chiarimento.

The STARK group was set up in 1962. The headquarters -central office and factory- are located in Trivignano Udinese, a town at approximately 20 km to the south of Udine, in the region of Friuli Venezia Giulia (Italy). 1976 saw the construction of the new factory 'STARK GmbH' in Oberkochen in Baden-Württemberg. This new factory manages the distribution in Germany. The STARK production includes two types of product: wood working tools and metal cutting tools. The STARK Group is a market leader in its sector and is world-wide known through a well-established and widespread trade network. Its results made possible a systematic growth of the firm. Currently the STARK Group has a staff of approx. 200 people, including first rate managers and qualified technicians, who allow a perfect running of the business and the manufacturing of products regarded as innovative for their quality, safety and for the punctuality of the service offered to its large number of demanding customers. The STARK Group carries out a monitoring of the different stages of production, thus obtaining a dynamic improvement of the organisation, in order to constantly perfect the whole enterprise system. The tools for the processing of wood are designed to enable us to reliably satisfy all the specific requests of our customers, responding to the highest safety standards, in conformity to the European EN 847-1/2 and German BG-TEST regulations, and the technical solutions going hand in hand with the EC laws and recommendations for the safety of products. The STARK Group sees the capability of making proposals and giving professional advice, as well as technical assistance and punctual delivery, as priorities in its relations with the customers. Systematic research, testing, flexibility and efficiency enable STARK to satisfy reliably all the needs of the market. This STARK catalogue provides its 'standard' production programme, regarding the tools for the processing of wood. The technical office of STARK remains at everyone's disposal, glad to provide any sort of requested information or queries.

Die STARK-Firmengruppe wurde 1962 gegründet. Im italienischen Stammwerk werden heute ca. 200 Mitarbeiter beschäftigt. Die Produktionspalette umfaßt Holzbearbeitungswerkzeuge und Metallkreissägeblätter. Seit nunmehr 25 Jahren besteht die STARK-Filiale in Deutschland. Ein dynamisches Team von Technikern und Ingenieuren ist ständig bemüht, die aus der Praxis erwachsenden Erkenntnisse mit Hilfe modernster Verfahrenstechniken in optimale Werkzeuglösungen umzusetzen. Unsere Leistungsstärke wird ergänzt durch umfassende Kundenberatung in allen Werkzeugfragen und durch rasche EDV-gestützte Auftragsabwicklung. In unserem Fertigungs- und Servicecenter lagern wir vom kleinsten Ersatzteil bis hin zu kompletten Werkzeugsätzen für Bearbeitungsstraßen alles, um unsere Kunden schnell und umfassend bedienen zu können. STARK entwickelt und produziert seit Jahrzehnten Werkzeuge für die maschinelle Holzbearbeitung. Das weltweit eingesetzte Werkzeugprogramm umfaßt alle Arten von Maschinenwerkzeugen (zum Sägen, Hobeln, Fräsen, Bohren), sowohl als Standard-Lagerprogramm, als auch jegliche Sonderanfertigung auf Kundenwunsch. Langjährige Erfahrung und modernste Fertigungsmethoden sind unsere Grundlage für zukunftsorientierte Produkte, die den strengen Unfallverhütungsvorschriften in den verschiedenen Einsatzländern, z. B. der Deutschen Holz-Berufsgenossenschaft entsprechen.

STARK SPA

CONDIZIONI DI VENDITA

ORDINI

Si intendono accettati solo con l'emissione della nostra conferma e non potranno essere revocati, né integralmente, né parzialmente dal Committente.

CONSEGNE

I termini riportati in conferma sono indicativi e subordinati al normale rifornimento delle materie prime da parte dei Fornitori nonché salvo impedimenti di forza maggiore quali scioperi, serratte, calamità naturali e quant'altro. Il non rispetto dei termini da parte di STARK non dà diritto al Committente di revocare l'ordine.

PREZZI

I prezzi richiamati in conferma non sono impegnativi e potranno essere eventualmente modificati, nel caso si verificassero aumenti del costo del materiale, della manodopera, dell'energia etc., prima della consegna totale e/o parziale.

SPEDIZIONI

La merce si intende fornita franco nostro stabilimento o deposito e viaggia sempre ed esclusivamente a rischio del destinatario, indipendentemente dalle condizioni di addebito del trasporto (franco, franco con addebito in fattura, a carico, etc.)

IMBALLO

Viene sempre addebitato al costo.

UTILIZZO

Il materiale fornito da STARK dovrà essere sempre utilizzato con l'osservanza di tutte le norme legislative di prevenzione infortuni. Non potrà altresì essere manipolato e/o modificato senza la preventiva autorizzazione scritta da STARK.

RECLAMI - RESI

Eventuali contestazioni relative alla quantità ed alla qualità dei prodotti forniti, dovranno pervenire a STARK in forma scritta entro otto giorni dalla nota di ricevimento.

Non si accettano, per qualsiasi motivi, restituzioni non preventivamente autorizzate da STARK.

GARANZIA

I prodotti sono forniti da STARK con 12 (dodici) mesi di garanzia per vizi occulti.

Durante tale periodo, ad insindacabile giudizio STARK e per i comprovati casi di opportunità, si provvederà alla sostituzione dei particolari difettosi restando escluso ogni altro onere, a qualsiasi titolo.

PICCOLI ORDINI

Per le forniture di importo inferiore a € 250,00 netti, sarà addebitato l'importo fisso di € 25,00 netti a titolo di concorso per le maggiori spese di gestione.

PAGAMENTI

Dovranno pervenire, nei termini e nelle forme stabilite in conferma e fattura, alla sede STARK.

Non sono ammessi né arrotondamenti né trattenute a qualsiasi titolo.

La non ottemperanza da parte del Cliente darà diritto a STARK di sospendere eventuali nuove forniture, consentendole contemporaneamente di addebitare gli interessi passivi maturati ed ogni altro onere accessorio.

Il passaggio di proprietà dei prodotti forniti da STARK al Cliente avverrà al completo saldo della/e fattura/e di fornitura.

LEGGE E FORO COMPETENTE

Ogni rapporto tra STARK ed il Cliente s'intende regolato dalla Legge Italiana.

Per ogni controversia viene riconosciuta l'esclusiva competenza del Foro di Udine.

GENERAL SALE CONDITIONS

ORDERS

Orders are considered accepted only after our written confirmation and may neither be totally nor partially cancelled by the customer.

DELIVERY

The terms of delivery quoted in the confirmation are only indicative and is dependant on normal supply of raw materials on part of the suppliers, as well as to circumstances beyond our control, such as strikes, closures, natural calamities and other similar impediments. The non compliance with the terms by STARK does not give the right to the customer to cancel the order.

PRICES

The prices quoted in the confirmation of the order are not binding and may be altered in the case of changes in the costs of raw materials, of labour, energy etc., as long as they occurred before the total or partial delivery.

SHIPMENTS

The goods are supplied ex factory or ex warehouse and the transport is at the risk of the consignee, regardless of the terms of payment for the transport (free, charged in the invoice, at the customers expenses, etc.)

PACKAGING

Packaging will be charged as extra.

USAGE

When using the material supplied by STARK, all the safety rules and regulations for the prevention of accidents must be observed. The goods may not be modified nor manipulated without prior written authorisation of STARK.

COMPLAINTS

Any complaint that may arise concerning the quantity and the quality of the supplied goods, must be communicated to STARK in writing within eight days from note of receipt.

Goods sent back without prior authorisation will not be accepted under any circumstances.

GUARANTEE

The products supplied by STARK are under a twelve months guarantee for hidden defects.

During this period, provided defects of the kinds envisaged are confirmed by STARK, the replacement of faulty parts will be free of charge. STARK will not entertain claims for any other reason whatsoever and its decision will be irrevocable.

SMALL ORDERS

For orders worth less than € 250,00 net, an additional € 25,00 net will be charged as a contribution to costs.

PAYMENTS

Payments must reach the STARK headquarters according to the terms and conditions as stated in the confirmation document and invoice.

The prices may not be rounded down or reduced under any circumstances.

The non compliance of this on behalf of the customer will give STARK the right to stop any future deliveries and at the same time to charge all the due interests allowed as well as any additional expenses.

The passing of property of the products supplied by STARK to the customer will take place after complete settlement of the invoices and of the delivery.

LAW AND PLACE OF JURISDICTION

Dealings between STARK and the customer will be regulated by Italian Law.

The place of jurisdiction for any arising controversy is the Court of Udine.

STARK GmbH & CO.

VERKAUFS-, LIEFER- UND ZAHLUNGSBEDINGUNGEN

ALLGEMEINE GESCHÄFTSBEDINGUNGEN

Alle Angebote, Bestellungen, Auftragsbestätigungen, Aufträge und sonstige Vereinbarungen basieren auf unseren nachstehenden Verkaufsbedingungen. Mit der Bestellung werden unsere Verkaufs-, Lieferungs- und Zahlungsbedingungen vom Käufer anerkannt. Ebenso gilt eine Auftragsbestätigung, der nicht widersprochen wird, als anerkannt. Angebote sind grundsätzlich bis zu unserer Auftragsbestätigung freibleibend. Annullierungen von Aufträgen können nur mit unserer schriftlichen Zustimmung erfolgen. Für bereits in Bearbeitung befindliche Aufträge sind zumindest die bis zum Zeitpunkt unserer Zustimmung angefallenen Kosten vom Besteller zu erstatten. Für ab Lager angebotene Werkzeuge behalten wir uns das Zwischenverkaufsrecht vor. Eine Rücknahme von Werkzeugen kann nur nach Vereinbarung erfolgen, in Sonderanfertigung hergestellte Werkzeuge werden grundsätzlich nicht zurückgenommen.

Abbildungen, Zeichnungen und Muster sowie sonstige Unterlagen gehören uns. Sie genießen Urheberrecht und dürfen nicht zum Zwecke der Vervielfältigung, Nachahmung oder Weitergabe verwendet werden.

Wenn die Ausführung eines Auftrags wegen unvorhergesehener Ereignisse (nicht vorhersehbarer, fehlender Zulieferung, Streik etc.) unmöglich wird, sind wir berechtigt, vom Vertrag zurückzutreten.

LIEFERUNG

Liefertermine werden von uns mit der gebotenen Sorgfalt festgelegt und unter Zugrundelegung eines normalen Ablaufs der Fertigung genannt. Die Lieferzeit beginnt erst nach vollständiger Klärung aller Einzelheiten (spez. technischer), die mit dem Auftrag zusammenhängen. Angemessene Lieferzeitverzögerungen berechtigen den Käufer nicht zu Deckungskäufen, Schadenersatzansprüchen, Aufrechnung und Verzugschäden oder Rücktritt vom Kaufvertrag. Geschehnisse höherer Gewalt, z.B., Betriebsstörung, Streik, Aussperrung, Rohstoffmangel, nicht rechtzeitiges Liefern durch Vorlieferanten befreien uns für die Dauer der Störungen und im Umfang ihrer Auswirkungen von der Verpflichtung zur Lieferung. Diese Lieferungshindernisse sind auch nicht vom Lieferanten zu vertreten, wenn sie während eines bereits entstandenen Verzugs eintreten. Weitergehende Ansprüche auf Schadenersatz, insbesondere aus Verzug, sind ausgeschlossen.

Wenn nichts vereinbart wurde, sind auch Teillieferungen erlaubt, die als gesonderte Lieferungen abgerechnet werden. Die Versendung erfolgt auf Gefahr des Bestellers, d.h., die Gefahr der Qualitätsminderung oder der Verlust der Ware geht mit Verladung auf den Besteller über, auch wenn diese Verladung auf unsere Fahrzeuge erfolgt. Sendungen werden nur auf ausdrücklichen Wunsch des Bestellers versichert.

PREISE

Es gelten grundsätzlich die am Tag der Lieferung gültigen Preise. Preisangaben verstehen sich ab Werk Oberkochen zuzüglich der gesetzlichen Mehrwertsteuer am Auslieferungstag. Übersteigt der Rechnungswert einer Bestellung € 250,00 erfolgt die Lieferung frachtfrei deutscher Empfangsstation, frachtfrei deutscher Grenze bzw. deutschem Hafen bei Exportlieferungen, wobei wir uns die Wahl der preisgünstigsten Versandart vorbehalten. Verpackungskosten und Mehrkosten für besondere Vorschriften, Eilversand und Versicherung gehen zu Lasten des Bestellers. Bei Aufträgen unter € 75,00 Rechnungswert werden € 5,00 Bearbeitungsgebühr in Rechnung gestellt. Ebenso erfolgt eine gesonderte Rechnung für nachträgliche Sonderwünsche oder Änderungen, die bei Vertragsabschluss nicht bekannt waren.

ZAHLUNGSBEDINGUNGEN

Die Zahlung unserer Rechnungen hat entweder innerhalb 14 Tagen mit 2% Skonto oder innerhalb 30 Tagen netto ab Rechnungsdatum zu erfolgen. Schecks und Wechsel gelten erst

nach Einlösung als Zahlung, wobei für Wechselzahlung kein Skonto gewährt wird. Ebenso gehen Diskont- und Wechselspesen zu Lasten des Bestellers und sind sofort fällig. Bei Zahlungsverzug behalten wir uns vor, entstandene Kosten und bankübliche Zinsen zu berechnen. Die Zurückhaltung von Zahlungen oder die Aufrechnung strittiger Gegenansprüche seitens des Rechnungsempfängers sind nicht gestattet. Bei Reklamationen, die einen Teil der Lieferung betreffen, darf die Zahlung für den nichtbeanstandeten Teil nicht zurückgehalten werden. Kommt der Käufer seiner Zahlungspflicht nicht nach, so sind wir berechtigt, noch ausstehende Lieferungen zurückzuhalten, auch wenn diese auf einer anderweitigen Bestellung beruhen. Ebenso sind wir berechtigt, unsere Lieferung von einer Barzahlung abhängig zu machen, insbesondere dann, wenn uns nach Vertragsabschluss Umstände bekannt werden, die eine fristgemäße Zahlung gefährden. Bei vereinbarten Teilzahlungen sind wir berechtigt, diese zu widerrufen, falls eine zugesagte Rate länger als 1 Woche aussteht. Falls oben angeführte Differenzen auftreten, verlängert sich die vereinbarte Lieferfrist gemäß der Verzögerung.

GARANTIE

Wir garantieren die Lieferung einwandfreier Werkzeuge, sachgemäße Ausführung und einwandfreies Material sowie technische Funktion bei richtigem Einsatz. Beanstandungen sind innerhalb von 8 Tagen nach Erhalt der Ware unter genauer, schriftlicher Angabe des Mangels mitzuteilen. Die Werkzeuge sind erst nach ausdrücklicher Zustimmung durch uns kostenfrei einzusenden.

Mängel, die wir zu vertreten haben, werden für den Käufer kostenfrei nach unserer Wahl behoben. Wurde ein zu beseitigender Mangel vom Besteller verursacht, können wir diesem die Kosten für die Mangelbeseitigung in Rechnung stellen. Für Werkzeuge, die durch fehlerhafte Behandlung, ungeeignete oder unsachgemäße Handhabung, eigenmächtige Veränderung oder falsche Anwendung durch den Käufer oder Dritte unbrauchbar oder beschädigt worden sind, kann kein Ersatzanspruch geltend gemacht werden. Eine Haftung für Mängelfolgeschäden ist völlig ausgeschlossen. Ebenso behalten wir uns an den technischen Fortschritt angepaßte Konstruktionsveränderungen vor.

EIGENTUMSVORBEHALT

Sämtliche gelieferten Waren bleiben bis zur Bezahlung aller noch offenen Forderungen und bis zur Einlösung der in Zahlung gegebenen Schecks oder Wechsel unser Eigentum. Bei Lieferungen über den Fachhandel ist dieser verpflichtet, unseren Eigentumsvorbehalt sicherzustellen. Werden die Zahlungstermine nicht eingehalten, können wir nach Ankündigung und Fristsetzung einer angemessenen Zeitspanne die Waren zurückfordern.

Erfolgt keine Zahlung vom Käufer, kann die Rückforderung ohne Ankündigung und ohne Fristsetzung erfolgen. Bei einem Zahlungsrückstand ist der Käufer nicht mehr berechtigt, die Waren bestimmungsgemäß zu verwenden oder weiterzuverkaufen. Auch ist die Verpfändung oder Sicherungsübereignung zu unterlassen und der Lieferant hiervon unverzüglich in Kenntnis zu setzen. Wird die Ware weiterverkauft, ganz gleich, ob verarbeitet oder unverändert, tritt der Käufer hiermit bereits jetzt seine Forderung gegen den Erwerb in Höhe des Rechnungsbetrages an uns ab (verlängerter Eigentumsvorbehalt).

Wenn wir aufgrund des Eigentumsvorbehalts Ware zurücknehmen, geschieht dies auf Rechnung des Käufers bei Erteilung einer entsprechenden Gutschrift.

ERFÜLLUNGORT UND GERICHTSSTAND

Erfüllungsort für Lieferung und Zahlung ist 73447 Oberkochen bzw. 73479 Ellwangen. Diese Vereinbarung gilt auch für Scheck- und Wechselforderungen. Außerdem unterliegen die gesamten Rechtsbeziehungen ausschließlich deutschem Recht.

- Il simbolo ● sta ad indicare che l'articolo è disponibile a magazzino.
- I ricambi sono normalmente disponibili a magazzino.
- I ricambi sono sempre ed esclusivamente venduti in kit comprendenti le quantità indicate nelle tabelle.

- ● Marked sizes available ex stock.
- Spare parts are normally available ex stock.
- Spare parts are always sold in kit with the quantities indicated in the tables.

- ● Ab Werkslager, Kurzfristig 30 Bohrung, ab Lager Oberkochen
- Ersatzteile werden ausschließlich in Verpackungseinheiten (VE) angegeben. Die Größe der Verpackungseinheit entnehmen Sie den entsprechenden Tabellen.
- Ersatzteile sind normalerweise ab Lager verfügbar.

Mandrini portapinze
Pinze di precisione
Mandrini portafrese
Tiranti

Precision chucks
Spring collets
Tooling holder chucks
Terminal pins

Fräsdorne
Spannfutter
Spannzangen
Anzugsbolzen



1

Punte elicoidali in HW
Punte componibili
Punte per cerniere
Punte per mortasare

Solid HW routers
Dowel Drills
Hinge boring bits
Mortise drills

VHM Spiralschlichtfräser
Dübelbohrer
Beschlagbohrer
Langlochbohrer

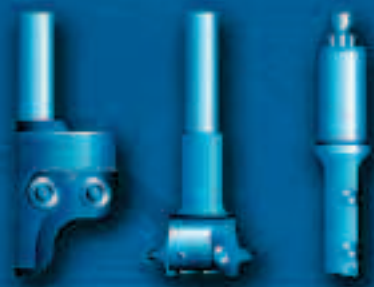


2

Punte a coltellino
dritte e sagomate

Straight and profiled
knife routers

Schaftwerkzeuge



3

Programma
antine
Programma
serramenti

Kitchen cabinet
programme
Windows frame
programme

Fenster- und
türenwerkzeuge



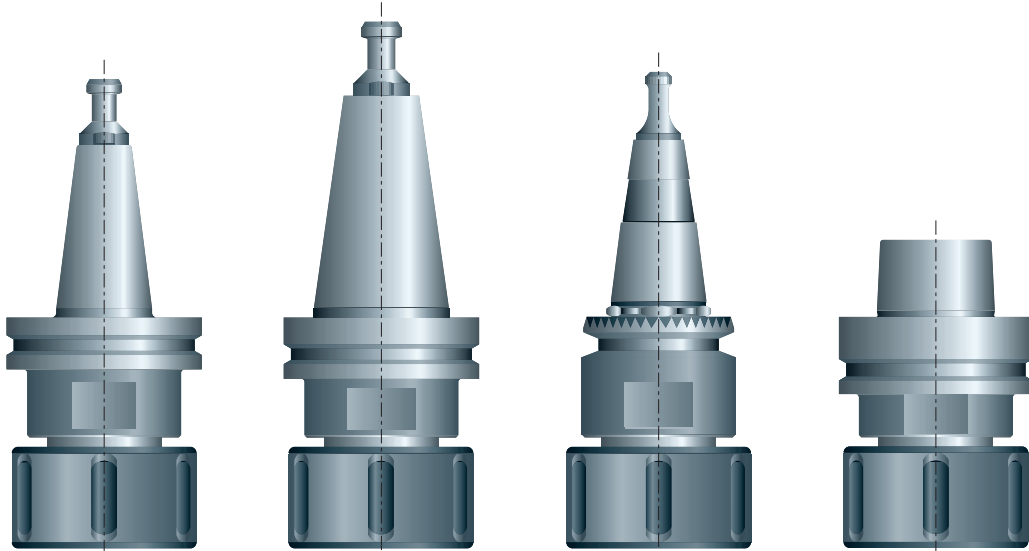
4



Mandrini portapinze
Pinze di precisione
Mandrini portafrese
Tiranti

Chucks
Spring collets
Tooling holder chucks
Terminal pins

Fräsdorne
Spannfutter
Spannzangen
Anzugsbolzen

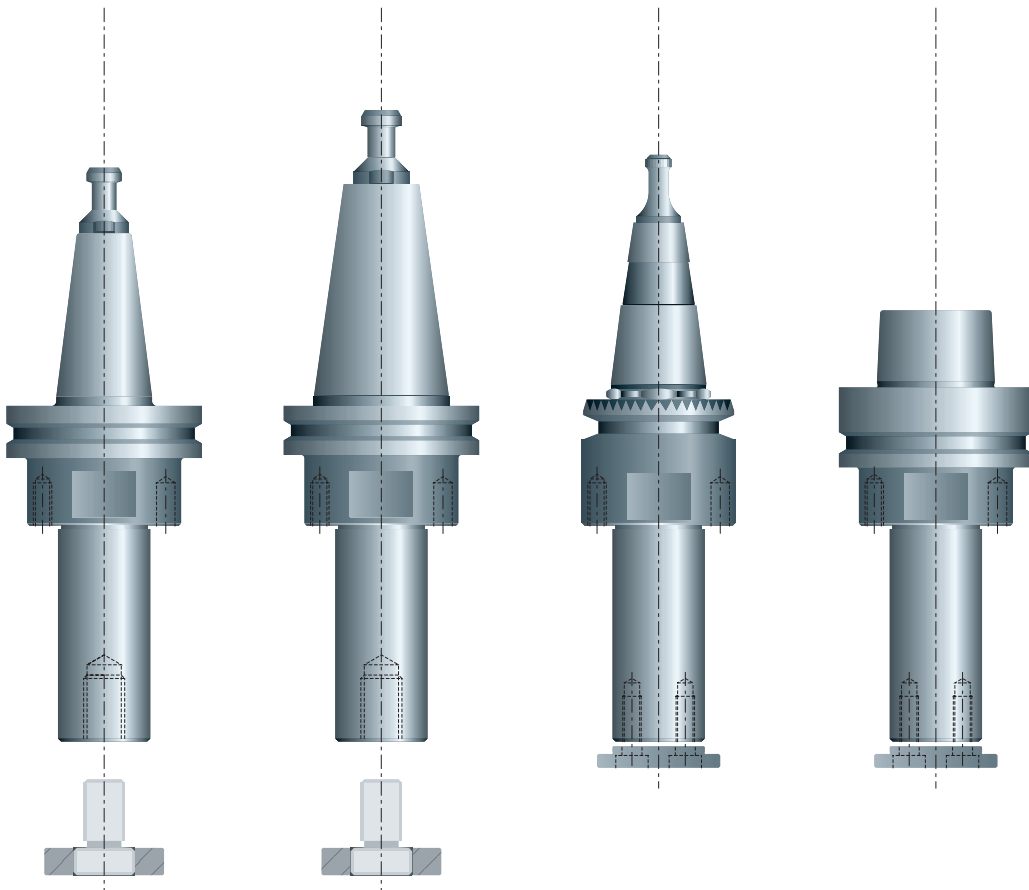


ISO 30

ISO 40

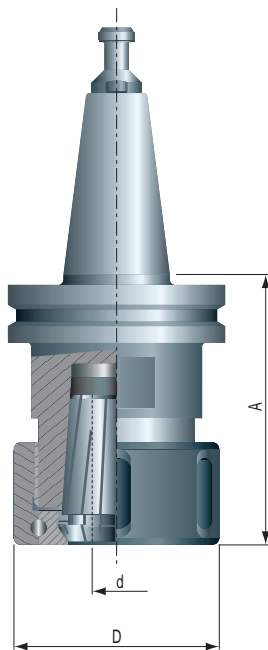
ISO 30
SCM/Morbidelli

HSK 63F



MN54

MANDRINI PORTAPINZA CON CONO ISO 30 DADO DI BLOCCAGGIO CON CUSCINETTO PRECISION CHUCKS ISO 30 WITH BALL-BEARING COLLET NUT SPANNZANGENFUTTER ISO 30 MIT KUGELGELAGERTER SPANNMUTTER



Esecuzione cono DIN 69871 per pinze a norme DIN 6388 A,B,E e DIN 6499 (senza incastri e incavi).

Corpo e ghiera perfettamente equilibrati.

La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Steep taper design according to DIN 69871 without grooves or notches and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Ball bearing collet nut for an increased clamping pressure and improved concentricity. Suitable for both right and left hand rotation.

Steilkegelgelauf hrung nach DIN 69871, ohne Nuten und Kerben f r Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Geh rtet und geschliffen, fein gewuchtet.

Die kugelgelagerte Spannmutter sorgt f r hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkonus des Futter.

Auch f r Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5401	ER32	3-20	63	50	
●MN5403	ER40	3-26	70	63	
●MN5405	OZ25	2-26	70	60	

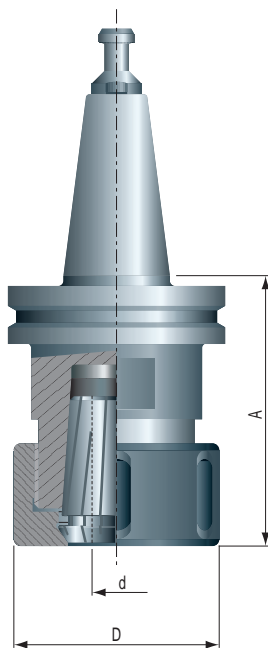
Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the ball-bearing collet nut and the terminal pin which are listed on page 25. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit kugelgelagerter Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.

MN51

MANDRINI PORTAPINZA CON CONO ISO 30 DADO DI BLOCCAGGIO SENZA CUSCINETTO PRECISION CHUCKS ISO 30 WITH COLLET NUT WITHOUT BALL-BEARING SPANNZANGENFUTTER ISO 30 OHNE KUGELGELAGERTE SPANNMUTTER



Esecuzione cono DIN 69871 per pinze a norme DIN 6388 A,B,E e DIN 6499 (senza incastri e incavi).

Corpo e ghiera perfettamente equilibrati.

Steep taper design according to DIN 69871 without grooves or notches and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Steilkegelgelauf hrung nach DIN 69871, ohne Nuten und Kerben f r Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Geh rtet und geschliffen, fein gewuchtet.

Auch f r Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5101	ER32	3-20	63	50	
●MN5103	ER40	3-26	70	63	

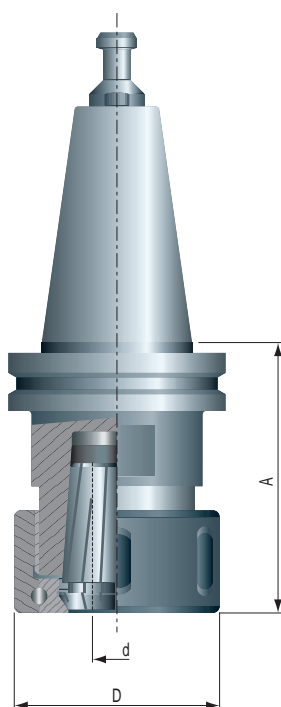
Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut and the terminal pin which are listed on page 23. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.

MANDRINI PORTAPINZA CON CONO ISO 40 DADO DI BLOCCAGGIO CON CUSCINETTO
 PRECISION CHUCKS ISO 40 WITH BALL-BEARING COLLET NUT
 SPANNZANGENFUTTER ISO 40 MIT KUGELGELAGERTE SPANNMUTTER

MN56



Esecuzione cono DIN 69871 per pinze a norme DIN 6388 A,B,E e DIN 6499 (senza incastri e incavi).
 Corpo e ghiera perfettamente equilibrati.
 La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Steep taper design according to DIN 69871 without grooves or notches and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.
 Tool body and collet nut perfectly balanced.
 Ball bearing collet nut for an increased clamping pressure and improved concentricity.
 Suitable for both right and left hand rotation.

Steilkegelaulsfrung nach DIN 69871, ohne Nuten und Kerben für Spannzangen nach DIN 6388 A,B,E und DIN 6499.
 Technische Daten: Gehrtet und geschliffen, fein gewuchtet.
 Die kugellagerte Spannmutter sorgt für hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkegel des Futter.
 Auch für Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5601	ER32	3-20	60	50	
●MN5603	ER40	3-26	70	63	
●MN5605	OZ25	2-26	70	60	

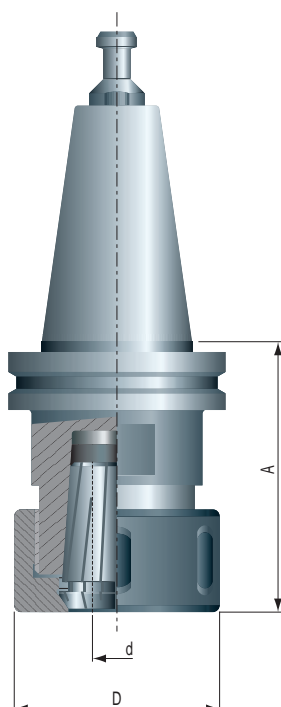
Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the ball-bearing collet nut and the terminal pin which are listed on page 25. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit kugellagerter Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.

MANDRINI PORTAPINZA CON CONO ISO 40 DADO DI BLOCCAGGIO SENZA CUSCINETTO
 PRECISION CHUCK ISO 40 WITH COLLET NUT WITHOUT BALL-BEARING
 SPANNZANGENFUTTER ISO 40 OHNE KUGELGELAGERTE SPANNMUTTER

MN52



Esecuzione cono DIN 69871 per pinze a norme DIN 6388 A,B,E e DIN 6499 (senza incastri e incavi).
 Corpo e ghiera perfettamente equilibrati.

Steep taper design according to DIN 69871 without grooves or notches and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.
 Tool body and collet nut perfectly balanced.

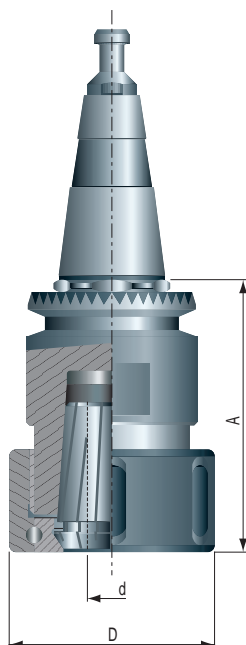
Steilkegelaulsfrung nach DIN 69871, ohne Nuten und Kerben für Spannzangen nach DIN 6388 A,B,E und DIN 6499.
 Technische Daten: Gehrtet und geschliffen, fein gewuchtet.
 Auch für Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5201	ER32	3-20	60	50	
●MN5203	ER40	3-26	70	63	

Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut and the terminal pin which are listed on page 25. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.



Esecuzione per pinze a norme DIN 6388 A,B,E e DIN 6499.
Corpo e ghiera perfettamente equilibrati.
La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.
Tool body and collet nut perfectly balanced.
Ball bearing collet nut for an increased clamping pressure and improved concentricity.
Suitable for both right and left hand rotation.

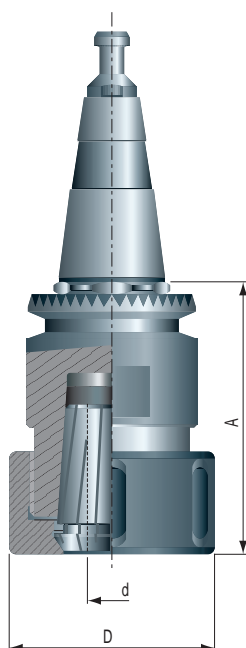
Steilkegelauf hrung mit Zahnkranz f r SCM/Morbidelli, Spannzangen nach DIN 6388 A,B,E und DIN 6499.
Technische Daten: Geh rtet und geschliffen, fein gewuchtet.
Die kugelgelagerte Spannmutter sorgt f r hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkonus des Futter.
Auch f r Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5011	ER32	3-20	55	50	
●MN5013	ER40	3-26	70	63	
●MN5015	OZ25	2-26	72	63	

Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the ball-bearing collet nut and the terminal pin which are listed on page 25. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit kugelgelagerter Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.



Esecuzione per pinze a norme DIN 6388 A,B,E e DIN 6499.
Corpo e ghiera perfettamente equilibrati.

Suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.
Tool body and collet nut perfectly balanced.

Steilkegelauf hrung mit Zahnkranz f r SCM/Morbidelli, Spannzangen nach DIN 6388 A,B,E und DIN 6499.
Technische Daten: Geh rtet und geschliffen, fein gewuchtet.
Auch f r Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5001	ER32	3-20	55	50	
●MN5005	OZ25	2-26	72	60	

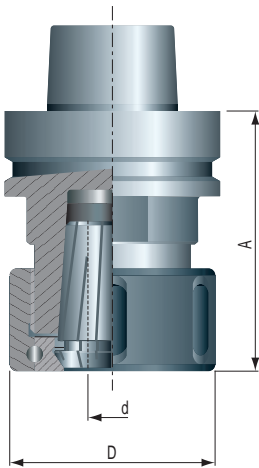
Il mandrino viene fornito completo di ghiera e tirante (vedi pagina 25). Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut and the terminal pin which are listed on page 25. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit Spannmutter und Anzugsbolzen je nach Maschinentype. Spannzangen siehe Seiten 18-19.

MANDRINI PORTAPINZA CON CONO HSK 63F DADO DI BLOCCAGGIO CON CUSCINETTO
 PRECISION CHUCKS HSK 63F WITH BALL-BEARING COLLET NUT
 SPANZANGENFUTTER HSK 63F MIT KUGELGELAGERTER SPANNMUTTER

MN53



Esecuzione cono V DIN 69893-6 Form F per pinze a norme DIN 6388 A,B,E e DIN 6499.

Corpo e ghiera perfettamente equilibrati.

La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Hollow taper shank according to V DIN 69893-6 Form F and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Ball bearing collet nut for an increased clamping pressure and improved concentricity.

Suitable for both right and left hand rotation.

Mit Hohlkegelschaft nach Norm V DIN 69893-6 Form F, passend für Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Gehärtet und geschliffen, fein gewuchtet.

Die kugellagerte Spannmutter sorgt für hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkegel des Futter.

Auch für Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5303	ER32	3-20	70	50	
●MN5301	ER40	3-26	76	63	
●MN5302	OZ25	2-26	76	60	

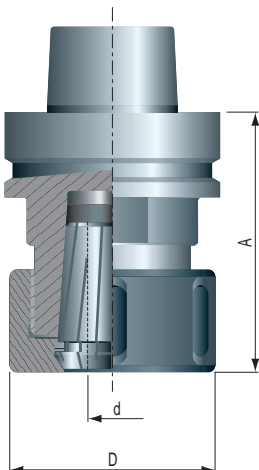
Il mandrino viene fornito completo di ghiera. Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the ball-bearing collet nut. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit kugellagierter Spannmutter. Spannzangen siehe Seiten 18-19.

MANDRINI PORTAPINZA CON CONO HSK 63F DADO DI BLOCCAGGIO SENZA CUSCINETTO
 PRECISION CHUCKS HSK 63F WITH COLLET NUT WITHOUT BALL-BEARING
 SPANZANGENFUTTER HSK 63F OHNE KUGELGELAGERTE SPANNMUTTER

MN53



Esecuzione cono V DIN 69893-6 Form F per pinze a norme DIN 6388 A,B,E e DIN 6499.

Corpo e ghiera perfettamente equilibrati.

Hollow taper shank according to V DIN 69893-6 Form F and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Mit Hohlkegelschaft nach Norm V DIN 69893-6 Form F, passend für Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Gehärtet und geschliffen, fein gewuchtet.

Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5310	ER32	3-20	70	50	
●MN5312	ER40	3-26	76	63	

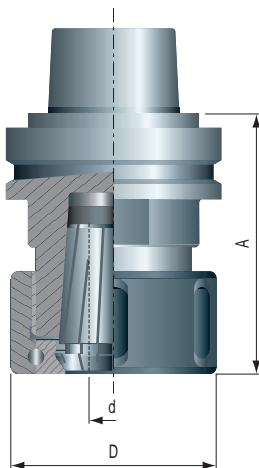
Il mandrino viene fornito completo di ghiera. Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit Spannmutter. Spannzangen siehe Seiten 18-19.

MN53

MANDRINI PORTAPINZA CON CONO HSK-E 40 DADO DI BLOCCAGGIO CON CUSCINETTO PRECISION CHUCKS HSK-E 40 WITH BALL-BEARING COLLET NUT SPANNZANGENFUTTER HSK-E 40 MIT KUGELGELAGERTER SPANNMUTTER



Esecuzione cono HSK-E 40 tipo Alberti-Polar per pinze a norme DIN 6388 A,B,E e DIN 6499.

Corpo e ghiera perfettamente equilibrati.

La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Hollow taper shank HSK-E 40 (Alberti-Polar) suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Ball bearing collet nut for an increased clamping pressure and improved concentricity.

Suitable for both right and left hand rotation.

Spannzangenfutter HSK-E 40 (Alberti-Polar) mit Hohlkegelschaft passend für Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Gehärtet und geschliffen, fein gewuchtet.

Die kugellagerte Spannmutter sorgt für hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkegel des Futter.

Auch für Linkslauf lieferbar.

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5305	ER32	2-20	60	50	
●MN5306	ER40	2-26	65	63	
●MN5307	OZ25	2-25	70	60	

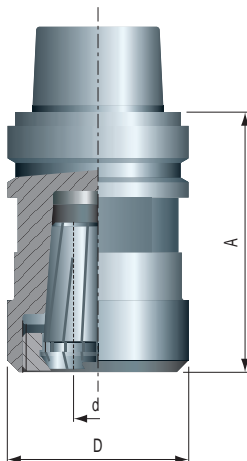
Il mandrino viene fornito completo di ghiera. Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the ball-bearing collet nut. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit kugellagerter Spannmutter. Spannzangen siehe Seiten 18-19.

MN57

MANDRINI PORTAPINZA PER ALTE VELOCITÀ CON CONO HSK-E 40 HIGH ROTATION SPEED CHUCKS HSK-E 40 WITH INNER COLLET NUT SPANNZANGENFUTTER HSK-E 40 OHNE KUGELGELAGERTE SPANNMUTTER



Esecuzione cono HSK-E 40 tipo Alberti-Polar per pinze a norme DIN 6388 A,B,E e DIN 6499.

Corpo e ghiera perfettamente equilibrati.

Utilizzo fino alla velocità di 30.000 g/min. con rotazione destra o sinistra.

Hollow taper shank HSK-E 40 (Alberti-Polar) suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Suitable for both right and left hand rotation up to 30.000 rpm.

Spannzangenfutter HSK-E 40 (Alberti-Polar) ohne kugellagerter Spannmutter passend für Spannzangen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Gehärtet und geschliffen, fein gewuchtet

Linkslauf lieferbar.

Für hohe Geschwindigkeiten 30.000 U/min. und mehr.

Extrem gute Rundlaufeigenschaften (max. 5 µ).

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5704	ER32	2-20	60	50	
●MN5705	OZ25	2-25	70	63	

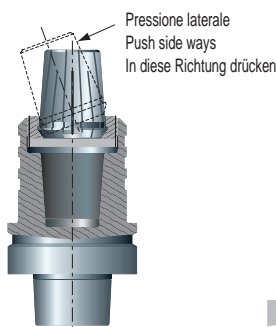
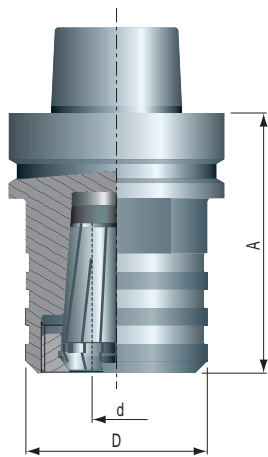
Il mandrino viene fornito completo di ghiera. Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut. For spring collets, please turn to pages 18-19.

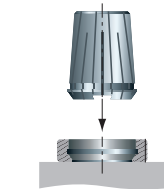
Lieferumfang: Ohne Spannzange, ohne Schlüssel, mit Spannmutter. Spannzangen siehe Seiten 18-19.

MANDRINI PORTAPINZA PER ALTE VELOCITÀ CON CONO HSK 63F
HIGH ROTATION SPEED CHUCKS HSK 63F
SPANNZANGENFUTTER HSK 63F MIT INNENLIEGENDER SPANNMUTTER

MN57



Sistema per sostituzione pinza
Spring collect changing system
Entfernen der Spannanzgen



Sistema di inserimento pinza
Spring collect connecting system
Einsetzen der Spannmutter

Esecuzione cono V DIN 69893-6 Form F per pinze a norme DIN 6388 A,B,E e DIN 6499.

Corpo e ghiera perfettamente equilibrati.

Utilizzo fino alla velocità di 30.000 g/min. con rotazione destra o sinistra.

Hollow taper shank according to V DIN 69893-6 Form F and suitable for spring collets manufactured according to DIN 6388 A,B,E and DIN 6499.

Tool body and collet nut perfectly balanced.

Suitable for both right and left hand rotation up to n. 30.000 rpm.

Mit Hohlkegelschaft nach Norm V DIN 69893-6 Form F, passend für Spannanzgen nach DIN 6388 A,B,E und DIN 6499.

Technische Daten: Gehrtet und geschliffen, fein gewuchtet.

Dreirichtung rechts und links.

Für hohe Geschwindigkeiten 30.000 U/min. und mehr.

Extrem gute Rundlaufeigenschaften (max. 5 u.).

Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
●MN5701	ER32	2-20	60	50	
●MN5702	ER40	2-26	65	63	
●MN5703	OZ25	2-25	75	60	

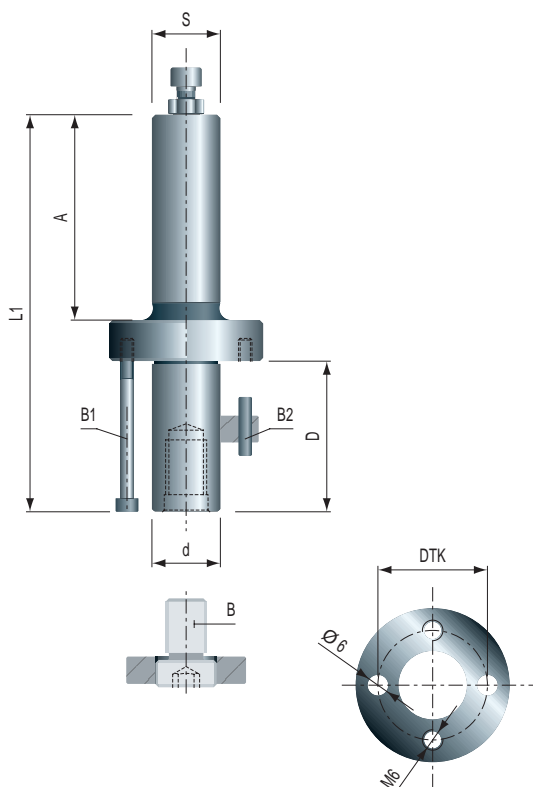
Il mandrino viene fornito completo di ghiera. Per le pinze elastiche vedi pagg. 18-19.

The chuck includes the collet nut. For spring collets, please turn to pages 18-19.

Lieferumfang: Ohne Spannanzge, ohne Schlüssel, mit Spannmutter. Spannanzgen siehe Seiten 18-19.

MANDRINO PORTAUTENSILI CON ATTACCO CILINDRICO
CYLINDRICAL CHUCK
FRÄSDORN MIT ZYLINDRISCHEM SCHAFT

MN02



Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Gehrtete Werkzeugaufnahme, feingewuchtet, je nach Werkzeugbauart gibt es zwei Möglichkeiten der Verdrehsicherung, mit zwei Schrauben (B1) oder durch Sicherungsringe (B2).

Art. Nr.	d (mm)	D (mm)	DTK (mm)	L1 (mm)	SxA (mm)	€
●MN02FC20C25	20	40	32	105	25x55	
●MN02FC21C25	20	55	32	120	25x55	
●MN02FC22C25	30	40	48	105	25x55	

Il mandrino viene fornito completo di tirante (vedi pagina 25), vite (B) e flangia di serraggio.

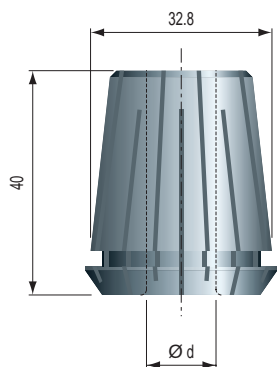
The chuck includes the terminal pin (please see page 25), screw (B) and blocking flange.

Im Lieferumfang enthalten ist die Einstellschraube und die Fräseranzugsschraube (B).

P284

DIN 6499

PINZE DI PRECISIONE SPRING COLLETS FOR PRECISION CHUCKS PRÄZISIONS – SPANNZANGEN

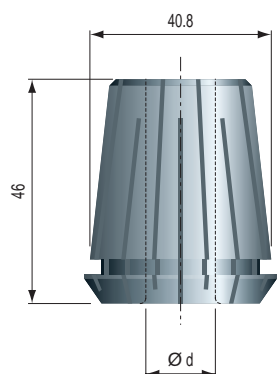


Type	Ø	d	Art. Nr.	€
470E / ER32	4	(4-3)	●P28404	
470E / ER32	6	(6-5)	●P28406	
470E / ER32	7	(7-6,35-6)	●P28407	
470E / ER32	8	(8-7)	●P28408	
470E / ER32	10	(10-9,52-9)	●P28410	
470E / ER32	12	(12-11)	●P28412	
470E / ER32	13	(13-12,7-12)	●P28413	
470E / ER32	14	(14-13)	●P28414	
470E / ER32	16	(16-15,88-15)	●P28416	
470E / ER32	18	(18-17)	●P28418	
470E / ER32	20	(20-19,05-19)	●P28420	

P285

DIN 6499

PINZE DI PRECISIONE SPRING COLLETS FOR PRECISION CHUCKS PRÄZISIONS – SPANNZANGEN

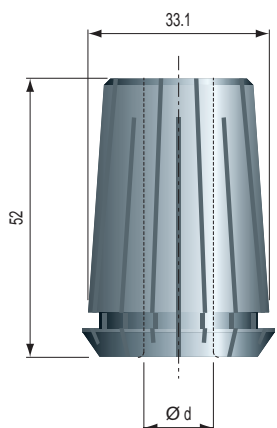


Type	Ø	d	Art. Nr.	€
472E / ER40	4	(4-3)	●P28504	
472E / ER40	6	(6-5)	●P28506	
472E / ER40	7	(7-6,35-6)	●P28507	
472E / ER40	8	(8-7)	●P28508	
472E / ER40	10	(10-9,52-9)	●P28510	
472E / ER40	12	(12-11)	●P28512	
472E / ER40	13	(13-12,7-12)	●P28513	
472E / ER40	14	(14-13)	●P28514	
472E / ER40	16	(16-15,88-15)	●P28516	
472E / ER40	18	(18-17)	●P28518	
472E / ER40	20	(20-19,05-19)	●P28520	
472E / ER40	25	(25-24)	●P28525	
472E / ER40	26	(26-25,4-25)	●P28526	

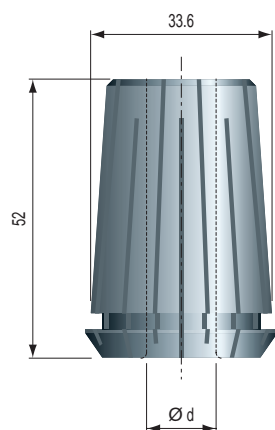
P283

DIN 6388

PINZE DI PRECISIONE SPRING COLLETS FOR PRECISION CHUCKS PRÄZISIONS – SPANNZANGEN



Type	Ø	d	Art. Nr.	€
444E / OZ25	2	(2-3)	●P28302	
444E / OZ25	4	(4-3)	●P28304	
444E / OZ25	6	(6-5)	●P28306	
444E / OZ25	7	(7-6,35-6)	●P28307	
444E / OZ25	8	(8-7)	●P28308	
444E / OZ25	10	(10-9,52-9)	●P28310	
444E / OZ25	12	(12-11)	●P28312	
444E / OZ25	13	(13-12,7-12)	●P28313	
444E / OZ25	14	(14-13)	●P28314	
444E / OZ25	16	(16-15,88-15)	●P28316	
444E / OZ25	18	(18-17)	●P28318	
444E / OZ25	20	(20-19,05-19)	●P28320	
444E / OZ25	25	(25-24)	●P28325	



Type	Ø	d	Art. Nr.	€
462E / OZ25	2	(2-3)	●P28602	
462E / OZ25	4	(4-3)	●P28604	
462E / OZ25	6	(6-5)	●P28606	
462E / OZ25	7	(7-6,35-6)	●P28607	
462E / OZ25	8	(8-7)	●P28608	
462E / OZ25	10	(10-9,52-9)	●P28610	
462E / OZ25	12	(12-11)	●P28612	
462E / OZ25	13	(13-12,7-12)	●P28613	
462E / OZ25	14	(14-13)	●P28614	
462E / OZ25	16	(16-15,88-15)	●P28616	
462E / OZ25	18	(18-17)	●P28618	
462E / OZ25	20	(20-19,05-19)	●P28620	
462E / OZ25	25	(25-24)	●P28625	

CHIAVI PER MANDRINI PORTAPINZE
 SERVICING KEYS FOR SPRING COLLET CHUCKS
 SCHLÜSSEL FÜR SPANNMUTTERN



Chiavi per ghiera DIN 6388 Keys for collect nuts DIN 6388 Hakenschlüssel für Spannmuttern DIN 6388	Art. Nr.	€
D = 50 (ER32)	400020	
D = 60/63 (ER40 / OZ25)	400021	



Chiavi per ghiera DIN 6499 Keys for collect nuts DIN 6499 Hakenschlüssel für Spannmuttern DIN 6499	Art. Nr.	€
D = 50 (ER32)	400022	
D = 63 (ER40)	400023	

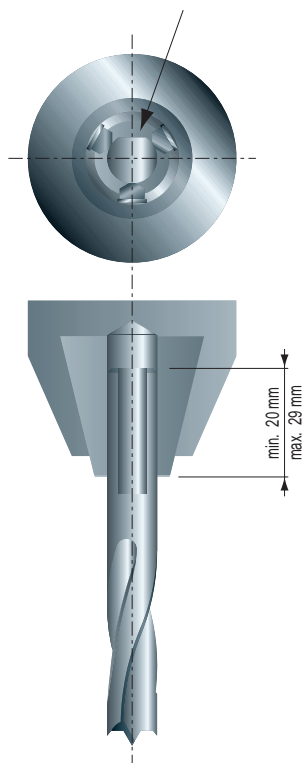
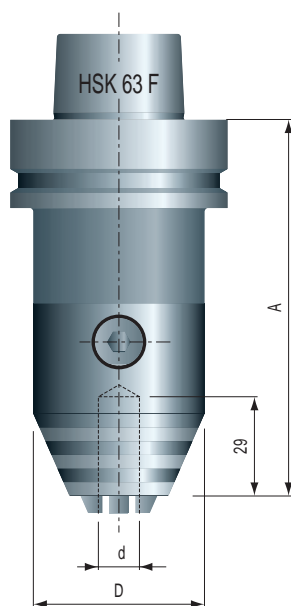
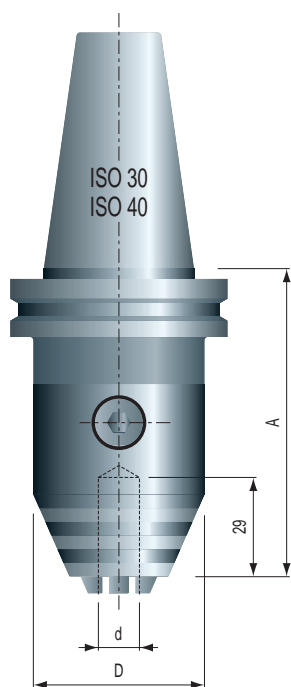


Per mandrini art. MN57 For chucks art. MN57 Für Spannmutter Art. MN57	Art. Nr.	€
ER32	400024	
ER40	400025	
OZ25	400026	

Adatto per rotazione destra e sinistra.

Suitable for both right and left rotation.

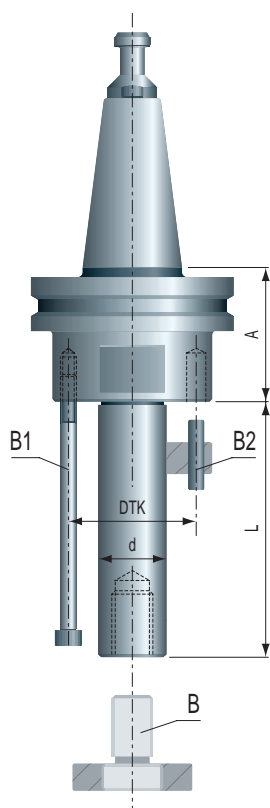
Auch für Linkslauf lieferbar.



Art. Nr.	Type	d (mm)	A (mm)	D (mm)	€
MN3501	ISO30	1-13	78	45	
WEEKE, MAKA, REICHENBACHER, BIESSE, SCM-MORBIDELLI, BUSELLATO					
MN3505	ISO40	1-13	78	45	
MAKA, REICHENBACHER, STEGHERR etc.					
MN3510	ISO40	3-16	87	45	
MAKA, REICHENBACHER, STEGHERR etc.					
MN3515	HSK 63F	1-13	115	45	
HOMAG, EIMA, WEEKE, IMA dal/from/ab 9/94 etc.					
MN3520	HSK 63F	3-16	124	50	
HOMAG, EIMA, WEEKE, IMA dal/from/ab 9/94, BIESSE, SCM-MORBIDELLI, BUSELLATO					

MANDRINI PORTAFRESE CON CONO ISO 30 (ALBERO 20 MM)
 TOOLING HOLDER CHUCK ISO 30 (ARBOR 20 MM)
 FRÄSDORN ISO 30 (SCHAFT 20 MM)

MN59



Esecuzione cono DIN 69871 (senza incastri e incavi).

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

Steep taper design according to DIN 69871 without grooves or notches.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Steilkegelaufhrung nach DIN 69871, ohne Nuten und Kerben.

Gehrtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsring (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5912	20	55	42	32	
●MN5913	20	70	42	32	
●MN5915	20	55	63	32	
●MN5916	20	70	63	32	

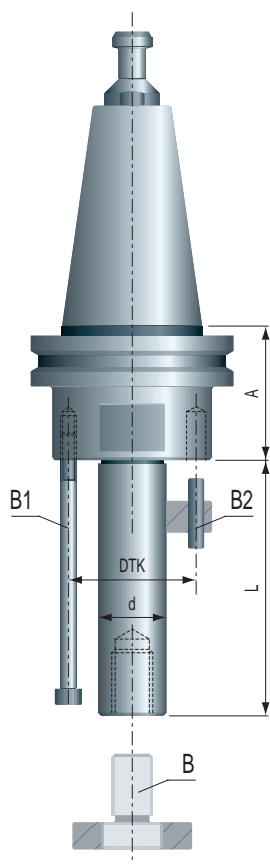
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B e B1) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MANDRINI PORTAFRESE CON CONO ISO 40 (ALBERO 20 MM)
 TOOLING HOLDER CHUCK ISO 40 (ARBOR 20 MM)
 FRÄSDORN ISO 40 (SCHAFT 20 MM)

MN61



Esecuzione cono DIN 69871 (senza incastri e incavi).

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

Steep taper design according to DIN 69871 without grooves or notches.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Steilkegelaufhrung nach DIN 69871, ohne Nuten und Kerben.

Gehrtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsring (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN6112	20	55	42	32	
●MN6113	20	70	42	32	
●MN6115	20	55	63	32	
●MN6116	20	70	63	32	

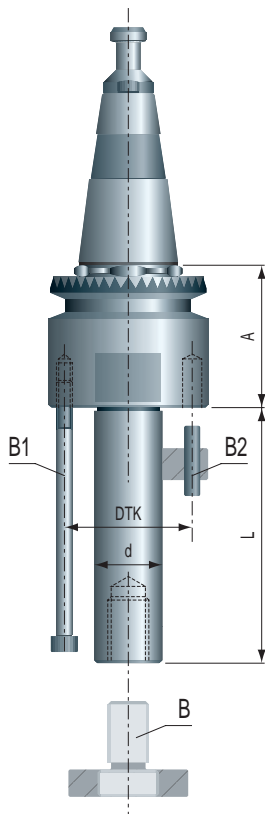
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B e B1) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MN55

MANDRINI PORTAFRESE CON CONO ISO 30 SCM/MORBIDELLI (ALBERO 20 MM) TOOLING HOLDER CHUCK ISO 30 SCM/MORBIDELLI (ARBOR 20 MM) FRÄSDORN ISO 30 FÜR SCM/MORBIDELLI (SCHAFT 20 MM)



Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Steilkegelaufhrung mit Zahnkranz, für SCM/Morbidelli.
Gehtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsringe (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5531	20	55	45	32	
●MN5532	20	70	45	32	

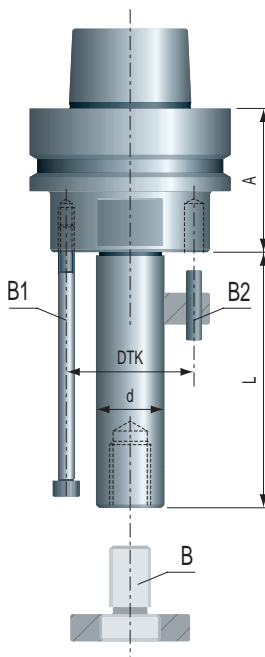
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B e B1) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MN58

MANDRINI PORTAFRESE CON CONO HSK 63F (ALBERO 20 MM) TOOLING HOLDER CHUCK HSK 63F (ARBOR 20 MM) FRÄSDORN HSK 63F (SCHAFT 20 MM)



Esecuzione con V DIN 69893-6 Form F

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

Hollow taper shank according to V DIN 69893-6 Form F.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Hohlkegelschaft nach DIN V 69893-6 Form F.

Gehtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsringe (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5811	20	55	80	32	
●MN5812	20	70	80	32	
●MN5813	20	70	45	32	

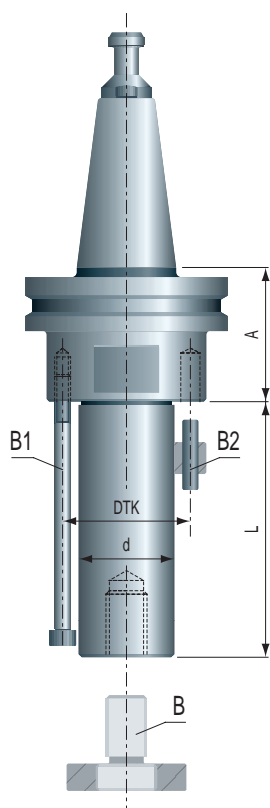
Il mandrino viene fornito completo di viti (B e B1) e flangia di serraggio.

The chuck includes screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MANDRINI PORTAFRESE CON CONO ISO 30 (ALBERO 30 MM)
 TOOLING HOLDER CHUCK ISO 30 (ARBOR 30 MM)
 FRÄSDORN ISO 30 (SCHAFT 30 MM)

MN59



Esecuzione cono DIN 69871 (senza incastri e incavi).

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

Steep taper design according to DIN 69871 without grooves or notches.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Steilkegelaulsfrung nach DIN 69871, ohne Nuten und Kerben.

Gehrtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsring (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5920	30	55	42	48	
●MN5921	30	80	42	48	
●MN5922	30	55	63	48	
●MN5923	30	80	63	48	

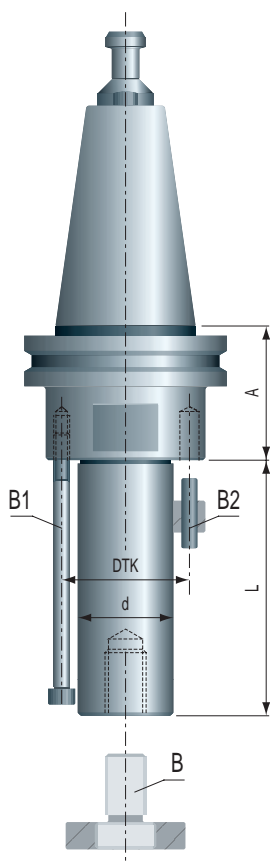
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B e B1) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MANDRINI PORTAFRESE CON CONO ISO 40 (ALBERO 30 MM)
 TOOLING HOLDER CHUCK ISO 40 (ARBOR 30 MM)
 FRÄSDORN ISO 40 (SCHAFT 30 MM)

MN61



Esecuzione cono DIN 69871 (senza incastri e incavi).

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2).

Steep taper design according to DIN 69871 without grooves or notches.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2).

Steilkegelaulsfrung nach DIN 69871, ohne Nuten und Kerben.

Gehrtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsring (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN6120	30	55	42	48	
●MN6121	30	80	42	48	
●MN6122	30	55	63	48	
●MN6123	30	80	63	48	

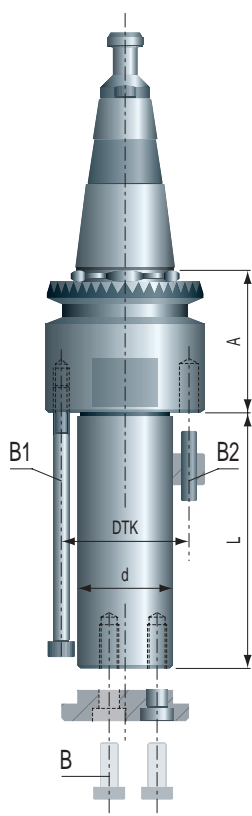
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B e B1) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B and B1) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Schrauben (B1) und Fräseranzugsschraube (B) mit Sicherungsring.

MN55

MANDRINI PORTAFRESE CON CONO ISO 30 SCM/MORBIDELLI (ALBERO 30 MM) TOOLING HOLDER CHUCK ISO 30 SCM/MORBIDELLI (ARBOR 30 MM) FRÄSDORN ISO 30 FÜR SCM/MORBIDELLI (SCHAFT 30 MM)



Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2). Il mandrino pu essere utilizzato con rotazione destra o sinistra.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2). Suitable for right and left hand rotation.

Steilkegelaufhrung mit Zahnkranz, f r SCM/Morbidelli.

Geh rtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsringe (B2).

Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5510	30	55	45	48	
●MN5511	30	80	45	48	

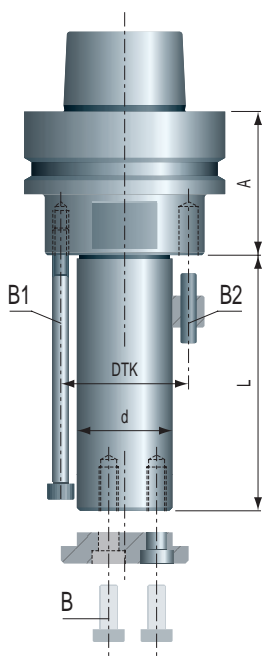
Il mandrino viene fornito completo di tirante (vedi pagina 25), viti (B) e flangia di serraggio.

The chuck includes the terminal pin (please see page 25), screws (B) and blocking flange.

Im Lieferumfang enthalten sind Anzugsbolzen, Fräseranzugsschrauben (B) mit Sicherungsring.

MN58

MANDRINI PORTAFRESE CON CONO HSK 63F (ALBERO 30 MM) TOOLING HOLDER CHUCK HSK 63F (ARBOR 30 MM) FRÄSDORN HSK 63F (SCHAFT 30 MM)



Esecuzione con V DIN 69893-6 Form F

Le frese montate sul mandrino vengono tenute in trascinamento usando due diverse soluzioni: con 2 viti (B1) oppure con anelli spinati (B2). Il mandrino pu essere utilizzato con rotazione destra o sinistra.

Hollow taper shank according to V DIN 69893-6 Form F.

All cutterheads mounted on the chuck are interlocking in two different ways: with 2 long screws (B1) or by means of spacing rings with pins (B2). Suitable for right and left hand rotation.

Hohlkegelschaft nach DIN V 69893-6 Form F.

Geh rtete Werkzeugaufnahme, feingewuchtet, Verdrehsicherung erfolgt entweder mit zwei Schrauben (B1) oder durch einen Sicherungsringe (B2). Auch f r Linkslauf lieferbar.

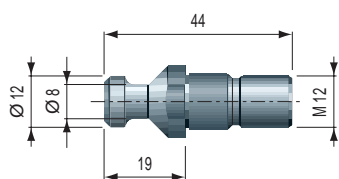
Art. Nr.	d (mm)	L (mm)	A (mm)	DTK (mm)	€
●MN5820	30	55	45	48	
●MN5821	30	80	45	48	
●MN5822	30	55	80	48	
●MN5823	30	80	80	48	

Il mandrino viene fornito completo di viti (B) e flangia di serraggio.

The chuck includes screws (B) and blocking flange.

Im Lieferumfang enthalten sind Fräseranzugsschrauben (B) mit Sicherungsring.

TIRANTI PER MANDRINI TERMINAL PINS FOR PRECISION CHUCKS ANZUGSBOLZEN



Art. Nr. MT0101

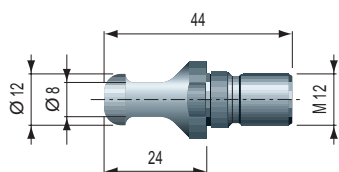
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen BIESSE precedenti anno/before year/ bis Bj. 09/1992



Art. Nr. MT0201

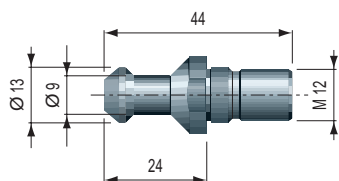
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen BIESSE successive anno/after year/ ab Bj. 09/1992



Art. Nr. MT0301

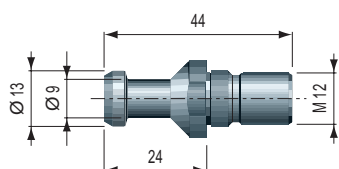
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen ALBERTI-MASTERWOOD



Art. Nr. MT0401

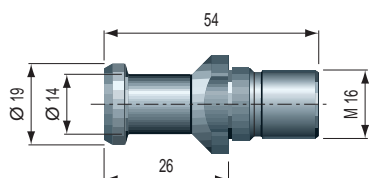
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen IMA-MAKA-REICHENBACHER-WEEKE-CMS-TRIMA



Art. Nr. MT0402

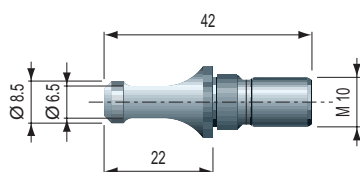
Per attacchi ISO 40

For chucks ISO 40

F r Stelkegelsch fte ISO 40

€

Macchine/Machines/Maschinen IMA-MAKA-REICHENBACHER-WEEKE-CMS-TRIMA



Art. Nr. MT0501

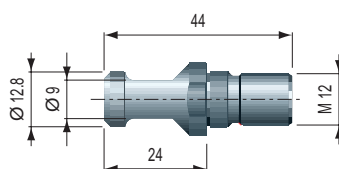
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen SCM-MORBIDELLI



Art. Nr. MT0601

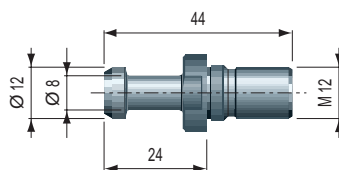
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen CMS



Art. Nr. MT0701

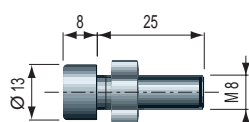
Per attacchi ISO 30

For chucks ISO 30

F r Stelkegelsch fte ISO 30

€

Macchine/Machines/Maschinen ESSETEAM



Art. Nr. MT1001

Per attacchi cilindrici

For cylindrical shanks

Einstellschraube — F r Fr sdom mit zyl. Schaft

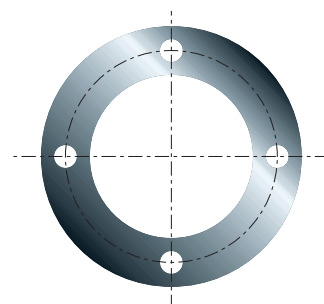
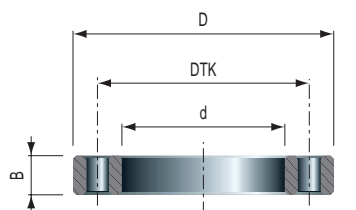
€

RICAMBISTICA PER MANDRINI SPARE PARTS FOR PRECISION CHUCKS ERSATZTEILE FÜR FRÄSDORNE

Anelli distanziali per mandrini art./Spacing rings for tooling holder chucks art./
Zwischenringe f r Fr sdone Art. MN02-MN55-MN58-MN59-MN61

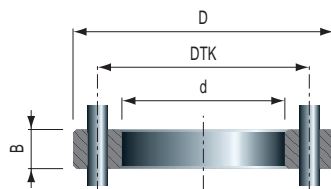
D (mm)	B (mm)	d (mm)	fori holes NL	DTK (mm)	Art. Nr.	€
45	0,1	20	4	32	134001	
45	0,2	20	4	32	134002	
45	0,5	20	4	32	134003	
45	1	20	4	32	134004	
45	2	20	4	32	134005	
45	5	20	4	32	134006	
45	6	20	4	32	134011	
45	7	20	4	32	134007	
45	10	20	4	32	134008	
45	15	20	4	32	134009	
45	20	20	4	32	134010	

D (mm)	B (mm)	d (mm)	fori holes NL	DTK (mm)	Art. Nr.	€
60	0,1	30	4	48	130020	
60	0,2	30	4	48	130021	
60	0,5	30	4	48	130022	
60	1	30	4	48	130023	
60	2	30	4	48	130024	
60	4	30	4	48	130025	
60	5	30	4	48	130026	
60	6	30	4	48	130027	
60	8	30	4	48	130028	
60	10	30	4	48	130029	
60	15	30	4	48	130030	
60	20	30	4	48	130031	
60	25	30	4	48	130032	
60	30	30	4	48	130033	



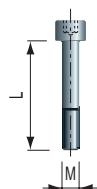
Anelli distanziali spinati per mandrini art./Spacing rings with pins for tooling
holder chucks art./Sicherungsringe f r Fr sdone Art. MN02-MN55-MN58-
MN59-MN61

D (mm)	B (mm)	d (mm)	fori holes NL	DTK (mm)	Art. Nr.	€
60	6	30	2+2	48	1000225	
60	10	30	2+2	48	1000226	
60	15	30	2+2	48	1000227	
60	30	30	2+2	48	1000228	

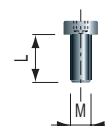


Viti per mandrini portafrese art. / Screws for tooling holder chucks art. /
Ersatzschrauben f r Fr sdone Art. MN02-MN55-MN58-MN59-MN61

Dim. (MxL)	Art. Nr.	€
M 6x60	501730	
M 6x75	501731	
M 6x85	501732	



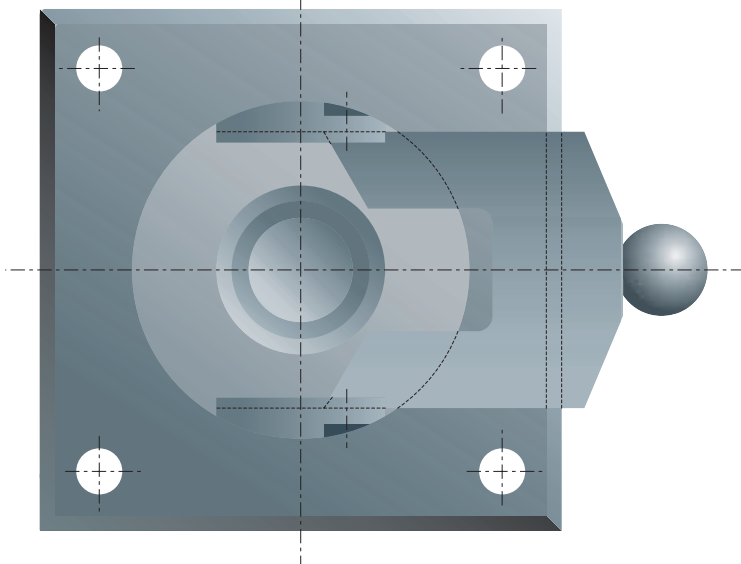
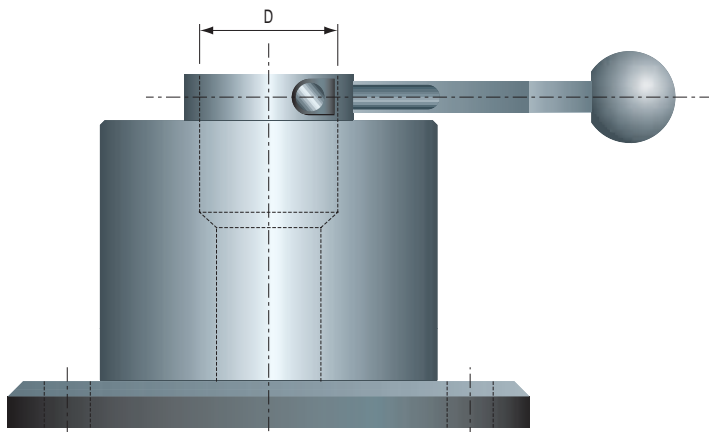
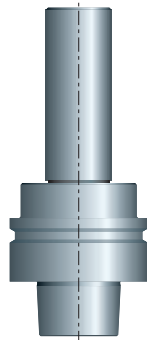
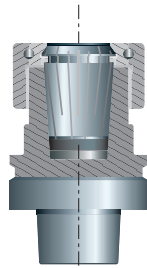
Dim. (MxL)	Art. Nr.	€
M 6x14	501727	
M 12x30	501728	



Dispositivo per il bloccaggio di mandrini portafrese e portapinze.

Device for safe assembling and disassembling of cutterheads mounted on tooling holder chucks.

Vorrichtung für die sichere Montage- und Demontage von Werkzeugen auf Frsdornen und in Spannfuttern.



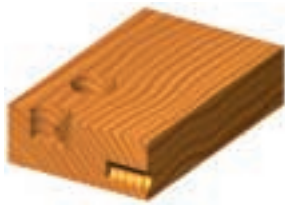
Art. Nr.	Type	D (mm)	€
DBMISO30	ISO 30	50	
DBMISO40	ISO 40	63,5	
DBMHSKF63	HSK 63F	63	



Punte elicoidali in HW
Punte componibili
Punte per cerniere
Punte per mortasare

Solid HW routers
Dowel Drills
Hinge boring bits
Mortise drills

VHM Spiralschlichtfräser
Dübelbohrer
Beschlagbohrer
Langlochbohrer



FORATURA NON PASSANTE (CIECA)
 POCKET HOLE DRILLING
 SACKLOCHBOHRUNG



FORATURA PASSANTE
 THROUGH-OUT DRILLING
 DURCHGANGSBOHRUNG



FORATURA A PIÙ DIAMETRI
 FORO CON SVASATURA CILINDRICA (A)
 FORO CON SVASATURA CONICA (B)
 RECESSED DRILLING
 WITH STEP (A)
 WITH COUNTERSINK (B)
 ABGESETZTE BOHRUNGEN
 MIT STUFE (A)
 MIT ANSENKUNG (B)



FRESATURA DI PERNI
 TENONING
 ZAPFENFRÄSER



FORATURA E FRESATURA
 BORING AND MOULDING
 ZUM BOHREN UND FRÄSEN



ESECUZIONE DI CAVE
 SLOT MORTISING
 LANGLOCHFRÄSEN



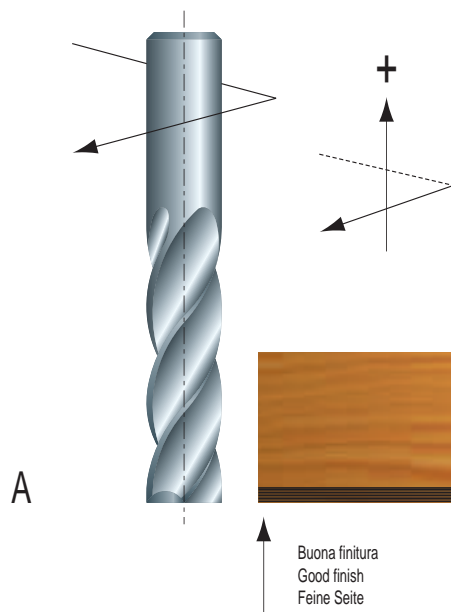
FORATURA E CONTORNATURA
 BORING AND MOULDING
 ZUM BOHREN UND FRÄSEN

ESEMPI DI IMPIEGO ROUTER APPLICATION TECHNISCHE ERLÄUTERUNGEN

Rotazione destra
Elica destra positiva

Right hand rotation
Right hand spiral
(Positive spiral)

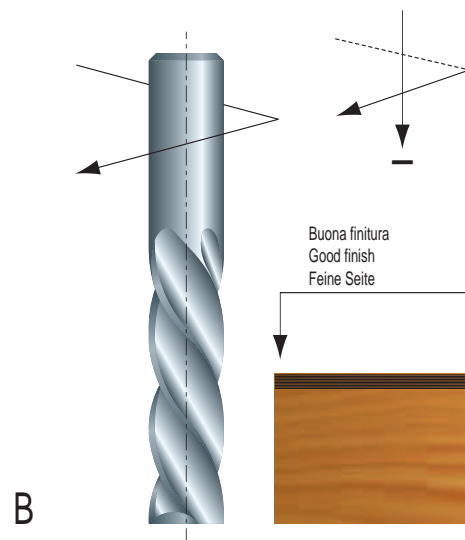
Rechtslauf
Rechtsdrall
(Positive Spirale)



Rotazione destra
Elica sinistra negativa

Right hand rotation
Left hand spiral
(Negative spiral)

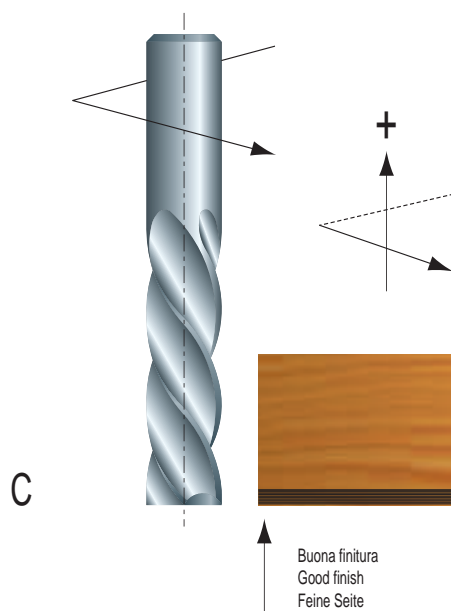
Rechtslauf
Linksdrall
(Negative Spirale)



Rotazione sinistra
Elica sinistra positiva

Left hand rotation
Left hand spiral
(Positive spiral)

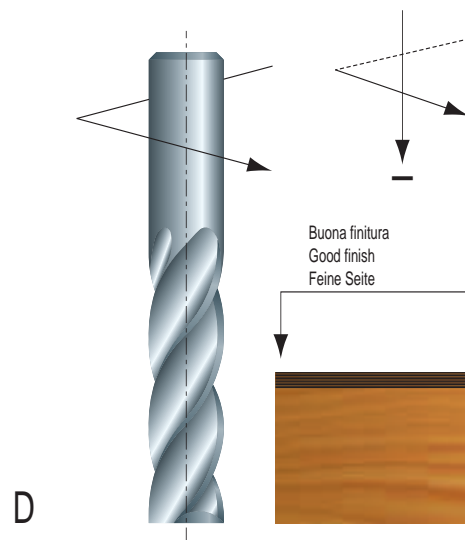
Linkslauf
Linksdrall
(Positive Spirale)



Rotazione sinistra
Elica destra negativa

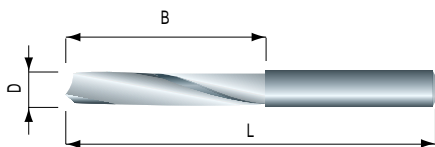
Left hand rotation
Right hand spiral
(Negative spiral)

Linkslauf
Rechtsdrall
(Negative Spirale)



PUNTE ELICOIDALI IN HW INTEGRALE - ELICA DESTRA - ESECUZIONE A
 SOLID HW ROUTERS WITH RIGHT HAND SPIRAL - EXECUTION A
 VHM SPIRALSCHLICHTFRÄSER MIT RECHTSDRALL - AUSFÜHRUNG A

P174
 HW Z=1



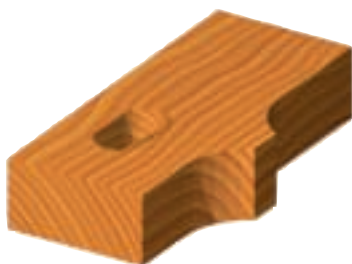
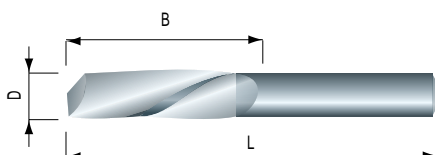
Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P174RM0412	4	12	50	
P174RM0517	5	17	50	
P174RM0617	6	17	60	
P174RM0627	6	27	60	
P174RM0822	8	22	70	
P174RM0832	8	32	70	
P174RM1032	10	32	80	
P174RM1242	12	42	100	
P174RM1252	12	52	100	

Impiego lavori di foratura e contornatura
Use for boring and moulding
Anwendung zum Bohren und Fräsen

Attenzione Rotazione destra = espulsione del truciolo verso l'alto (Positiva)
 Rotazione sinistra (C) a richiesta
Attention Right hand rotation = upward chip ejection (Positive)
 Left hand rotation (C) available on request
Achtung Rechtsdrall = Spanauswurf nach oben (Positive)
 Linkslauf (C) auf Anfrage

PUNTE ELICOIDALI IN HW INTEGRALE - ELICA SINISTRA - ESECUZIONE B
 SOLID HW ROUTERS WITH LEFT HAND SPIRAL - EXECUTION B
 VHM SPIRALSCHLICHTFRÄSER MIT LINKSDRALL - AUSFÜHRUNG B

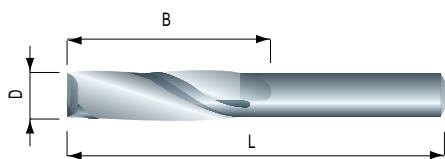
P177
 HW Z=1



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P177RM0415	4	12	50	
P177RM0517	5	17	50	
P177RM0617	6	17	60	
P177RM0627	6	27	60	
P177RM0822	8	22	70	
P177RM0832	8	32	70	
P177RM1032	10	32	80	
P177RM1242	12	42	100	
P177RM1252	12	52	100	

Impiego lavori di foratura e contornatura
Use for boring and moulding operations
Anwendung zum Bohren und Fräsen

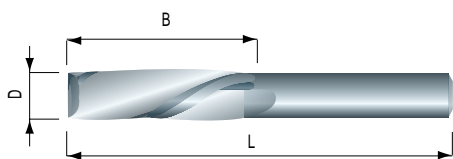
Attenzione Rotazione destra = espulsione del truciolo verso il basso (Negativa)
 Rotazione sinistra (D) a richiesta
Attention Right hand rotation = downward chip ejection (Negative)
 Left hand rotation (D) available on request
Achtung Rechtsdrall = Spanauswurf nach unten (Negative)
 Linkslauf (D) auf Anfrage



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P175RM0617	6	17	60	
P175RM0627	6	27	60	
P175RM0822	8	22	70	
P175RM0832	8	32	70	
P175RM1042	10	42	100	
P175RM1052	10	52	100	
P175RM1242	12	42	100	
P175RM1252	12	52	100	
P175RM1442	14	42	100	
P175RM1452	14	52	100	
P175RM1642	16	42	100	
P175RM1652	16	52	100	
P175RM1852	18	52	100	
P175RM2052	20	52	100	
P175RM2072	20	72	120	
P175RM2080	20	80	140	

Impiego lavori di foratura e contornatura con alto grado di finitura
Use for boring and moulding operations with high quality finish
Anwendung zum Bohren und Fräsen mit ausgezeichneter Schnittqualität

Attenzione Rotazione destra = espulsione del truciolo verso l'alto (Positiva)
Rotazione sinistra (C) a richiesta
Attention Right hand rotation = upward chip ejection (Positive)
Left hand rotation (C) available on request
Achtung Rechtsdrall = Spanauswurf nach oben (Positive)
Linkslauf (C) auf Anfrage



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P178RM0617	6	17	60	
P178RM0627	6	27	60	
P178RM0822	8	22	70	
P178RM0832	8	32	70	
P178RM1032	10	32	80	
P178RM1052	10	52	100	
P178RM1242	12	42	100	
P178RM1252	12	52	100	
P178RM1442	14	42	100	
P178RM1452	14	52	100	
P178RM1642	16	42	100	
P178RM1652	16	52	100	
P178RM1852	18	52	100	
P178RM2052	20	52	100	
P178RM2072	20	72	120	
P178RM2080	20	80	140	

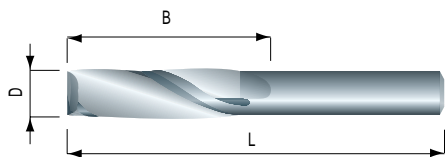
Impiego lavori di foratura e contornatura con alto grado di finitura
Use for boring and moulding operations with high quality finish
Anwendung zum Bohren und Fräsen mit ausgezeichneter Schnittqualität

Attenzione Rotazione destra = espulsione del truciolo verso il basso (Negativa)
 Rotazione sinistra (D) a richiesta
Attention Right hand rotation = downward chip ejection (Negative)
 Left hand rotation (D) available on request
Achtung Rechtsdrall = Spanauswurf nach unten (Negative)
 Linkslauf (D) auf Anfrage

P176

HW Z=3

PUNTE ELICOIDALI IN HW INTEGRALE - ELICA DESTRA - ESECUZIONE A
SOLID HW ROUTERS WITH RIGHT HAND SPIRAL - EXECUTION A
VHM SPIRALSCHLICHTFRÄSER MIT RECHTSDRALL - AUSFÜHRUNG A



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P176RM1242	12	42	100	
P176RM1252	12	52	100	
P176RM1442	14	42	100	
P176RM1452	14	52	100	
P176RM1642	16	42	100	
P176RM1652	16	52	100	
P176RM1672	16	72	120	
P176RM1852	18	52	100	
P176RM1872	18	72	120	
P176RM2052	20	52	100	
P176RM2072	20	72	120	

Impiego lavori di foratura e contornatura con alto grado di finitura
Use for boring and moulding operations with high quality finish
Anwendung zum Bohren und Fräsen mit ausgezeichneter Schnittqualität

Attenzione Rotazione destra = espulsione del truciolo verso l'alto (Positiva)
 Rotazione sinistra (C) a richiesta

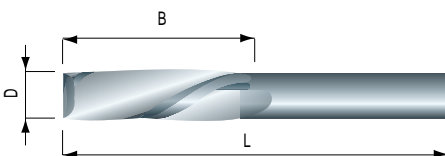
Attention Right hand rotation = upward chip ejection (Positive)
 Left hand rotation (C) available on request

Achtung Rechtsdrall = Spanauswurf nach oben (Positive)
 Linkslauf (C) auf Anfrage

P179

HW Z=3

PUNTE ELICOIDALI IN HW INTEGRALE - ELICA SINISTRA - ESECUZIONE B
SOLID HW ROUTERS WITH LEFT HAND SPIRAL - EXECUTION B
VHM SPIRALSCHLICHTFRÄSER MIT LINKSDRALL - AUSFÜHRUNG B



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P179RM1242	12	42	100	
P179RM1252	12	52	100	
P179RM1442	14	42	100	
P179RM1452	14	52	100	
P179RM1642	16	42	100	
P179RM1652	16	52	100	
P179RM1852	18	52	100	
P179RM1872	18	72	120	
P179RM2052	20	52	100	
P179RM2072	20	72	120	
P179RM2080	20	80	140	

Impiego lavori di foratura e contornatura con alto grado di finitura
Use for boring and moulding operations with high quality finish
Anwendung zum Bohren und Fräsen mit ausgezeichneter Schnittqualität

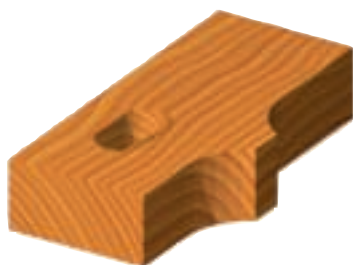
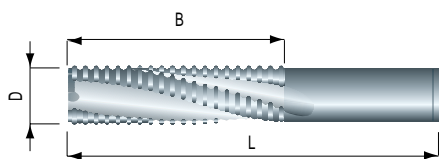
Attenzione Rotazione destra = espulsione del truciolo verso il basso (Negativa)
 Rotazione sinistra (D) a richiesta

Attention Right hand rotation = downward chip ejection (Negative)
 Left hand rotation (D) available on request

Achtung Rechtsdrall = Spanauswurf nach unten (Negative)
 Linkslauf (D) auf Anfrage

PUNTE ELICOIDALI IN HW INTEGRALE CON ROMPITRUCIOLO - ELICA DESTRA - ESECUZIONE A
 SOLID HW ROUTERS WITH CHIPBREAKER AND RIGHT HAND SPIRAL - EXECUTION A
 VHM SPIRALSCHRUPPFÄRER MIT RECHTSDRALL - AUSFÜHRUNG A

P276
 HW Z=3



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P276RM1242	12	42	100	
P276RM1252	12	52	100	
P276RM1442	14	42	100	
P276RM1452	14	52	100	
P276RM1642	16	42	100	
P276RM1652	16	52	100	
P276RM1852	18	52	100	
P276RM1872	18	72	120	
P276RM2052	20	52	100	
P276RM2072	20	72	120	
P276RM2080	20	80	140	

Impiego lavori di foratura e contornatura su materiali particolarmente tenaci
Use for boring and moulding operations on hard materials
Anwendung zum Bohren und Fräsen

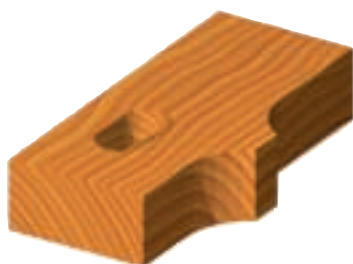
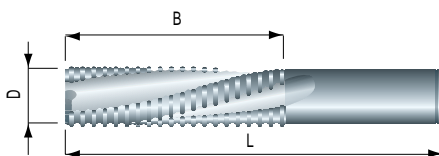
Attenzione Rotazione destra = espulsione del truciolo verso l'alto (Positiva)
 Rotazione sinistra (C) a richiesta

Attention Right hand rotation = upward chip ejection (Positive)
 Left hand rotation (C) available on request

Achtung Rechtsdrall = Spanauswurf nach oben (Positive)
 Linkslauf (C) auf Anfrage

PUNTE ELICOIDALI IN HW INTEGRALE CON ROMPITRUCIOLO - ELICA SINISTRA - ESECUZIONE B
 SOLID HW ROUTERS WITH CHIPBREAKER AND LEFT HAND SPIRAL - EXECUTION B
 VHM SPIRALSCHRUPPFÄRER MIT LINKSDRALL - AUSFÜHRUNG B

P279
 HW Z=3



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	€
P279RM1242	12	42	100	
P279RM1252	12	52	100	
P279RM1442	14	42	100	
P279RM1452	14	52	100	
P279RM1642	16	42	100	
P279RM1652	16	52	100	
P279RM1852	18	52	100	
P279RM1872	18	72	120	
P279RM2052	20	52	100	
P279RM2072	20	72	120	
P279RM2080	20	80	140	

Impiego lavori di foratura e contornatura su materiali particolarmente tenaci
Use for boring and moulding operations on hard materials
Anwendung zum Bohren und Fräsen

Attenzione Rotazione destra = espulsione del truciolo verso il basso (Negativa)
 Rotazione sinistra (D) a richiesta

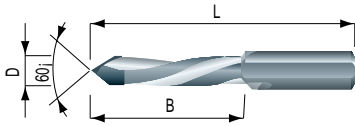
Attention Right hand rotation = downward chip ejection (Negative)
 Left hand rotation (D) available on request

Achtung Rechtsdrall = Spanauswurf nach unten (Negative)
 Linkslauf (D) auf Anfrage

P150

HW

PUNTE COMPONENTI PER FORI PASSANTI DOWEL DRILLS FOR THROUGH-OUT DRILLING DÜBELBOHRER FÜR DURCHGANGSBOHRUNGEN



Attacco • Chuck • Schaft

Ø 8x20



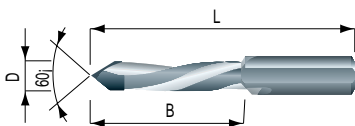
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	B (mm)	L (mm)	€
P150RM0530	P150LM0530	5	30	55,5	
P150RM0830	P150LM0830	8	30	55,5	
P150RM0540	P150LM0540	5	40	67	
P150RM0840	P150LM0840	8	40	67	

Impiego su foratrici, utilizzabili con art. P161
Use on boring machines, use with item P161
Anwendung auf Bohrmaschinen, verwenden mit Art. P161

P151

HW

PUNTE COMPONENTI PER FORI PASSANTI DOWEL DRILLS FOR THROUGH-OUT DRILLING DÜBELBOHRER FÜR DURCHGANGSBOHRUNGEN



Attacco • Chuck • Schaft

Ø 10x24

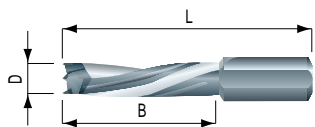


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	B (mm)	L (mm)	€
P151RM0527	P151LM0527	5	27	57,5	
P151RM0627	P151LM0627	6	27	57,5	
P151RM0827	P151LM0827	8	27	57,5	
P151RM1027	P151LM1027	10	27	57,5	
P151RM0535	P151LM0535	5	35	70	
P151RM0635	P151LM0635	6	35	70	
P151RM0835	P151LM0835	8	35	70	
P151RM1035	P151LM1035	10	35	70	

Impiego su foratrici, utilizzabili con art. P162
Use on boring machines, use with item P162
Anwendung auf Bohrmaschinen, verwenden mit Art. P162

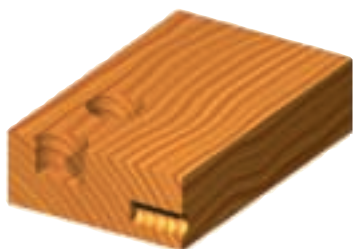
PUNTE COMPONENTI PER FORI CIECHI A 4 ELICHE
DOWEL DRILLS FOR BLIND DRILLING WITH 4 SPIRALS
DÜBELBOHRER FÜR SACKLOCHBOHRUNGEN MIT RÜCKENFÜHRUNG

P152
HW



Attacco • Chuck • Schaft

Ø 10x20

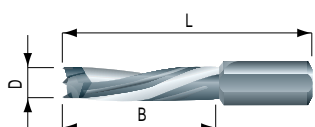


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	B (mm)	L (mm)	€
P152RM0430	P152LM0430	4	30	57,5	
P152RM0530	P152LM0530	5	30	57,5	
P152RM0630	P152LM0630	6	30	57,5	
P152RM0730	P152LM0730	7	30	57,5	
P152RM0830	P152LM0830	8	30	57,5	
P152RM0930	P152LM0930	9	30	57,5	
P152RM1030	P152LM1030	10	30	57,5	
P152RM1230	P152LM1230	12	30	57,5	
P152RM1630	P152LM1630	16	30	57,5	
P152RM0443	P152LM0443	4	43	70	
P152RM0543	P152LM0543	5	43	70	
P152RM0643	P152LM0643	6	43	70	
P152RM0743	P152LM0743	7	43	70	
P152RM0843	P152LM0843	8	43	70	
P152RM0943	P152LM0943	9	43	70	
P152RM1043	P152LM1043	10	43	70	
P152RM1243	P152LM1243	12	43	70	
P152RM1643	P152LM1643	16	43	70	

Impiego su foratrici, utilizzabili con art. P161
Use on boring machines, use with item P161
Anwendung auf Bohrmaschinen, verwenden mit Art. P161

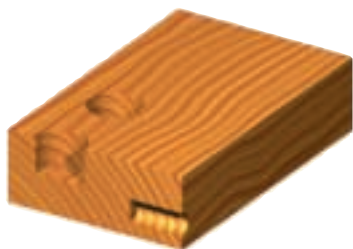
PUNTE COMPONENTI PER FORI CIECHI CON 4 ELICHE
DOWEL DRILLS FOR BLIND DRILLING WITH 4 SPIRALS
DÜBELBOHRER FÜR SACKLOCHBOHRUNGEN MIT RÜCKENFÜHRUNG

P153
HW



Attacco • Chuck • Schaft

Ø 8x20



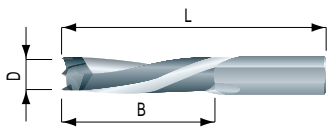
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	B (mm)	L (mm)	€
P153RM0530	P153LM0530	5	30	55,5	
P153RM0630	P153LM0630	6	30	55,5	
P153RM0830	P153LM0830	8	30	55,5	
P153RM1030	P153LM1030	10	30	55,5	
P153RM1230	P153LM1230	12	30	55,5	
P153RM0540	P153LM0540	5	40	67	
P153RM0640	P153LM0640	6	40	67	
P153RM0840	P153LM0840	8	40	67	
P153RM1040	P153LM1040	10	40	67	
P153RM1240	P153LM1240	12	40	67	

Impiego su foratrici, utilizzabili con art. P161
Use on boring machines, use with item P161
Anwendung auf Bohrmaschinen, verwenden mit Art. P161

P154

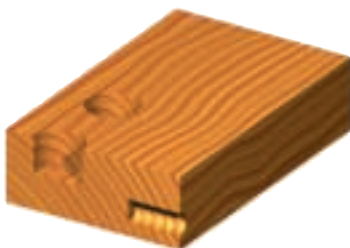
HW

PUNTE COMPONENTI PER FORI CIECHI DOWEL DRILLS FOR BLIND DRILLING DÜBELBOHRER FÜR SACKLOCHBOHRUNGEN



Attacco • Chuck • Schaft

Ø 10x27 L = 57,5
Ø 10x30 L = 70/77



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	B (mm)	L (mm)	€
P154RM0427	P154LM0427	4	27	57,5	
P154RM0527	P154LM0527	5	27	57,5	
P154RM0627	P154LM0627	6	27	57,5	
P154RM0727	P154LM0727	7	27	57,5	
P154RM0827	P154LM0827	8	27	57,5	
P154RM0927	P154LM0927	9	27	57,5	
P154RM1027	P154LM1027	10	27	57,5	
P154RM1227	P154LM1227	12	27	57,5	
P154RM0535	P154LM0535	5	35	70	
P154RM0635	P154LM0635	6	35	70	
P154RM0735	P154LM0735	7	35	70	
P154RM0835	P154LM0835	8	35	70	
P154RM0935	P154LM0935	9	35	70	
P154RM1035	P154LM1035	10	35	70	
P154RM1235	P154LM1235	12	35	70	
P154RM0544	P154LM0544	5	44	77	
P154RM0644	P154LM0644	6	44	77	
P154RM0844	P154LM0844	8	44	77	
P154RM1044	P154LM1044	10	44	77	
P154RM1244	P154LM1244	12	44	77	
P154RM1444	P154LM1444	14	44	77	

Impiego su foratrici, utilizzabili con art. P162
Use on boring machines, use with item P162
Anwendung auf Bohrmaschinen, verwenden mit Art. P162

P161

HW Z=2

SVASATORI COMPONENTI SHELL COUNTERSINK AUFSTECKSENKER



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø d (mm)	Ø D (mm)	€
P161RM0416	P161LM0416	4	16	
P161RM0516	P161LM0516	5	16	
P161RM0616	P161LM0616	6	16	
P161RM0718	P161LM0718	7	18	
P161RM0818	P161LM0818	8	18	
P161RM0920	P161LM0920	9	20	
P161RM1020	P161LM1020	10	20	
P161RM1222	P161LM1222	12	22	

Impiego su foratrici, utilizzabili con art. P150-P152-P153
Use on boring machines, use with item P150-P152-P153
Anwendung auf Bohrmaschinen, verwenden mit Art. P150-P152-P153

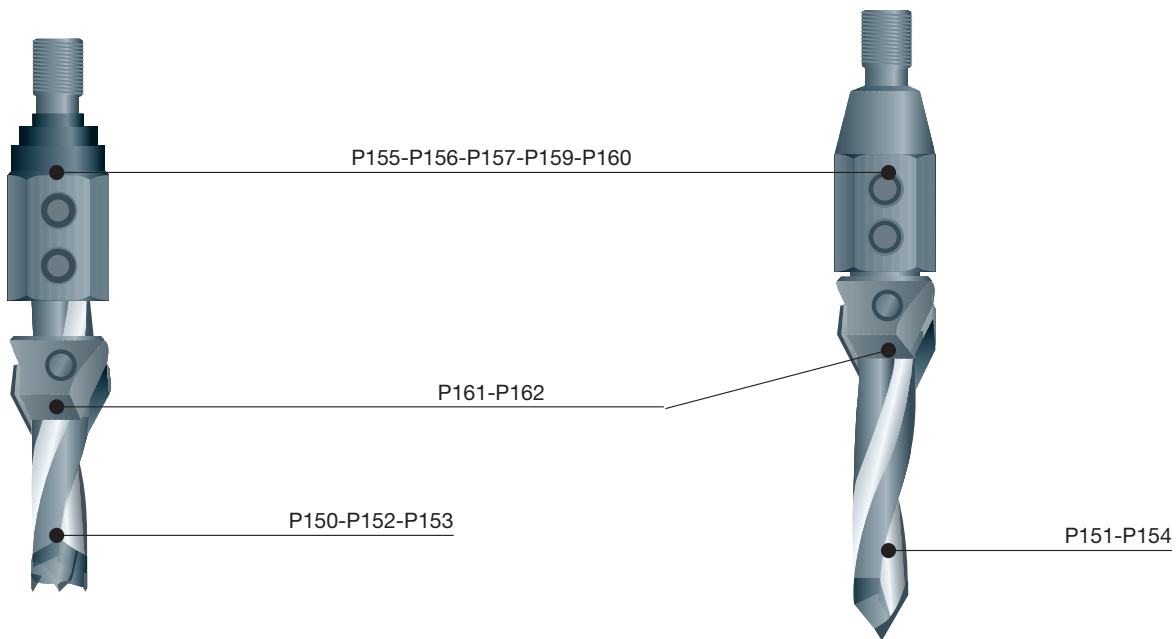


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ d (mm)	∅ D (mm)	€
P162RM0520	P162LM0520	5 10	20	
P162RM1222	P162LM1222	12	22	

Impiego su foratrici, utilizzabili con art. P151-P154
Use on boring machines, use with item P151-P154
Anwendung auf Bohrmaschinen, verwenden mit Art. P151-P154



ESEMPI DI ASSEMBLAGGIO
ASSEMBLY EXAMPLES
MONTAGEBEISPIEL



ESEMPIO DI FORO CIECO CON SVASATURA
EXAMPLES OF BLIND DRILLING WITH COUNTERSINK
BEISPIEL

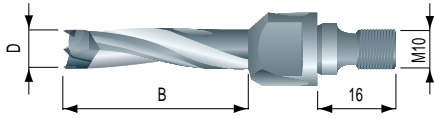


ESEMPIO DI FORO PASSANTE CON SVASATURA
EXAMPLES OF THROUGH-OUT DRILLING WITH COUNTERSINK
BEISPIEL

P181

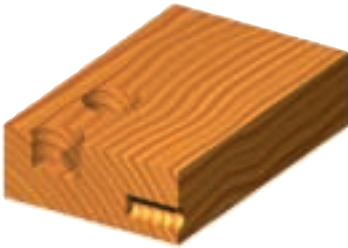
HW

PUNTE SPINATRICI SENZA SVASATORE BROACHING DRILLS WITHOUT COUNTERSINK DÜBELBOHRER OHNE SENKER



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BIESSE-BÖTTCHER + GESSNER
MORBIDELLI-RAIMANN
TORWEGGE-WEEKE



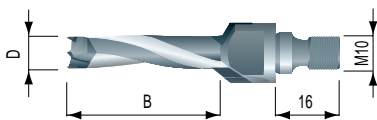
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	∅ B (mm)	€
P181RM0530	P181LM0530	5	30	
P181RM0630	P181LM0630	6	30	
P181RM0830	P181LM0830	8	30	
P181RM1030	P181LM1030	10	30	
P181RM1230	P181LM1230	12	30	
P181RM1430	P181LM1430	14	30	
P181RM0540	P181LM0540	5	40	
P181RM0640	P181LM0640	6	40	
P181RM0840	P181LM0840	8	40	
P181RM1040	P181LM1040	10	40	
P181RM1240	P181LM1240	12	40	
P181RM1440	P181LM1440	14	40	
P181RM0550	P181LM0550	5	50	
P181RM0650	P181LM0650	6	50	
P181RM0850	P181LM0850	8	50	
P181RM1050	P181LM1050	10	50	
P181RM1250	P181LM1250	12	50	
P181RM1450	P181LM1450	14	50	

Impiego su foratrici
Use on boring machines
Anwendung auf Bohrmaschinen

P182

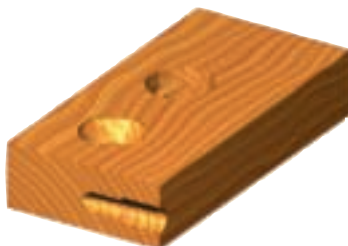
HW

PUNTE SPINATRICI CON SVASATORE BROACHING DRILLS WITH COUNTERSINK DÜBELBOHRER MIT SENKER



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BIESSE-BÖTTCHER + GESSNER
MORBIDELLI-RAIMANN
TORWEGGE-WEEKE

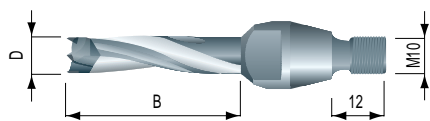


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	∅ B (mm)	€
P182RM0530	P182LM0530	5	30	
P182RM0630	P182LM0630	6	30	
P182RM0830	P182LM0830	8	30	
P182RM1030	P182LM1030	10	30	
P182RM1230	P182LM1230	12	30	
P182RM1430	P182LM1430	14	30	
P182RM0540	P182LM0540	5	40	
P182RM0640	P182LM0640	6	40	
P182RM0840	P182LM0840	8	40	
P182RM1040	P182LM1040	10	40	
P182RM1240	P182LM1240	12	40	
P182RM1440	P182LM1440	14	40	
P182RM0550	P182LM0550	5	50	
P182RM0650	P182LM0650	6	50	
P182RM0850	P182LM0850	8	50	
P182RM1050	P182LM1050	10	50	
P182RM1250	P182LM1250	12	50	
P182RM1450	P182LM1450	14	50	

Impiego su foratrici
Use on boring machines
Anwendung auf Bohrmaschinen

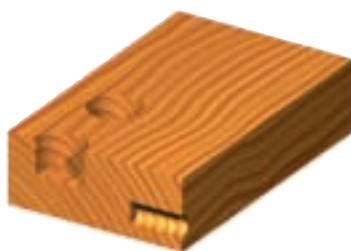
PUNTE SPINATRICI SENZA SVASATORE
BROACHING DRILLS WITHOUT COUNTERSINK
DÜBELBOHRER OHNE SENKER

P183
HW



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BUSELLATO-OMPEC
SCHLEICHER
VITAP-WEEKE

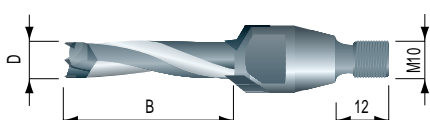


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	∅ B (mm)	€
P183RM0530	P183LM0530	5	30	
P183RM0630	P183LM0630	6	30	
P183RM0830	P183LM0830	8	30	
P183RM1030	P183LM1030	10	30	
P183RM1230	P183LM1230	12	30	
P183RM1430	P183LM1430	14	30	
P183RM0540	P183LM0540	5	40	
P183RM0640	P183LM0640	6	40	
P183RM0840	P183LM0840	8	40	
P183RM1040	P183LM1040	10	40	
P183RM1240	P183LM1240	12	40	
P183RM1440	P183LM1440	14	40	
P183RM0550	P183LM0550	5	50	
P183RM0650	P183LM0650	6	50	
P183RM0850	P183LM0850	8	50	
P183RM1050	P183LM1050	10	50	
P183RM1250	P183LM1250	12	50	
P183RM1450	P183LM1450	14	50	

Impiego su foratrici
Use on boring machines
Anwendung auf Bohrmaschinen

PUNTE SPINATRICI CON SVASATORE
BROACHING DRILLS WITH COUNTERSINK
DÜBELBOHRER MIT SENKER

P184
HW



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BUSELLATO-OMPEC
SCHLEICHER
VITAP-WEEKE



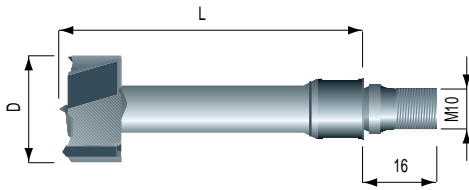
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	∅ B (mm)	€
P184RM0530	P184LM0530	5	30	
P184RM0630	P184LM0630	6	30	
P184RM0830	P184LM0830	8	30	
P184RM1030	P184LM1030	10	30	
P184RM1230	P184LM1230	12	30	
P184RM1430	P184LM1430	14	30	
P184RM0540	P184LM0540	5	40	
P184RM0640	P184LM0640	6	40	
P184RM0840	P184LM0840	8	40	
P184RM1040	P184LM1040	10	40	
P184RM1240	P184LM1240	12	40	
P184RM1440	P184LM1440	14	40	
P184RM0550	P184LM0550	5	50	
P184RM0650	P184LM0650	6	50	
P184RM0850	P184LM0850	8	50	
P184RM1050	P184LM1050	10	50	
P184RM1250	P184LM1250	12	50	
P184RM1450	P184LM1450	14	50	

Impiego su foratrici
Use on boring machines
Anwendung auf Bohrmaschinen

P185

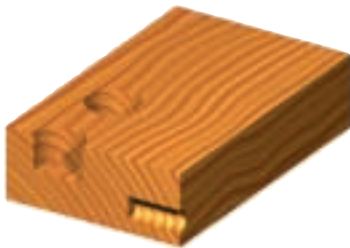
HW Z=2+2

PUNTE PER CERNIERE
HINGE BORING BITS
BESCHLAGBOHRER



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BIESSE-BÖTTCHER + GESSNER
MORBIDELLI-RAIMANN
TORWEGGE-WEEKE



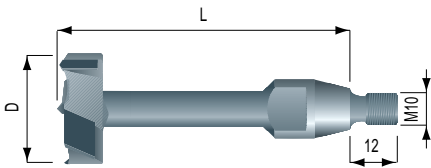
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	L (mm)	€
P185RM2055	P185LM2055	20	55	
P185RM2555	P185LM2555	25	55	
P185RM2655	P185LM2655	26	55	
P185RM3055	P185LM3055	30	55	
P185RM3555	P185LM3555	35	55	
P185RM4055	P185LM4055	40	55	

Impiego su foratrici, esecuzione di fori non passanti o sedi per cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

P186

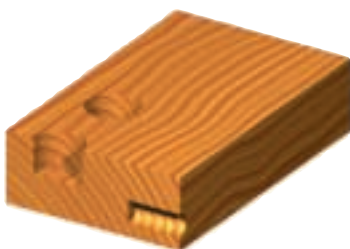
HW Z=2+2

PUNTE PER CERNIERE
HINGE BORING BITS
BESCHLAGBOHRER



Attacco per macchine
Chuck for machines
Schaft für Maschinen

BUSELLATO-OMPEC
SCHLEICHER
VITAP-WEEKE

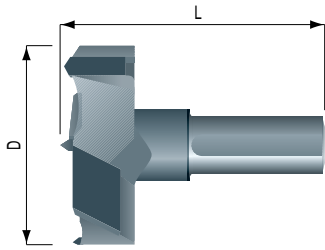


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	L (mm)	€
P186RM2065	P186LM2065	20	65	
P186RM2565	P186LM2565	25	65	
P186RM2665	P186LM2665	26	65	
P186RM3065	P186LM3065	30	65	
P186RM3565	P186LM3565	35	65	
P186RM4065	P186LM4065	40	65	

Impiego su foratrici, esecuzione di fori non passanti o sedi per cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

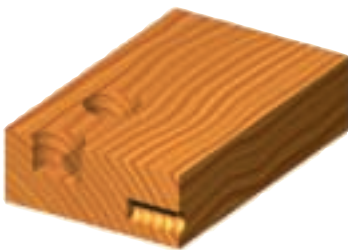
PUNTE PER CERNIERE
HINGE BORING BITS
BESCHLAGBOHRER

P163
HW Z=2+2



Attacco • Chuck • Schaft

Ø 10x26

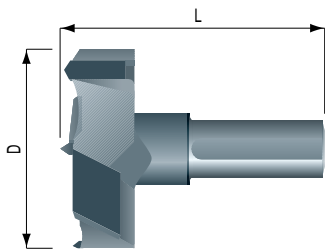


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	L (mm)	€
P163RM1557	P163LM1557	15	57,5	
P163RM1657	P163LM1657	16	57,5	
P163RM1857	P163LM1857	18	57,5	
P163RM2057	P163LM2057	20	57,5	
P163RM2257	P163LM2257	22	57,5	
P163RM2557	P163LM2557	25	57,5	
P163RM2657	P163LM2657	26	57,5	
P163RM3057	P163LM3057	30	57,5	
P163RM3557	P163LM3557	35	57,5	
P163RM3857	P163LM3857	38	57,5	
P163RM4057	P163LM4057	40	57,5	
P163RM2070	P163LM2070	20	70	
P163RM2570	P163LM2570	25	70	
P163RM3070	P163LM3070	30	70	
P163RM3570	P163LM3570	35	70	

Impiego su foratrici, esecuzione di fori non passanti o sedi per cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

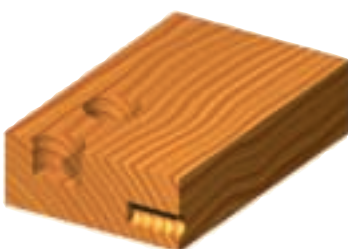
PUNTE PER CERNIERE
HINGE BORING BITS
BESCHLAGBOHRER

P164
HW Z=3+3



Attacco • Chuck • Schaft

Ø 10x26



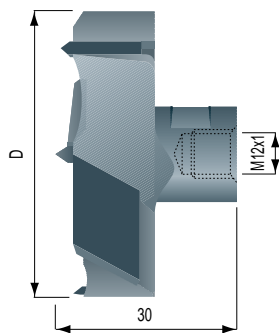
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	L (mm)	€
P164RM2557	P164LM2557	25	57,5	
P164RM2657	P164LM2657	26	57,5	
P164RM3057	P164LM3057	30	57,5	
P164RM3557	P164LM3557	35	57,5	
P164RM3857	P164LM3857	38	57,5	
P164RM4057	P164LM4057	40	57,5	

Impiego su foratrici, esecuzione di fori non passanti o sedi per cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

P171

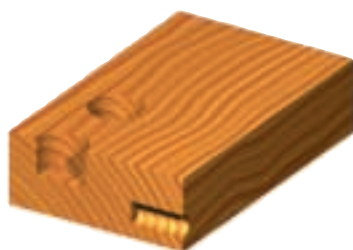
HW

PUNTE INTERCAMBIABILI PER CERNIERE INTERCHANGEABLE HINGE BORING BITS AUSWECHSELBARER BESCHLAGBOHRER



Attacco • Chuck • Schaft

utilizzabili con art. P170
use with item P170
verwenden mit Art. P170



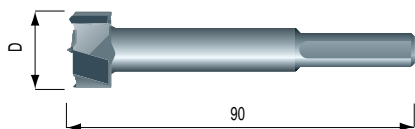
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	L (mm)	€
P171RM0025	P171LM0025	25	30	
P171RM0026	P171LM0026	26	30	
P171RM0030	P171LM0030	30	30	
P171RM0035	P171LM0035	35	30	
P171RM0038	P171LM0038	38	30	
P171RM0040	P171LM0040	40	30	
P171RM0045	P171LM0045	45	30	
P171RM0050	P171LM0050	50	30	

Impiego su foratrici, esecuzione di fori non passanti o sedi di cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

P166

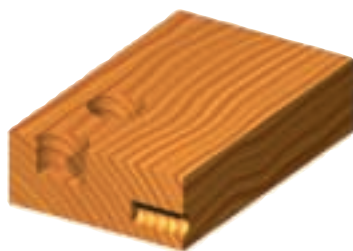
HW Z=2+2

PUNTE A TESTA CILINDRICA (LEVANODI) CENTRE DRILLS WITH CYLINDRICAL HEAD ZYLINDERKOPFBOHRER



Attacco • Chuck • Schaft

∅ 10x30

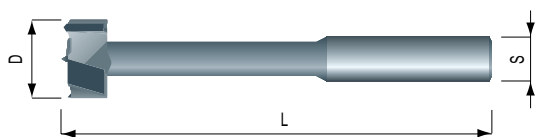


Rotation DX/RH/RL CODE	∅ D (mm)	L (mm)	€
P166RM0018	18	90	
P166RM0020	20	90	
P166RM0025	25	90	
P166RM0026	26	90	
P166RM0030	30	90	
P166RM0035	35	90	

Impiego su foratrici, esecuzione di fori non passanti o sedi di cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

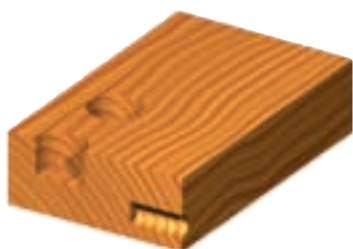
PUNTE A TESTA CILINDRICA (LEVANODI)
CENTRE DRILLS WITH CYLINDRICAL HEAD
ZYLINDERKOPFBOHRER

P167
HW Z=2+2



Attacco • Chuck • Schaft

∅ 13x50 ∅ 16x50



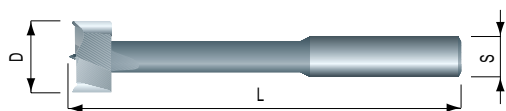
Rotation DX/RH/RL CODE	∅ D (mm)	L (mm)	€
P167RM0015	15	120	
P167RM0016	16	120	
P167RM0018	18	120	
P167RM0020	20	120	
P167RM0025	25	125	
P167RM0026	26	125	
P167RM0030	30	125	
P167RM0035	35	130	
P167RM0039	38	130	
P167RM0040	40	130	
P167RM0050	50	130	
P167RM0060	60	140	

Impiego su foratrici, esecuzione di fori non passanti o sedi di cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

Attenzione sull'ordine specificare l'attacco "S"
Attention on order specify the chuck "S"
Achtung bei Bestellung die Schaft angeben "S"

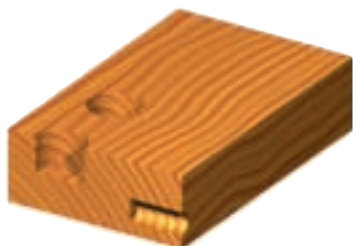
PUNTE A TESTA CILINDRICA (LEVANODI)
CENTRE DRILLS WITH CYLINDRICAL HEAD
ZYLINDERKOPFBOHRER

P168
KSS Z=2+2



Attacco • Chuck • Schaft

∅ 13x50 ∅ 16x50



Rotation DX/RH/RL CODE	∅ D (mm)	L (mm)	€
P168RS0010	10	120	
P168RS0012	12	120	
P168RS0014	14	120	
P168RS0015	15	120	
P168RS0016	16	120	
P168RS0018	18	120	
P168RS0020	20	120	
P168RS0022	22	125	
P168RS0024	24	125	
P168RS0025	25	125	
P168RS0026	26	125	
P168RS0030	30	125	
P168RS0032	32	130	
P168RS0034	34	130	
P168RS0035	35	130	
P168RS0038	38	130	
P168RS0040	40	130	
P168RS0050	50	130	
P168RS0055	55	140	
P168RS0060	60	140	

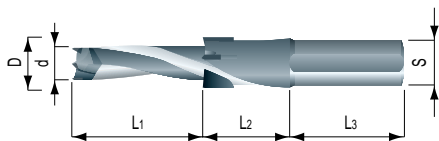
Impiego su foratrici, esecuzione di fori non passanti o sedi di cerniere
Use on boring machines, for hardware recessing and pocket hole drilling
Anwendung auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen

Attenzione sull'ordine specificare l'attacco "S"
Attention on order specify the chuck "S"
Achtung bei Bestellung die Schaft angeben "S"

P165

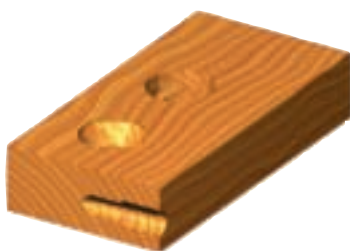
HW

PUNTE PER DOPPI FORI COUNTER-BORE TWIST DRILLS STUFEN-SPIRALBOHRER



Attacco • Chuck • Schaft

A richiesta • On request • auf Anfrage



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	L max. (mm)	€
P165RM0015	P165LM0015	15	130	
P165RM0020	P165LM0020	20	130	
P165RM0025	P165LM0025	25	130	
P165RM0030	P165LM0030	30	130	
P165RM0035	P165LM0035	35	130	
P165RM0040	P165LM0040	40	130	

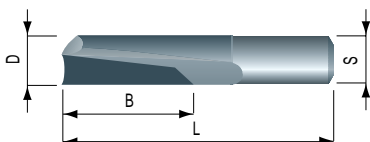
Impiego esecuzione di forature a più diametri
Use possibility to execute various diameters
Anwendung Für abgestufte Bohrungen

Attenzione sull'ordine specificare D - d - L₁ - L₂ - L₃ - S
Attention on order specify D - d - L₁ - L₂ - L₃ - S
Achtung Nennen bei der Bestellung D - d - L₁ - L₂ - L₃ - S

P230

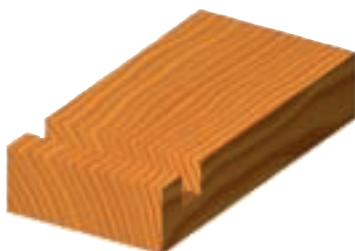
HW Z=1

PUNTE PER PANTOGRAFO ROUTER BITS OBERFRÄSER



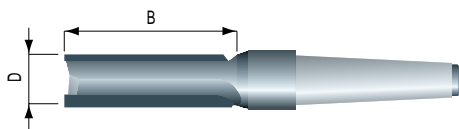
Attacco • Chuck • Schaft

∅ 9.5x20 ∅ 12x20



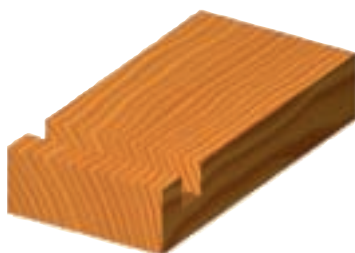
Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	S (mm)	€
P230RM0814	8	14	46	9,5	
P230RM1022	10	22	54	9,5	
P230RM1260	12	28	60	12	
P230RM1464	14	30	64	12	
P230RM1670	16	34	70	12	
P230RM1874	18	37	74	12	
P230RM2077	20	40	77	12	

Impiego lavorazioni di foratura e contornatura
Use for boring and moulding
Anwendung zum Bohren und Fräsen



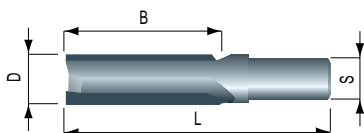
Attacco • Chuck • Schaft

C.M.2 M20x14Fx1"
M.K.2



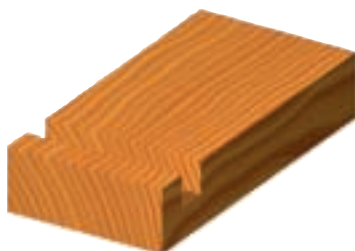
Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	€
P187RM1640	16	40	
P187RM1840	18	40	
P187RM2040	20	40	
P187RM2240	22	40	
P187RM1650	16	50	
P187RM1850	18	50	
P187RM2050	20	50	
P187RM2250	22	50	
P187RM1660	16	60	
P187RM1860	18	60	
P187RM2060	20	60	
P187RM2260	22	60	

Impiego lavorazioni di foratura e contornatura
Use for boring and moulding
Anwendung zum Bohren und Fräsen



Attacco • Chuck • Schaft

∅ 9.5x20 ∅ 12x20



Rotation DX/RH/RL CODE	∅ D (mm)	B (mm)	L (mm)	S (mm)	€
P210RM0512	5*	12	45	9,5	
P210RM0614	6*	14	45	9,5	
P210RM0818	8*	18	55	9,5	
P210RM1022	10*	22	60	9,5	
P210RM1226	12	26	65	12	
P210RM1428	14	28	65	12	
P210RM1632	16	32	65	12	
P210RM1835	18	35	70	12	
P210RM2038	20	38	70	12	

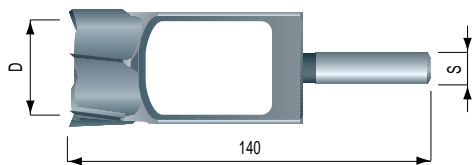
* HW integrale
* Solid HW
* HW massiv

Impiego lavorazioni di foratura e contornatura
Use for boring and moulding
Anwendung zum Bohren und Fräsen

P169

KSS Z=5

PUNTE PER PERNI
PLUG CUTTERS
SCHEIBENSCHNEIDER



Attacco • Chuck • Schaft

∅ 13x50 ∅ 16x50



Rotation DX/RH/RL CODE	∅ D (mm)	S (mm)	€
P169RS1013	10	13	
P169RS1513	15	13	
P169RS2013	20	13	
P169RS2513	25	13	
P169RS3013	30	13	
P169RS3516	35	16	
P169RS4016	40	16	

Impiego permette di ottenere il tappo per coprire i fori eseguiti con punte levandoci
Use for cutting out plugs for knot holes
Anwendung zum Schneiden von Scheiben, Zapfen etc.

P172

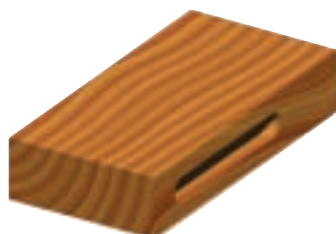
KSS Z=2

PUNTE PER MORTASARE A TAGLIENTI DIRITTI CON ROMPITRUCIOLO
MORTISE DRILLS WITH STRAIGHT TEETH AND CHIPBREAKER
LANGLOCHBOHRER MIT SPANBRECHERNUTEN



Attacco • Chuck • Schaft

∅ 13x50 ∅ 16x50

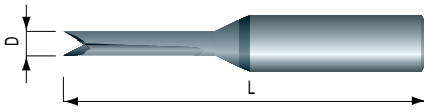


Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	∅ D (mm)	L (mm)	S (mm)	€
P172RS0613	P172LS0613	6	105	13	
P172RS0713	P172LS0713	7	110	13	
P172RS0813	P172LS0813	8	115	13	
P172RS0913	P172LS0913	9	120	13	
P172RS1013	P172LS1013	10	125	13	
P172RS1113	P172LS1113	11	130	13	
P172RS1213	P172LS1213	12	135	13	
P172RS1313	P172LS1313	13	140	13	
P172RS1413	P172LS1413	14	145	13	
P172RS1513	P172LS1513	15	150	13	
P172RS1613	P172LS1613	16	155	13	
P172RS0616	P172LS0616	6	105	16	
P172RS0716	P172LS0716	7	110	16	
P172RS0816	P172LS0816	8	115	16	
P172RS0916	P172LS0916	9	120	16	
P172RS1016	P172LS1016	10	125	16	
P172RS1116	P172LS1116	11	130	16	
P172RS1216	P172LS1216	12	135	16	
P172RS1316	P172LS1316	13	140	16	
P172RS1416	P172LS1416	14	145	16	
P172RS1516	P172LS1516	15	150	16	
P172RS1616	P172LS1616	16	155	16	

Impiego per asole di precisione su mortasatrici
Use for making precise slots on mortising machines
Anwendung zum Fräsen von Langlöchern, Schlitz in Weichholz

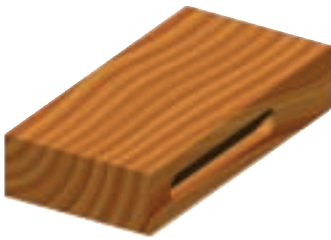
PUNTE PER MORTASARE A TAGLIANTI DIRITTI
MORTISE DRILLS WITH STRAIGHT TEETH
PENDELSCHLITZBOHRER

P173
KSS Z=2



Attacco • Chuck • Schaft

Ø 13x50 Ø 16x50

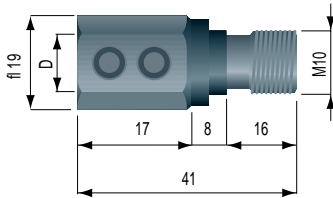


CODE	Ø D (mm)	L (mm)	€
P173NS1606	6	95	
P173NS1607	7	95	
P173NS1608	8	95	
P173NS1609	9	95	
P173NS1610	10	100	
P173NS1612	12	100	
P173NS1614	14	100	
P173NS1616	16	100	

Impiego per asole di precisione su macchine automatiche
Use for making precise slots on automatic machines
Anwendung zum Fräsen von ausrißfreien Langlöchern bei pendelnder Arbeitsbewegung

MANDRINI PER PUNTE COMPONIBILI
REDUCING CHUCKS FOR DOWEL DRILLS
BOHRFUTTER FÜR DÜBELBOHRER

P155



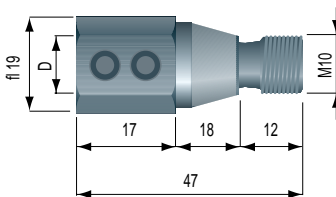
Attacco per macchine
Chuck for machines
Schaft für Maschinen

BIESSE-GESSNER
MORBIDELLI-RAIMANN
TORWEGGE-WEEKE

Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	L (mm)	€
P155RC0815	P155LC0815	8	47	
P155RC1019	P155LC1019	10	47	

MANDRINI PER PUNTE COMPONIBILI
REDUCING CHUCKS FOR DOWEL DRILLS
BOHRFUTTER FÜR DÜBELBOHRER

P156



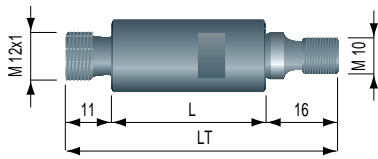
Attacco per macchine
Chuck for machines
Schaft für Maschinen

BUSELLATO-OMPEC
SCHLEICHER
VITAP-WEEKE

Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	L (mm)	€
P156RC0815	P156LC0815	8	47	
P156RC1019	P156LC1019	10	47	

P170

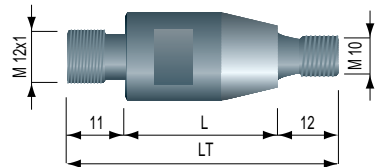
ATTACCHI PER PUNTE INTERCAMBIABILI PER ART. P171 INTERCHANGEABLE DRILL-CHUCKS FOR ART. P171 SCHAFTAUFNAHMEN FÜR ART. P171



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	L (mm)	LT (mm)	€
P170RC1125	P170LC1125	25	52	
P170RC1135	P170LC1135	35	62	

Attacco per macchine
Chuck for machines
Schaft für Maschinen

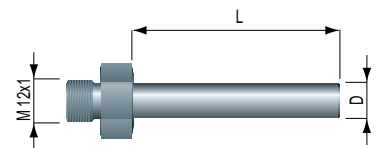
BIESSE-GESSNER
MORBIDELLI-RAIMANN
TORWEGGE-WEEKE



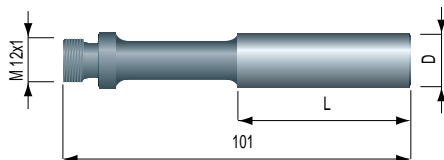
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	L (mm)	LT (mm)	€
P170RC3025	P170LC3025	25	48	
P170RC3035	P170LC3035	35	58	

Attacco per macchine
Chuck for machines
Schaft für Masch.

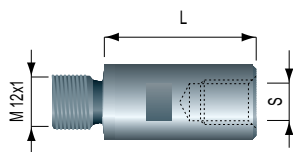
BUSELLATO-OMPEC
SCHLEICHER
VITAP-WEEKE



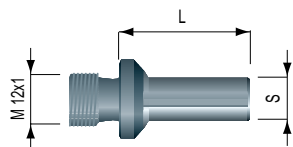
Rotation DX/RH/RL CODE	Ø D (mm)	L (mm)	€
P170RC0840	8	40	
P170RC9540	9,5	40	
P170RC1040	10	40	
P170RC1240	12	40	



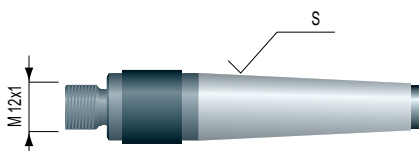
Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	Ø D (mm)	L (mm)	€
P170RC1350	P170LC1350	13	50	
P170RC1650	P170LC1650	16	50	



Rotation DX/RH/RL CODE	S (mm)	L (mm)	€
P170RC1225	M 12x1	25	



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	S (mm)	L (mm)	€
P170RC1026	P170LC1026	10	27	



Rotation DX/RH/RL CODE	Rotation SX/LH/LL CODE	S (mm)	€
P170RC0CM2	P170LC0CM2	C.M.2/M.K.2 M20x14Fx1	

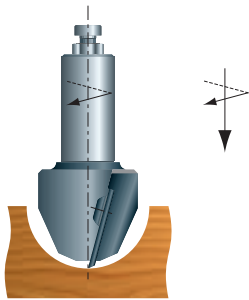


Punte a coltellino
dritte e sagomate

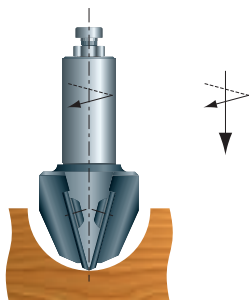
Straight and profiled
knife routers

Schaftwerkzeuge

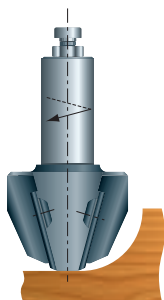
PUNTE A COLTELLINO-SIMBOLOGIA E CARATTERISTICHE GENERALI DISPOSABLE KNIFE ROUTERS-TECHNICAL INFORMATION WECHSELPLATTEN-SCHAFTWERKZEUGE/TECHNISCHE INFORMATIONEN



Esecuzione a 1 tagliente per fresatura assiale e laterale
Execution with one knife for plunging and milling
Ausführung 1-schneidig zum Bohren und Fräsen



Esecuzione a 2 taglienti per fresatura assiale e laterale
Execution with two knives for plunging and milling
Ausführung 2-schneidig zum Bohren und Fräsen



Esecuzione a 2 taglienti per fresatura laterale
Execution with two knives for contour milling
Ausführung 2-schneidig zum Fräsen

SIMBOLOGIA E CARATTERISTICHE GENERALI

- Corpo in acciaio ad alta resistenza
- Coltelli dritti e sagomati in HW, intercambiabili e autoposizionanti
- Attacco cilindrico completo di tirante, dove indicato. Su richiesta può essere fornito con attacchi cilindrici o conici con dimensioni diverse da quelle indicate
- La punta sagomata può essere fornita con qualsiasi profilo incluso nella zona tratteggiata
- In fase di ordine indicare sempre il tipo di materiale che si vuole lavorare
- Le punte sono disponibili con rotazione destra. A richiesta possono essere fornite con rotazione sinistra

I ricambi vengono forniti in kit così composti:

viti	10 pezzi per kit
tasselli	2 pezzi per kit
coltelli reversibili standard	10 pezzi per kit
coltelli profilati standard	2 pezzi per kit

TECHNICAL INFORMATION

- Tool body in high resistant steel.
- Interchangeable and self-positioning straight and profiled HW knives.
- All routers are supplied together with the terminal pin. Routers with other shanks (either conical or cylindrical), can be supplied on request.
- All profiled routers can be supplied with any shape obtained inside the relative shaded area.
- When order is placed, please indicate the kind of material to be processed in order to let STARK indicate you the most suitable cutting angles.
- All disposable knife routers are available with right hand rotation. Left hand rotation routers can be supplied on request.

Spare parts are supplied in kits composed as follows:

screws	10 pcs. per kit
wedges	2 pcs. per kit
standard reversible knives	10 pcs. per kit
standard profiled knives	2 pcs. per kit

TECHNISCHE INFORMATIONEN

- Körper aus hochfestem Stahl HW-Wechselmesser, gerade oder profiliert sind selbstpositionierend.
- Alle Träger werden mit Anschlag- oder Einstellschraube geliefert. Andere Schaft fertigen wir auf Anfrage.
- Jedes innerhalb der schraffierten Profilizone liegende Profil kann gefertigt werden.
- Bitte geben Sie im Auftragsfall das zu bearbeitende Material bekannt, damit die Schneidwinkel entsprechend angepasst werden können.
- Standardausführung ist Drehrichtung rechts, Drehrichtung links auf Anfrage.

Die Standardersatzteile werden in Kit verkauft wie folgt:

Schrauben	10 St. per Kit
Spannbacken	2 St. per Kit
Standard-Wendepplatten	10 St. per Kit
Standard-Profilplatten	2 St. per Kit

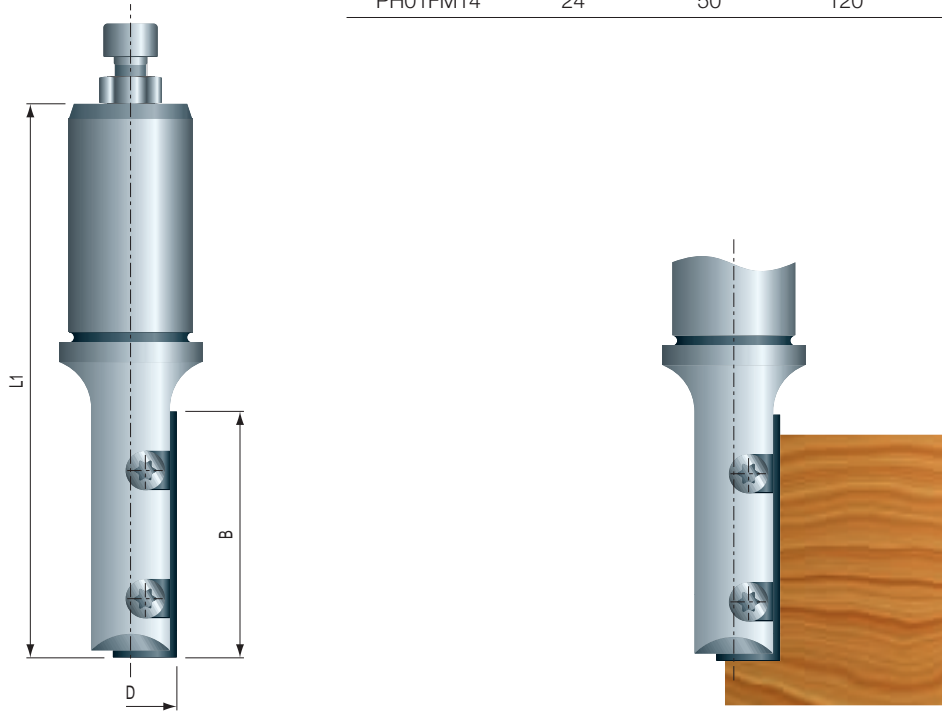
PH01FM PUNTA PER CONTORNARE DISPOSABLE KNIFE SIZING AND REBATING ROUTER HW Z=1 Z=2 WENDEPLATTEN-SCHAFTFRÄSER








Attacco • Shank • Schaft

∅ 12x40 ∅ 12,7x40
∅ 19,05x50 ∅ 20x55
∅ 25x55

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
PH01FM05	12	30	80	1	
PH01FM06	12,7 (1/2)	30	80	1	
PH01FM07	14	30	80	1	
●PH01FM01	16	50	120	1	
●PH01FM02	18	50	120	1	
PH01FM08	19,05 (3/4)	50	120	1	
●PH01FM03	20	50	120	1	
PH01FM04	24	50	120	2	

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
PH01FM11	16	50	120	1	
PH01FM12	18	50	120	1	
PH01FM13	20	50	120	1	
PH01FM14	24	50	120	2	



Ricambi Spare parts Ersatzteile							
Art. Nr.	PH01FM01/11 PH01FM02/12 PH01FM03/13 PH01FM04/14 PH01FM08	PH01FM05 PH01FM06 PH01FM07	PH01FM01/11	PH01FM02/12 PH01FM03/13 PH01FM04/14 PH01FM08	PH01FM01/11 PH01FM02/12	PH01FM03/13 PH01FM04/14 PH01FM08	PH01FM05 PH01FM06 PH01FM07
Art. Nr.	601016	601203	300806	300906	502302	502303	502307
Dimensioni Dimensions Abmessungen	50x12x1,5	30x5,5x1,1	46x9,5x2,5	46x9,5x3,5	M 4x10	M 4x12	M 3x7
€ pz./pc./St.							

T Art. Nr. 400405 T15 €
· Art. Nr. 400406 T8 €

PUNTA PER FORARE E CONTORNARE
DISPOSABLE KNIFE SIZING AND PLUNGING ROUTER
WENDEPLATTEN-SCHAFTFRÄSER

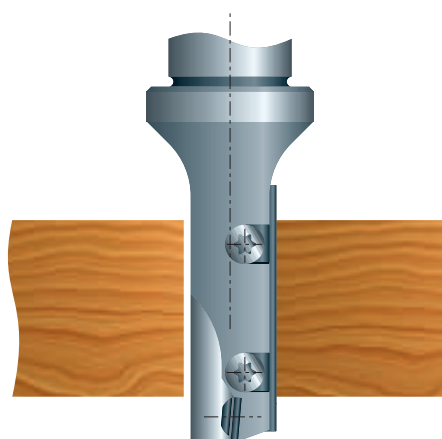
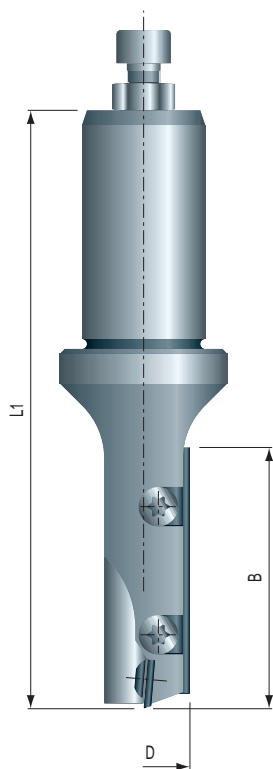
PH02FM
HW Z=1+1









Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Art. Nr. ↙	D (mm)	B (mm)	L1 (mm)	Z	€
PH02FM01	16	50	130	1+1	
●PH02FM02	18	50	130	1+1	
●PH02FM03	20	50	130	1+1	

Art. Nr. ↙	D (mm)	B (mm)	L1 (mm)	Z	€
PH02FM11	16	50	130	1+1	
PH02FM12	18	50	130	1+1	
PH02FM13	20	50	130	1+1	



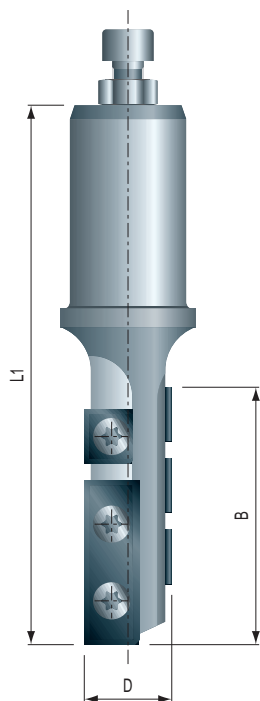
Ricambi Spare parts Ersatzteile								
Art. Nr.	PH02FM01/11 PH02FM02/12 PH02FM03/13	PH02FM01/11	PH02FM02/12 PH02FM03/13	PH02FM01/11 PH02FM02/12	PH02FM03/13	PH02FM01/11	PH02FM02/12 PH02FM03/13	PH02FM01/11 PH02FM02/12 PH02FM03/13
Art. Nr.	600006	300806	300906	502302	502303	601008	601009	502301
Dimensioni Dimensions Abmessungen	50x12x1,5	46x9,5x2,5	46x9,5x3,5	M 4x10	M 4x12	10x9,5x1,5	10x10,5x1,5	M 4x6
€ pz./pc./St.								

T Art. Nr. 400405 T15 €

PH01FM

HW Z=2

PUNTA PER CONTORNARE DISPOSABLE KNIFE SIZING AND REBATING ROUTER WENDEPLATTEN-SCHAFTFRÄSER



Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
PH01FM09	16	34	110	2	
PH01FM10	20	50	120	2	

Nr. Coltelli
Nr. Knives
Nr. Messer

B 34mm = 1x30 + 2x12 mm

B 50mm = 1x30 + 4x12 mm

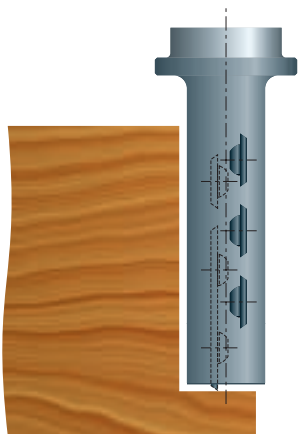
Ricambi
Spare parts
Ersatzteile



Art. Nr.	PH01FM10 PH01FM11	PH01FM10 PH01FM11	PH01FM10 PH01FM11
Art. Nr.	601015	600002	502301
Dimensioni Dimensions Abmessungen	30x12x1,5	12x12x1,5	M 4x6
€ pz./pc./St.			



Art. Nr. 400405 T15 €

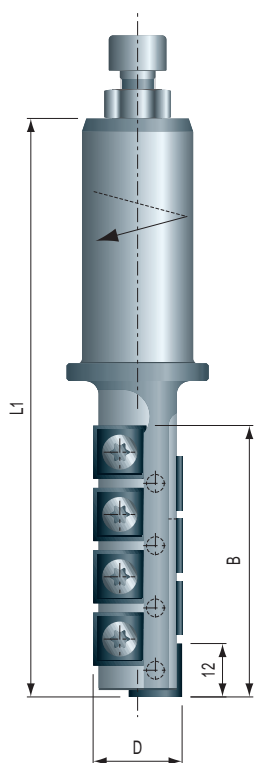


Attacco • Shank • Schaft

∅ 14x40 ∅ 20x55
∅ 25x55

PUNTA MULTITAGLIENTI PER CONTORNARE A 4 LATI TAGLIANTI
 MULTICUT SIZING ROUTER WITH FOUR CUTTING EDGES
 WENDEPLATTEN-SCHRUPPFÄSER

PH06FM
 HW Z=2



Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	Nr. Z	€
PH06FM01	20	33	102	2	4	
●PH06FM02	20	40	109	2	5	
PH06FM03	20	47	116	2	6	
PH06FM04	20	54	123	2	7	
●PH06FM05	20	61	130	2	8	
PH06FM06	22	82	149	2	11	

Ricambi
 Spare parts
 Ersatzteile

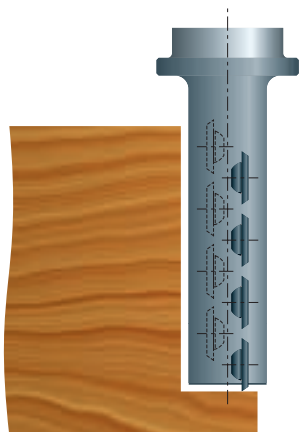


Art. Nr.	PH06FM	PH06FM
Art. Nr.	600002	502301
Dimensioni Dimensions Abmessungen	12x12x1,5	M 4x6
€ pz./pc./St.		



Art. Nr. 400405 T15

€



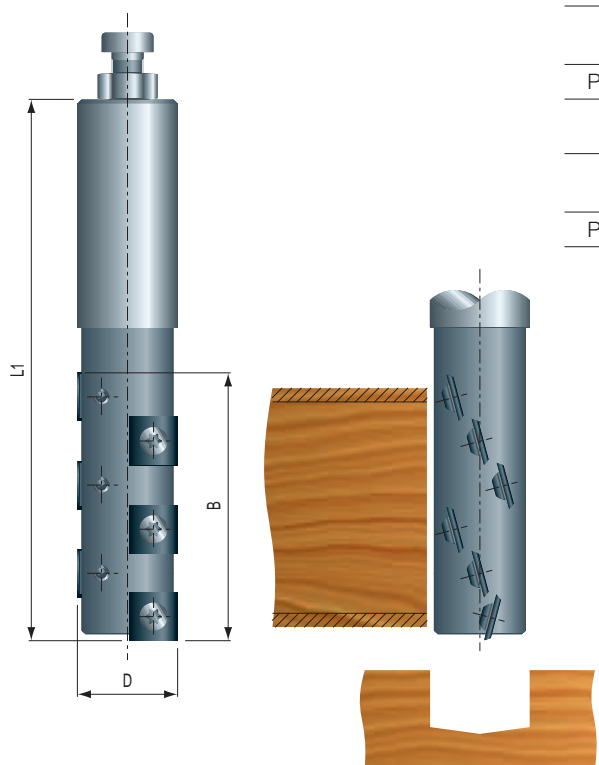
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

PH28FM

HW Z=1+1

PUNTA PER FORARE E CONTORNARE CON COLTELLI IN HW A 4 LATI TAGLIANTI DISPOSTI A ELICA E CON ANGOLO ASSIALE
 MULTICUT SIZING AND PLUNGING ROUTER WITH 4 CUTTING EDGES POSITIONED WITH SHEAR ANGLE
 WENDEPLATTEN-SCHRUPPFÄRER MIT ACHSWINKEL



Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	Nr. Z	€
PH28FM01	25	66	135	1+1	6	

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	Nr. Z	€
PH28FM11	25	66	135	1+1	6	

Ricambi
Spare parts
Ersatzteile



Art. Nr. PH28FM01/11 PH28FM01/11

Art. Nr. 600002 502330

Dimensioni
Dimensions
Abmessungen 12x12x1,5 M 4x5

€ pz./pc./St.



Art. Nr. 400405 T15

€

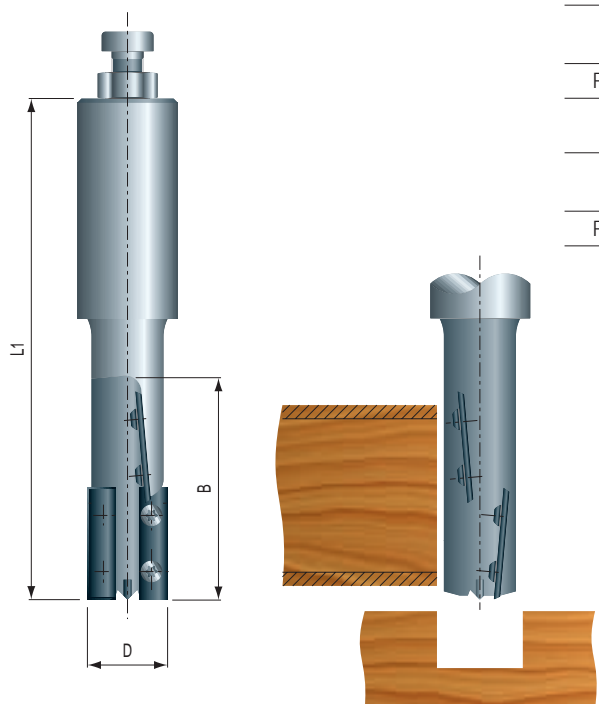
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

PH29FM

HW Z=2+2

PUNTA PER CONTORNARE A FINIRE CON COLTELLI IN HW CON ANGOLO ASSIALE ALTERNATO E INSERTO A FORARE IN HW
 SIZING AND PLUNGING ROUTER WITH DISPOSABLE ALTERNATE UP/DOWN SHEAR KNIVES AND BRAZED HW BORING TIP
 WECHSELPLATTEN-SCHAFTFRÄSER MIT WECHSELSEITIGEM ACHSWINKEL UND HW-BESTÜCKTER BOHRSCHEIDE



Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
PH29FM01	20	53	125	2+2	

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
PH29FM11	20	53	125	2+2	

Ricambi
Spare parts
Ersatzteile



Art. Nr. PH29FM01/11 PH29FM01/11

Art. Nr. 600097 502331

Dimensioni
Dimensions
Abmessungen 28x7x1,5 M 3x4

€ pz./pc./St.



Art. Nr. 400401 T9

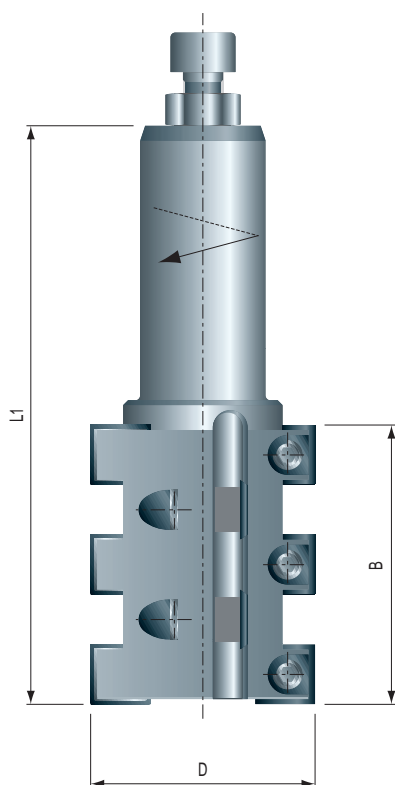
€

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

PUNTA MULTITAGLIANTI PER CONTORNARE
MULTICUT SIZING ROUTER WITH FOUR CUTTING EDGES
VIELZAHN-SCHRUPPFÄSER

PH08FM
HW Z=4



Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	Nr. Z	€
●PH08FM01	45	45	105	4	8	
PH08FM02	45	56	116	4	10	
●PH08FM03	45	67	127	4	12	

Ricambi
Spare parts
Ersatzteile



Art. Nr.	PH08FM01	PH08FM02	PH08FM03		
Art. Nr.	600002	302411	302411 302410	302410	501402
Dimensioni Dimensions Abmessungen	12x12x1,5	32	32 54	54	M 6x10

€ pz./pc./St.

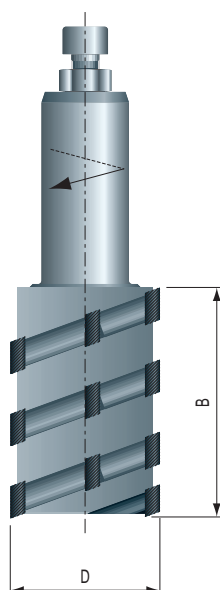
Art. Nr. 400113 mm 3 €

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

PUNTA ELICOIDALE CON RIPORTI HW BRASATI PER CONTORNARE
MULTICUT SIZING AND ROUGHING ROUTER WITH BRAZED CARBIDE TIPS
SPIRALSCHRUPPFÄSER, HW-BESTÜCKT

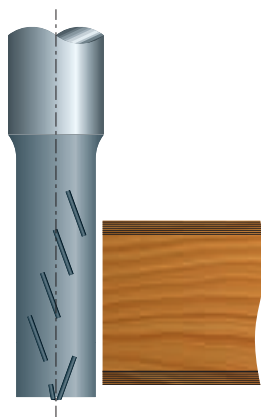
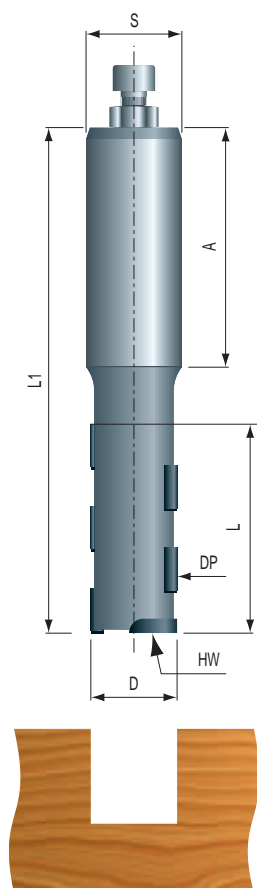
SP05FM
HW Z=6



Art. Nr.	D (mm)	B (mm)	Z	€
SP05FM21	30	30	6	
SP05FM22	30	40	6	
SP05FM23	30	50	6	
SP05FM24	30	60	6	
SP05FM25	40	30	6	
SP05FM26	40	40	6	
SP05FM27	40	50	6	
SP05FM28	40	60	6	
SP05FM29	50	30	6	
SP05FM30	50	40	6	
SP05FM31	50	50	6	
SP05FM32	50	60	6	

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55



Adatte alla foratura e contornatura di pannelli in MDF, impiallacciati e bilaminati. Si possono riaffilare da 1 a 3 volte.

Suitable for plunging and sizing MDF, veneered and plastic laminated panels. When properly used, it could be resharpened 1/3 times.

Zum Nuten, F gen, Falzen, von Span- und MDF-Platten, roh, kunststoffbeschichtet oder furniert auf CNC-Fr maschinen. Ein- bis dreimal nachsch rbar.

Art. Nr.	Art. Nr.	D (mm)	L (mm)	L1 (mm)	SxA (mm)	Z	€
PD01RM1025C12	PD01LM1025C12	10	25	75	12x40	3+1	
PD01RM1225C12	PD01LM1225C12	12	25	75	12x40	3+1	
PD01RM1235C12	PD01LM1235C12	12	35	85	12x40	4+1	
PD01RM1225C25	PD01LM1225C25	12	25	90	25x55	3+1	
PD01RM1425C16	PD01LM1425C16	14	25	85	16x50	3+1	
PD01RM1625C16	PD01LM1625C16	16	25	85	16x50	3+1	
PD01RM1635C16	PD01LM1635C16	16	35	95	16x50	4+1	
PD01RM1643C16	PD01LM1643C16	16	43	103	16x50	5+1	
PD01RM1625C20	PD01LM1625C20	16	25	85	20x50	3+1	
PD01RM1635C20	PD01LM1635C20	16	35	95	20x50	4+1	
PD01RM1643C20	PD01LM1643C20	16	43	103	20x50	5+1	
PD01RM1825C16	PD01LM1825C16	18	25	85	16x50	3+1	
PD01RM1835C16	PD01LM1835C16	18	35	95	16x50	4+1	
PD01RM1825C20	PD01LM1825C20	18	25	85	20x50	3+1	
PD01RM1835C20	PD01LM1835C20	18	35	95	20x50	4+1	
PD01RM1843C20	PD01LM1843C20	18	43	103	20x50	5+1	
PD01RM1852C20	PD01LM1852C20	18	52	112	20x50	6+1	
●PD01RM1825C25	PD01LM1825C25	18	25	90	25x55	3+1	
●PD01RM1835C25	PD01LM1835C25	18	35	100	25x55	4+1	
●PD01RM1843C25	PD01LM1843C25	18	43	108	25x55	5+1	
PD01RM1852C25	PD01LM1852C25	18	52	117	25x55	6+1	
PD01RM2025C20	PD01LM2025C20	20	25	85	20x50	3+1	
PD01RM2035C20	PD01LM2035C20	20	35	95	20x50	4+1	
PD01RM2043C20	PD01LM2043C20	20	43	103	20x50	5+1	
PD01RM2052C20	PD01LM2052C20	20	52	112	20x50	6+1	
PD01RM2025C25	PD01LM2025C25	20	25	90	25x55	3+1	
PD01RM2035C25	PD01LM2035C25	20	35	100	25x55	4+1	
PD01RM2043C25	PD01LM2043C25	20	43	108	25x55	5+1	
PD01RM2052C25	PD01LM2052C25	20	52	117	25x55	6+1	

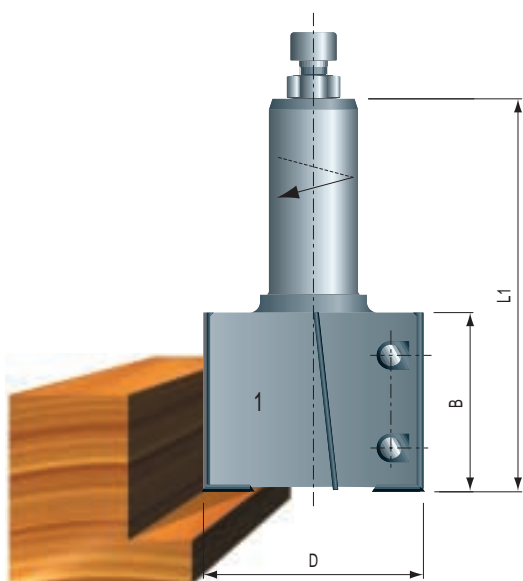
Altri tipi di punte in diamante policristallino possono essere fornite su richiesta.

Other types of PCD tooling are available on request.

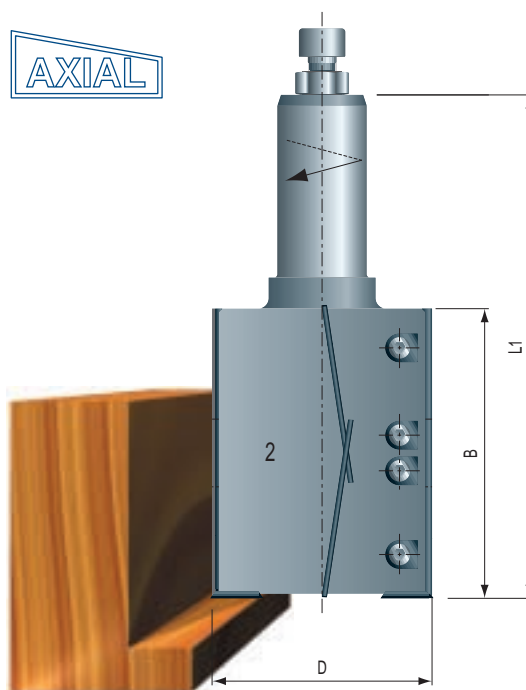
Andere Aus frungen von PKD-Werkzeugen auf Anfrage.

Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	v	€
1	PH03FM05	60	30	90	2	2	
1	●PH03FM06	60	50	110	2	2	
2	PH03FM07	60	80	144	2+2	2	

AXIAL



AXIAL



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∅ 20x55 ∅ 25x55

Ricambi
 Spare parts
 Ersatzteile

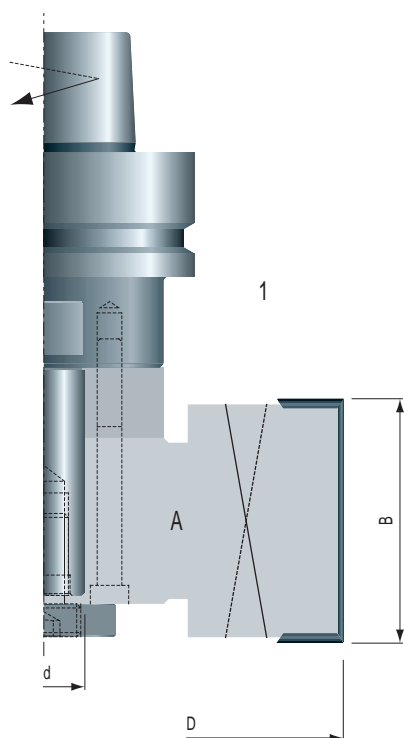


Art. Nr.	PH03FM05	PH03FM05	PH03FM06 PH03FM07	PH03FM06 PH03FM07			
Art. Nr.	600005	340034	600006	340035	501306	600201	500002
Dimensioni Dimensions Abmessungen	30x12x1,5	27	50x12x1,5	47	M 6x10	14x14x2	M 5x6,5

€ pz./pc./St.


T Art. Nr. 400113 mm 3 €

GP29 PH29 GRUPPO PER BATTUTE E CONTORNATURE DISPOSABLE KNIFE ROUTER SET FOR REBATES HW Z=4 WENDEPLATTEN-FALZKOPF



Gruppo completo di mandrino e testa in alluminio con angolo assiale alternato.
Router set including the chuck and a rebating cutterhead in aluminium with alternate shear angle.

Werkzeug auf Schaft verschraubt, mit wechselseitigem Achswinkel.
Werkzeug aus Aluminium.

Set	Art. Nr.	D (mm)	B (mm)	d (mm)	Z		€
1	●GP29FM1001	125	51	20	4	ISO 30	
	●GP29FM1002	125	51	20	4	ISO 40	
	●GP29FM1003	125	51	20	4	ISO 30/SCM	
	●GP29FM1004	125	51	20	4	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	€
A	●PH29FA05020	125	51	20	4	4	

Ricambi
Spare parts
Ersatzteile



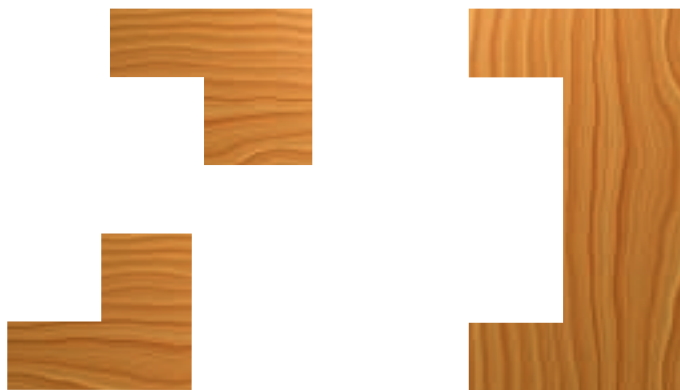
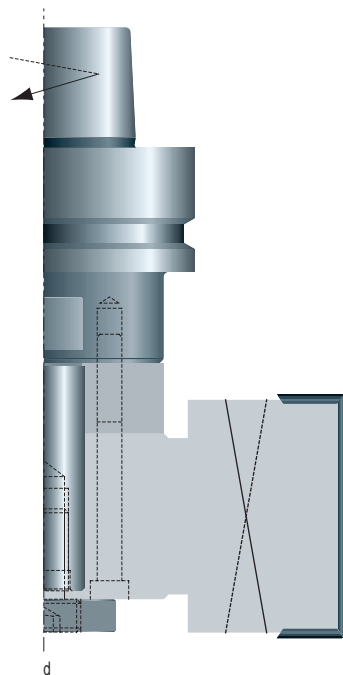
Art. Nr.	600006	341002	501412	600201	500002
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Dimensioni Dimensions Abmessungen	50x12x1,5	46	M 8x16	14x14x2	M 5x6,5
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€ pz./pc./St.

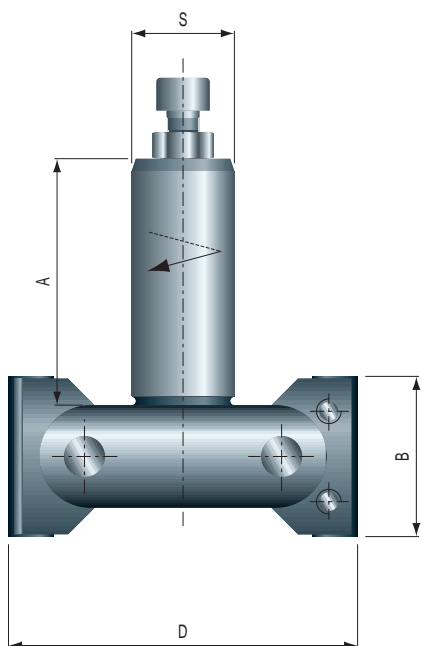


Art. Nr. 400114 mm 4 €



PUNTA CON COLTELLINI A INCLINAZIONE VARIABILE
 DISPOSABLE KNIFE ADJUSTABLE BEVEL ROUTER
 WENDEPLATTEN-SCHWENKMESSERKOPF, STUFENLOS VERSTELLBAR

PH25FM
 HW Z=2



L'angolazione varia da -45_i (sopra) a $+90_i$ (sotto).

La regolazione dei taglienti avviene con scatti fissi di $7,5_i$ o grado per grado seguendo la scala graduata marcata sull'utensile.

The swing varies from -45_i (on the top) to $+90_i$ (on the bottom).

The two wings are adjustable by fixed increments of $7,5_i$ or free setting Adjustment following the reading scale marked on the tool.

Schwenkbereich nach oben $0-45_i$, nach unten $0-90_i$, stufenlos einstellbar nach genauer Skala, mit $7,5_i$ Rasterung.

Art. Nr.	D (mm)	B (mm)	Z	SxA (mm)	€
●PH25FM02C25	85	39	2	25X60	

Ricambi
 Spare parts
 Ersatzteile



Art. Nr.	600094	341099	501414
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Dimensioni Dimensions Abmessungen	39x12x1,5	38	M 6x8
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€ pz./pc./St.

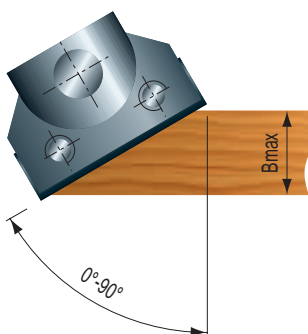
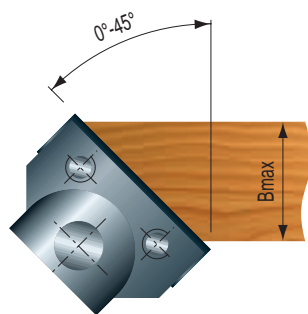


Art. Nr. 400002 3 mm

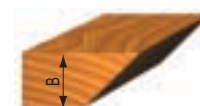
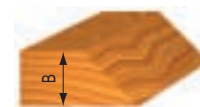
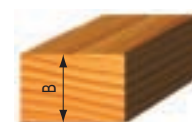
€

Art. Nr. 400111 4 mm

€



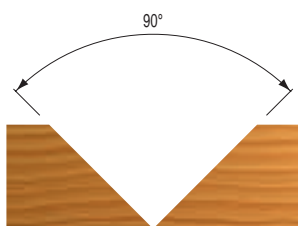
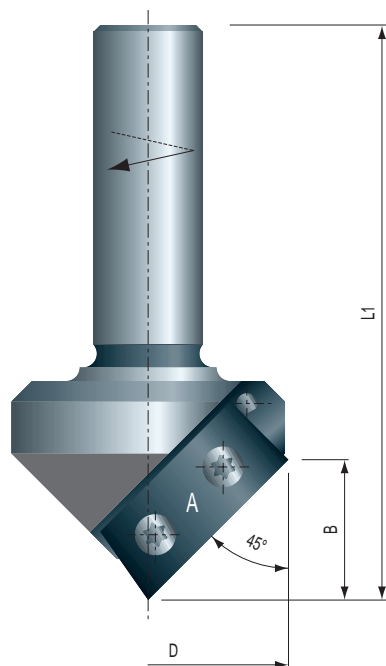
0 _i - B max = 37
5 _i - B max = 37
10 _i - B max = 36
15 _i - B max = 36
20 _i - B max = 35
25 _i - B max = 33
30 _i - B max = 32
35 _i - B max = 30
40 _i - B max = 28
45 _i - B max = 26
50 _i - B max = 24
55 _i - B max = 21
60 _i - B max = 18
65 _i - B max = 15
70 _i - B max = 12
75 _i - B max = 9
80 _i - B max = 6
85 _i - B max = 2
90 _i - B max = 0



PH23FM

HW Z=1

PUNTA PER SMUSSI E INCISIONI DISPOSABLE KNIFE BEVELLING AND GROOVING ROUTER WENDEPLATTEN-FASE-FOLDINGFRÄSER



La punta pu montare 2 tipi di coltello (A e B).
Viene fornita con il coltello tipo A, il quale intercambiabile con il coltello tipo B fornito a richiesta.

This tool can mount two different knives (A and B).
Knife A is supplied together with the router, while the interchangeable knife B, can be supplied on request.

Die Standardausführung ist montiert mit Messer A, Messer B liefern wir auf Bestellung zur Montage auf den gleichen Trägerper.

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
●PH23FM01	40	20	84	1	

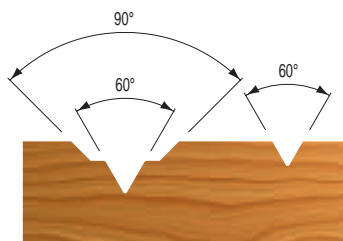
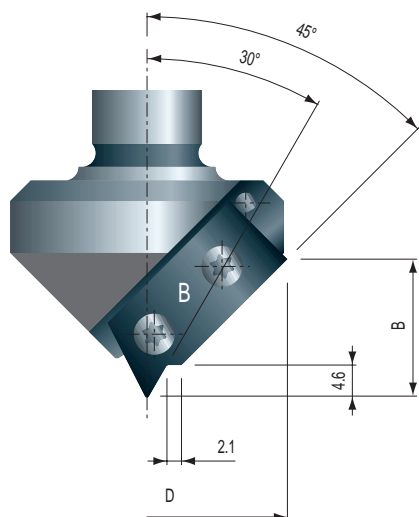
Profilo Profile Profil	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A	29x12x1,5	601346	
B	29x12x1,5	601347	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 3,5x4,8	502310	

Art. Nr. 400405 T15 €

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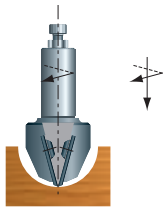
Ø 16x50 Ø 20x55



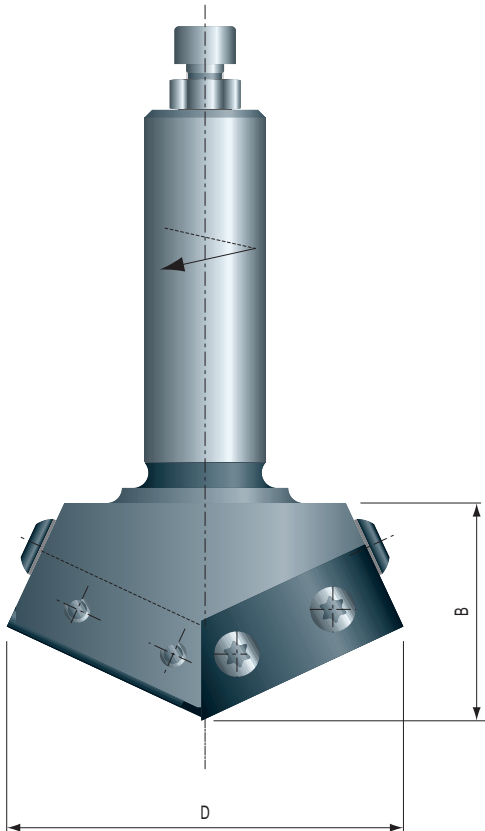
PUNTE CON COLTELLI PROFILATI PK05 PK06 DISPOSABLE PROFILED KNIFE ROUTER WECHSELPLATTEN-PROFILFRÄSER

PK05 PK06

HW Z=2



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	PK05AM	56	29	2	
2	●PK05BM	52	29	2	
3	●PK06AM	84	30	2	
4	●PK06BM	78	35	2	



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1-2	29x12x1,5	CS1003	
3-4	44x12x1,5	CS1004	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 3,5x4,8	502310	

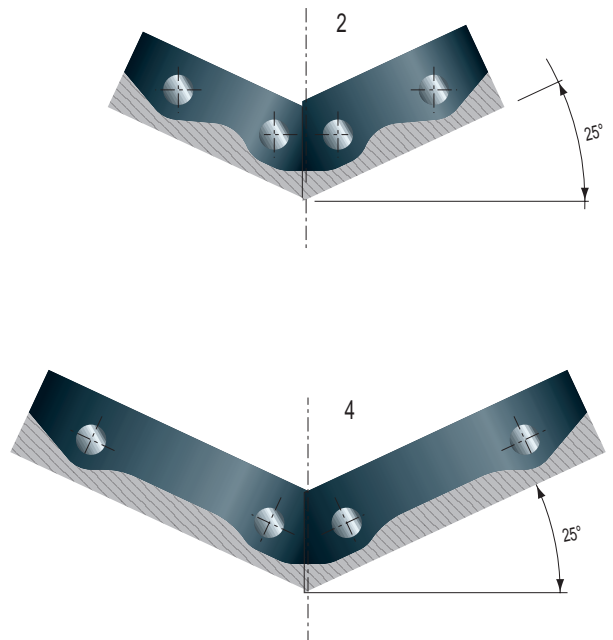
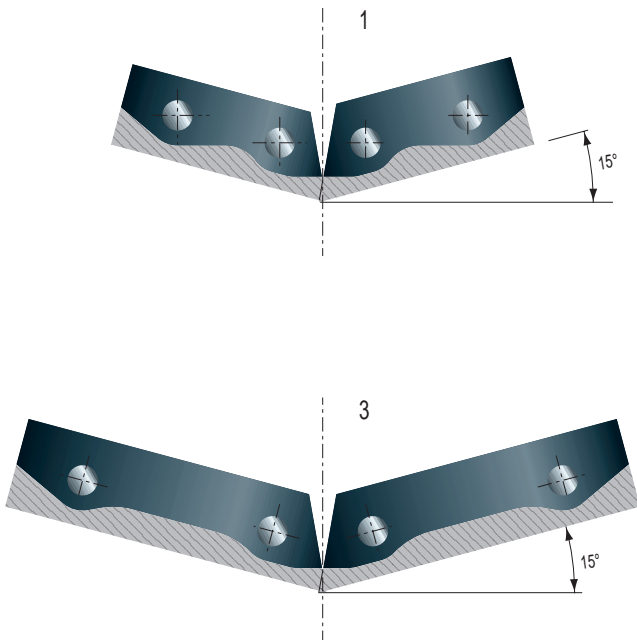
Art. Nr. 400405 T15 €

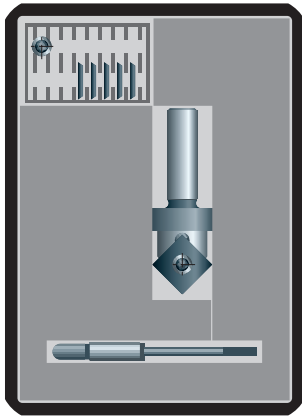
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Scala/Scale/Mass 1:1

Zona profilabile
Profiling area
Profilierbare Zone

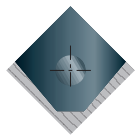




La punta viene fornita con coltellino reversibile di tipo 1, mentre gli altri profili 2-3-4-5 sono a richiesta. Disponibile anche in set composto dalla serie completa dei 5 coltelli, chiave di servizio e vite di ricambio. Profili speciali possono essere forniti a richiesta.

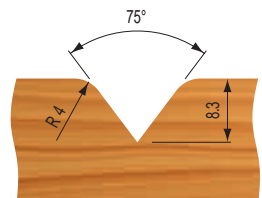
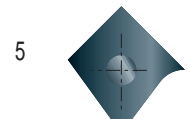
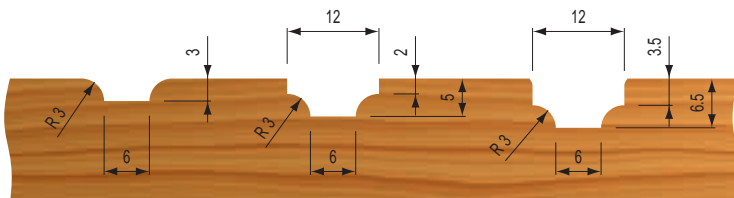
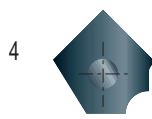
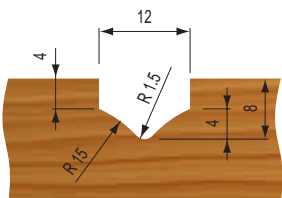
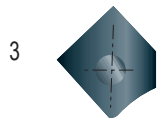
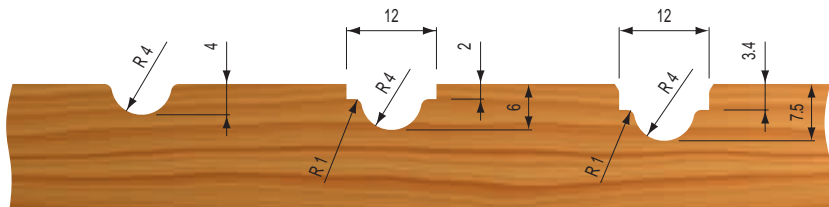
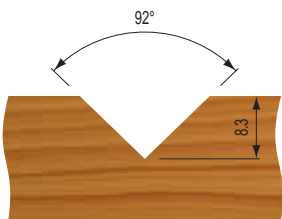
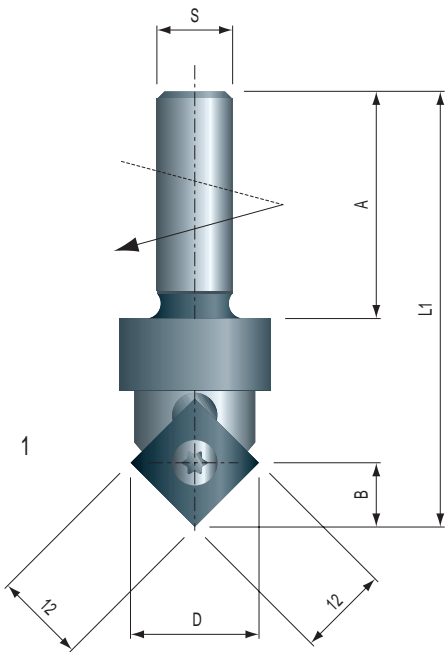
This router can be supplied single, equipped with profile n. 1 or in a set including the profiled knives 2-3-4-5, a servicing key and a spare fastening screw. On request, other profiles can be obtained inside the shaded area.

Wir liefern dieses Werkzeug lose, montiert mit Profil 1, oder als Set komplett mit Messern 2,3,4,5, inkl. Schlüssel und Ersatzschraube. Auf Anfrage fertigen wir auch Sonderprofile.



Scala/Scale/Mass 1:1

Zona profilabile
Profiling area
Profilierbare Zone



Art. Nr.	D (mm)	B (mm)	L1 (mm)	SxA (mm)	Z	€
●PH22FM01C10	17	8,5	58	10x30	1	

Set in cassetta Set in box	Art. Nr.	€
	●PH22FM1001	

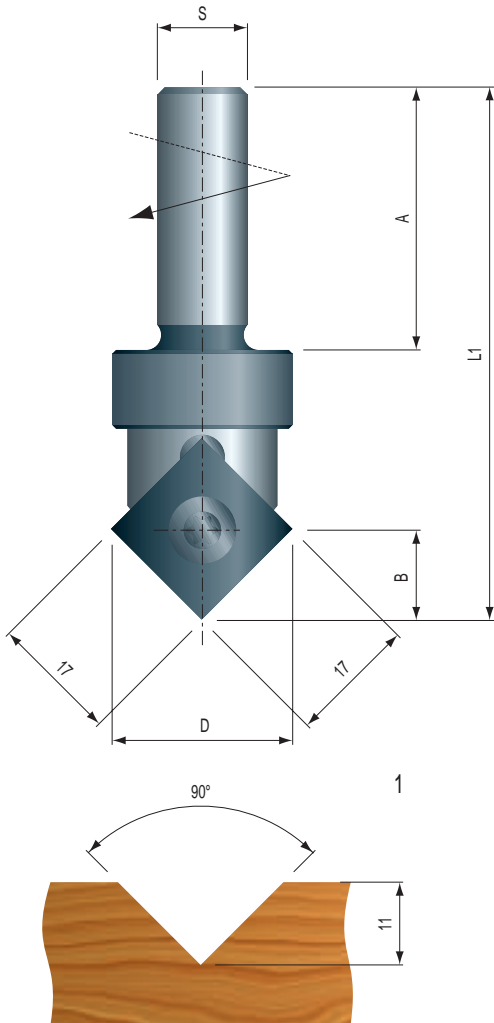
Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	12x12x1,5	600002	
2	12x12x1,5	604103	
3	12x12x1,5	604105	
4	12x12x1,5	604107	
5	12x12x1,5	604109	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 3,5x4,8	502310	

Art. Nr. 400405 T15 €

PUNTA SAGOMATA PER PICCOLE PROFILATURE
DISPOSABLE KNIFE ROUTER FOR SMALL PROFILES
WENDEPLATTEN-ZIERNUTFRÄSER

PH22FM
HW Z=1



La punta viene fornita con coltellino reversibile di tipo 1, mentre gli altri profili 2-3-4 sono a richiesta.

Profili speciali possono essere forniti a richiesta


This router is supplied equipped with profile n. 1, while the other standard knives 2-3-4 can be provided on request.


Other profiles, obtained inside the shaded area, can also be supplied.

Wir liefern dieses Werkzeug lose mit Messer 1, Profile 2, 3 und 4 k nnen einzeln nachbestellt werden.

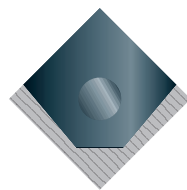
Sonderprofile k nnen auf Anfrage gefertigt werden.

Art. Nr.	D (mm)	B (mm)	L1 (mm)	SxA (mm)	Z	€
●PH22FM02C12	24	12	76	12x40	1	

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
	17x17x2	600023	
	2	17x17x2	604111
	3	17x17x2	604112
	4	17x17x2	604113

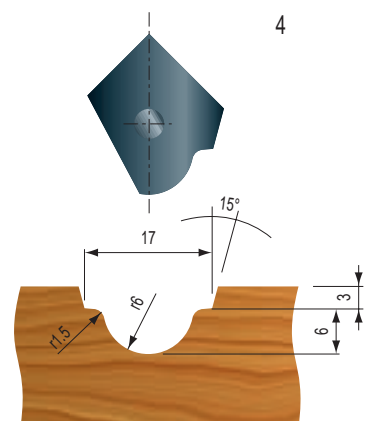
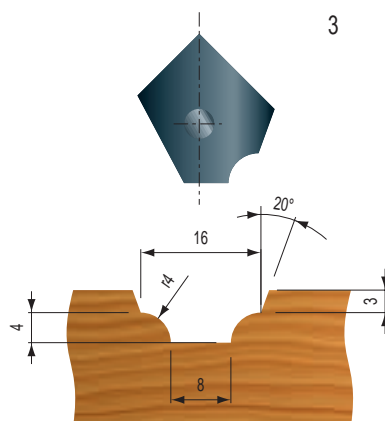
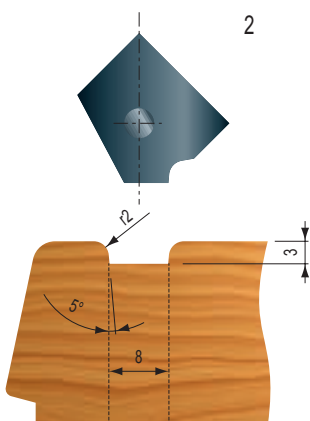
Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
 M 4x6	502306	

 Art. Nr. 400405 T15 €

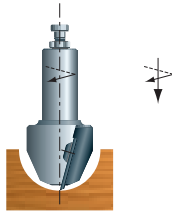


Scala/Scale/Mass 1:1

Zona profilabile
Profiling area
Profilierbare Zone



PK01 PK02 PUNTE CON COLTELLI PROFILATI
 DISPOSABLE PROFILED KNIFE ROUTER
 HW Z=1 WECHSELPLATTEN-PROFILFRÄSER



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK01FM	22	18	1	
2	●PK02FM	29	21	1	

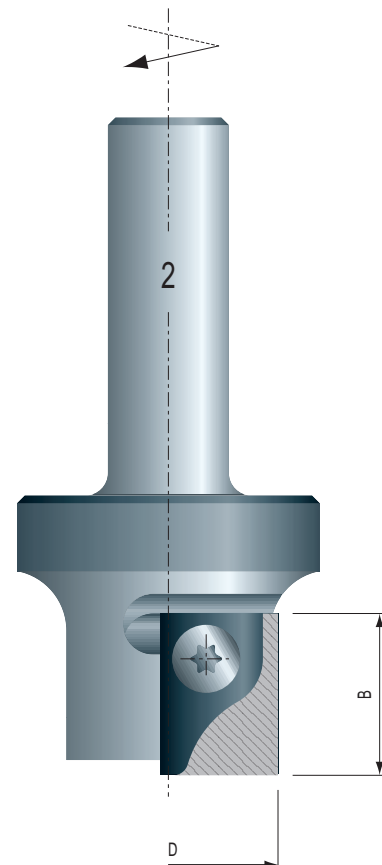
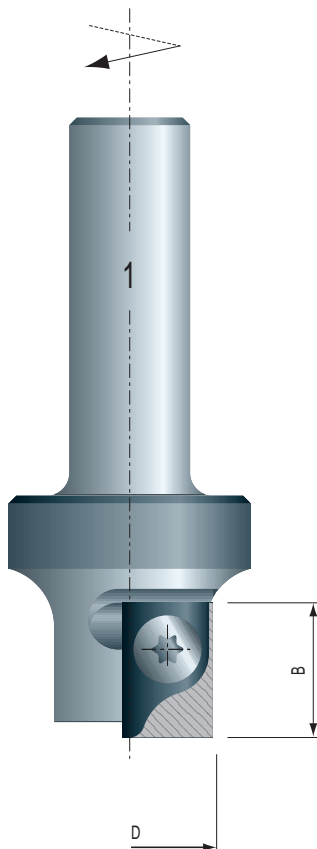
Attacco • Shank • Schaft

∅ 12x40 ∅ 16x50

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	18x12x1,5	CS1001	
2	22x16x1,5	CS1002	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

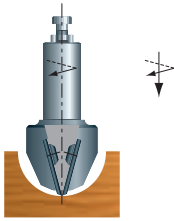
Art. Nr. 400405 T15 €



Scala/Scale/Mass 1:1

Zona profilabile
 Profiling area
 Profilierbare Zone

PUNTE CON COLTELLI PROFILATI PK03 PK04
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER
HW Z=2



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK03FM	30	21	2	
2	●PK04FM	43	15	2	

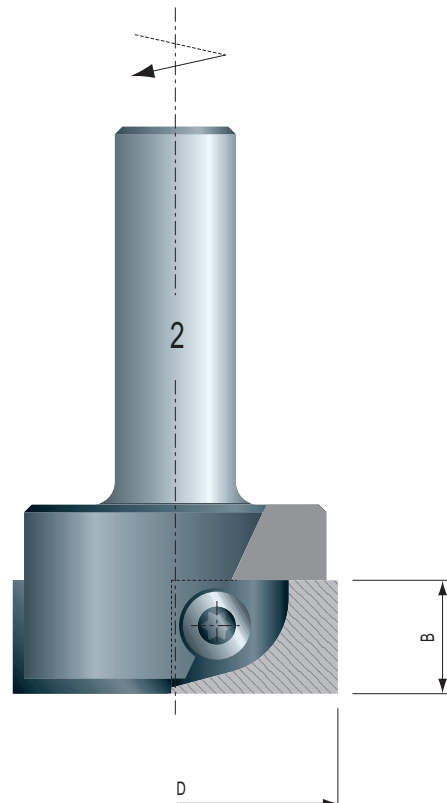
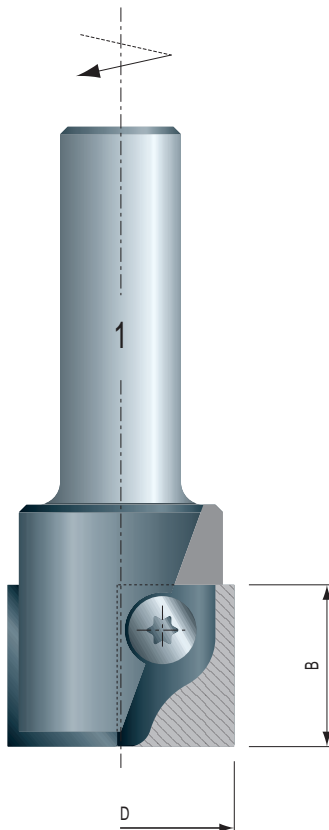
Attacco • Shank • Schaft

∅ 12x40 ∅ 16x50

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	22x16x1,5	CS1002	
2	16x22x1,5	CS1002	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

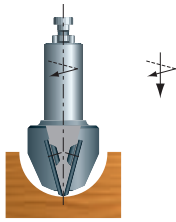


Scala/Scale/Mass 1:1

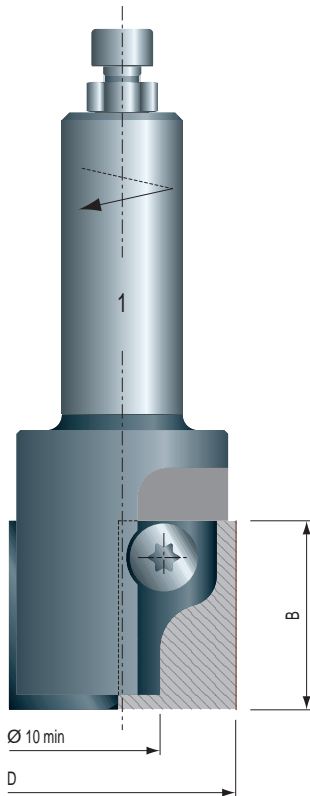
 Zona profilabile
Profiling area
Profilierbare Zone

PK20 PK21 HW Z=2

PUNTE CON COLTELLI PROFILATI CNC PROFILFRÄSER-WECHSELPLATTEN CNC ROUTER CUTTER WITH PROFILED KNIVES



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	PK20AM	30	25	2	
2	PK21FM	54	25	2	
3	●PK21AM	54	30	2	
4	PK21BM	54	40	2	



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	25x16x2	CS1030	
2	25x30x2	CS1031	
3	30x30x2	CS1032	
4	40x30x2	CS1033	

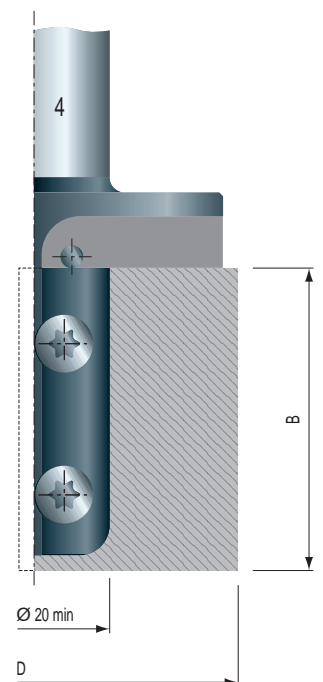
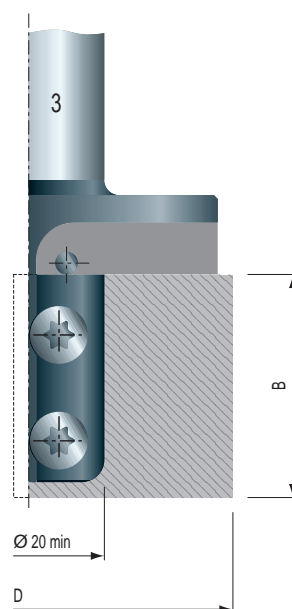
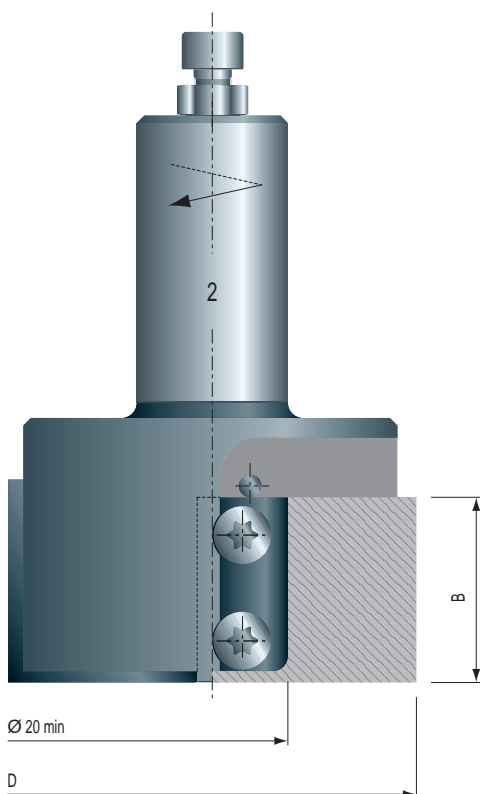
Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x6	502301	

Art. Nr. 400405 T15 €

Attacco • Shank • Schaft

Ø 16x50 Ø 20x55 Ø 25x55

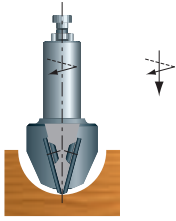
Scala/Scale/Mass 1:1



PUNTE CON COLTELLI PROFILATI
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER

PK07 PK08

HW Z=2



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK07FM	42	24	2	
2	PK08FM	52	18	2	

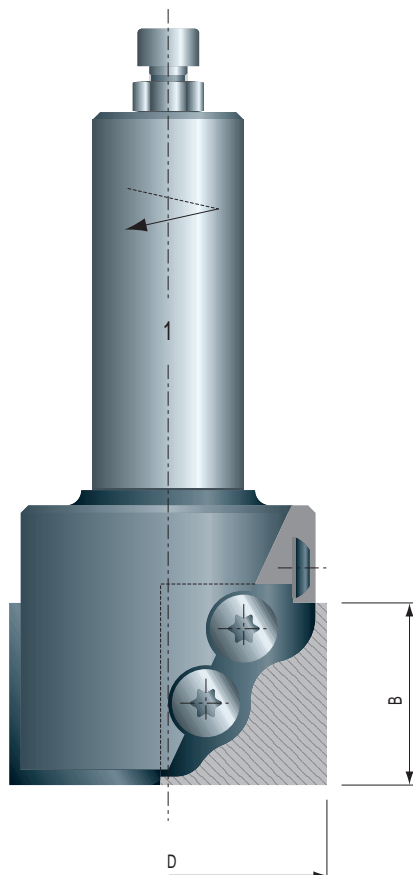
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	27x22x1,5	CS1005	
2	22x27x1,5	CS1005	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

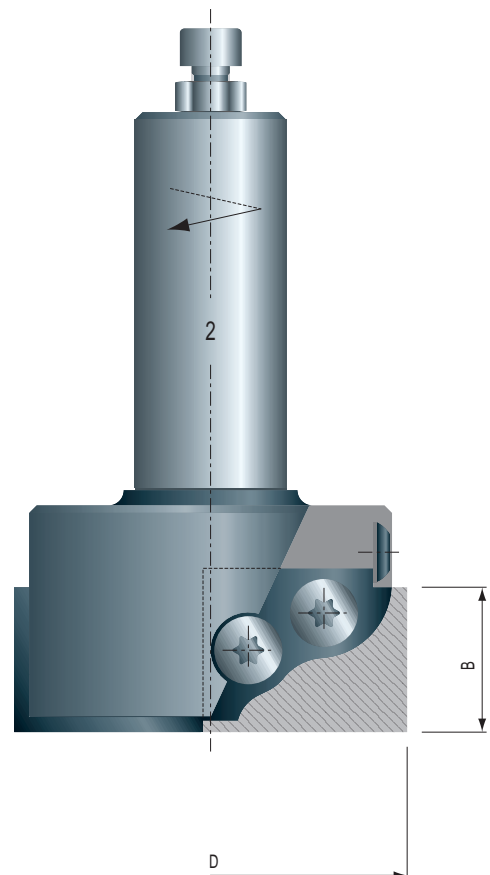
Art. Nr. 400405 T15 €



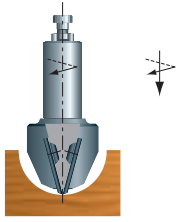
Scala/Scale/Mass 1:1



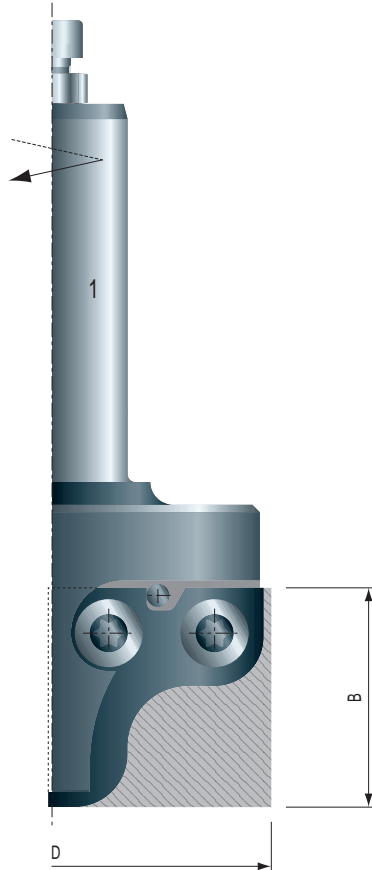
Zona profilabile
Profiling area
Profilierbare Zone



PK09 PK10 PUNTE CON COLTELLI PROFILATI
PK11 HW Z=2 DISPOSABLE PROFILED KNIFE ROUTER
 WECHSELPLATTEN-PROFILFRÄSER



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK09AM	58	28	2	
2	PK10AM	68	28	2	
3	PK11AM	78	28	2	



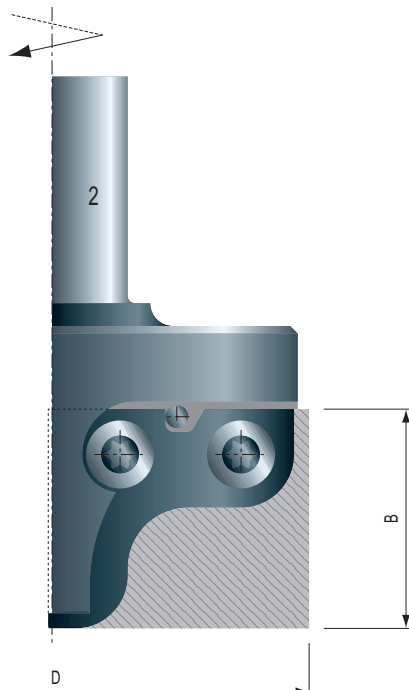
Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	30x30x2	CS1006	
2	30x35x2	CS1007	
3	30x40x2	CS1008	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

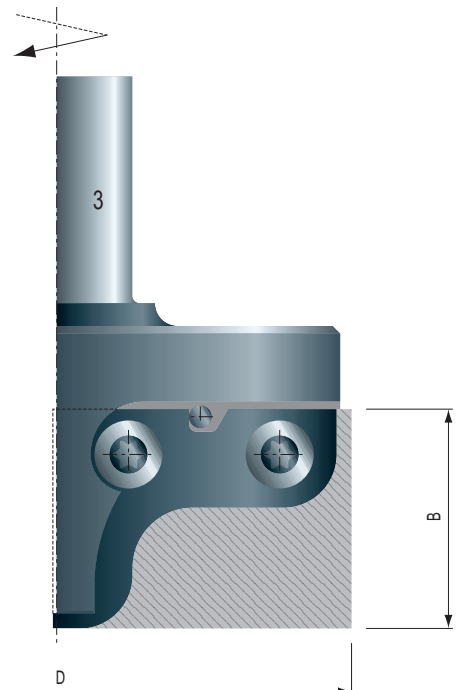
Attacco • Shank • Schaft

Ø 20x55 Ø 25x55



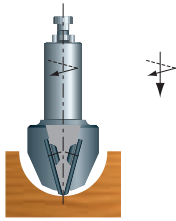
Scala/Scale/Mass 1:1

Zona profilabile
 Profiling area
 Profilierbare Zone

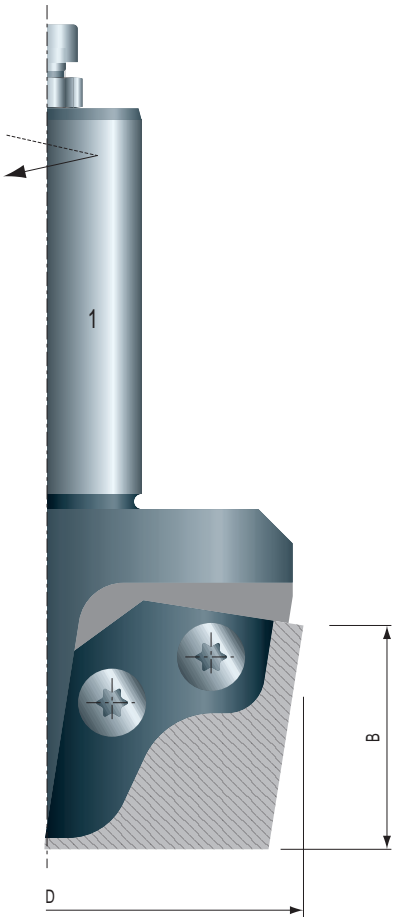


PUNTE CON COLTELLI PROFILATI
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER

PK12 PK13
PK14 HW Z=2



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK12AM	67	29	2	
2	PK13AM	78	28	2	
3	●PK14AM	90	32	2	
4	PK14BM	105	40	2	



Scala/Scale/Mass 1:1

Zona profilabile
Profiling area
Profilierbare Zone

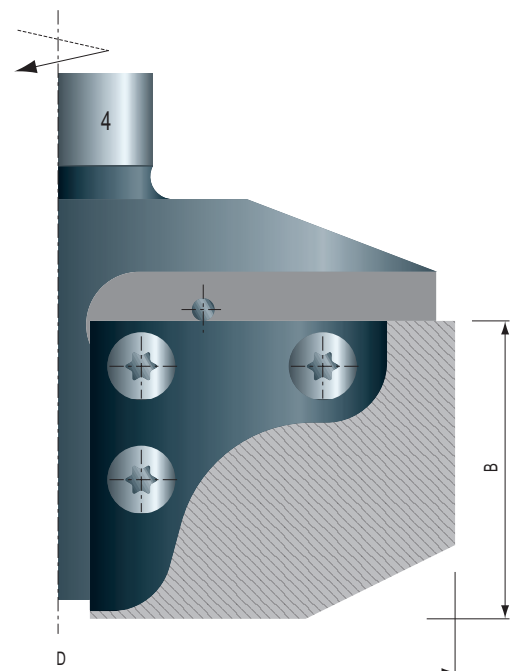
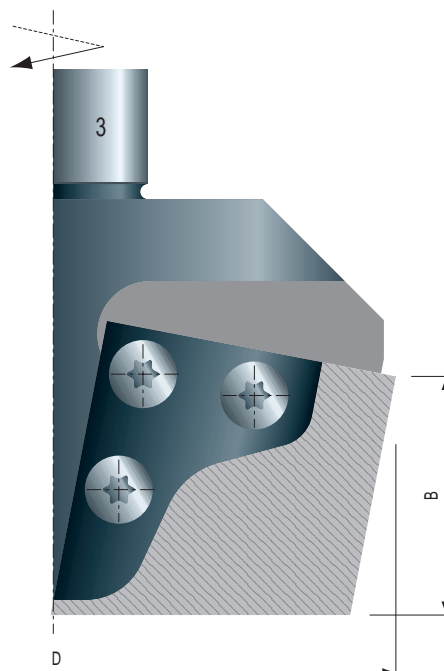
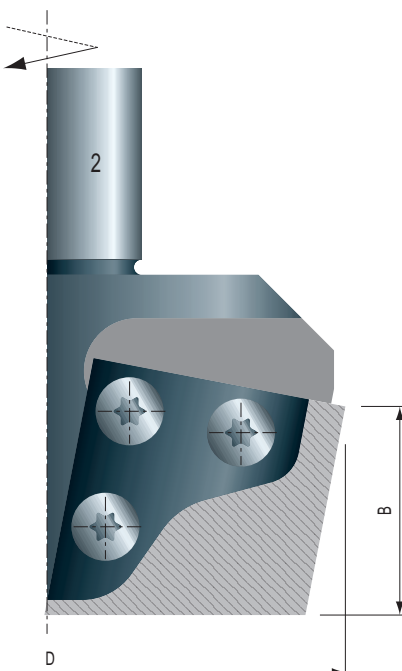
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	30x35x2	CS1023	
2	35x35x2	CS1009	
3	40x40x2	CS1011	
4	40x50x2	CS1012	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

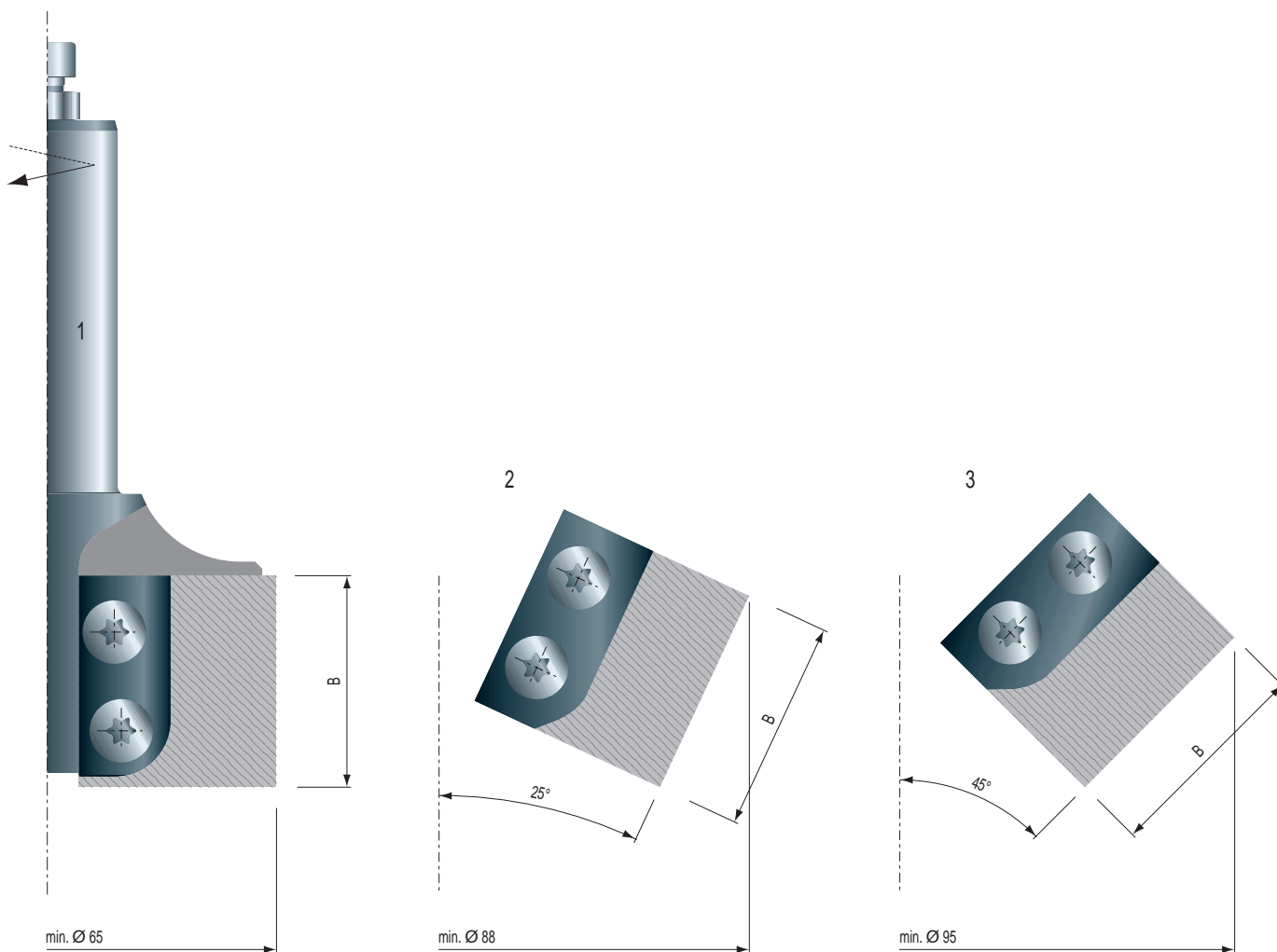


PK15 PK16 PUNTE CON COLTELLI PROFILATI DISPOSABLE PROFILED KNIFE ROUTER HW Z=2 WECHSELPLATTEN-PROFILFRÄSER

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

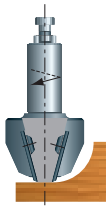
Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK15FM	65	30	2	
2	PK15AM	88	30	2	
3	PK15BM	95	30	2	
4	●PK16FM	65	35	2	
5	PK16AM	92	35	2	
6	PK16BM	100	35	2	



PUNTE CON COLTELLI PROFILATI
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER

PK15 PK16

HW Z=2

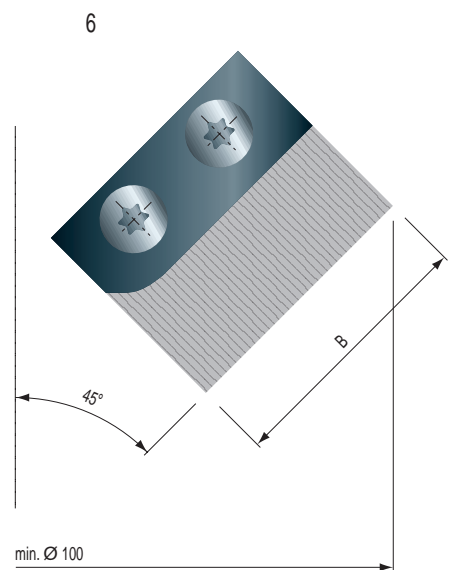
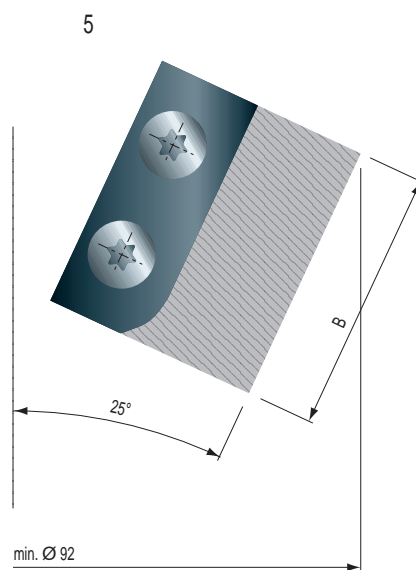
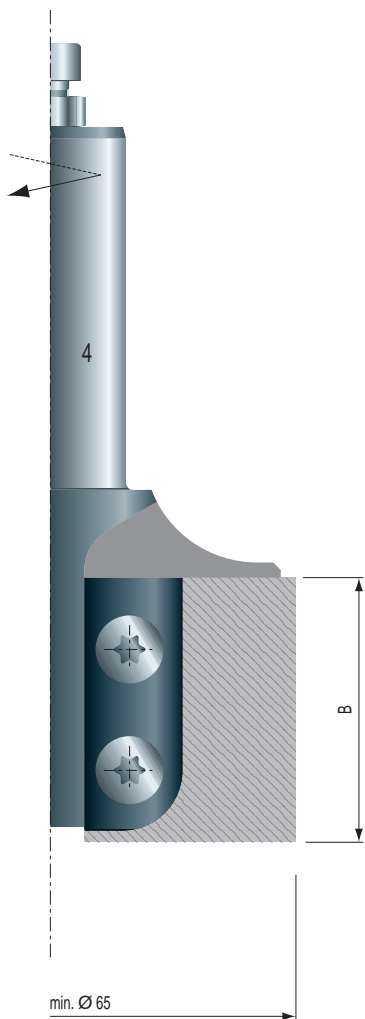


Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1-2-3	30x30x2	CS1018	
4-5-6	35x30x2	CS1019	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

Scala/Scale/Mass 1:1

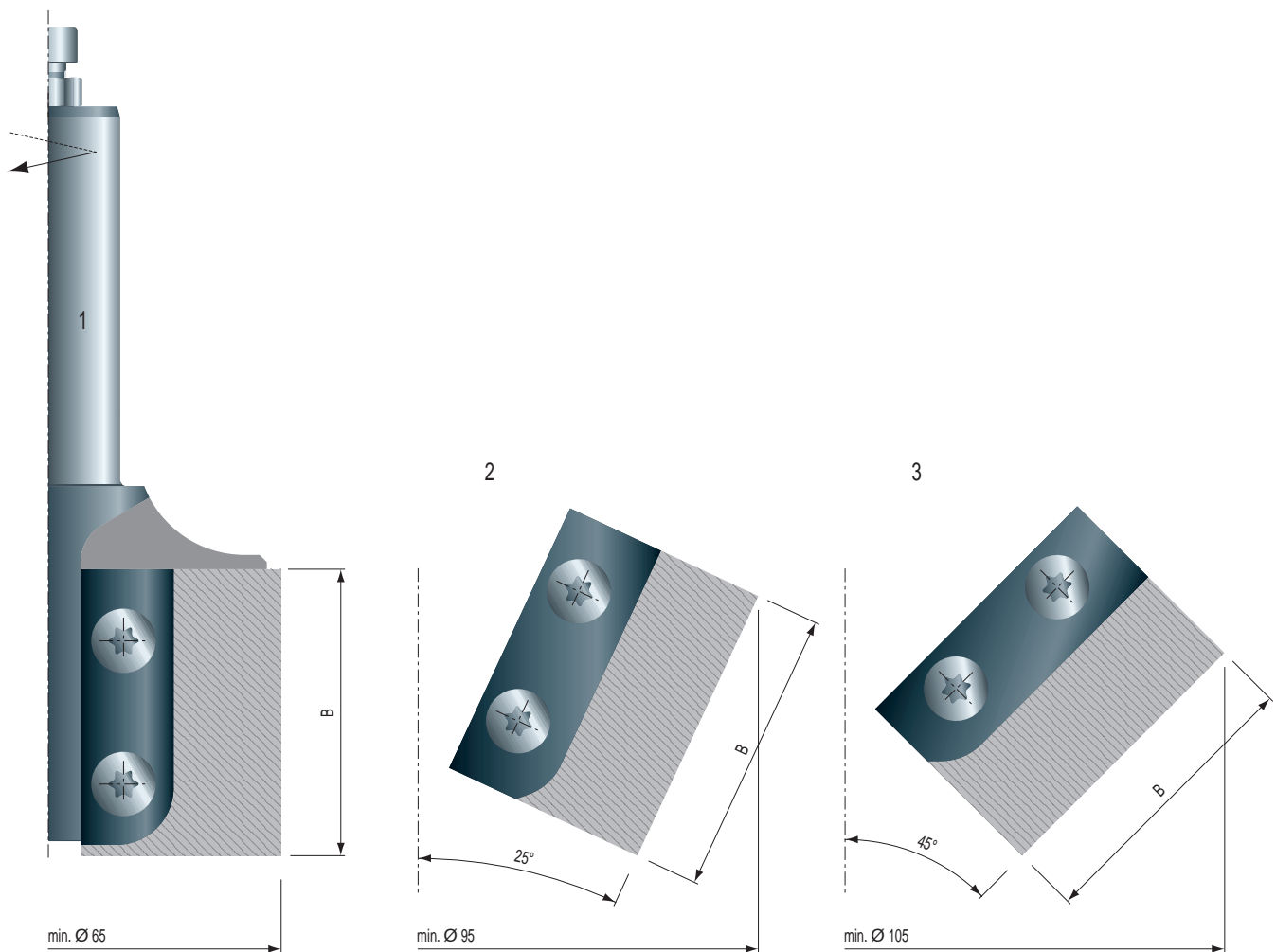


PK17 PK18 PUNTE CON COLTELLI PROFILATI DISPOSABLE PROFILED KNIFE ROUTER HW Z=2 WECHSELPLATTEN-PROFILFRÄSER

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

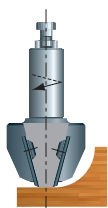
Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK17FM	65	40	2	
2	PK17AM	95	40	2	
3	PK17BM	105	40	2	
4	●PK18FM	65	50	2	
5	PK18AM	105	50	2	
6	PK18BM	120	50	2	



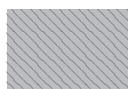
PUNTE CON COLTELLI PROFILATI
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER

PK17 PK18

HW Z=2



Scala/Scale/Mass 1:1

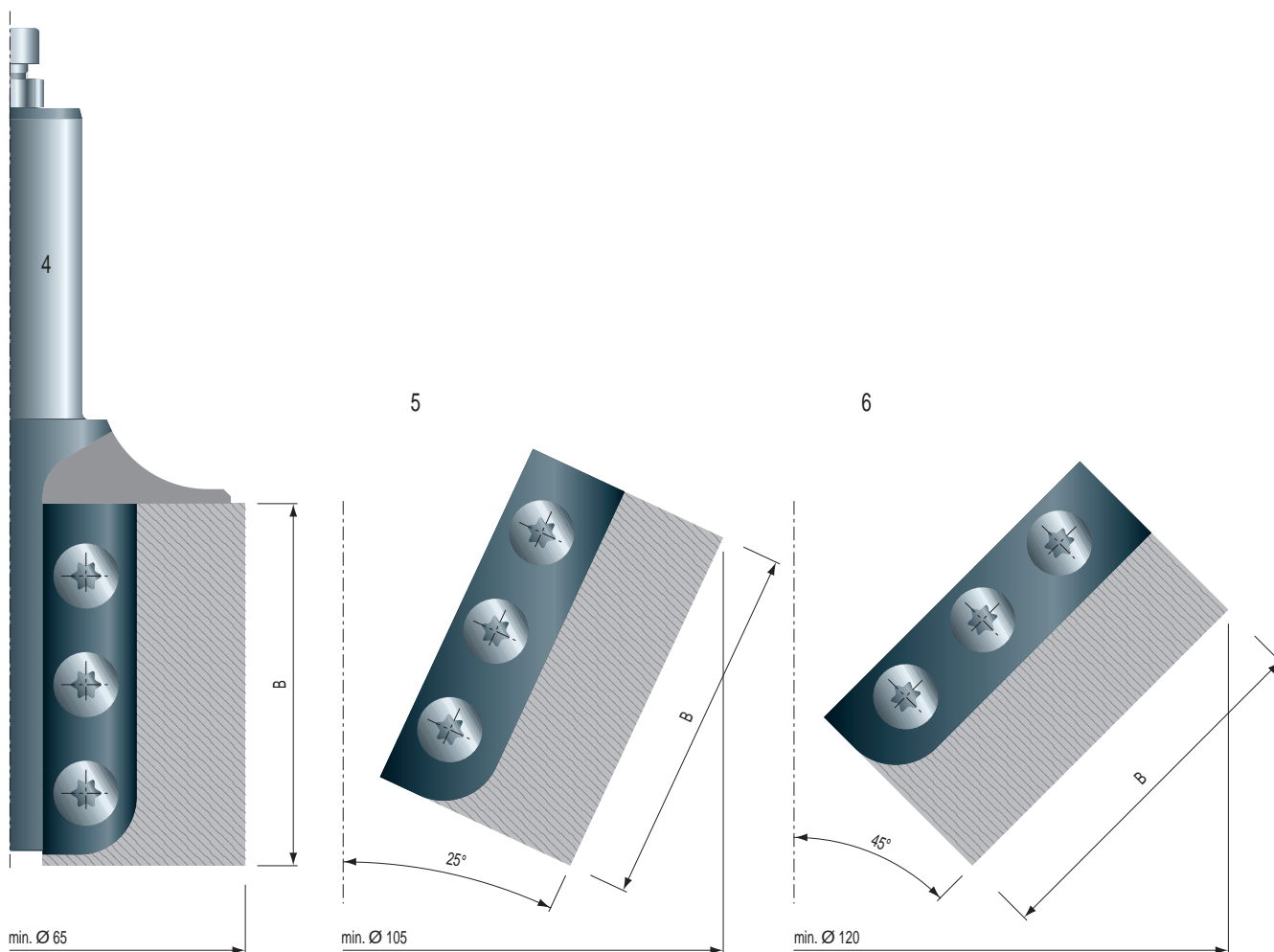


Zona profilabile
Profiling area
Profilierbare Zone

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1-2-3	40x30x2	CS1020	
4-5-6	50x30x2	CS1021	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €



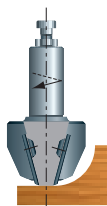
PK24 PK25 PK26
 PK27 PK28 HW Z=2

PUNTE CON COLTELLI PROFILATI
 DISPOSABLE PROFILED KNIFE ROUTER
 WECHSELPLATTEN-PROFILFRÄSER

Attacco • Shank • Schaft

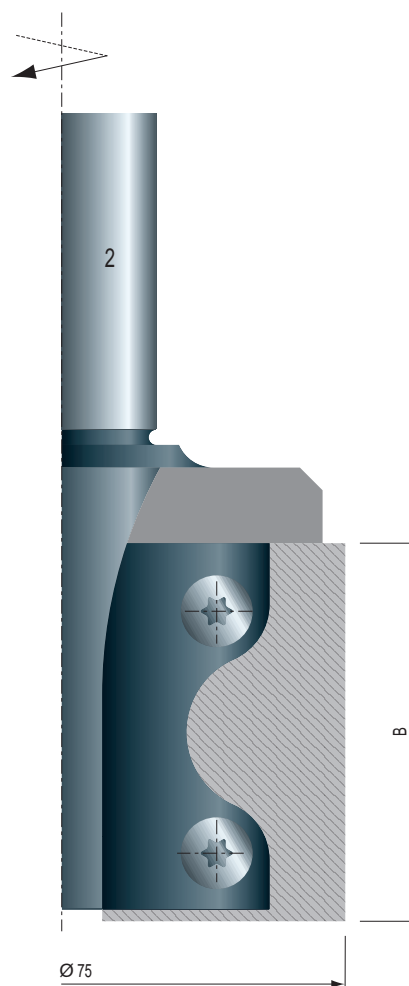
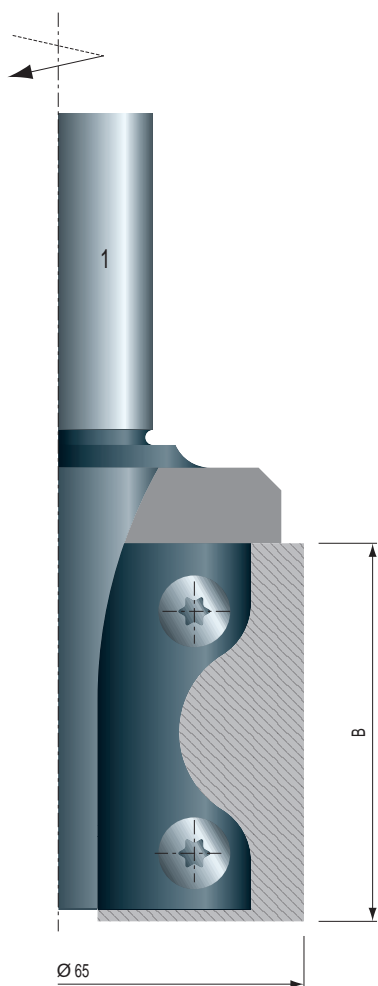
∅ 20x55 ∅ 25x55

Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	PK24FM	65	50	2	
2	PK25FM	75	50	2	
3	PK26FM	65	60	2	
4	PK27FM	75	60	2	
5	PK28FM	75	80	2	



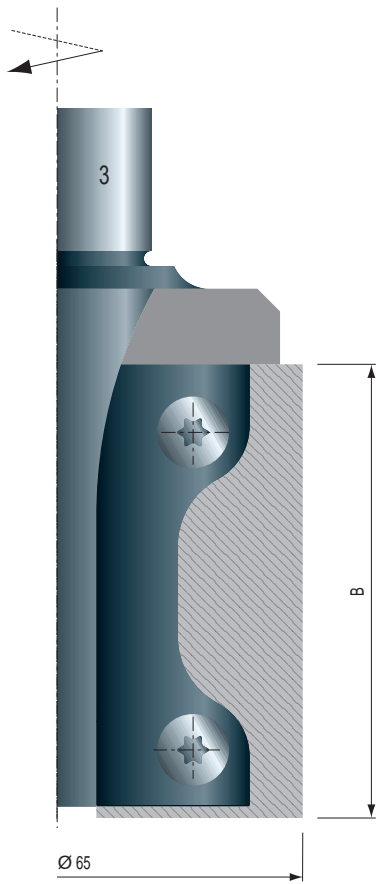
Scala/Scale/Mass 1:1

 Zona profilabile
 Profiling area
 Profilierbare Zone



PUNTE CON COLTELLI PROFILATI
DISPOSABLE PROFILED KNIFE ROUTER
WECHSELPLATTEN-PROFILFRÄSER

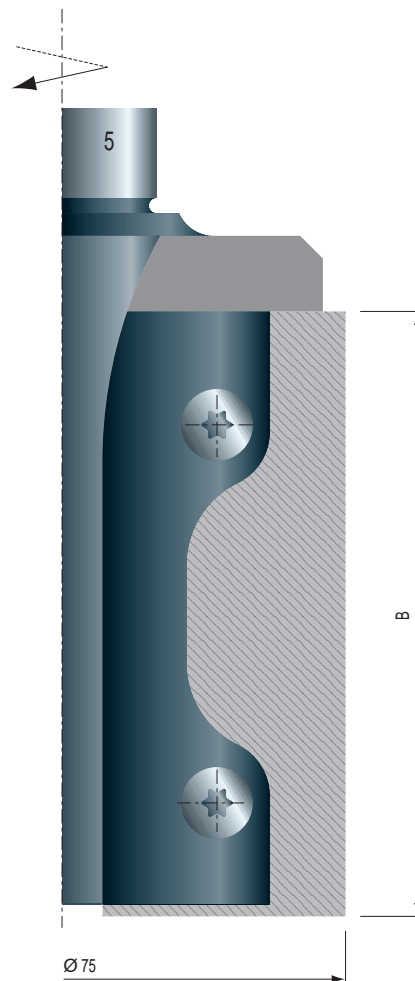
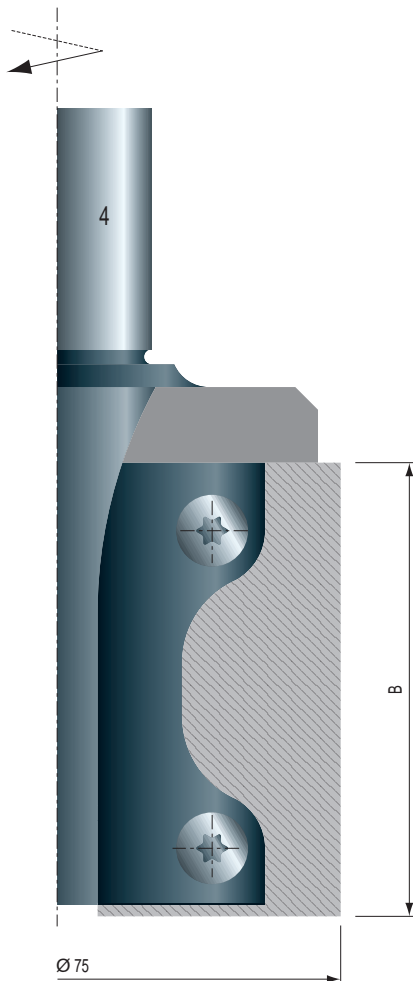
PK24 PK25 PK26
HW Z=2 PK27 PK28



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	50x29x2	CS1013	
2	50x34x2	CS1014	
3	60x29x2	CS1015	
4	60x34x2	CS1016	
5	80x35x2	CS1017	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 5x8	502315	

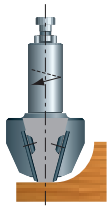
T Art. Nr. 400420 T20 €



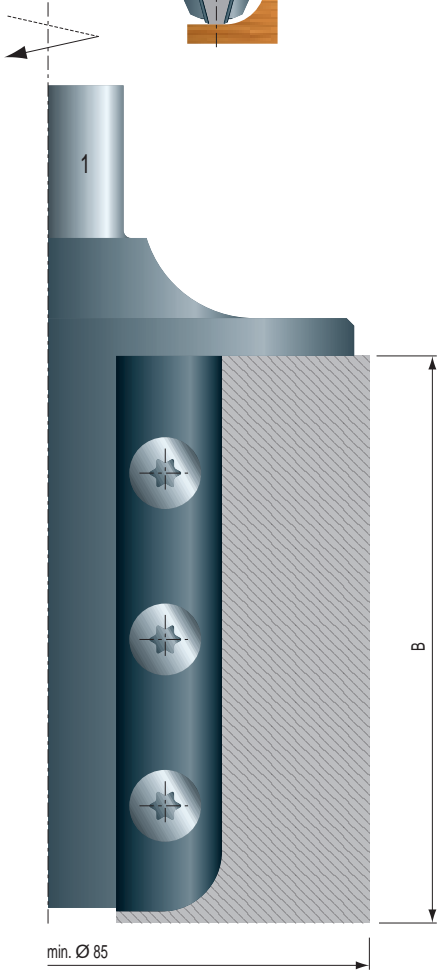
PK19

HW Z=2

PUNTE CON COLTELLI PROFILATI DISPOSABLE PROFILED KNIFE ROUTER WECHSELPLATTEN-PROFILFRÄSER



Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PK19FM	85	75	2	
2	PK19AM	135	75	2	
3	PK19BM	160	75	2	



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	75x35x2	CS1022	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 5x8	502305	

Art. Nr. 400420 T20 €

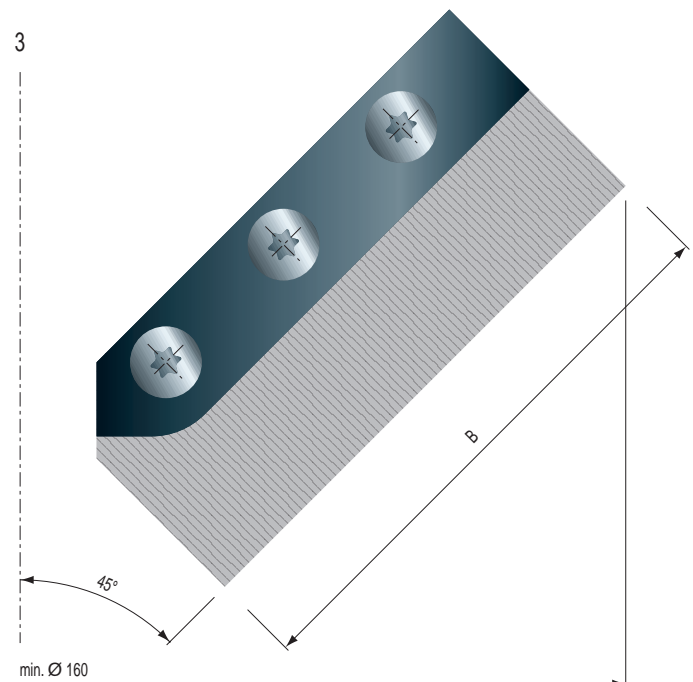
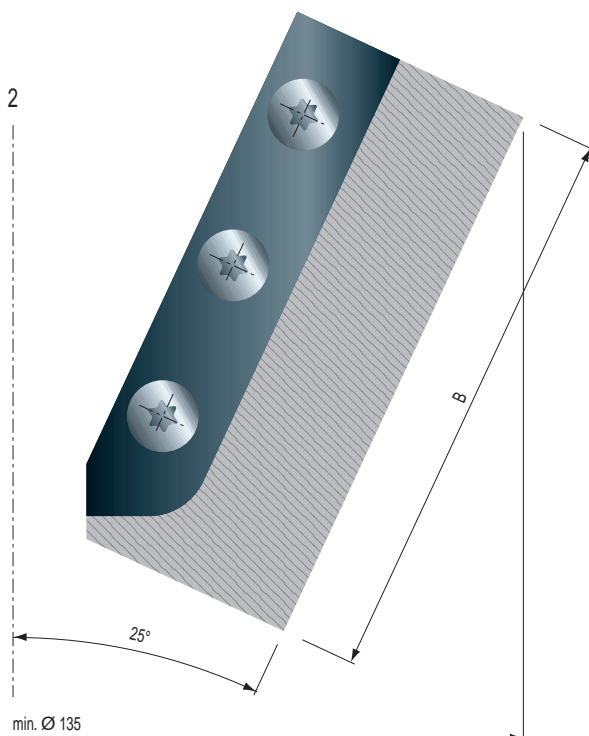
Scala/Scale/Mass 1:1

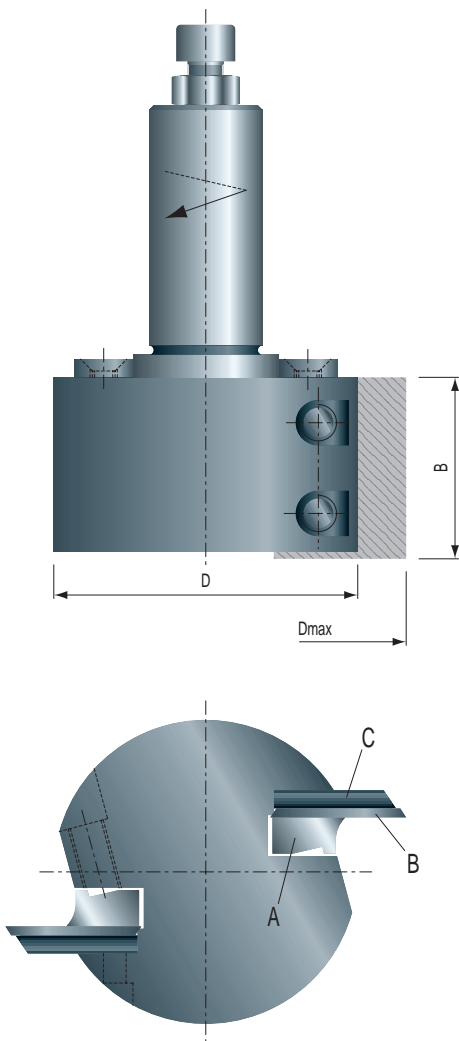


Zona profilabile
Profiling area
Profilierbare Zone

Attacco • Shank • Schaft

Ø 20x55 Ø 25x55





Tassello
A = Wedge
Spannbacken

Cottello
B = Knife
Messer

Controcottello
C = Backing plate
Stützplatte

Indicata per realizzare diversi profili.

La punta impiega coltelli in HW da 2 mm di spessore e controcoltelli in acciaio da 4 mm di spessore.

Suitable for manufacturing a great variety of different profiles, this router fits 2 HW knives of 2 mm thickness with 2 steel backing plates of 4 mm thickness.

Geeignet für die Aufnahme von einer Vielzahl unterschiedlicher Profile. Bestehend aus 2 HW-Messern 2 mm dick und 2 Stützplatten 4 mm dick.

Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PH44FM01	67	40	2	
2	●PH44FM02	67	50	2	
3	●PH44FM03	67	60	2	

Corpo utensile senza coltelli e controcoltelli (vedi pag. 86)

Router excluding knives and backing plates (please turn to page 86)

Werkzeugträger ohne Messer und Stützplatten (siehe Seite 86)

Ricambi
Spare parts
Ersatzteile

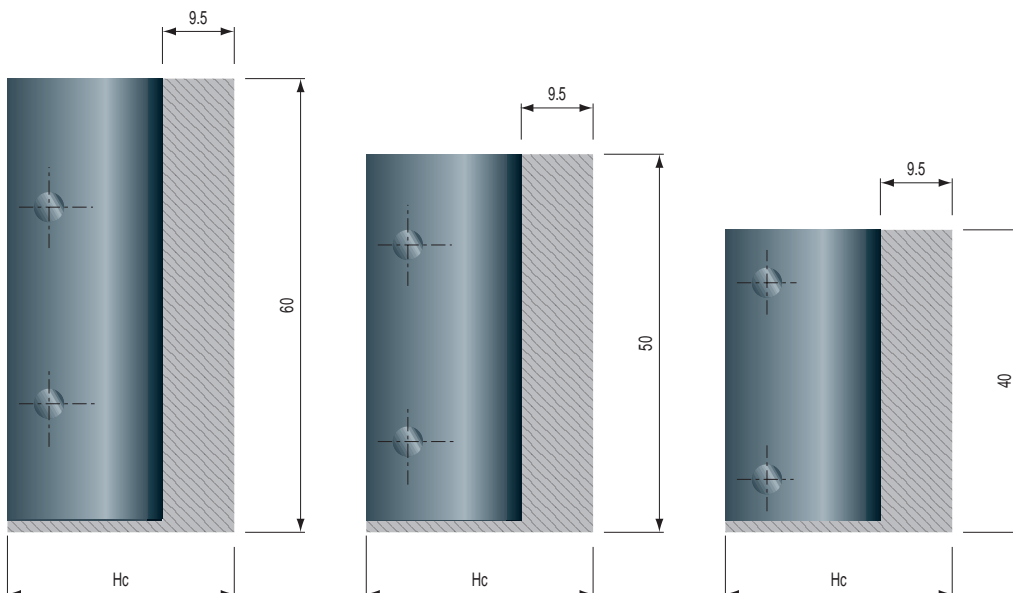


Type (A)	1	2	3	1-2-3
Art. Nr.	303017	303016	303015	501403
Dimensioni Dimensions Abmessungen	37	47	57	M 8x16
€ pz./pc./St.				

Art. Nr. 400003 mm 4 €

Attacco • Shank • Schaft

Ø 20x55 Ø 25x55



Hc (mm)	D max (mm)
30	90

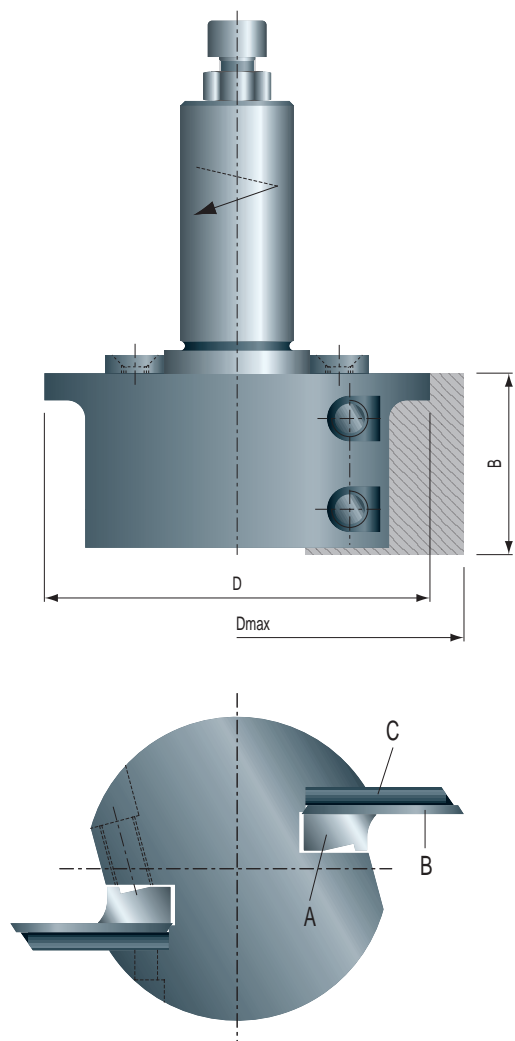
Scala/Scale/Mass 1:1

Zona profilabile
Profiling area
Profilierbare Zone

PH46FM

HW Z=2

PUNTA PORTACOLTELLI PROFILATI-MULTIPROFILER MULTIPROFILE ROUTER WECHSELPLATTEN-MULTIPROFILER



Indicata per realizzare diversi profili.

La punta impiega coltelli in HW da 2 mm di spessore e controcoltelli in acciaio da 4 mm di spessore.

Suitable for manufacturing a great variety of different profiles, this router fits 2 HW knives of 2 mm thickness with 2 steel backing plates of 4 mm thickness.

Geeignet für die Aufnahme von einer Vielzahl unterschiedlicher Profile. Bestehend aus 2 HW-Messern 2 mm dick und 2 Stützplatten 4 mm dick.

Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PH46FM01	85	40	2	
2	●PH46FM02	85	50	2	
3	●PH46FM03	85	60	2	

Corpo utensile senza coltelli e controcoltelli (vedi pag. 86)

Router excluding knives and backing plates (please turn to page 86)

Werkzeugträger ohne Messer und Stützplatten (siehe Seite 86)

Ricambi
Spare parts
Ersatzteile



Type (A)	1	2	3	1-2-3
Art. Nr.	303017	303016	303015	501403
Dimensioni Dimensions Abmessungen	37	47	57	M 8x16

€ pz./pc./St.



Art. Nr. 400003 mm 4 €

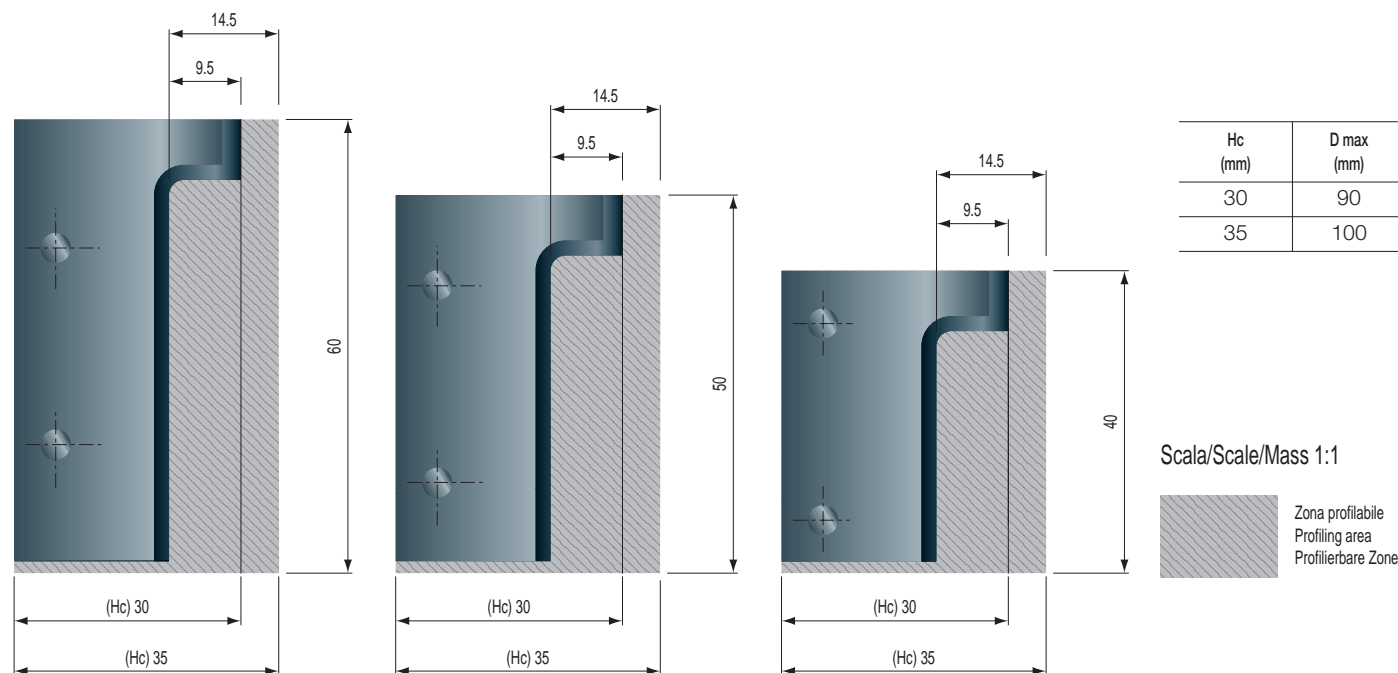
Tassello
A = Wedge
Spannbacken

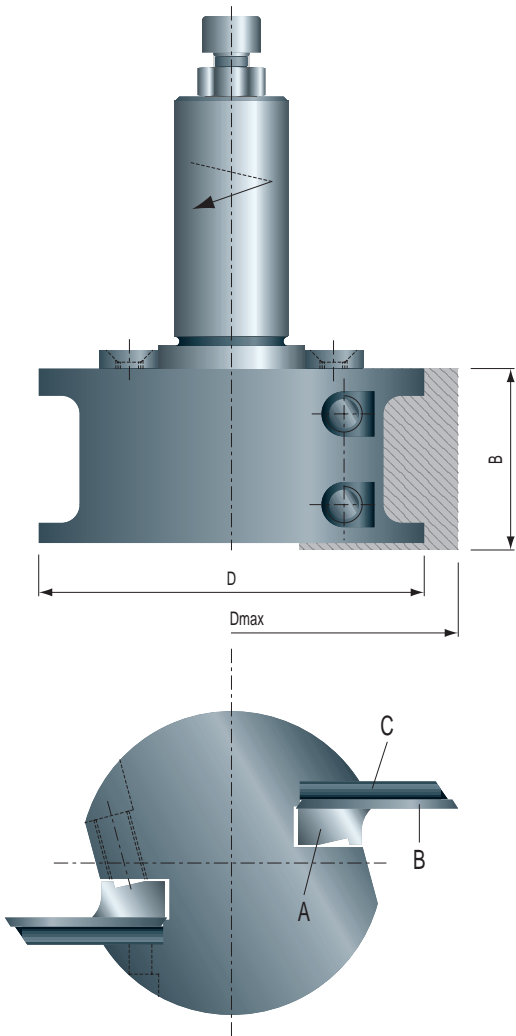
Cottello
B = Knife
Messer

Controcoltello
C = Backing plate
Stützplatte

Attacco • Shank • Schaft

Ø 20x55 Ø 25x55





Indicata per realizzare diversi profili.

La punta impiega coltelli in HW da 2 mm di spessore e controcoltelli in acciaio da 4 mm di spessore.

Suitable for manufacturing a great variety of different profiles, this router fits 2 HW knives of 2 mm thickness with 2 steel backing plates of 4 mm thickness.

Geeignet für die Aufnahme von einer Vielzahl unterschiedlicher Profile. Bestehend aus 2 HW-Messern 2 mm dick und 2 Stützplatten 4 mm dick.

Type	Art. Nr.	D (mm)	B (mm)	Z	€
1	●PH45FM01	85	40	2	
2	●PH45FM02	85	50	2	
3	●PH45FM03	85	60	2	

Corpo utensile senza coltelli e controcoltelli (vedi pag. 86)

Router excluding knives and backing plates (please turn to page 86)

Werkzeugträger ohne Messer und Stützplatten (siehe Seite 86)

Ricambi Spare parts Ersatzteile				
Type (A)	1	2	3	1-2-3
Art. Nr.	303017	303016	303015	501403
Dimensioni Dimensions Abmessungen	37	47	57	M 8x16
€ pz./pc./St.				

Art. Nr. 400003 mm 4 €

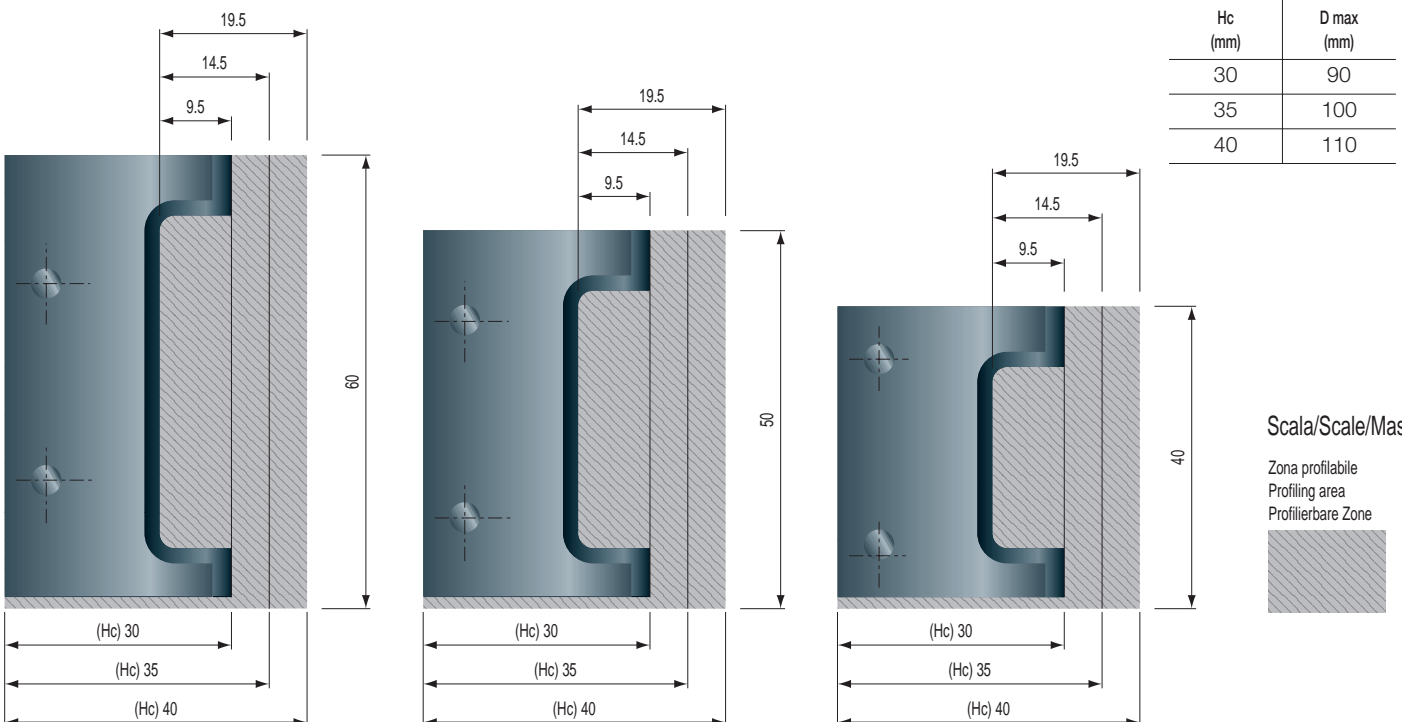
Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

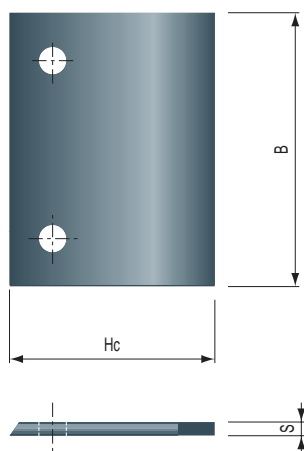
Tassello
A = Wedge
Spannbacken

Cottello
B = Knife
Messer

Controcoltello
C = Backing plate
Stützplatte



COLTELLI E CONTROCOTELLI PROFILATI PER PUNTE MULTIPROFILER
BLANK AND PROFILED KNIVES AND BACKING PLATES FOR MULTIPROFILE ROUTER
MESSER UND STÜTZPLATTEN BLANKETTS UND PROFILIERT FÜR MULTIPROFILER

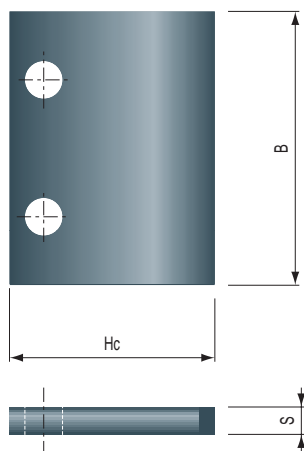


Dimensioni Dimensions Abmessungen (BxHcxS)	Coltelli profilati HW HW Profiled knives HW Profilmesser		Coltelli grezzi HW HW Blank knives HW Blanketten	
	Art. Nr.	€	Art. Nr.	€
40x30x2	CS0116		R6130232533	
40x35x2	CS0117		R6130232543	
40x40x2	CS0118		R6130232733	
50x30x2	CS0120		R6130232553	
50x35x2	CS0121		R6130232743	
50x40x2	CS0122		R6130232753	
60x30x2	CS0125		R6130232703	
60x35x2	CS0126		R6130232713	
60x40x2	CS0127		R6130232763	

Coltelli profilati (min. 6 pz. per kit)

Profiled knives (kit min. 6 pcs.)

Profilmesser (Kit min. 6 Stück)

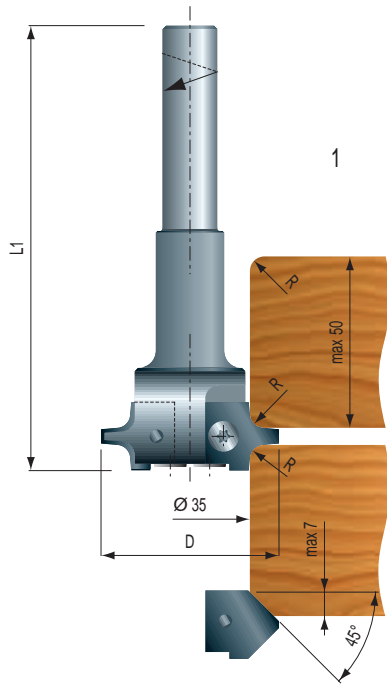


Dimensioni Dimensions Abmessungen (BxHcxS)	Controcotelli profilati Profiled backing plates Profilierte Stützplatten		Controcotelli grezzi Blank backing plates Rohe Stützplatten	
	Art. Nr.	€	Art. Nr.	€
39x28x4	CC0101		SCCG0101	
39x33x4	CC0102		SCCG0102	
39x38x4	CC0103		SCCG0103	
49x28x4	CC0104		SCCG0104	
49x33x4	CC0105		SCCG0105	
49x38x4	CC0106		SCCG0106	
59x28x4	CC0107		SCCG0107	
59x33x4	CC0108		SCCG0108	
59x38x4	CC0109		SCCG0109	

Controcotelli profilati (min. 2 pz. per kit)

Profiled backing plates (kit min. 2 pcs.)

Profilierte Stützplatten (Kit min. 2 Stück)



Le punte vengono fornite con coltelli intercambiabili con i profili indicati in tabella e da specificare in fase di ordine.
La punta 1 è indicata per lavorazioni standard, mentre la punta 2 permette raggiate più profonde.

These routers can be supplied equipped with any of the profiled knives listed. When order is placed, please indicate the type of knife required.
Router 1 is indicated for standard operations, while router 2 is suitable for deeper roundings.

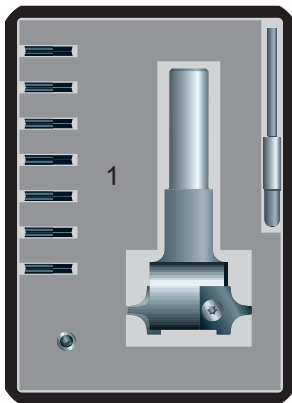
Der Messerträger kann mit jedem der gelisteten Messer geliefert werden. Bitte bei Bestellung angeben.
Der Messerträger 1 ist die Standardausführung, Messerträger 2 ist für tiefere Profile geeignet.

Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
1	●PH14FM01	52	20	110	2	
2	●PH14FM02	112	20	140	2	

Set in cassetta composto dalla punta 1 con coltello R=3, dai coltelli R=2-4-6-45°, dalla chiave e dalla vite di ricambio.

Set in box contains router n. 1 equipped with knife R=3, knives R=2-4-6-45°, a servicing key and a spare fastening screw.

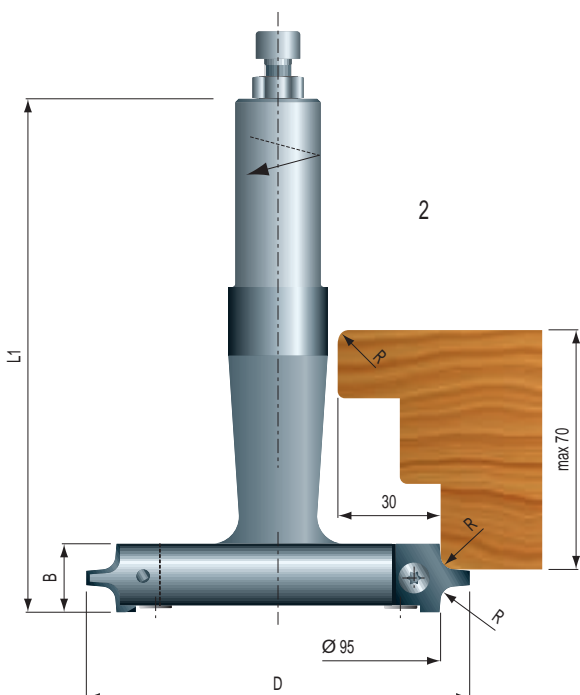
Set in Box inkl. Messerträger 1 mit Profilmesser R=3 mm und Messern R=2-4-6-45°, Ersatzschlüssel und Ersatzschraube.



Art. Nr.	€
●PH14FM1001	

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Ø 16x50 Ø 25x55



Profilo Profile Profil	Dimensioni Dimensions Abmessungen	Art. Nr.	€
R-2	20x23x2	601325	
R-3	20x23x2	601326	
R-4	20x23x2	601327	
R-5	20x23x2	601328	
R-6	20x23x2	601329	
R-7	20x23x2	601330	
R-8	20x23x2	601331	
45°	20x23x2	601332	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x6	502306	

Art. Nr. 400405 T15 €

PH12FM

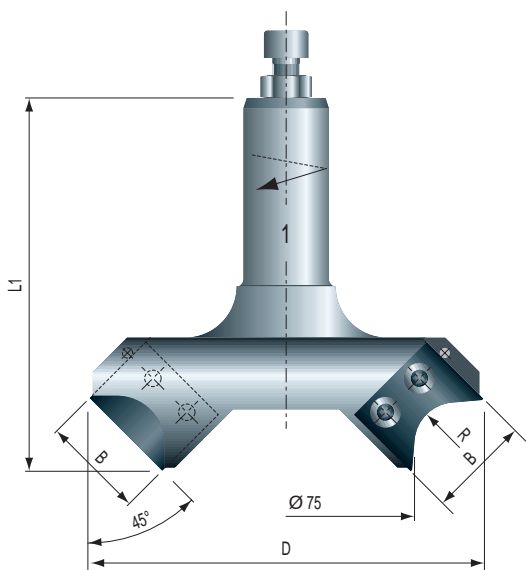
HW Z=2

PUNTE PER RAGGIARE E SMUSSARE DISPOSABLE KNIFE ROUTER FOR ROUNDING AND CHAMFERING WECHSELPLATTEN-ABRUND- UND FASEFRÄSER

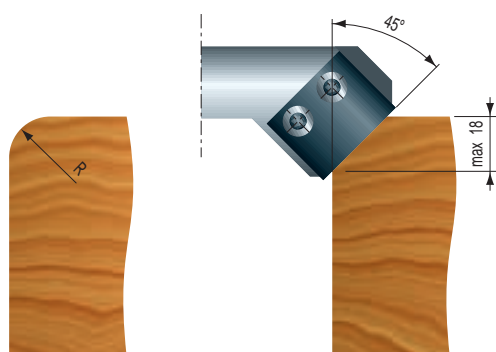
Le punte vengono fornite con coltelli intercambiabili con i profili indicati in tabella e da specificare in fase di ordine.

This router can be supplied equipped with any of the profiled knives listed. When order is placed, please indicate the type of knife required.

Der Messerträger kann mit jedem der gelisteten Messer geliefert werden. Bitte bei Bestellung angeben.



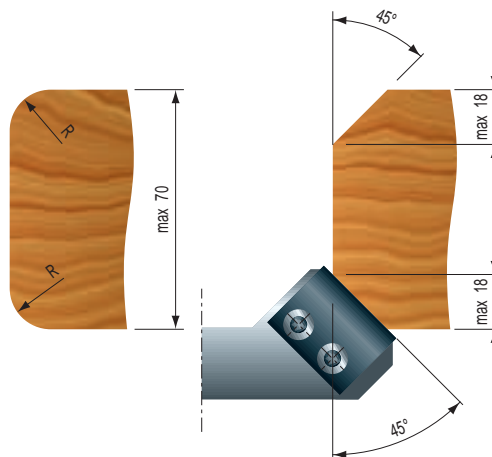
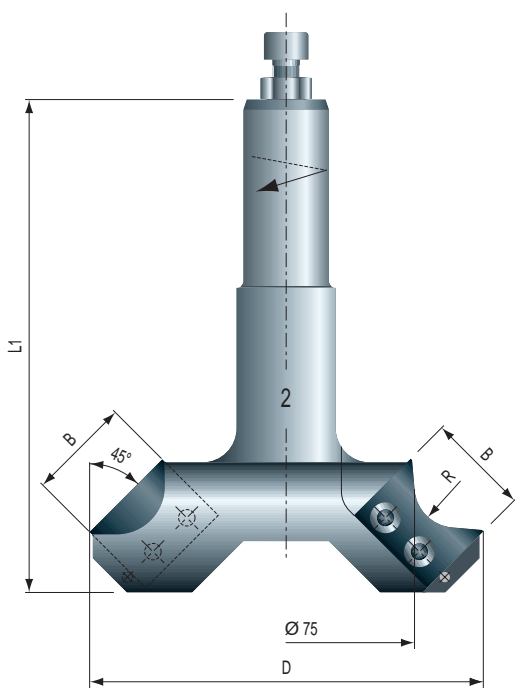
Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
1	●PH12FM01	115	30	109	2	
2	●PH12FM02	115	30	144	2	



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
R-12	30x23,5x2	601340	
R-15	30x23,5x2	601341	
R-20	30x24,3x2	601342	
45°	30x23x2	601343	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €



Attacco • Shank • Schaft

Ø 20x55 Ø 25x55

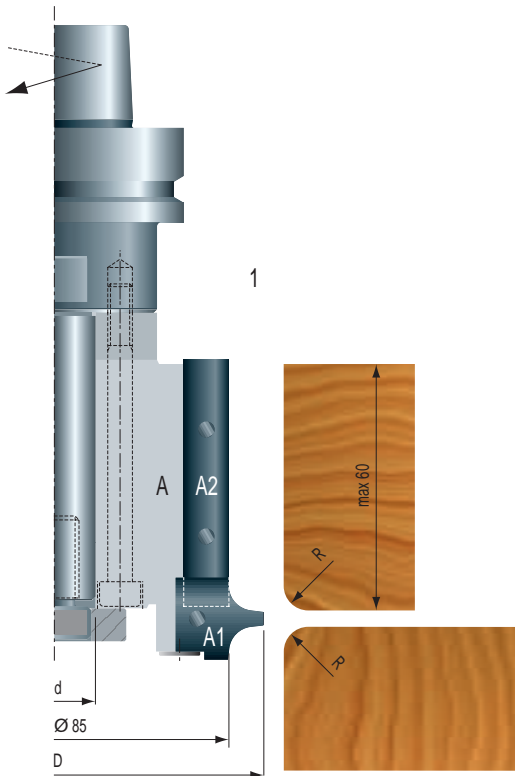
GRUPPO PER RAGGIARE E SMUSSARE
DISPOSABLE KNIFE ROUTER FOR REBATING, ROUNDING AND CHAMFERING
WECHSELPLATTEN-ABRUND-FASE-KOMBINATION


GP61FM10
HW Z=2 PH61FA

Gruppo completo di mandrino e utensile con corpo in alluminio per eseguire saggiature e smussature.
Fornito con coltello A2 e A1 con raggio o smusso a richiesta.

This router set is supplied complete with chuck and it is always equipped with straight disposable knives A2.
Knives A1 need to be selected when order is placed.

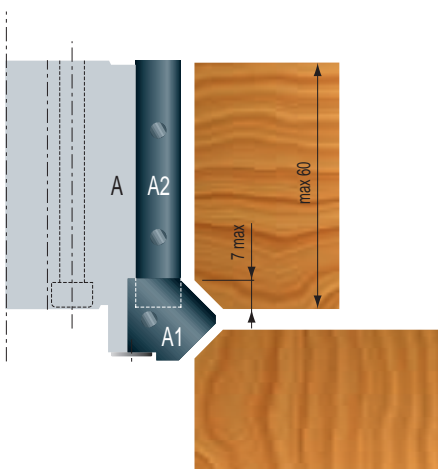
Diese Werkzeuggarnitur wird komplett montiert auf den jeweiligen Schaft geliefert. Die Messer A2 sind montiert, die jeweiligen Profilmesser A1 sind bei Bestellung anzugeben.







Set	Art. Nr.	D (mm)	d (mm)	Z		€
1	GP61FM1001	102	20	2+2	ISO 30	
	GP61FM1002	102	20	2+2	ISO 40	
	GP61FM1003	102	20	2+2	ISO 30/SCM	
	GP61FM1004	102	20	2+2	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	€
A	PH61FA01020	102	73	20	2+2	

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A1	R-2	20x23x2	601325
	R-3	20x23x2	601326
	R-4	20x23x2	601327
	R-5	20x23x2	601328
	R-6	20x23x2	601329
	R-7	20x23x2	601330
	R-8	20x23x2	601331
	45°	20x23x2	601332
A2	0	60x12x1,5	600007



Ricambi Spare parts Ersatzteile			
Type	A1	A2	
Art. Nr.	340006	340031	501403
Dimensioni Dimensions Abmessungen	15	56	M 8x16
€ pz./pc./St.			

 Art. Nr. 400114 mm 4 €

PH31FM

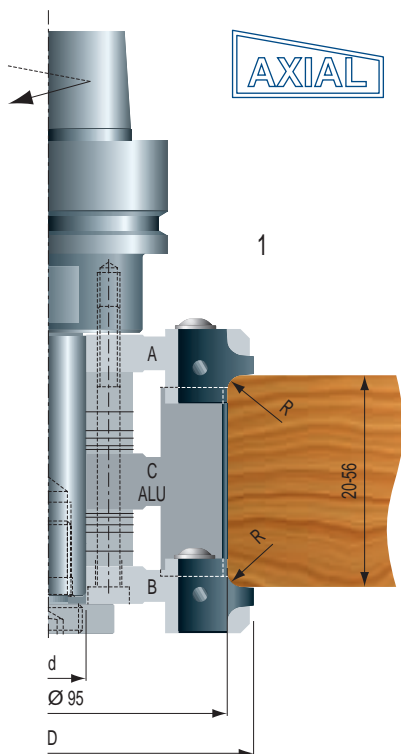
HW Z=2

GRUPPO REGOLABILE PER RAGGIARE E SMUSSARE ROUNDING AND CHAMFERING ADJUSTABLE ROUTER SET WECHSELPLATTEN-ABRUND-FASE-KOMBINATION

Gruppo completo di mandrino e 3 utensili regolabili mediante anelli per eseguire raggi R=2-3-4-5-6 e smussi a 45°.
In fase d'ordine specificare il coltello desiderato.

Router set complete with chuck composed of 3 adjustable cutterheads (by means of spacing rings) for rounding R=2-3-4-5-6 mm and 45° chamfering. When order is placed, please indicate the type of knife required.

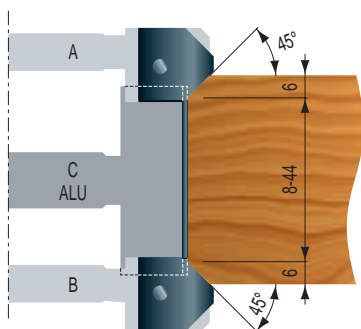
Diese 3-teilige Werkzeuggarnitur wird komplett montiert auf dem jeweiligen Schaft geliefert. Die Messer C sind montiert, die jeweiligen Profilmesser A und B sind bei Bestellung anzugeben.



Set	Art. Nr.	D (mm)	d (mm)	Z		€
1	●PH31FM1001	109	20	2	ISO 30	
	●PH31FM1002	109	20	2	ISO 40	
	●PH31FM1003	109	20	2	ISO 30/SCM	
	●PH31FM1004	109	20	2	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	€
A	●PH31FM01020	109	20	20	2	
C	●PH31FA03020	95	50	20	2	
B	●PH31FM02020	109	20	20	2	

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A-B	R-2	20x21x2	602017
	R-3	20x21x2	602019
	R-4	20x21x2	602021
	R-5	20x21x2	602023
	R-6	20x21x2	602025
	45°	20x21x2	602026
C	0	50x12x1,5	600006



Ricambi Spare parts Ersatzteile			
Art. Nr.	PH31FM01 PH31FM02	PH31FA03	
Art. Nr.	341001	341002	501403
Dimensioni Dimensions Abmessungen	16	46	M 8x16
€ pz./pc./St.			

Art. Nr. 400114 mm 4 €

PH24FM

HW Z=4

PUNTA PER SPIANARE
DISPOSABLE KNIFE PLANING ROUTER
WECHSELPLATTEN-PLANFRÄSER

Attacco • Shank • Schaft

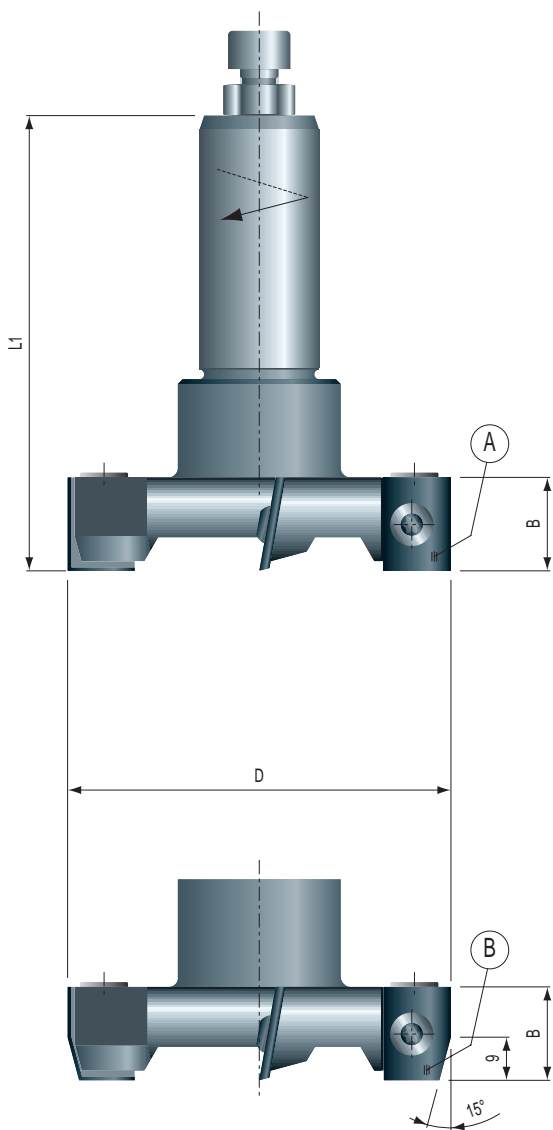
∅ 20x55 ∅ 25x55

La punta viene fornita con i coltelli tipo A indicati per spianature di media qualità. I coltelli di tipo B, forniti a richiesta, sono indicati per lavorazioni esterne senza scheggiature.

The router is supplied with knife A for planing with normal surface finishing. Knife B for external and splintering-free operations can be provided on request.

Zum Plan- und Bündigfräsen von Umleimern und breiten Ausfräsungen mit geringer Tiefe. Werkzeug bestückt mit Messer A, für mittlere Kantenqualität. Messer B ist geeignet für ausrißfreie Kanten im Außenbereich und muß extra bestellt werden.

Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
●PH24FM01	80	20	95	4	



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A	19,6x16x2	601357	
B	19,6x15,5x2	601358	

	Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
	M 4x7	502305	

T Art. Nr. 400405 T15 €

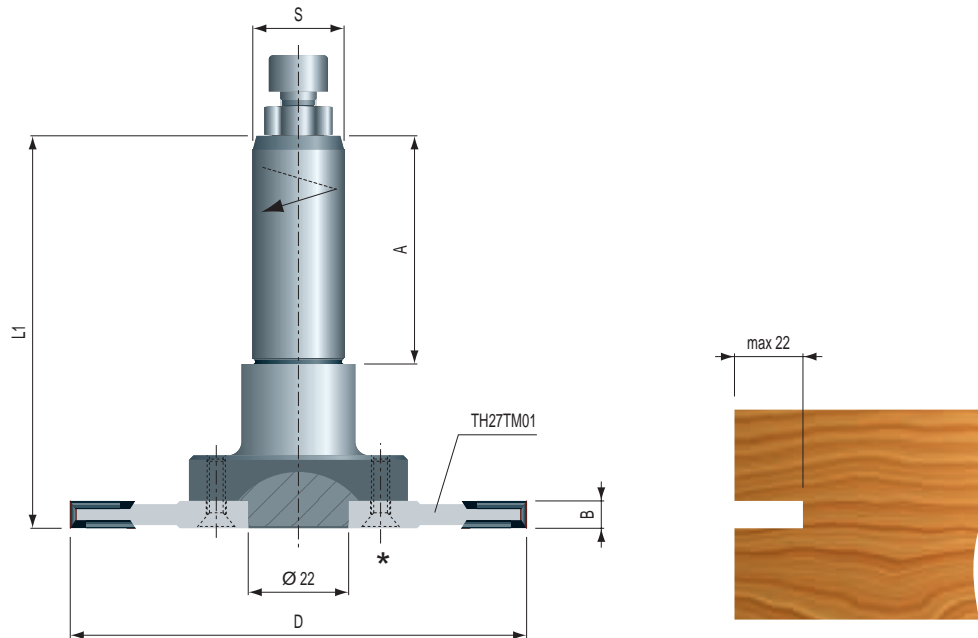


Gruppo completo di mandrino e utensile con coltellini per incastri.

Router set complete with chuck for grooving.

Auf Schaft verschraubtes Nutwerkzeug für Lamellen-Verbindungen.

Art. Nr.	D (mm)	B (mm)	L1 (mm)	SxA (mm)	Z	V	€
●GP27FM05C20	100	4	84	20x55	4	4	
●GP27FM05C25	100	4	84	25x55	4	4	



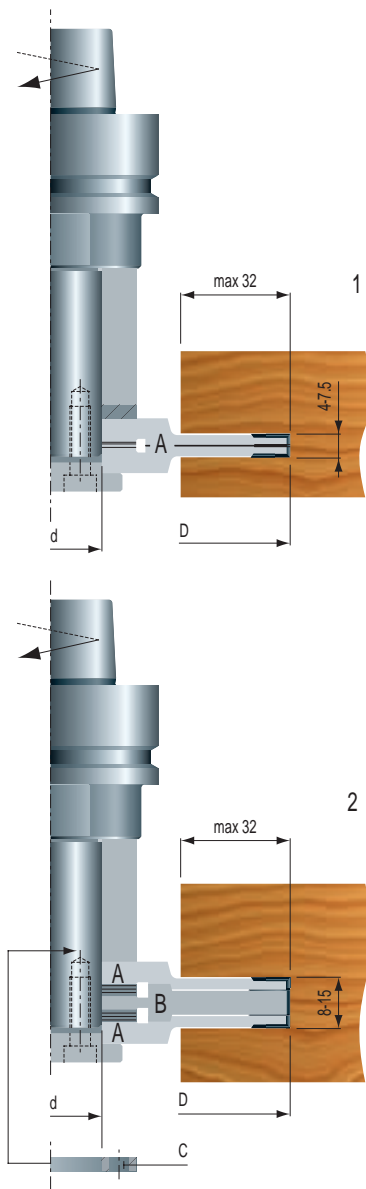
Ricambi
Spare parts
Ersatzteile

Art. Nr.	600301	500401	501101	600202	500401	501001
TH27TM01	18x18x1,95	M 4x3,2	Ø 12x1,7	14x14x1,2	M 4x3,2	Ø 10x1,65
€ pz./pc./St.						

T Art. Nr. 400401 T9 €

* Vite per fissare l'utensile sul mandrino
Screw for fastening the tool on the chuck
Befestigungsschraube

M 4x12 Art. Nr. 500603 €



Gruppo completo di mandrino e utensili registrabili mediante anelli distanziali. Il set 1 permette una regolazione da 4-7,5 mm, mentre il set 2 da 8-15 mm e da 4-7.5 togliendo l'elemento B e inserendo l'anello C.

This router set complete with chuck, is suitable for precision grooves adjustable by means of spacing rings.

Set 1 is adjustable from 4-7,5 mm, while set 2 from 8-15 mm and interchanging cutterhead B with ring C, from 4 to 7,5 mm.

Die Werkzeuge werden komplett montiert mit den entsprechenden Zwischenringen, auf dem jeweiligen Schaft geliefert. Set 1, ein zweiteiliges Werkzeug, Verstellbereich 4-7,5 mm, Set 2 ein dreiteiliges Werkzeug, Verstellbereich 8-15 mm. Beim Einsatz von Set 2 als 2-teiliges Werkzeug ist der mitgelieferte Klemmring C zu verwenden.

Set	Art. Nr.	D (mm)	d (mm)	Z	V		€
1	●GP60FM1301	140	30	4	4	ISO 30	
	●GP60FM1302	140	30	4	4	ISO 40	
	●GP60FM1303	140	30	4	4	ISO 30/SCM	
	●GP60FM1304	140	30	4	4	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	€
A	●TH23TM01030	140	4-7,5	30	4	4	
B	●TH23TM02030	140	7,65	30	2		

Set	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	€
A+B	●TH23TM20030	140	8-15	30	4+2	4	

Set	Art. Nr.	D (mm)	d (mm)	Z	V		€
2	●GP60FM1305	140	30	4+2	4	ISO 30	
	●GP60FM1306	140	30	4+2	4	ISO 40	
	●GP60FM1307	140	30	4+2	4	ISO 30/SCM	
	●GP60FM1308	140	30	4+2	4	HSK 63 F	

Type	Art. Nr.	€
C	132067	

Ricambi
Spare parts
Ersatzteile

Art. Nr.						
TH23TM01030	600301	500401	501101	600202	500401	501001
Dimensioni Dimensions Abmessungen	18x18x1,95	M 4x3,2	Ø 12x1,7	14x14x1,2	M 4x3,2	Ø 10x1,65
	€ pz./pc./St.					

Art. Nr. 400401 T9 €

Ricambi
Spare parts
Ersatzteile

Art. Nr.			
TH23TM02030	600001	502403	350021
Dimensioni Dimensions Abmessungen	7,65x12x1,5	M 5x18	6,8
	€ pz./pc./St.		

Art. Nr. 400420 T20 €


GRUPPO PER ESEGUIRE INCASTRI REGOLABILI
DISPOSABLE KNIFE ADJUSTABLE GROOVE ROUTER SET
WENDEPLATTEN-VERSTELLNUTER

GP60FM09
PH60FM
HW Z=4

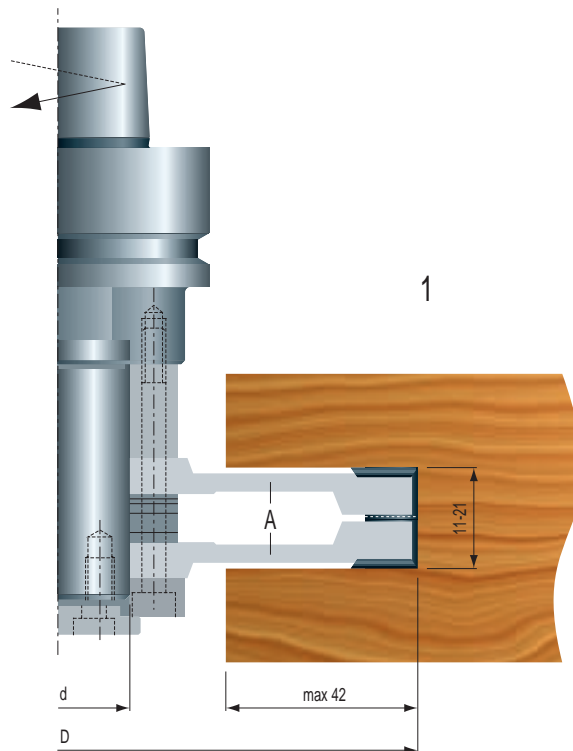
Gruppo completo di mandrino e utensili registrabile da 11-21 mm mediante anelli distanziali.

This tooling set complete with chuck is suitable for adjustable precision grooves, by means of spacing rings, from 11 to 21 mm.






Dieses Werkzeug wird komplett auf dem jeweiligen Schaft montiert ausgeliefert, inkl. den entsprechenden Zwischenringen.

Set	Art. Nr.	D (mm)	d (mm)	Z	v		€
1	●GP60FM0905	150	30	4	4	ISO 30	
	●GP60FM0906	150	30	4	4	ISO 40	
	●GP60FM0907	150	30	4	4	ISO 30/SCM	
	●GP60FM0908	150	30	4	4	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	v	€
A	●PH60FM17030	150	11-21	30	4	4	



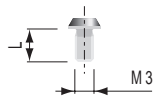
Ricambi
Spare parts
Ersatzteile

Art. Nr.					
PH60FM17030	600019	502403	350023	600201	500002
Dimensioni Dimensions Abmessungen	10,6x12x1,5	M 5x18	9	14x14x2	M 5x7

€ pz./pc./St.

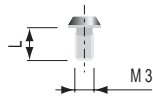
 Art. Nr. 400420 T20 €

RICAMBI SPARE PARTS ERSATZTEILE **VITI TIPO TORX PER FISSAGGIO COLTELLI TORX TYPE SCREWS FOR KNIFE FIXING TORX-SCHRAUBEN FÜR MESSER**



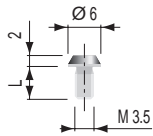
TORX T8

MxL (mm)	Art. Nr.	€/kit*
M 3x7	502307	



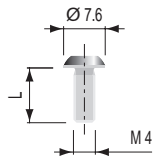
TORX T9

MxL (mm)	Art. Nr.	€/kit*
M 3x4	502331	



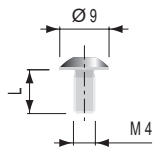
TORX T15

MxL (mm)	Art. Nr.	€/kit*
M 3,5x4,8	502310	



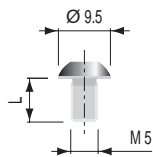
TORX T15

MxL (mm)	Art. Nr.	€/kit*
M 4x5	502330	
M 4x6	502301	
M 4x10	502302	
M 4x12	502303	



TORX T15

MxL (mm)	Art. Nr.	€/kit*
M 4x6	502306	
M 4x7	502305	

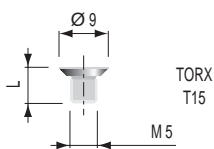


TORX T20

MxL (mm)	Art. Nr.	€/kit*
M 5x8	502315	

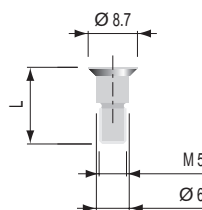
* 1 kit = 10 pz./pcs./St.

RICAMBI SPARE PARTS ERSATZTEILE **VITI TIPO TORX PER FISSAGGIO RASANTI TORX TYPE SCREWS FOR SPURS FIXING TORX-SCHRAUBEN FÜR VORSCHNEIDER**



TORX T15

MxL (mm)	Art. Nr.	€/kit*
M 5x6,5	500002	
M 5x5,1	500004	



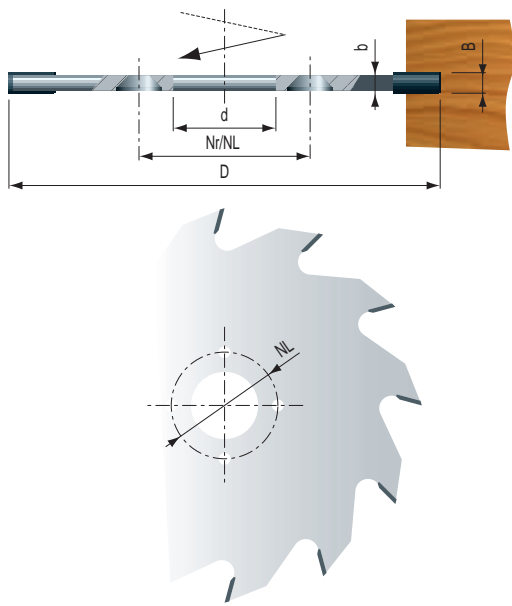
TORX T20

MxL (mm)	Art. Nr.	€/kit*
M 5x14	500003	

* 1 kit = 10 pz./pcs./St.

LAME CIRCOLARI PER INCASTRI
GROOVE-SAW BLADES
FLACHZAHN-NUTKREISSÄGEBLÄTTER

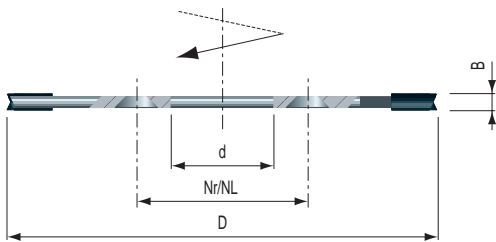
N03
HW



Art. Nr.	D (mm)	B/b (mm)	d (mm)	Z	Nr/NL (mm)	€
N031250412030	125	4/2,8	30	12	4/48	
N031250512030	125	5/3,5	30	12	4/48	
N031250612030	125	6/3,5	30	12	4/48	
N031250812030	125	8/6	30	12	4/48	
N031251012030	125	10/8	30	12	4/48	
N031500412030	150	4/2,8	30	18	4/48	
N031500512030	150	5/3,5	30	18	4/48	
N031500612030	150	6/3,5	30	18	4/48	
N031500812030	150	8/6	30	18	4/48	
N031501012030	150	10/8	30	18	4/48	
N031800412030	180	4/2,8	30	18	4/48	
N031800512030	180	5/3,5	30	18	4/48	
N031800612030	180	6/3,5	30	18	4/48	
N031800812030	180	8/6	30	18	4/48	
N03180012030	180	10/8	30	18	4/48	

LAME CIRCOLARI UNIVERSALI
UNIVERSAL CIRCULAR SAW BLADES
UNIVERSALKREISSÄGEBLÄTTER

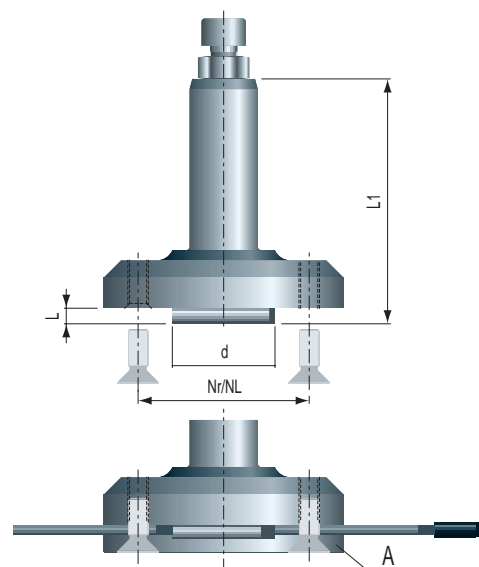
U14
HW



Art. Nr.	D (mm)	B (mm)	d (mm)	Z	Nr/NL (mm)	€
U1410032024030	100	3,2	30	24	4/48	
U1415032024030	150	3,2	30	24	4/48	
U1418032030030	180	3,2	30	30	4/48	
U1420032034030	200	3,2	30	34	4/48	
U1425032042030	250	3,2	30	42	4/48	

MANDRINO PORTALAME
CHUCK FOR CIRCULAR SAW BLADES
FRÄSDORN-SÄGEBLATT-AUFNAHME

MN02



Le lame con spessore corpo fino a 3,5 mm vengono bloccate con l'anello A. Le lame o utensili con corpi da 3,5 mm a 10 mm vengono bloccati direttamente sul mandrino.


Saw blades with body up to 3,5 mm thickness are fastened on the chuck using ring A. Saw blades with body from 3,5 mm to 10 mm are fastened directly on the chuck.

Sägeblätter mit Stammblattstärke bis 3,5 mm werden mit Ring A gespannt. Werkzeuge mit Stammblatt- oder Nabenstärke von 3,5-10 mm werden direkt mit den 4 Senkkopfschrauben an der Aufnahme fixiert.

Art. Nr.	d (mm)	L (mm)	L1 (mm)	Nr/NL (mm)	€
MN02FC10	30	4	85	4/48	

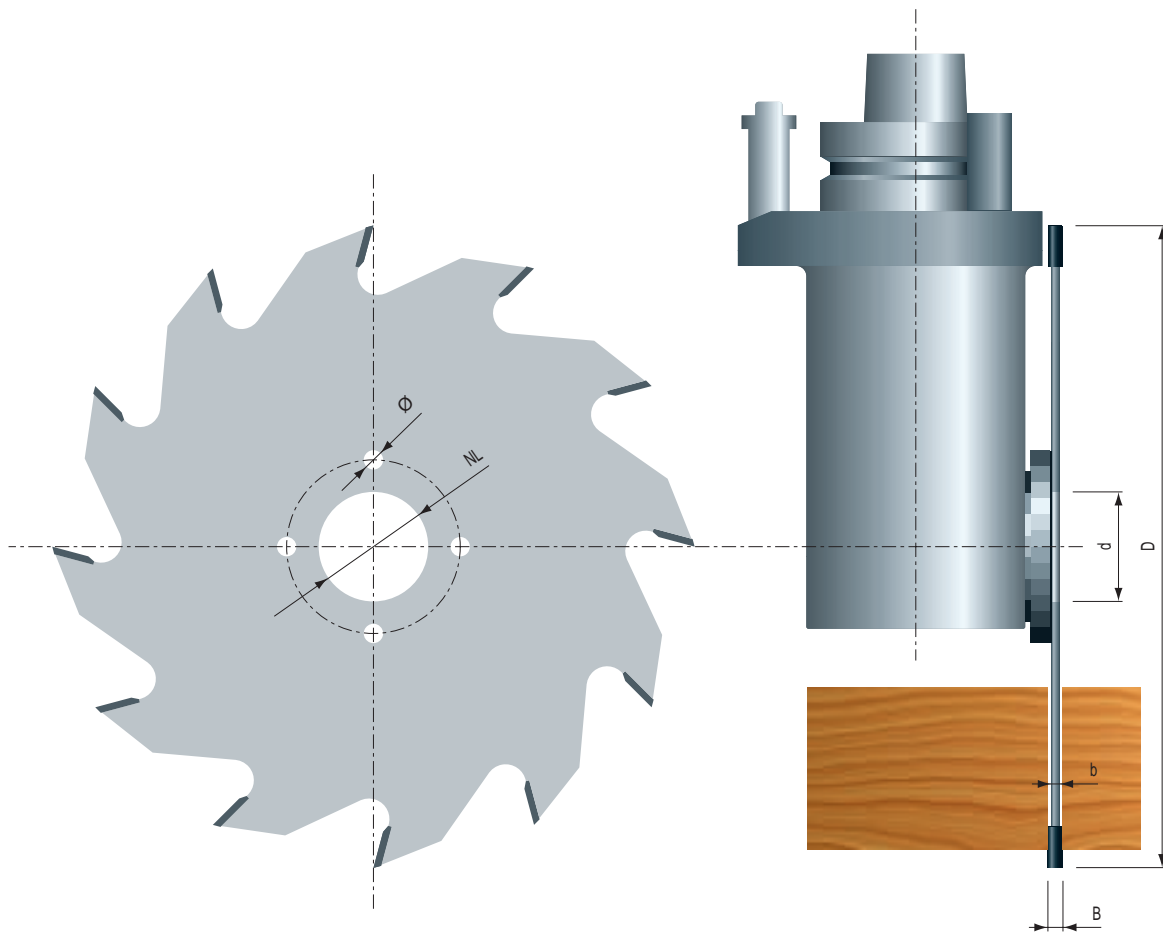
Type	Art. Nr.	Dimensioni (mm) Dimensions (mm) Abmessungen (mm)	€
A	130034	60x4x30	

 Art. Nr. 500605 M 6x16 €

 Art. Nr. 400114 4 mm €

Attacco • Shank • Schaft

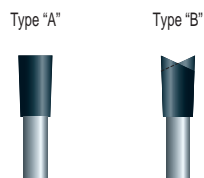
Ø 20x55 Ø 25x55




Macchina/lavorazione Machine/working Sägemaschine/Ausführung	Art. Nr.	Type	D (mm)	B/b (mm)	d (mm)	Z	Nr/Ø/NL (mm)	€
*	N031500312030	A	150	3/2	30	12	4/6/48	
✱	U051502824030	B	150	2,8/1,8	30	24	4/6/48	
SCM / *	U0415032024030	B	150	3,2/2,2	30	24		
HOMAG / **	U051803230030	B	180	3,2/2,2	30	30	4/5,5/52	
HOMAG / **	U051803254030	B	180	3,2/2,2	30	54	4/5,5/52	
SCM / **	U0418032030030	B	180	3,2/2,2	30	30		
HOMAG / **	U052402834030	B	240	2,8/1,8	30	34	4/5,5/52	
IMA / **	U052202834030	B	220	2,8/1,8	30	34	4/6,5/60	
BIESSE / **	U051803234035	B	180	3,2/2,2	35	30	1/6/50	
BIESSE / **	U051803254035	B	180	3,2/2,2	35	54	1/6/50	
BIESSE / **	U052503242035	B	250	3,2/2,2	35	42	1/6/50	

* Lungovena
Along the grain
Längsschnitt

** Intestatura
Across the grain
Querschnitt





Programma antine
Programma serramenti

Kitchen cabinet programme
Windows frame programme

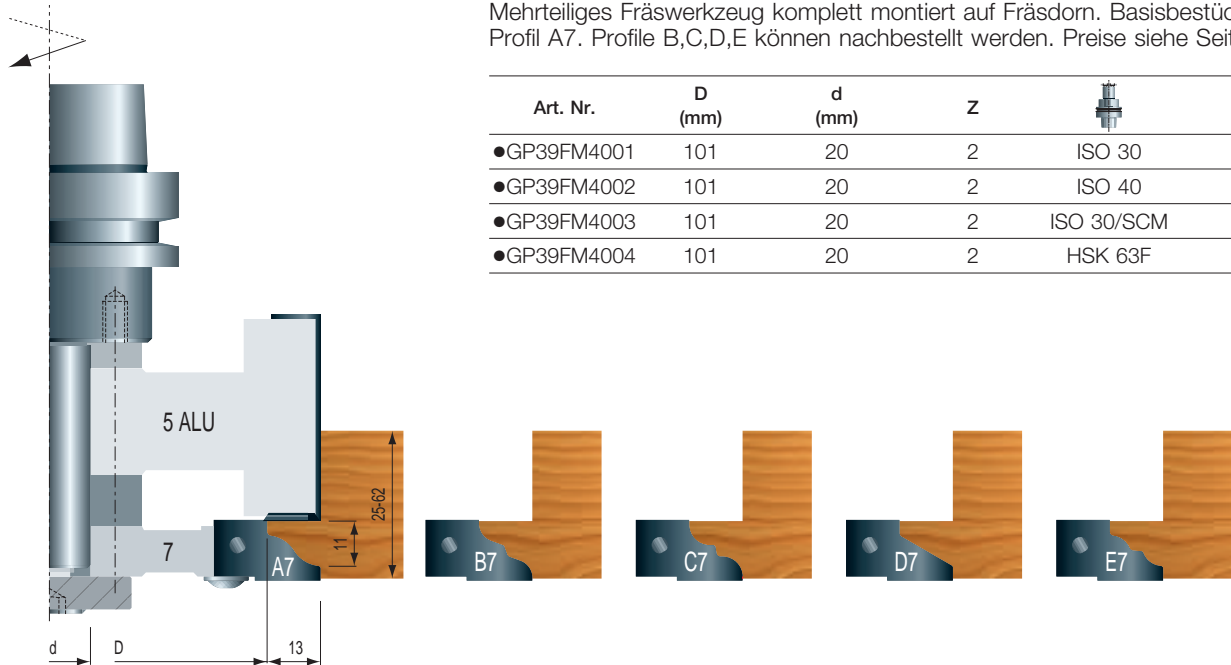
Fenster- und
türenwerkzeuge


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN-GLASFALZPROFILIERSATZ **HW Z=2**

Gruppo completo di mandrino e 2 utensili. Il gruppo base monta i coltelli profilo A7. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 2 adjustable cutterheads by mean of spacing rings. The profiled one is equipped with knives A7 while all the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A7. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



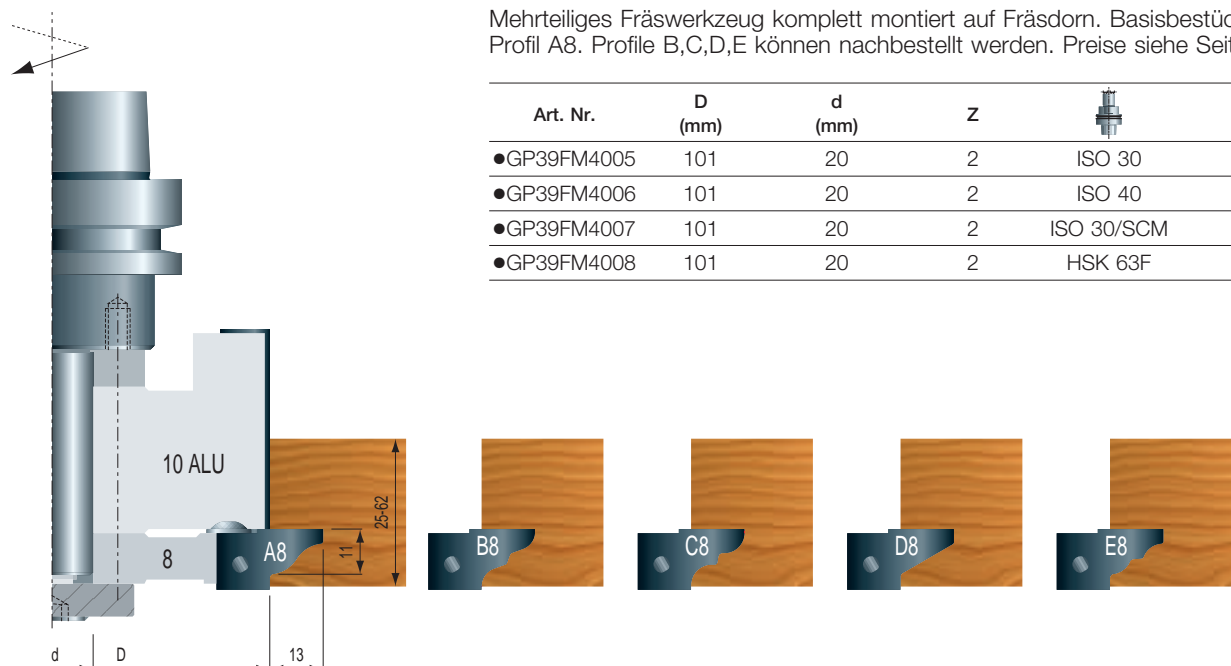
Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM4001	101	20	2	ISO 30	
●GP39FM4002	101	20	2	ISO 40	
●GP39FM4003	101	20	2	ISO 30/SCM	
●GP39FM4004	101	20	2	HSK 63F	


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN-KONTERPROFILIERSATZ **HW Z=2**

Gruppo completo di mandrino e 2 utensili. Il gruppo base monta i coltelli profilo A8. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 2 adjustable cutterheads by mean of spacing rings. The profiled one is equipped with knives A8 while all the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A8. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM4005	101	20	2	ISO 30	
●GP39FM4006	101	20	2	ISO 40	
●GP39FM4007	101	20	2	ISO 30/SCM	
●GP39FM4008	101	20	2	HSK 63F	

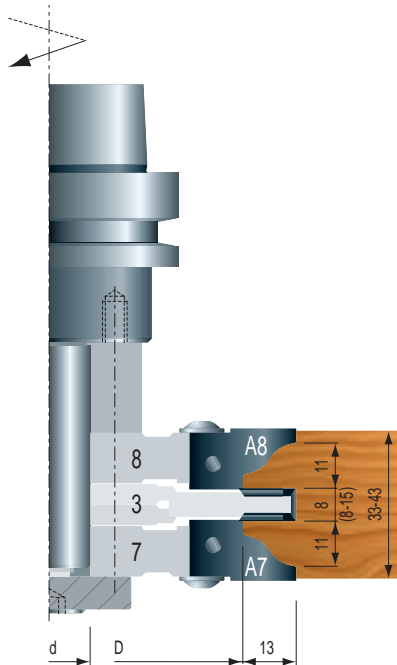
GP39 PH39 HW Z=2


GRUPPO CNC PER PROFILO/CONTROPROFILO PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET WECHSELPLATTEN-LÄNGSPROFILIERERSATZ

Gruppo completo di mandrino e 3 utensili registrabili mediante anelli distanziali. Il gruppo base monta i coltelli profilo A7-A8. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives A7 and A8. All the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM3001	101	20	2	ISO 30	
●GP39FM3002	101	20	2	ISO 40	
●GP39FM3003	101	20	2	ISO 30/SCM	
●GP39FM3004	101	20	2	HSK 63F	

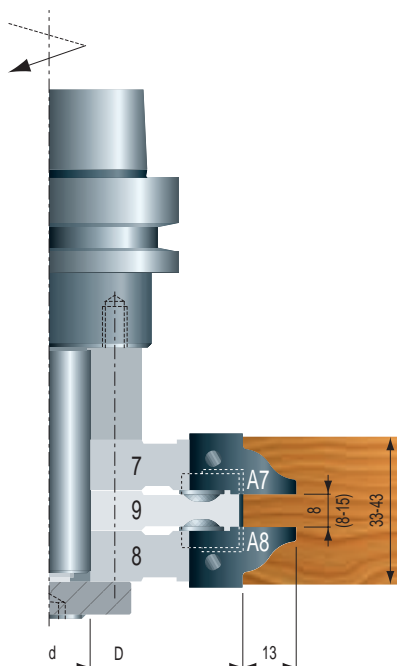
GP39 PH39 HW Z=2


GRUPPO CNC PER PROFILO/CONTROPROFILO PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET WECHSELPLATTEN-KONTERPROFILIERERSATZ

Gruppo completo di mandrino e 3 utensili registrabili mediante anelli distanziali. Il gruppo base monta i coltelli profilo A7-A8. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives A7 and A8. All the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



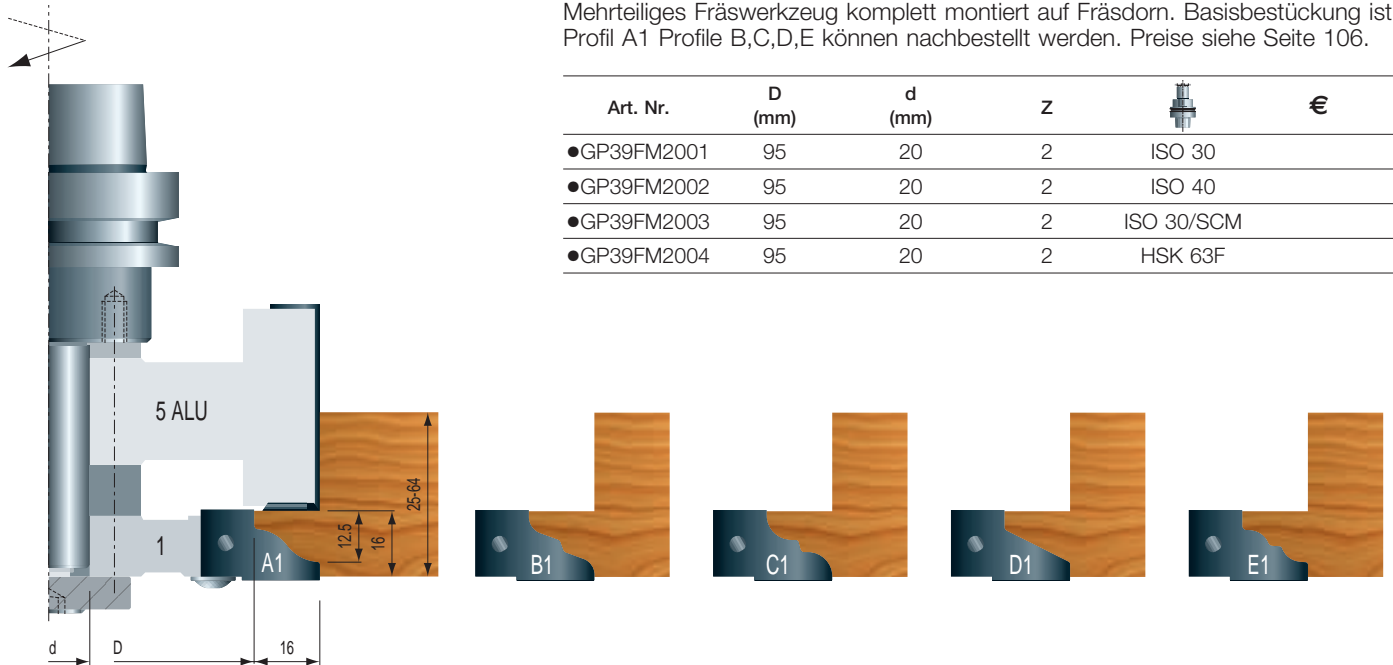
Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM3005	101	20	2	ISO 30	
●GP39FM3006	101	20	2	ISO 40	
●GP39FM3007	101	20	2	ISO 30/SCM	
●GP39FM3008	101	20	2	HSK 63F	


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN-GLASFALZPROFILIERSATZ HW Z=2

Gruppo completo di mandrino e 2 utensili. Il gruppo base monta i coltelli profilo A1. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 2 adjustable cutterheads (by mean of spacing rings). The profiled one is equipped with knives A1 while all the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A1 Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



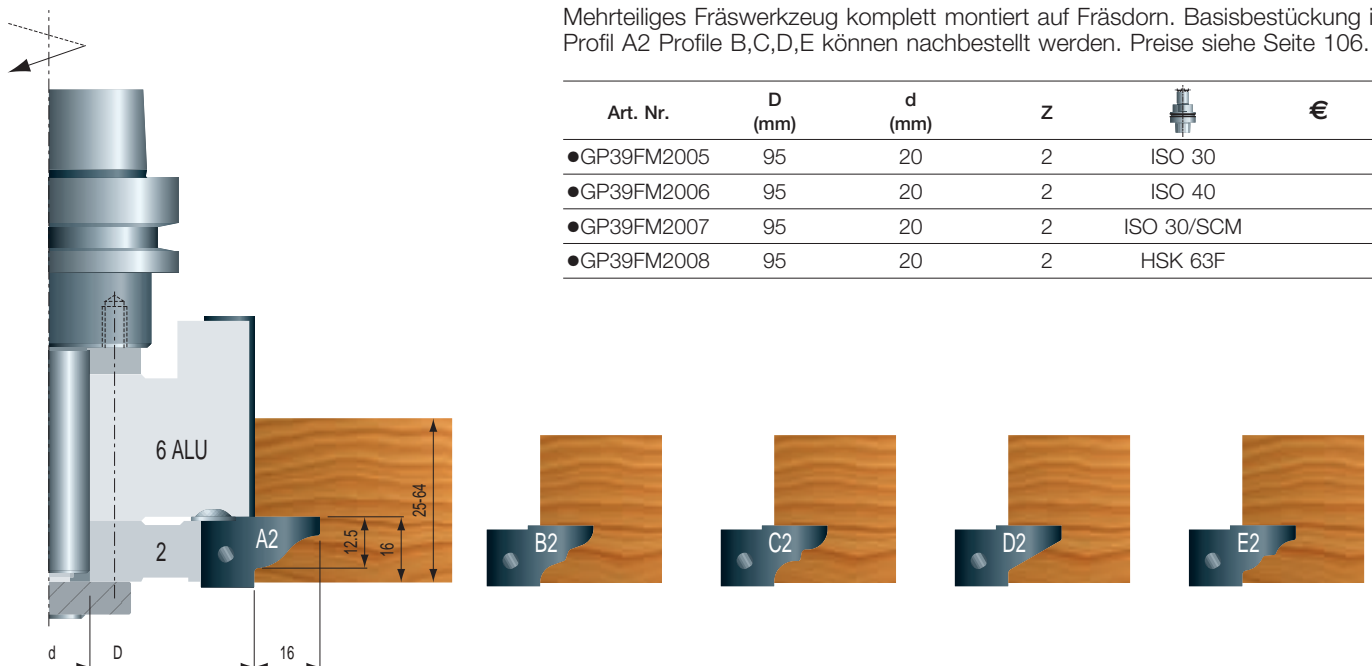
Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM2001	95	20	2	ISO 30	
●GP39FM2002	95	20	2	ISO 40	
●GP39FM2003	95	20	2	ISO 30/SCM	
●GP39FM2004	95	20	2	HSK 63F	


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN-KONTERPROFILIERSATZ HW Z=2

Gruppo completo di mandrino e 2 utensili. Il gruppo base monta i coltelli profilo A2. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 2 adjustable cutterheads (by mean of spacing rings). The profiled one is equipped with knives A2 while all the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A2 Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM2005	95	20	2	ISO 30	
●GP39FM2006	95	20	2	ISO 40	
●GP39FM2007	95	20	2	ISO 30/SCM	
●GP39FM2008	95	20	2	HSK 63F	

GP39 PH39

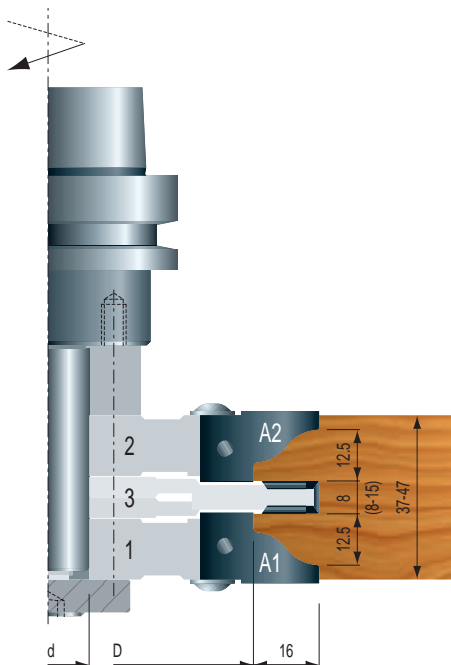
GRUPPO CNC PER PROFILO/CONTROPROFILO PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET WECHSELPLATTEN-LÄNGSPROFILIERSATZ


HW Z=2

Gruppo completo di mandrino e 3 utensili registrabili mediante anelli distanziali. Il gruppo base monta i coltelli profilo A1-A2. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag.106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives A1 and A2. All the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM1001	95	20	2	ISO 30	
●GP39FM1002	95	20	2	ISO 40	
●GP39FM1003	95	20	2	ISO 30/SCM	
●GP39FM1004	95	20	2	HSK 63F	

GP39 PH39

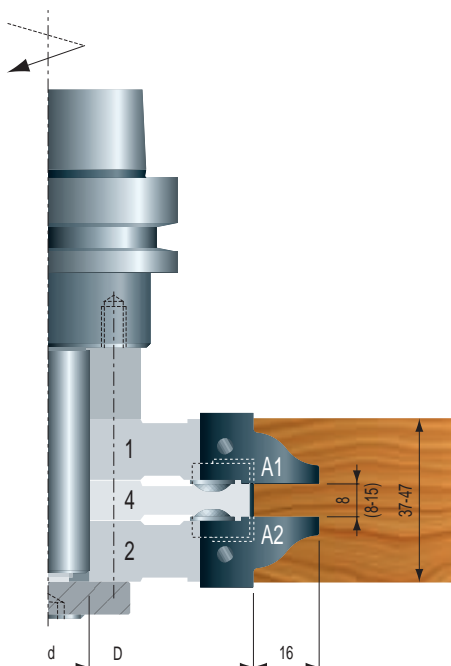
GRUPPO CNC PER PROFILO/CONTROPROFILO PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET WECHSELPLATTEN-LÄNGSPROFILIERSATZ


HW Z=2

Gruppo completo di mandrino e 3 utensili registrabili mediante anelli distanziali. Il gruppo base monta i coltelli profilo A1-A2. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives A1 and A2. All the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



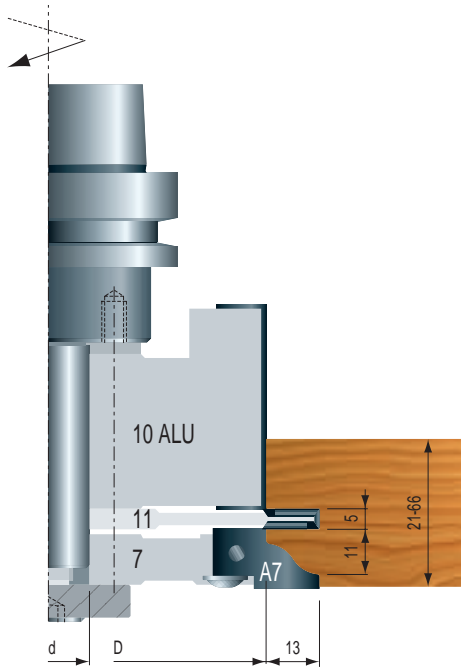
Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM1005	95	20	2	ISO 30	
●GP39FM1006	95	20	2	ISO 40	
●GP39FM1007	95	20	2	ISO 30/SCM	
●GP39FM1008	95	20	2	HSK 63F	


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE/COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN-LÄNGSPROFILIERSATZ HW Z=2

Gruppo completo di mandrino e 3 utensili. Il gruppo base monta i coltelli profilo A7. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives A7. All the other standard profiles are available on request. Please turn to page 106.

Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A7. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



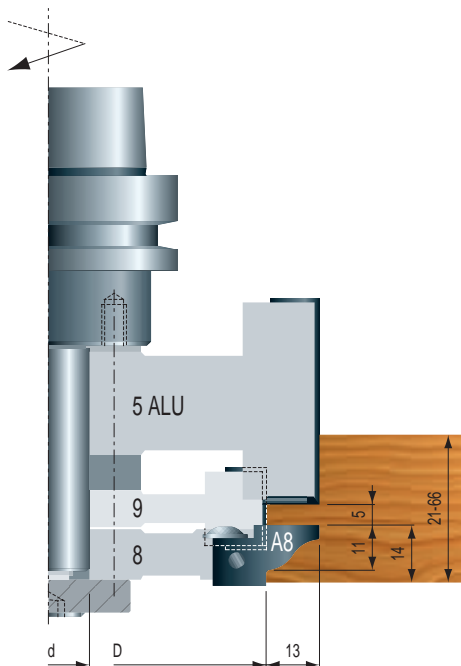
Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM3501	101	20	2	ISO 30	
●GP39FM3502	101	20	2	ISO 40	
●GP39FM3503	101	20	2	ISO 30/SCM	
●GP39FM3504	101	20	2	HSK 63F	


GRUPPO CNC PER PROFILO/CONTROPROFILO **GP39 PH39**
 PROFILE / COUNTER-PROFILE DISPOSABLE KNIFE ROUTER SET
 WECHSELPLATTEN - KONTERPROFILIERSATZ HW Z=2

Gruppo completo di mandrino e 3 utensili. Il gruppo base monta i coltelli profilo A8. Su richiesta il gruppo può essere fornito con coltelli diversi (vedi pag. 106).

This tooling set complete with chuck is composed by 3 adjustable cutterheads (by mean of spacing rings) equipped with profiled knives (A8). All the other standard profiles are available on request. Please turn to page 106.








Mehrteiliges Fräswerkzeug komplett montiert auf Fräsdorn. Basisbestückung ist Profil A8. Profile B,C,D,E können nachbestellt werden. Preise siehe Seite 106.



Art. Nr.	D (mm)	d (mm)	Z		€
●GP39FM3505	101	20	2	ISO 30	
●GP39FM3506	101	20	2	ISO 40	
●GP39FM3507	101	20	2	ISO 30/SCM	
●GP39FM3508	101	20	2	HSK 63F	



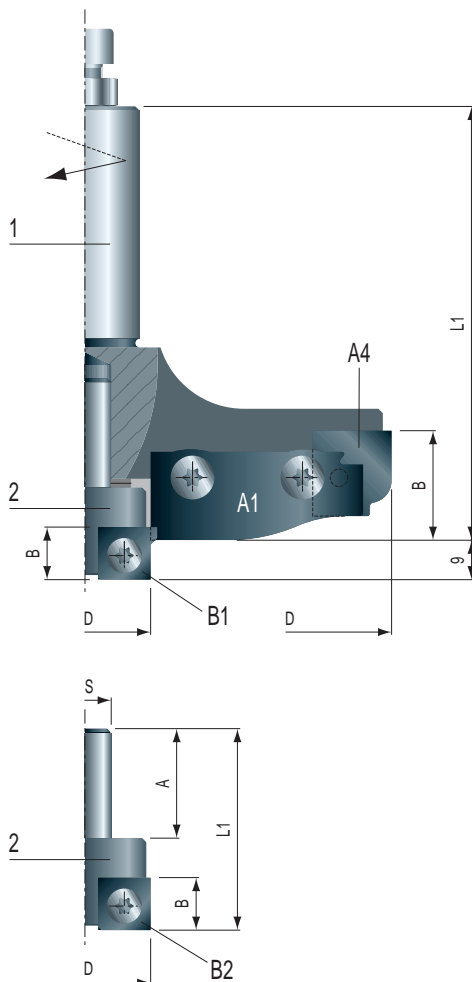
Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A1	17,5x29,5x2	604001	
B1	17,5x29,5x2	604003	
C1	17,5x29,5x2	604005	
D1	17,5x29,5x2	604007	
E1	17,5x29,5x2	604009	
A2	17,5x29,5x2	604002	
B2	17,5x29,5x2	604004	
C2	17,5x29,5x2	604006	
D2	17,5x29,5x2	604008	
E2	17,5x29,5x2	604010	
A7	15x26,5x2	604011	
B7	15x26,5x2	604013	
C7	15x26,5x2	604015	
D7	15x26,5x2	604017	
E7	15x26,5x2	604019	
A8	15x26,5x2	604012	
B8	15x26,5x2	604014	
C8	15x26,5x2	604016	
D8	15x26,5x2	604018	
E8	15x26,5x2	604020	

Type	Art. Nr.	€	Type							
1	PH39FM01	320,00	Art. Nr.	604001	350079	502402				
			Dim./Dim./Abm.	17,5x29,5x2	15	M 7x21				
			€ pz./pc./St.							
2	PH39FM02	320,00	Art. Nr.	604002	350078	502402				
			Dim./Dim./Abm.	17,5x29,5x2	15	M 7x21				
			€ pz./pc./St.							
3	PH39FM03	420,00	Art. Nr.	600001	350021	502403		600201	500002	
			Dim./Dim./Abm.	7,6x12x1,5	7	M 5x18		14x14x2	M 5x6,5	
			€ pz./pc./St.							
4	PH39FM04	220,00	Art. Nr.	600004	341001	501403				
			Dim./Dim./Abm.	20x12x1,5	16	M 8x16				
			€ pz./pc./St.							
5	PH39FA05	280,00	Art. Nr.	600006	341002	501403		600201	500002	
			Dim./Dim./Abm.	50x12x1,5	46	M 8x16		14x14x2	M 5x6,5	
			€ pz./pc./St.							
6	PH39FA06	250,00	Art. Nr.	600006	341002	501403				
			Dim./Dim./Abm.	50x12x1,5	46	M 8x16				
			€ pz./pc./St.							
7	PH39FM07	320,00	Art. Nr.	604011	350081	502402				
			Dim./Dim./Abm.	15x26,5x2	12	M 7x21				
			€ pz./pc./St.							
8	PH39FM08	320,00	Art. Nr.	604012	350080	502402				
			Dim./Dim./Abm.	15x26,5x2	15	M 7x21				
			€ pz./pc./St.							
9	PH39FM09	220,00	Art. Nr.	600004	341001	501403				
			Dim./Dim./Abm.	20x12x1,5	16	M 8x16				
			€ pz./pc./St.							
10	PH39FA10	250,00	Art. Nr.	600006	341002	501403				
			Dim./Dim./Abm.	50x12x1,5	46	M 8x16				
			€ pz./pc./St.							
11	PH39FM11	270,00	Art. Nr.	600302		500402	501102	600204	500402	501002
			Dim./Dim./Abm.	18x18x2,45		M 4x4	12x2,2	14x14x1,7	M 4x4	10x2,1
			€ pz./pc./St.							

T Art. Nr. 400114 mm 4 € Art. Nr. 400420 T20 €
 Art. Nr. 400115 mm 5 € Art. Nr. 400401 T9 €

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55



La punta 1 viene fornita con coltelli tipo A1 e A4.
La punta 2 viene fornita con coltello tipo B1.
Gli altri profili vengono forniti su richiesta (vedi pag. 108).

Router n. 1 is equipped with profiled knives A1 and A4.
Router n. 2 is equipped with profiled knives B1.
All the other standard profiles are available on request. Please turn to page 108.
Special profiles obtained inside the relative shaded area can also be supplied on request.

Messerträger 1 ist bestückt mit Profilmessern A1 und A4.
Messerträger 2 ist bestückt mit Profilmesser B1.
Weitere Standardprofile sind verfügbar. Siehe Seite 108.
Es können auch Sonderprofile auf Wunsch gefertigt werden.

Set	Art. Nr.	D	L1 (mm)	Z	€
1+2	●PH58FM10	140	99	2+2+2	

Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	SxA (mm)	Z	€
1	●PH58FM01	140	25	99		2+2	
2	●PH58FM05C12	30	12	46	12x25	2	

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	A1	50x21,5x2	601311
	A2	50x21,5x2	601312
	A3	50x21,5x2	601313
	A4	20x20x2	601321
	A5	20x20x2	601322
2	B1	12x13,6x1,5	601310
	B2	12x12x1,5	600002

Ricambi
Spare parts
Ersatzteile

Art. Nr.	PH58FM01	PH58FM01	PH58FM01	PH58FM05
Art. Nr.	350082	502402	502315	502306
Dimensioni Dimensions Abmessungen	16,5	M 7x21	M 5x8	M 4x6

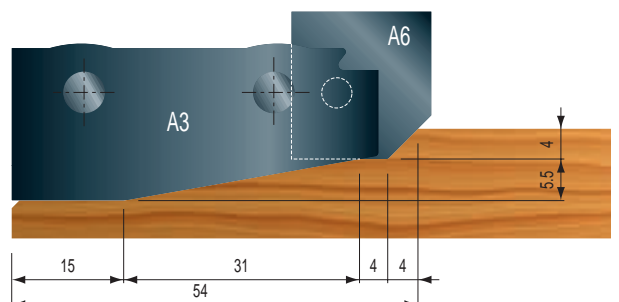
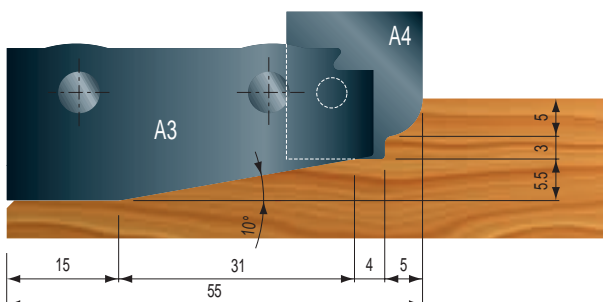
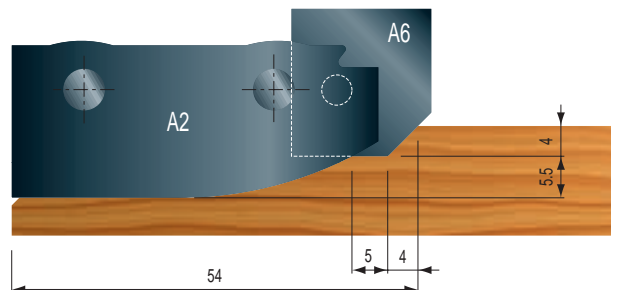
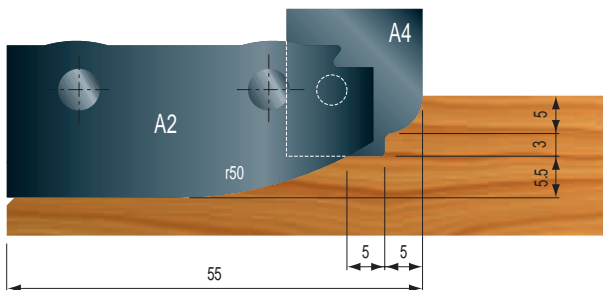
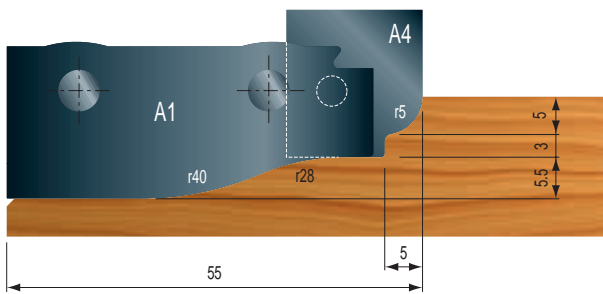
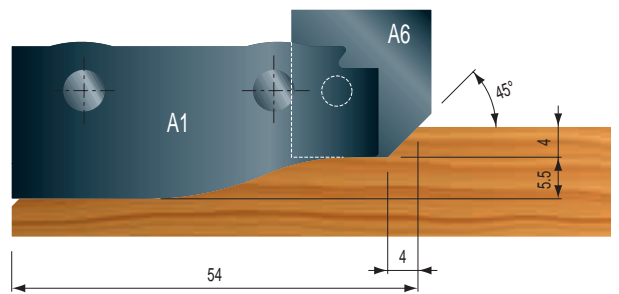
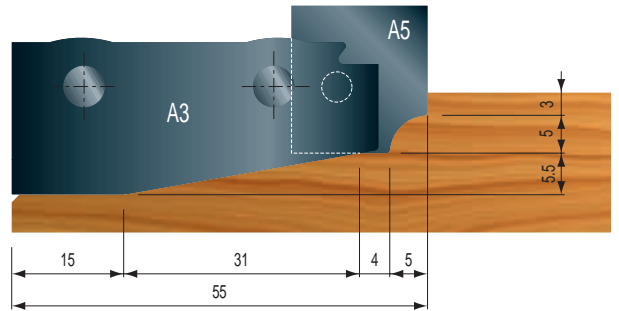
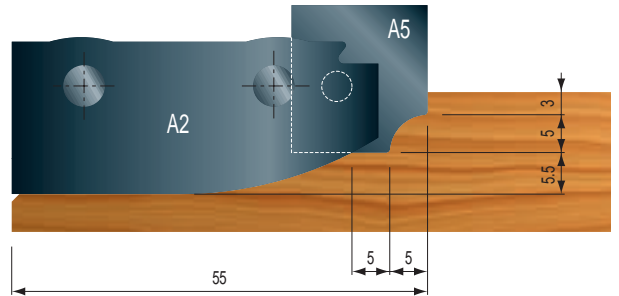
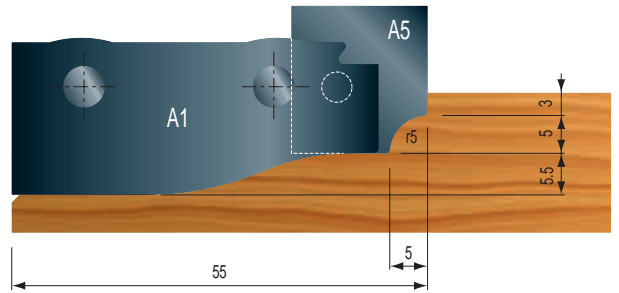
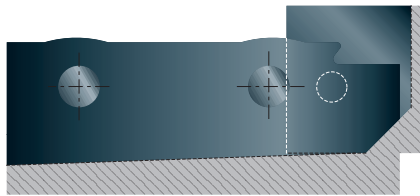
€ pz./pc./St.

T Art. Nr. 400405 T15 €
T Art. Nr. 400420 T20 €

A1)	Art. Nr.	601311
A2)	Art. Nr.	601312
A3)	Art. Nr.	601313
A4)	Art. Nr.	601321
A5)	Art. Nr.	601322
A6)	Art. Nr.	601323

Profili speciali a richiesta
Special profiles on request
Sonderprofile auf Anfrage

Scala/Scale/Mass 1:1



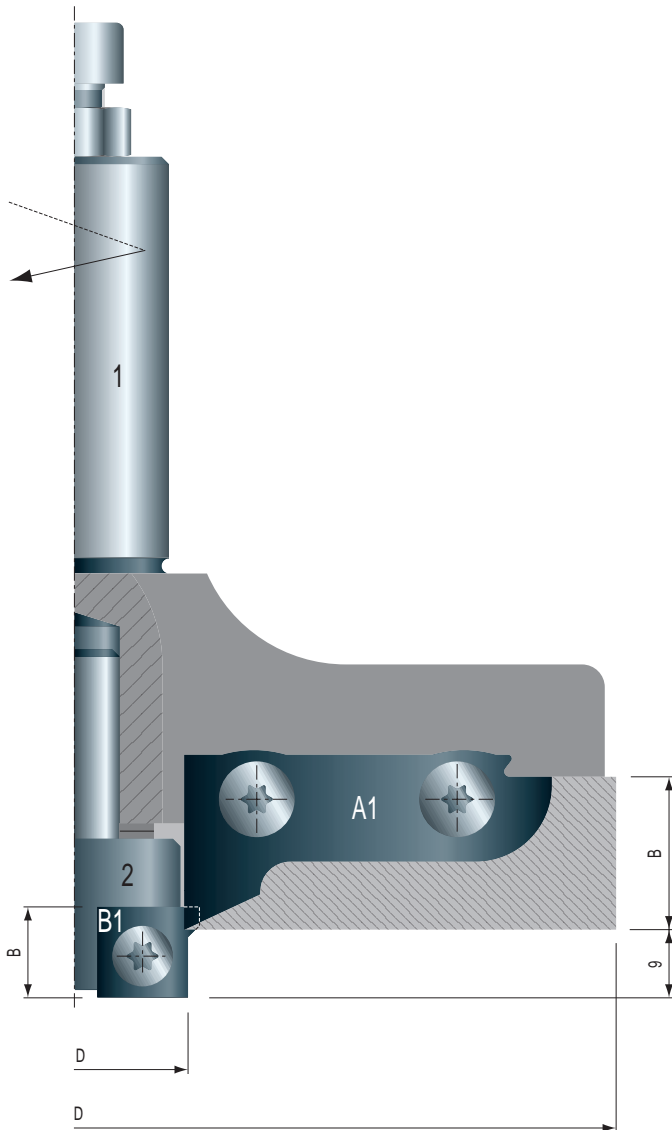
PUNTA SPECIALE PER PIATTABANDE CON COLTELLI PROFILATI
 SPECIAL DISPOSABLE PROFILED KNIFE ROUTER FOR PANEL RAISING
 WECHSELPLATTEN-PROFILFRÄSER

PK29 PH58
 HW Z=2

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Type	Art. Nr.	D (mm)	B (mm)	Z	SxA (mm)	€
1	PK29AM	143	20	2		
2	PH58FM05C12	30	12	2	12x25	



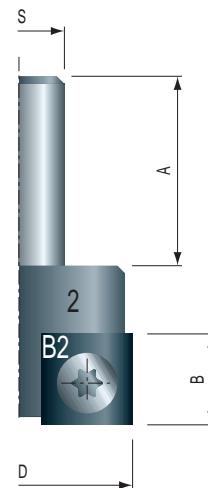
Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A1*	60x25x2	CS0140	
B1	12x13,6x1,5	601310	
B2	12X12X1,5	600002	

Ricambi
 Spare parts
 Ersatzteile

Art. Nr.	PK29AM	PH58FM05
Art. Nr.	502315	502306
Dimensioni Dimensions Abmessungen	M 5x8	M 4x8

€ pz./pc./St.

T Art. Nr. 400420 T20 €
 Art. Nr. 400405 T15 €



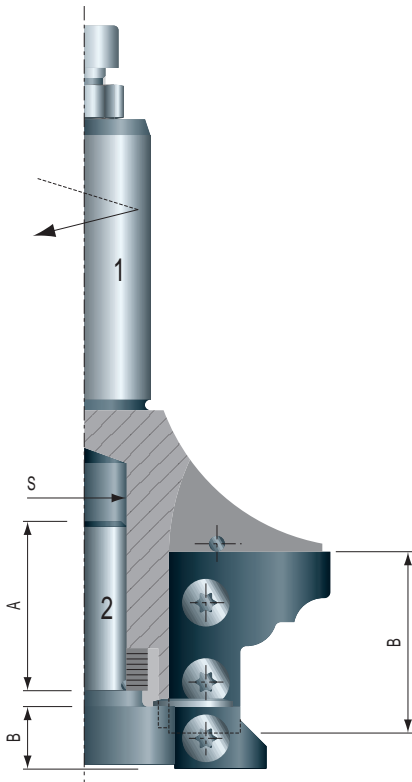
Scala/Scale/Mass 1:1



PH47FM

HW Z=2

PUNTA REGOLABILE CON COLTELLI PROFILATI PER CONTORNARE DISPOSABLE PROFILED KNIFE ADJUSTABLE ROUTER WECHSELPLATTEN-PROFILFRÄSERSATZ



Type	Art. Nr.	D (mm)	B (mm)	Z	SxA (mm)	€
1	PH47FM	93	34	2		
2	PH47FM05C16	69	12	2	16x30	

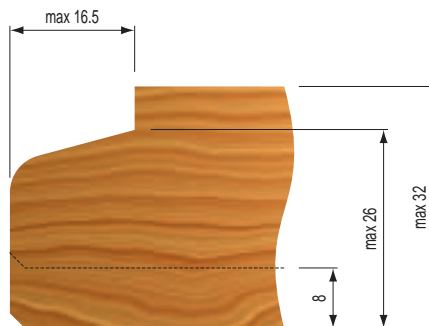
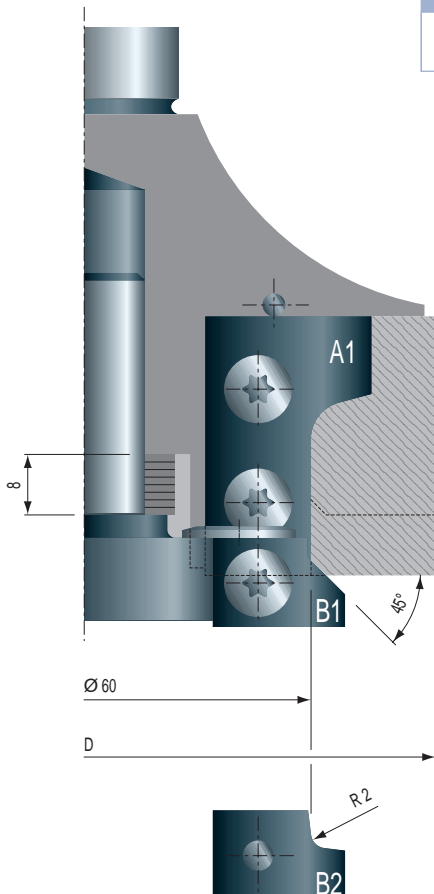
Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
A1	35x30x2	CS1018	
B1 45°	12x17,6x1,5	601308	
B2 R=2	12x17,7x1,5	601309	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55



Scala/Scale/Mass 1:1

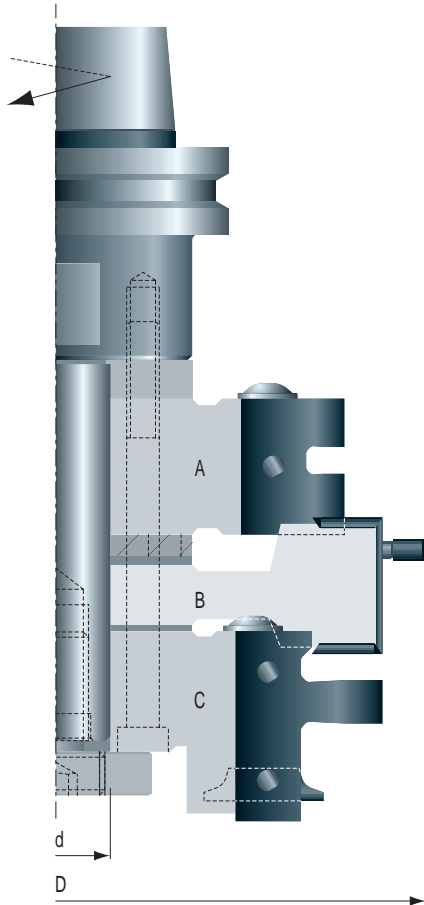
Zona profilabile
Profiling area
Profilierbare Zone




Gruppo completo di mandrino ed elementi con corpi in alluminio per eseguire le varie combinazioni di profilo (vedi pag. 112).

This tooling set including the chuck, has been developed for manufacturing a complete door frame. Please turn to page 112.

Auf entsprechenden Schäften verschraubte Fräsgarnituren.
Die verschiedenen Profile siehe Seite 112.



Set	Art. Nr.	D (mm)	d (mm)	Z		€
1	GP64FM1001	136	20	2	ISO 30	
	GP64FM1002	136	20	2	ISO 40	
	GP64FM1003	136	20	2	ISO 30/SCM	
	GP64FM1004	136	20	2	HSK 63F	
2	GP64FM1005	136	20	2	ISO 30	
	GP64FM1006	136	20	2	ISO 40	
	GP64FM1007	136	20	2	ISO 30/SCM	
	GP64FM1008	136	20	2	HSK 63F	
3	GP64FM1009	136	20	2	ISO 30	
	GP64FM1010	136	20	2	ISO 40	
	GP64FM1011	136	20	2	ISO 30/SCM	
4	GP64FM1012	136	20	2	HSK 63F	
	GP64FM1013	120	20	2	ISO 30	
	GP64FM1014	120	20	2	ISO 40	
	GP64FM1015	120	20	2	ISO 30/SCM	
5	GP64FM1016	120	20	2	HSK 63F	
	GP64FM1017	136	20	2	ISO 30	
	GP64FM1018	136	20	2	ISO 40	
	GP64FM1019	136	20	2	ISO 30/SCM	
	GP64FM1020	136	20	2	HSK 63F	

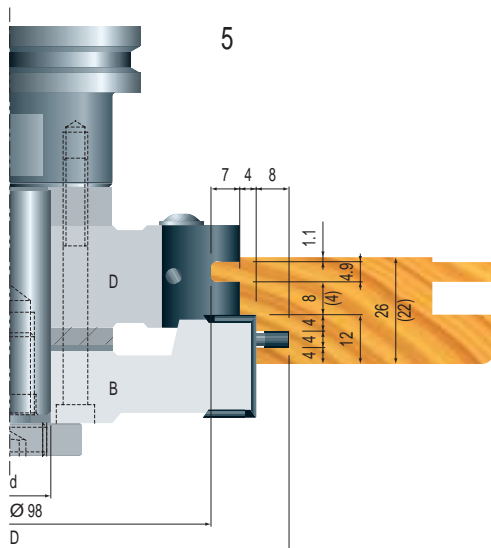
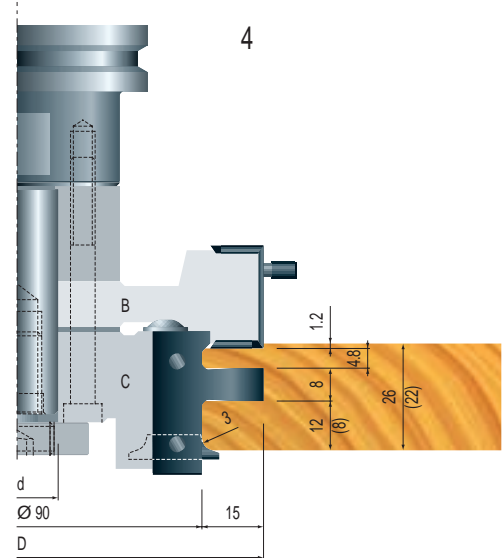
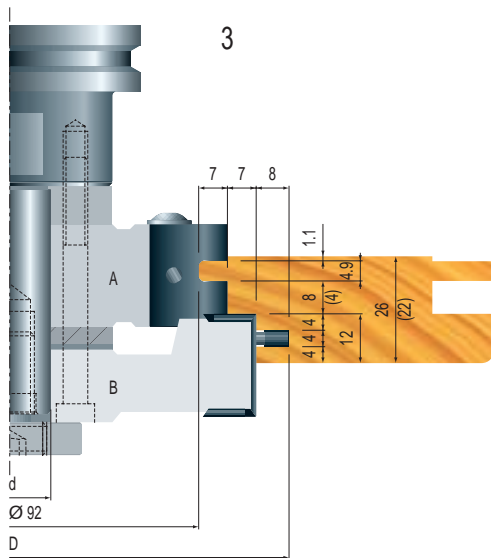
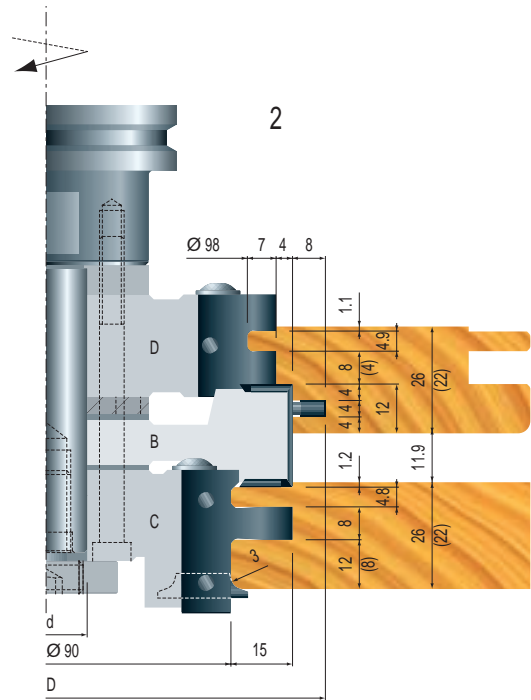
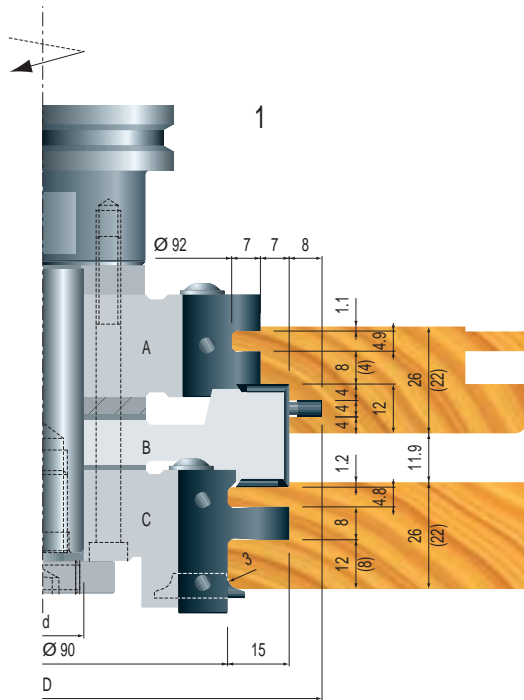
Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	S	I	€
A	PH64FA01020	106	25	20	2				
B	PH64FA02020	136	25	20	2	4		2	
C	PH64FA03020	120	35	20	2		2		
D	PH64FA04020	112	25	20	2				

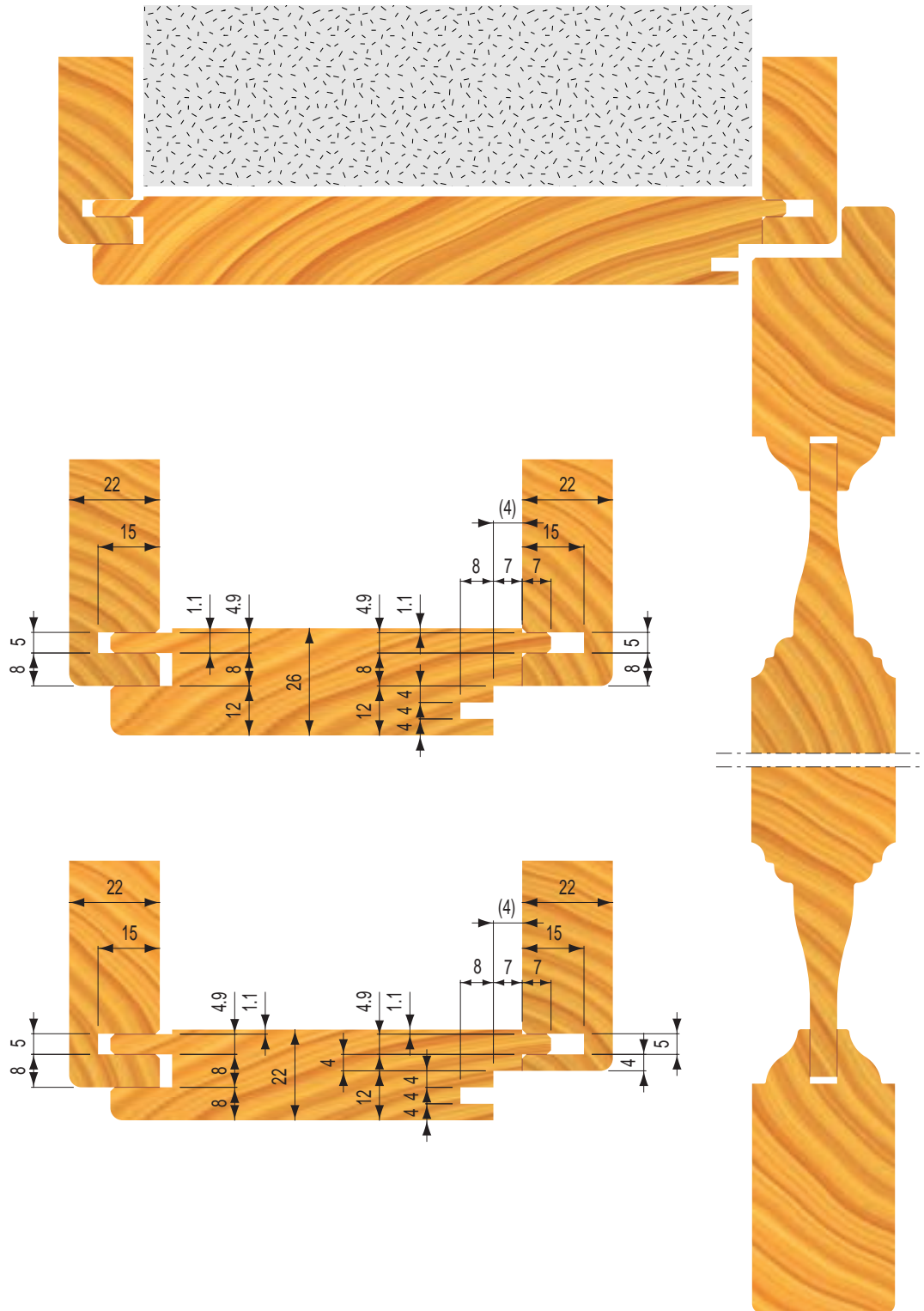
Ricambi
Spare parts
Ersatzteile

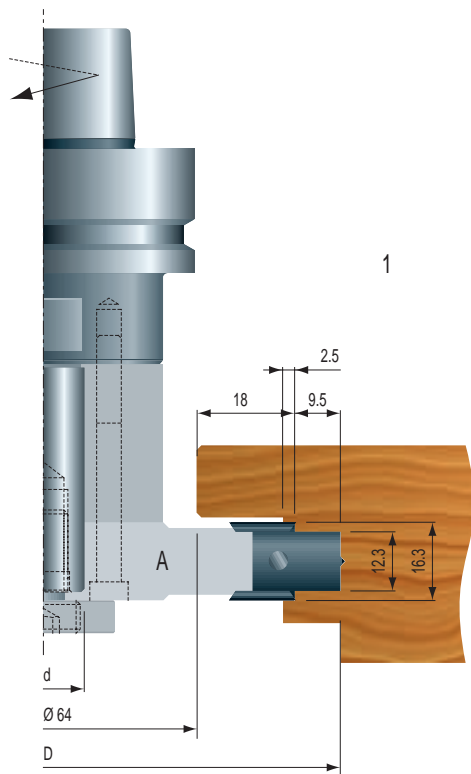


	Art. Nr.	604114	340036	501302					
A	Dim./Dim./Abm.	25x22x2	23	M 6x16					
	€ pz./pc./St.								
	Art. Nr.	600017	340036	501302	600704	500205	600201	500002	
B	Dim./Dim./Abm.	24,7x12x1,5	23	M 6x16	48x4x16	M 6x15	14x14x2	M 5x6,5	
	€ pz./pc./St.								
	Art. Nr.	604115	340027	501302	600604	500206			
C	Dim./Dim./Abm.	35x29,5x2	31	M 6x16	27x6x14	M 6x19			
	€ pz./pc./St.								
	Art. Nr.	604114	340036	501302					
D	Dim./Dim./Abm.	25x22x2	23	M 6x16					
	€ pz./pc./St.								

T Art. Nr. 400113 mm 3 €
Art. Nr. 400114 mm 4 €

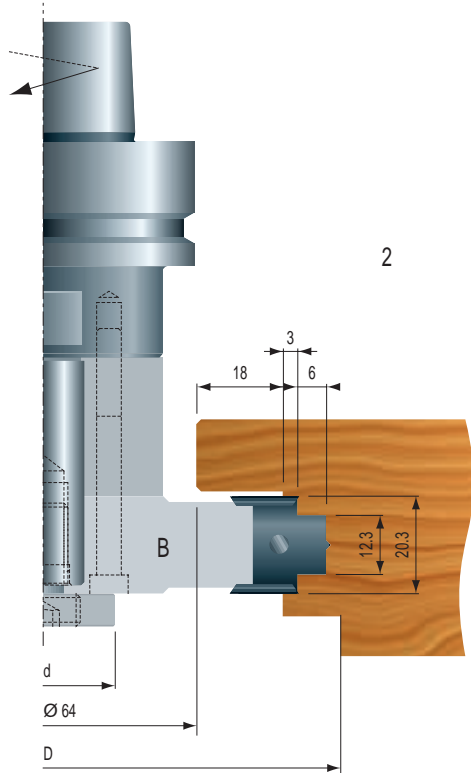






Adatto per
Suitable for
Geignet für

1A+1B AGB FORMATS MAICO
ROTO CENTRO SIEGENIA FAVORIT
WEIDTMANN KURIER




Adatto per
Suitable for
Geignet für

GU

Gruppo completo di mandrino e utensile con coltelli profilati.

Router set complete with chuck and profiled knives.

Auf entsprechenden Schäften verschraubte Fräsgarnituren.

Set	Art. Nr.	D (mm)	d (mm)		€
1	●GP60FM0505	124	20	ISO 30	
	●GP60FM0506	124	20	ISO 40	
	●GP60FM0507	124	20	ISO 30/SCM	
	●GP60FM0508	124	20	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	€
A	●PH60FM15020	124	16,3	20	2	4	


Ricambi
Spare parts
Ersatzteile



Art. Nr.	601464	502402	350017	600201	500002
PH60FM15020 Dim./Dim./Abm.	16x24,5x2	M 7x21	14	14x14x2	M 5x7
€ pz./pc./St.					
Art. Nr.	601465	502402	350005	600201	500002
PH60FM16020 Dim./Dim./Abm.	16x24,5x2	M 7x21	16	14x14x2	M 5x7
€ pz./pc./St.					



Art. Nr. 400115 mm 5 €

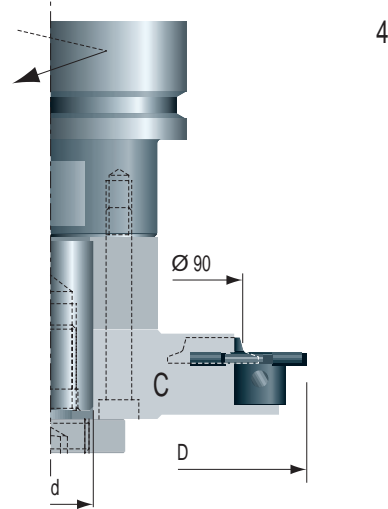
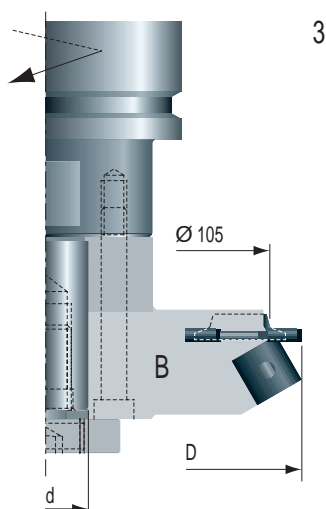
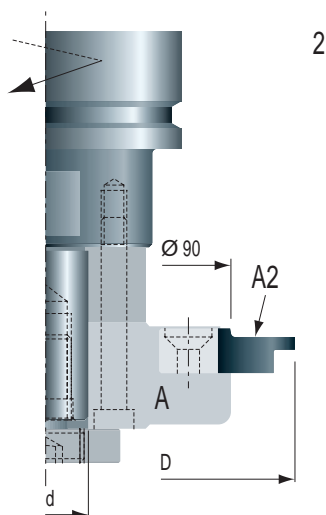
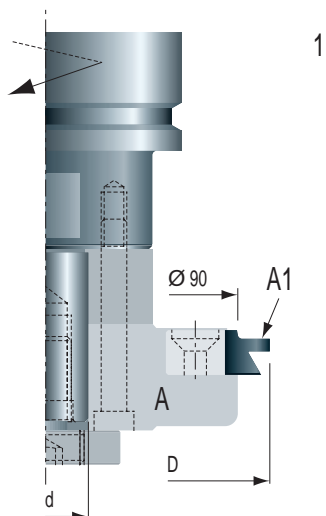
Set	Art. Nr.	D (mm)	d (mm)		€
2	●GP60FM0605	118	20	ISO 30	
	●GP60FM0606	118	20	ISO 40	
	●GP60FM0607	118	20	ISO 30/SCM	
	●GP60FM0608	118	20	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	€
B	●PH60FM16020	118	20,3	20	2	4	

Gruppo completo di mandrino e utensile in versione standard 1-2 e per elevate produzioni 3-4, per eseguire le sedi di guarnizione indicate a pag. 116.

Router set complete with chuck. Sets 1-2 are suitable for normal production; sets 3-4, for high production. The window gaskets are shown on page 116.

Werkzeuge auf Schaft montiert. Werkzeuge 1 und 2 sind unsere Standard-Ausführung, Werkzeuge 3 und 4 fertigen wir auf Anfrage. Technische Details siehe Seite 116.



Set	Art. Nr.	D (mm)	d (mm)	Z		€
1	●GP34FM1001	105	20	3	ISO 30	
	●GP34FM1002	105	20	3	ISO 40	
	●GP34FM1003	105	20	3	ISO 30/SCM	
	●GP34FM1004	105	20	3	HSK 63F	
2	GP34FM1101	120	20	3	ISO 30	
	GP34FM1102	120	20	3	ISO 40	
	GP34FM1103	120	20	3	ISO 30/SCM	
	GP34FM1104	120	20	3	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	V	S	I	€
A	●PH34FM01020	105	25	20				3	
B	PH34FM02020	120	25	20	2		2	2	
C	PH34FM03020	120	20	20	2	2	2	2	

Set	Art. Nr.	D (mm)	d (mm)	Z		€
3	GP34FM1201	120	20	2	ISO 30	
	GP34FM1202	120	20	2	ISO 40	
	GP34FM1203	120	20	2	ISO 30/SCM	
	GP34FM1204	120	20	2	HSK 63F	
4	GP34FM1301	120	20	2	ISO 30	
	GP34FM1302	120	20	2	ISO 40	
	GP34FM1303	120	20	2	ISO 30/SCM	
	GP34FM1304	120	20	2	HSK 63F	

Profilo ottenibile con gruppo 1 e 3.

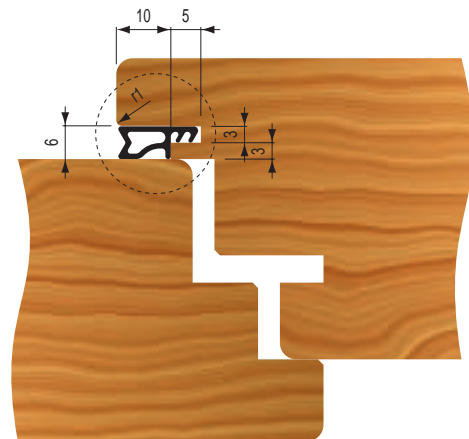
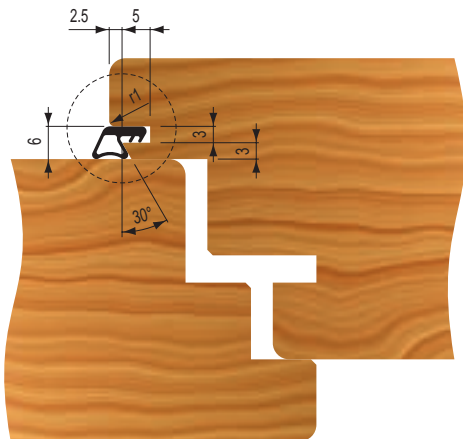
Set 1 and 3, obtainable profiles.


Bearbeitung mit Werkzeug 1 und 3.

Profilo ottenibile con gruppo 2 e 4.








Set 2 and 4, obtainable profiles.



Bearbeitung mit Werkzeug 2 und 4.














Ricambi Spare parts Ersatzteile	Type A1	Type A2	
Art. Nr.	600728	600727	500207
PH34FM01	Dim./Dim./Abm. 14x10,5x29,7	14x10,5x37,7	M 6x21
€ pz./pc./St.			

 Art. Nr. 400114 mm 4 €

Ricambi Spare parts Ersatzteile							
Art. Nr.	600002	350023	502403	600702	500211	600616	500209
PH34FM02	Dim./Dim./Abm. 12x12x1,5	9	M 5x18	48x3x16	M 6x14,5	27x6x14	M 6x15
€ pz./pc./St.							

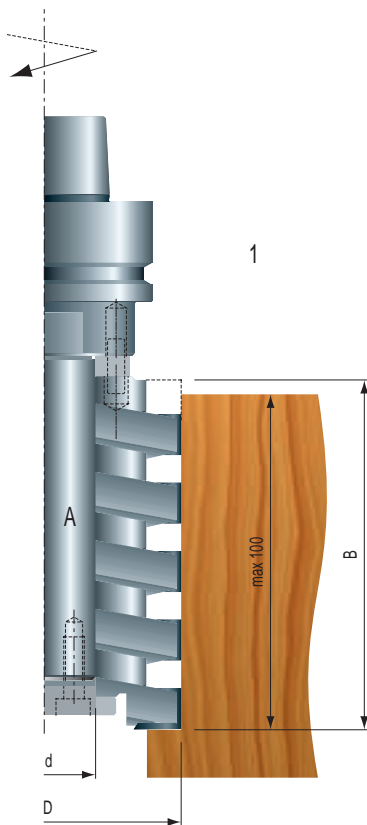
 Art. Nr. 400114 mm 4 €
 Art. Nr. 400420 T15 €

Ricambi Spare parts Ersatzteile									
Art. Nr.	600002	350089	502403	600702	500211	600616	500209	600201	500002
PH34FM03	Dim./Dim./Abm. 12x12x1,5	9	M 5x18	48x3x16	M 6x14,5	27x6x14	M 6x15	14x14x2	M 5x6,5
€ pz./pc./St.									

 Art. Nr. 400114 mm 4 €
 Art. Nr. 400420 T15 €

GRUPPO PER CONTORNARE
SPIRAL STAGGERED TOOTH ROUTER SET
WENDEPLATTEN-SPIRALFÜGEFRÄSER

GP33FM10
HW Z=4 PH33FM



Gruppo completo di mandrino e punta a sviluppo elicoidale con corpo in alluminio.
Router set complete with chuck and spiral aluminium cutterhead for roughing.
Werkzeug aus Aluminium, auf Schaft verschraubt.

Set	Art. Nr.	D (mm)	B (mm)	d (mm)	Z		€
1	●GP33FM1001	80	102	30	4	ISO 30	
	●GP33FM1002	80	102	30	4	ISO 40	
	●GP33FM1003	80	102	30	4	ISO 30/SCM	
	●GP33FM1004	80	102	30	4	HSK 63F	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	v	€
A	●PH33FA01030	80	102	30	20	2	

Ricambi
Spare parts
Ersatzteile

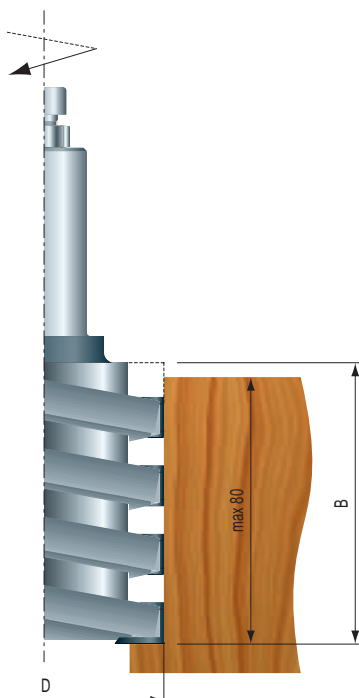
Art. Nr.	600002	340037	501402	600201	500002
Dim./Dim./Abm.	12x12x1,5	9	M 6x10	14x14x2	M 5x6,5

€ pz./pc./St.

Art. Nr. 400113 mm 3 €

PUNTA CON CORPO IN ACCIAIO A SVILUPPO ELICOIDALE PER CONTORNARE
SPIRAL STAGGERED TOOTH ROUTER WITH STEEL BODY
WENDEPLATTEN-SPIRALSCHAFTFRÄSER AUS STAHL

PH33FM
HW Z=4



Art. Nr.	D (mm)	B (mm)	Z	v	€
●PH33FM05	70	82	16	2	

Ricambi
Spare parts
Ersatzteile

Art. Nr.	600002	340033	501414	600201	500002
Dim./Dim./Abm.	12x12x1,5	9	M 6x8	14x14x2	M 5x6,5

€ pz./pc./St.

Art. Nr. 400113 mm 3 €


Attacco • Shank • Schaft

∅ 20x55 ∅ 25x55

Gruppo completo di mandrino e 2 utensili registrabili mediante anelli distanziali.

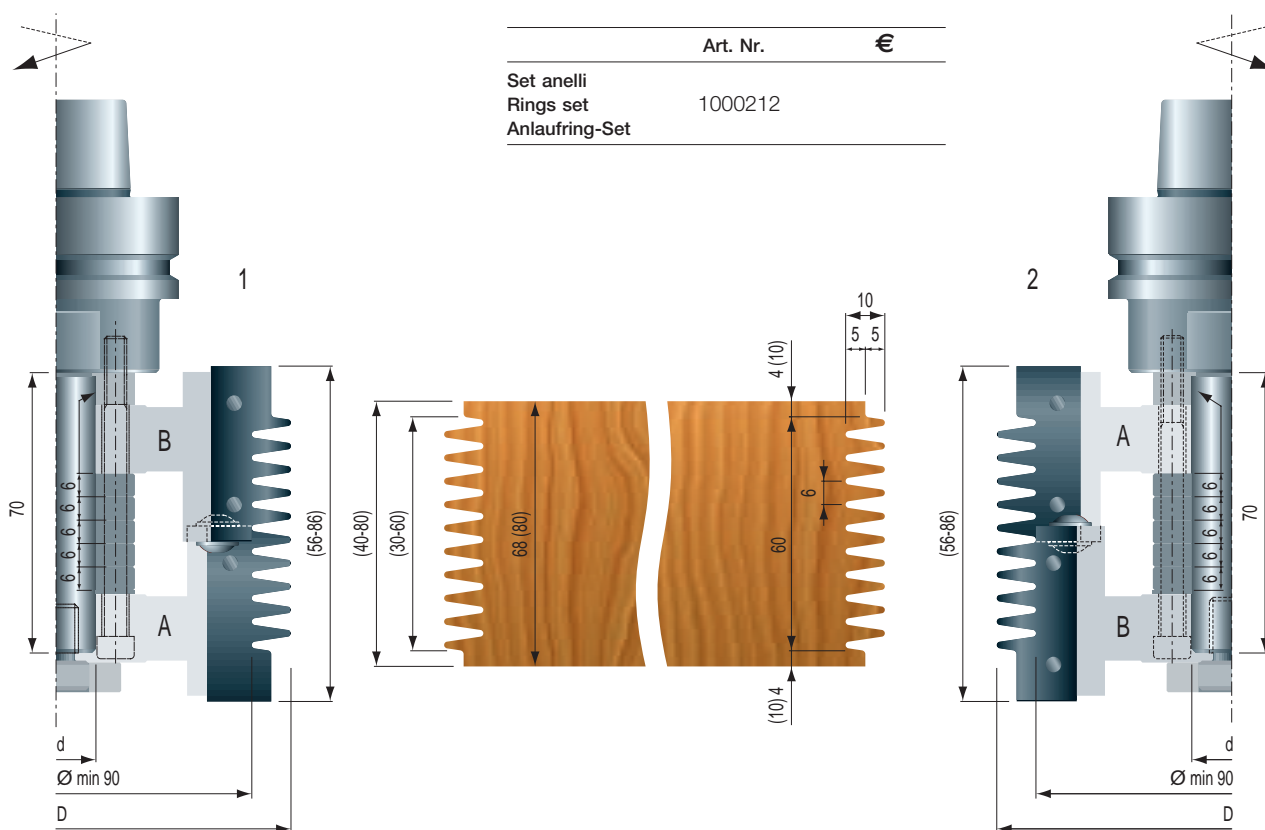
Router set complete with chuck composed of 2 adjustable cutterheads by means of spacing rings.





Zweiteiliger Werkzeugsatz, auf Schaft verschraubt, bestehend aus Profil- und Konterprofilgarnitur.


Set	Art. Nr.	D (mm)	d (mm)	Z		€
1	●GP60FM0711	110	20	2	ISO 30	
	●GP60FM0712	110	20	2	ISO 40	
	●GP60FM0713	110	20	2	ISO 30/SCM	
	●GP60FM0714	110	20	2	HSK 63F	
2	●GP60FM0721	110	20	2	ISO 30	
	●GP60FM0722	110	20	2	ISO 40	
	●GP60FM0723	110	20	2	ISO 30/SCM	
	●GP60FM0724	110	20	2	HSK 63F	

Set	Art. Nr.	€
A+B	●GP60FM07020	

	Art. Nr.	€
Set anelli Rings set Anlaufring-Set	1000212	

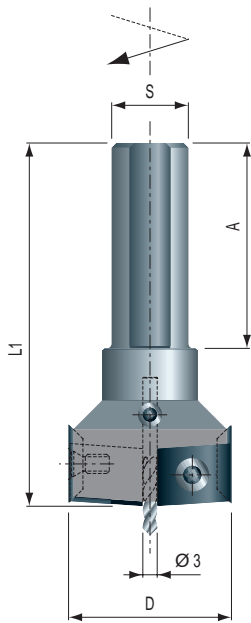


Ricambi Spare Parts Ersatzteile				
Type	A	B		
	Art. Nr. 601366	601367	340032	501412
GP60FM07020	Dim./Dim./Abm. 45x23x2	45x23x2	42	M 8x14
	€ pz./pc./St.			

 Art. Nr. 400114 mm 4 €

PUNTA PER CERNIERE A COLTELLI INTERCAMBIABILI
DISPOSABLE KNIFE HINGE BORING BIT
WENDEPLATTEN-SCHARNIERLOCHBOHRER

PH11FM
HW Z=2+2



Art. Nr.	D (mm)	L1 (mm)	SxA	Z	€
PH11FM01C10	34	55,5	10x28	2+2	

Ricambi

Spare parts
Ersatzteile



Art. Nr.	600190	502332	600210	502307	P174RM0350
Dim./Dim./Abm.	16x12x1,5	M 4	18x8	M 3x7	Ø 3

€ pz./pc./St.



Art. Nr. 400405 T15

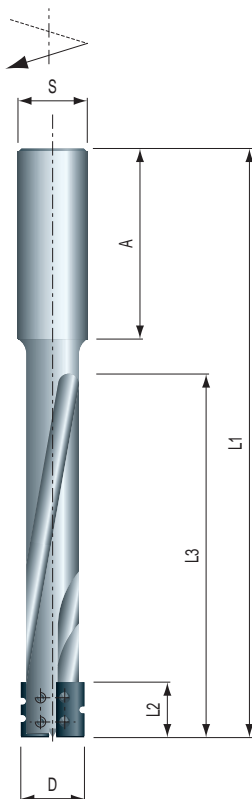
€

Art. Nr. 400406 T8

€

PUNTE PER SERRATURE A INSERTI
DISPOSABLE KNIFE ROUTERS FOR DOOR LOCKS
WECHSELPLATTEN-SCHLOSSKASTENFRÄSER

PH30FM
HW Z=2



Art. Nr.	D (mm)	L2 (mm)	L3 (mm)	L1 (mm)	SxA (mm)	Z	€
PH30FM01C16	16	16	105	170	16x55	2	
PH30FM01C20	16	16	105	170	20x55	2	

Altri tipi di attacco a richiesta.

Other types of shank are available on request.

Andere Abmessungen auf Anfrage. Spannflächen für Weldonaufnahmen gegen Mehrpreis € 36,00

Ricambi

Spare parts
Ersatzteile



Art. Nr.	600095	600096	502331
Dim./Dim./Abm.	16x7x1,5	16x7x1,5	M 3x4

€ pz./pc./St.



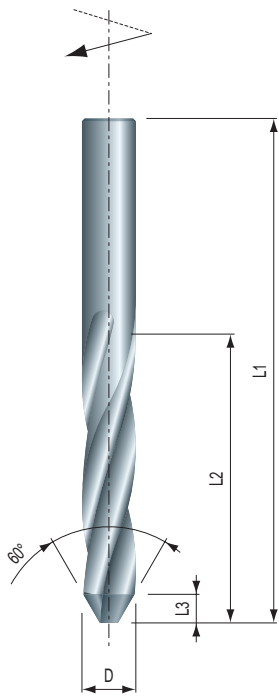
Art. Nr. 400401 T9

€

P180

HW Z=3

PUNTE PER SPIONCINI SOLID CARBIDE ROUTER FOR SPYHOLES VHM-DRÜCKERLOCH- UND SCHLOSSZYLINDERFRÄSER

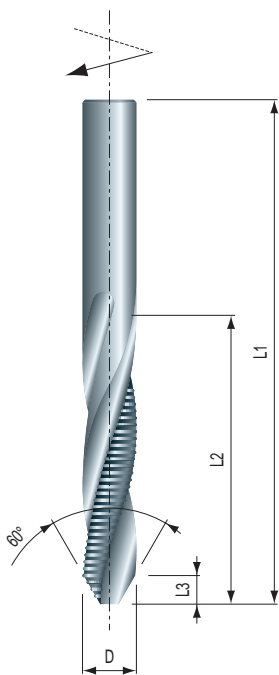


Art. Nr.	D (mm)	L2 (mm)	L1 (mm)	L3 (mm)	Z	€
P180RM14100	14	42	100	8	3	
P180RM16120	16	52	120	9	3	
P180RM16140	16	73	140	9	3	

P280

HW Z=3

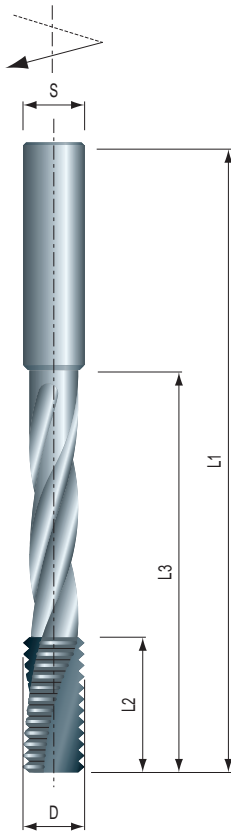
PUNTE PER SPIONCINI CON ROMPITRUCIOLO SOLID CARBIDE ROUTER WITH CHIPBREAKER FOR SPYHOLES VHM-DRÜCKERLOCH- UND SCHLOSSZYLINDERFRÄSER MIT SPANBRECHERN



Art. Nr.	D (mm)	L2 (mm)	L1 (mm)	L3 (mm)	Z	€
P280RM1675	16	75	140	9	3	

PUNTE INTEGRALI CON ROMPITRUCIOLO PER SERRATURE
 SOLID CARBIDE ROUTERS WITH CHIPBREAKER FOR DOOR LOCKS
 VHM-SCHLOSSKASTENFRÄSER

P288
 HW Z=3

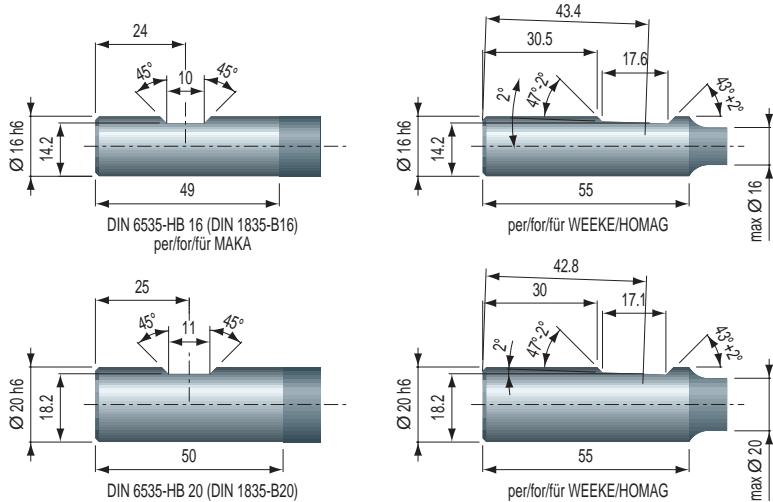


Art. Nr.	D (mm)	L2 (mm)	L3 (mm)	L1 (mm)	S (mm)	Z	€
P288RM14155	14	25	100	155	14	3	
P288RM16155	16	25	100	155	16	3	
P288RM16170	16	30	115	170	16	3	
P288RM18170	18	30	120	170	20	3	

Altri tipi di attacco a richiesta.

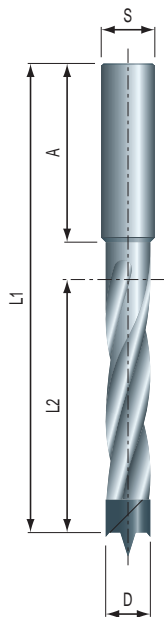
Other types of shank are available on request.

Andere Abmessungen auf Anfrage. Spannflächen für Weldonaufnahmen gegen Mehrpreis € 36,00.

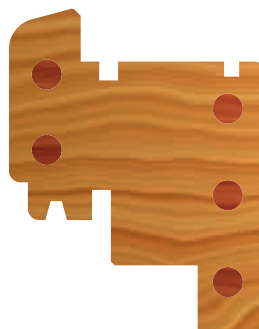


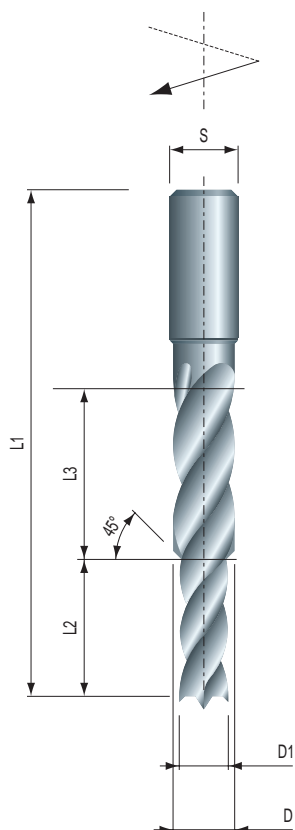
PUNTE PER FORI CIECHI, CENTRINO LUNGO
 LONG DOWEL DRILLS FOR BLIND HOLES
 HW-DÜBELBOHRER LANGE AUSFÜHRUNG

P263
 HW

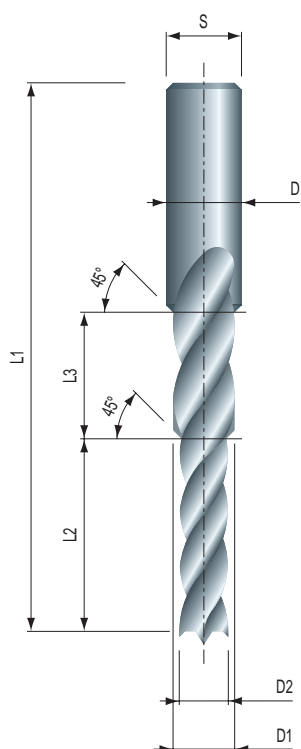


Art. Nr.	Art. Nr.	D (mm)	L2 (mm)	L1 (mm)	SxA (mm)	€
P263RM0565	P263LM0565	5	65	115	10x30	
P263RM0665	P263LM0665	6	65	115	10x30	
P263RM0865	P263LM0865	8	65	115	10x30	
P263RM1065	P263LM1065	10	65	115	10x30	
P263RM1265	P263LM1265	12	65	115	10x30	
P263RM1465	P263LM1465	14	65	115	10x30	



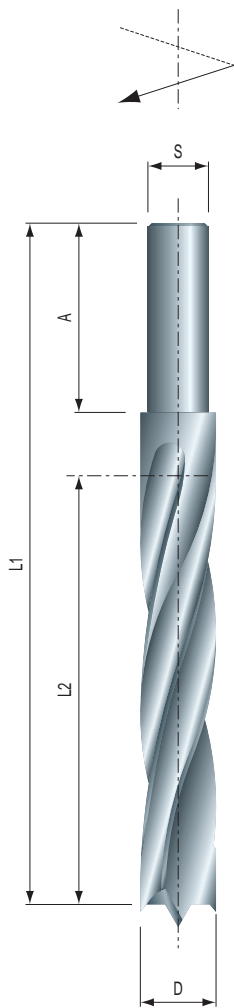


Anuba Ø (mm)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	S (mm)	Art. Nr.	€
13	6,5	5,4	80	20	30	6,5	P262RS6580	
13	6,75	5,7	105	20	45	6,75	P262RS6715	
14	7	6	80	20	30	7	P262RS0780	
14	7,25	6,25	90	25	35	7,25	P262RS7290	
14	7,25	6,25	105	20	45	7,25	P262RS7215	
14,5	7,2	6,3	105	24	40	10	P262RS7210	
16	7,75	6,5	90	25	35	7,75	P262RS7790	
16	7,75	6,5	110	20	50	7,75	P262RS7711	
18	8,5	6,7	90	25	35	8,5	P262RS8590	
18	8,5	6,7	110	25	45	8,5	P262RS8511	
20	6,8	6	105	15	50	10	P262RS6815	
20	9,8	8,8	105	30	35	10	P262RS9815	

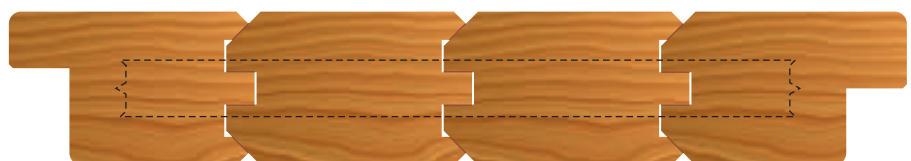
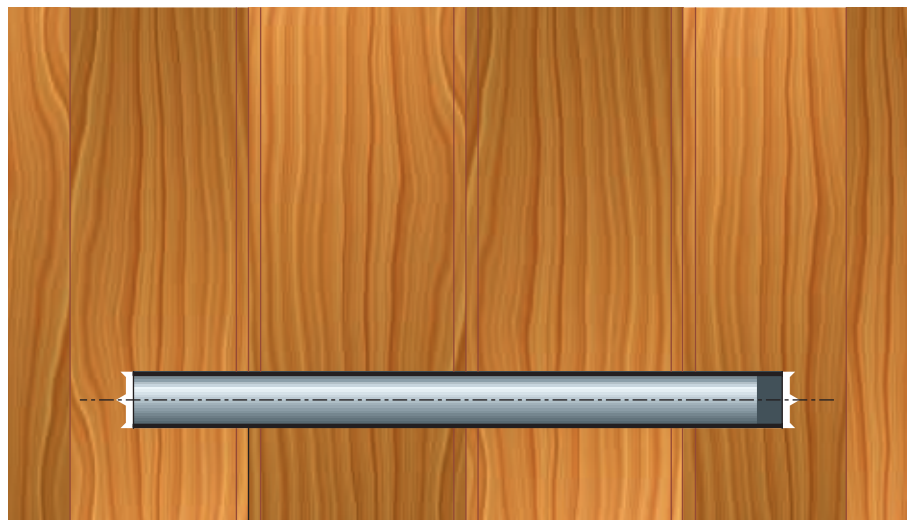


SERIE A 3 GRADINI 3 STEPS TYPE AUSFÜHRUNG MIT DREI STUFEN

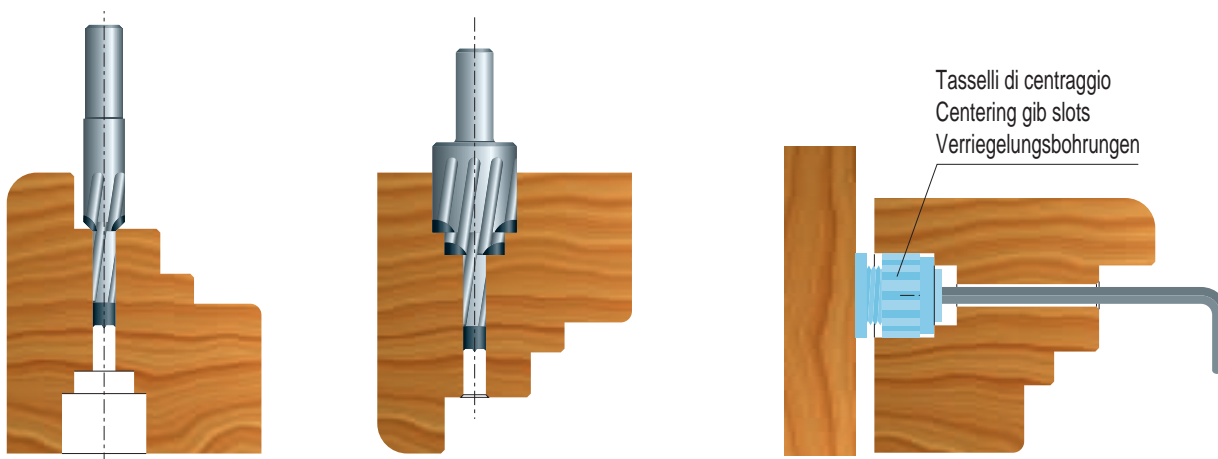
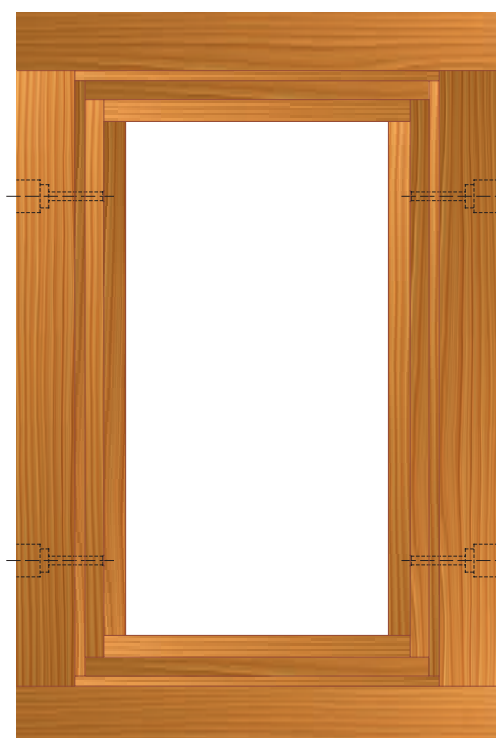
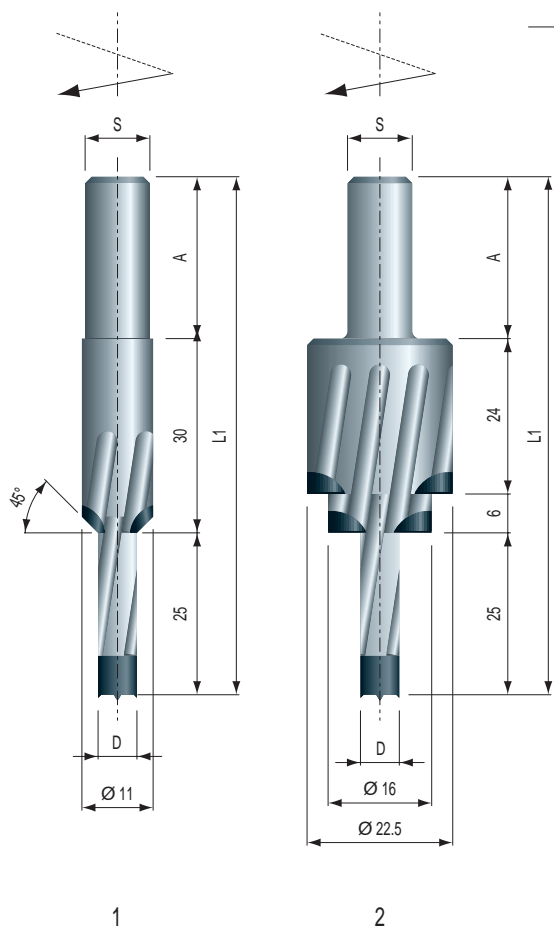
D (mm)	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	S (mm)	Art. Nr.	€
10	7,3	5,5	120	40	20	10x40	P262RS7312	
10	7,3	5,5	155	55	20	10x60	P262RS7315	



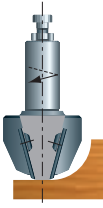
Art. Nr.	D (mm)	L2 (mm)	L1 (mm)	Z	SxA (mm)	€
P264RS10110	10	110	180	2	12x50	
P264RS14110	14	110	180	2	12x50	
P264RS16110	16	110	180	2	12x50	
P264RS20110	20	110	180	2	12x50	



Type	Art. Nr.	D (mm)	L1 (mm)	SxA (mm)	Z	€
1	P265RM0600	6	80	10x25	2	
2	P265RM2250	6	80	10x25	2	



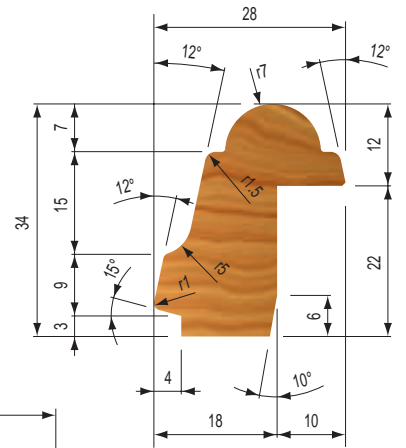
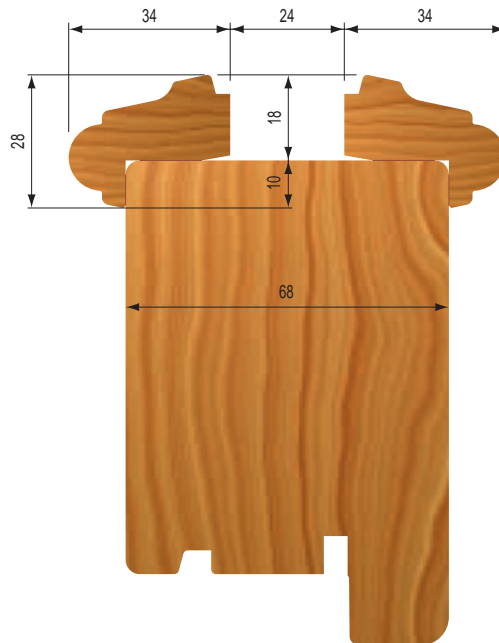
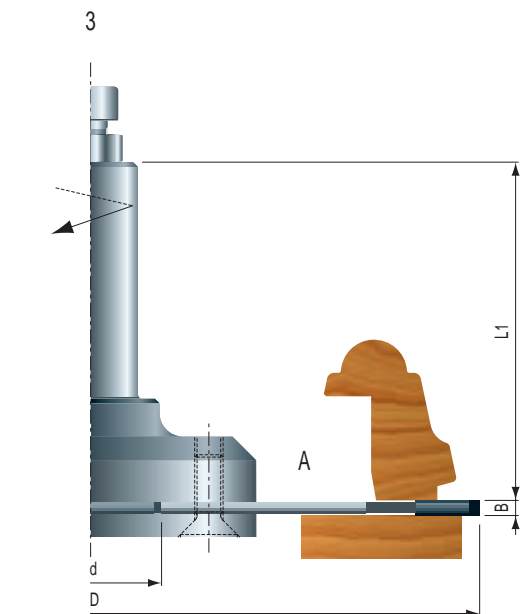
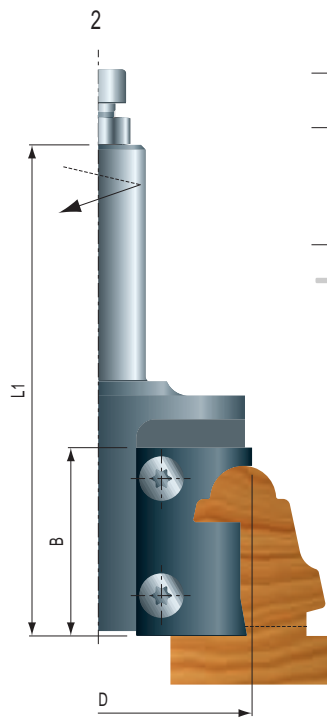
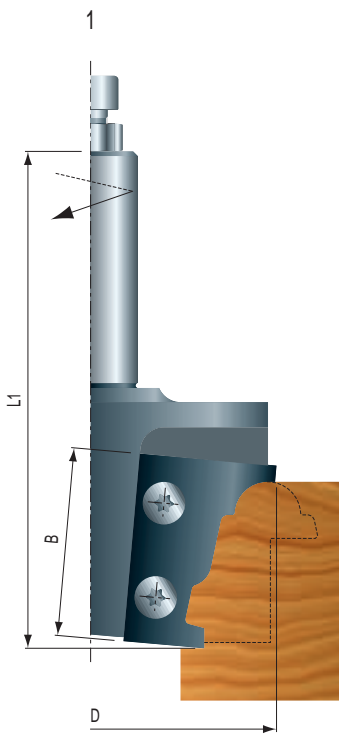
PUNTE PER LISTELLI FERMAVETRO CURVI PH62 GP28
 GLASS-SECURING STRIP ROUTERS HW Z=2
 WERKZEUGE ZUR GLASLEISTENFERTIGUNG



Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	Z	€
1	●PH62FM01	78	40	105	2	
2	●PH62FM02	65	40	105	2	
3	●GP28FM01	150	3,2	71,5	24	

Type	Art. Nr.	D (mm)	B (mm)	d (mm)	Z	€
A	●U1415032024030	150	3,2	30	24	

Attacco • Shank • Schaft
 Ø 20x55 Ø 25x55



Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
1	40x30x2	601369	
2	40x30x2	601370	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €

P175 P203
PH59 HW Z=2

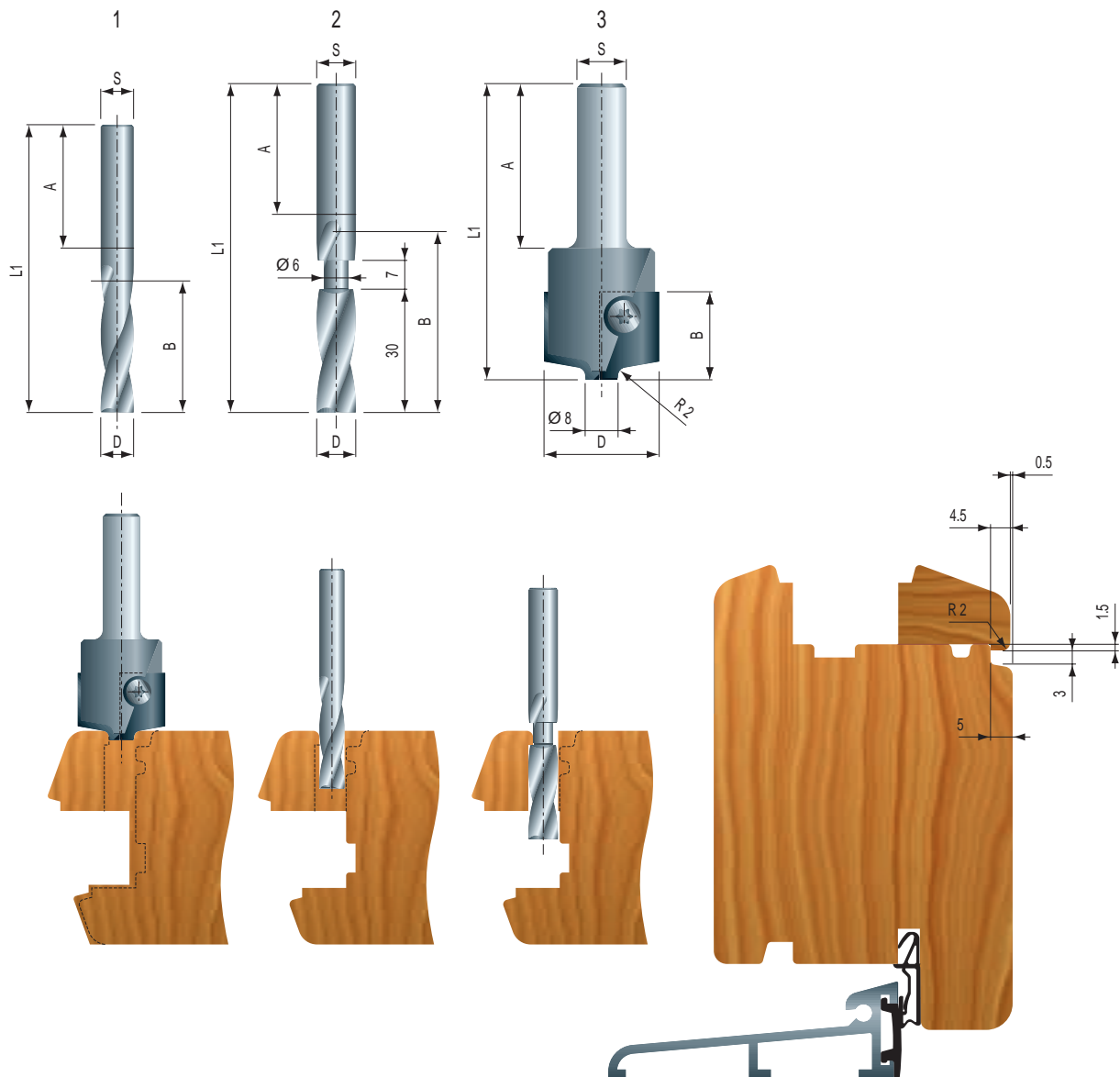
PUNTE PER RECUPERO LISTELLO CON BATTUTA
GLASS-SECURING STRIP ROUTERS
WERKZEUGE FÜR GLASLEISTENTRENNUNG

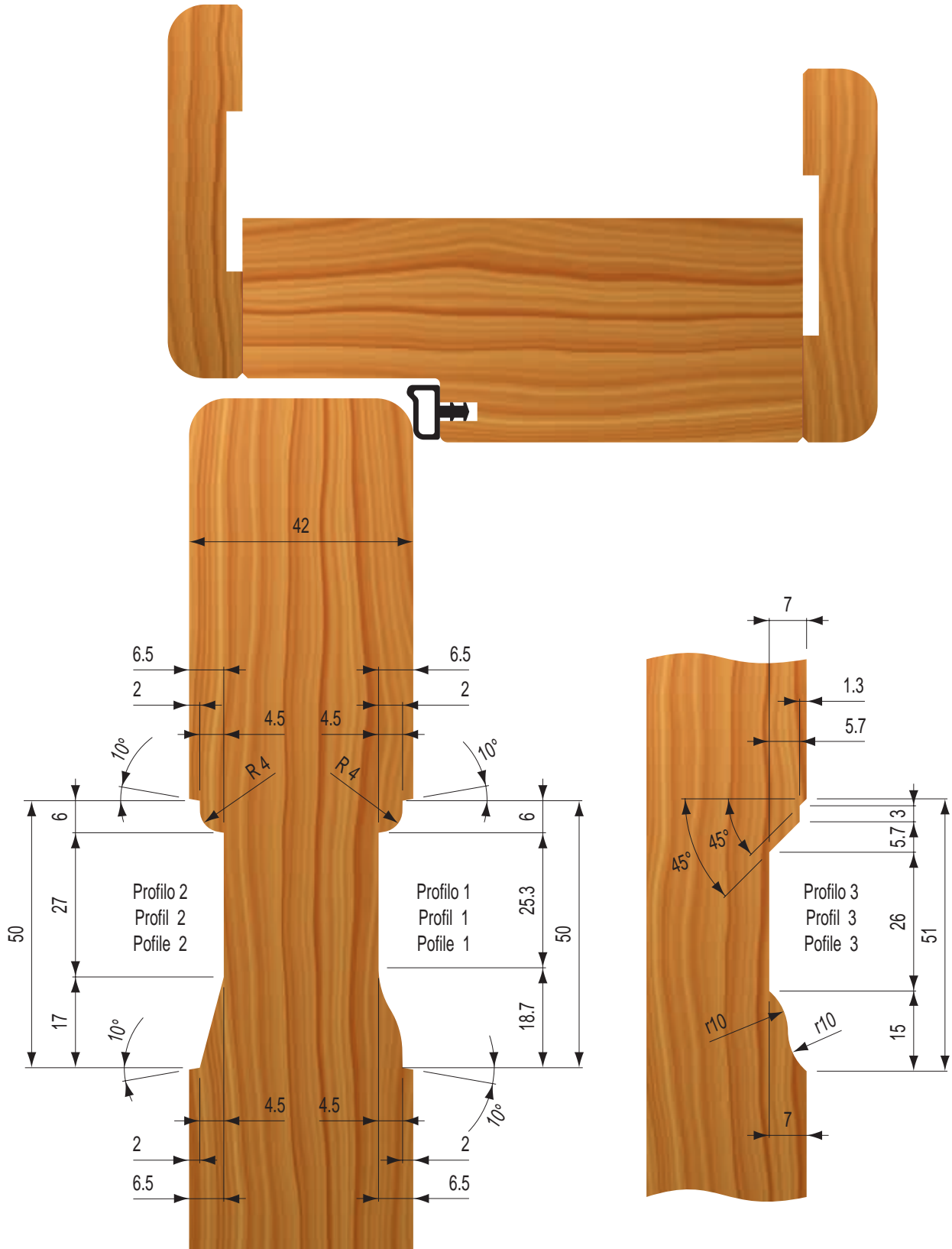
Type	Art. Nr.	D (mm)	B (mm)	L1 (mm)	SxA (mm)	Z	€
1	●P175RM0832	8	32	70	8x30	2	
2	●P203RM9542	9,5	42	80	9,5x30	2	
3	●PH59FM01C12	30	21	72	12x40	2	

Type	Dimensioni Dimensions Abmessungen	Art. Nr.	€
3	21,5x15,5x1,5	601368	

Dimensioni Dimensions Abmessungen	Art. Nr.	€ pz./pc./St.
M 4x7	502305	

Art. Nr. 400405 T15 €



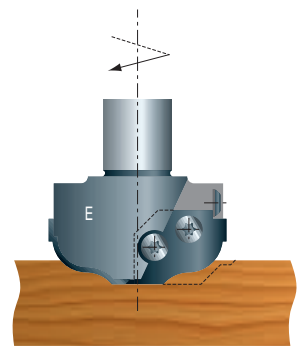
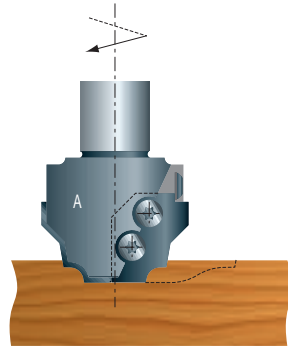
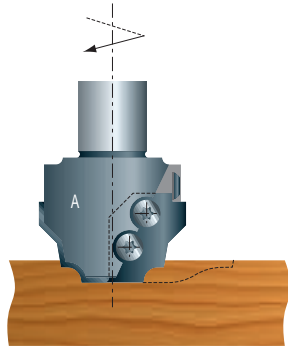


PROFILO 1
 PROFILE 1
 PROFIL 1

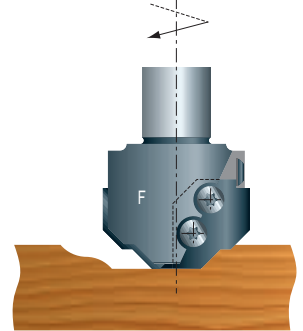
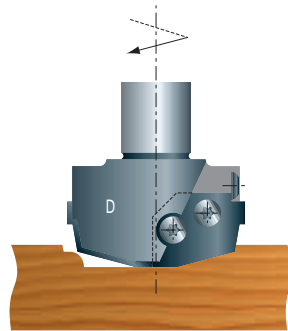
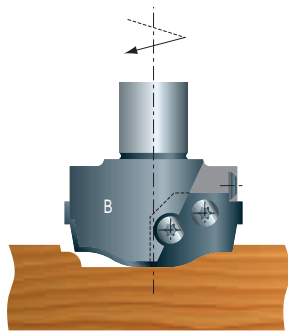
PROFILO 2
 PROFILE 2
 PROFIL 2

PROFILO 3
 PROFILE 3
 PROFIL 3

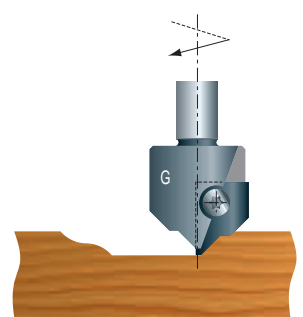
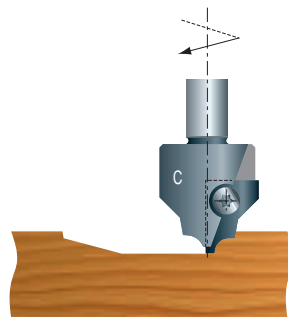
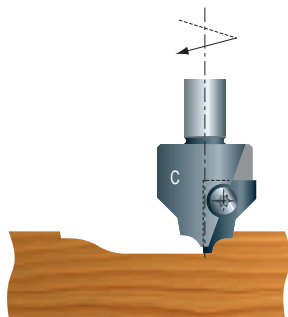
Prima fase
 First step
 Erste Fase



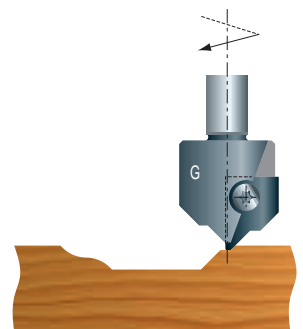
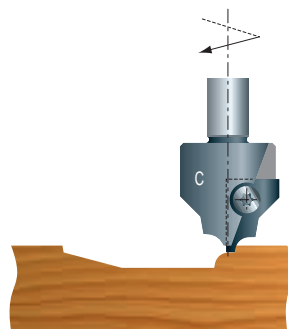
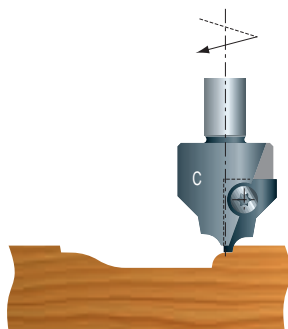
Seconda fase
 Second step
 Zweite Fase



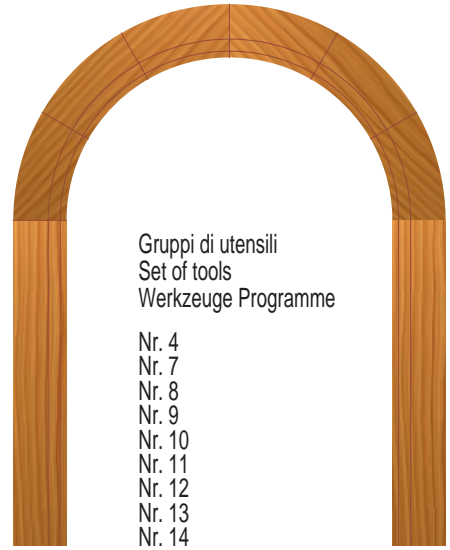
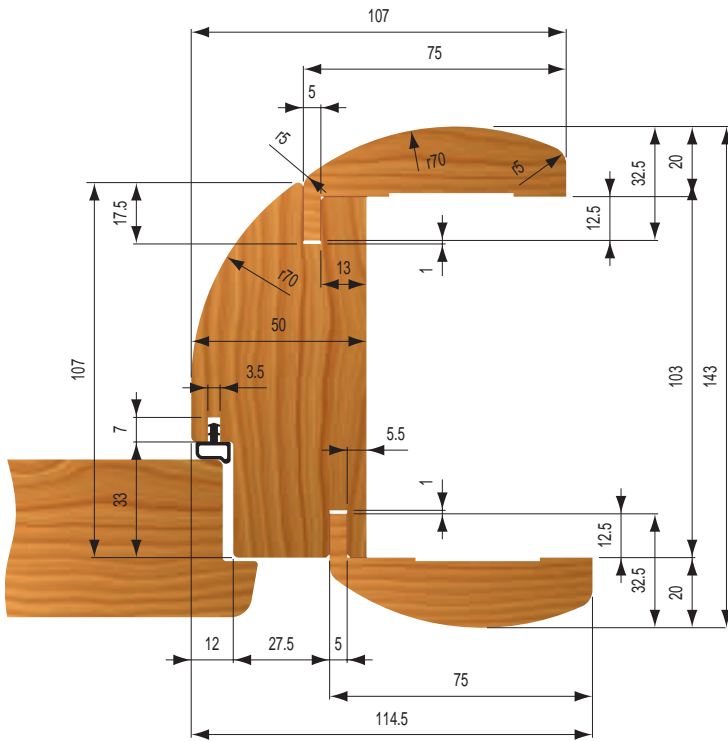
Terza fase
 Third step
 Dritte Fase



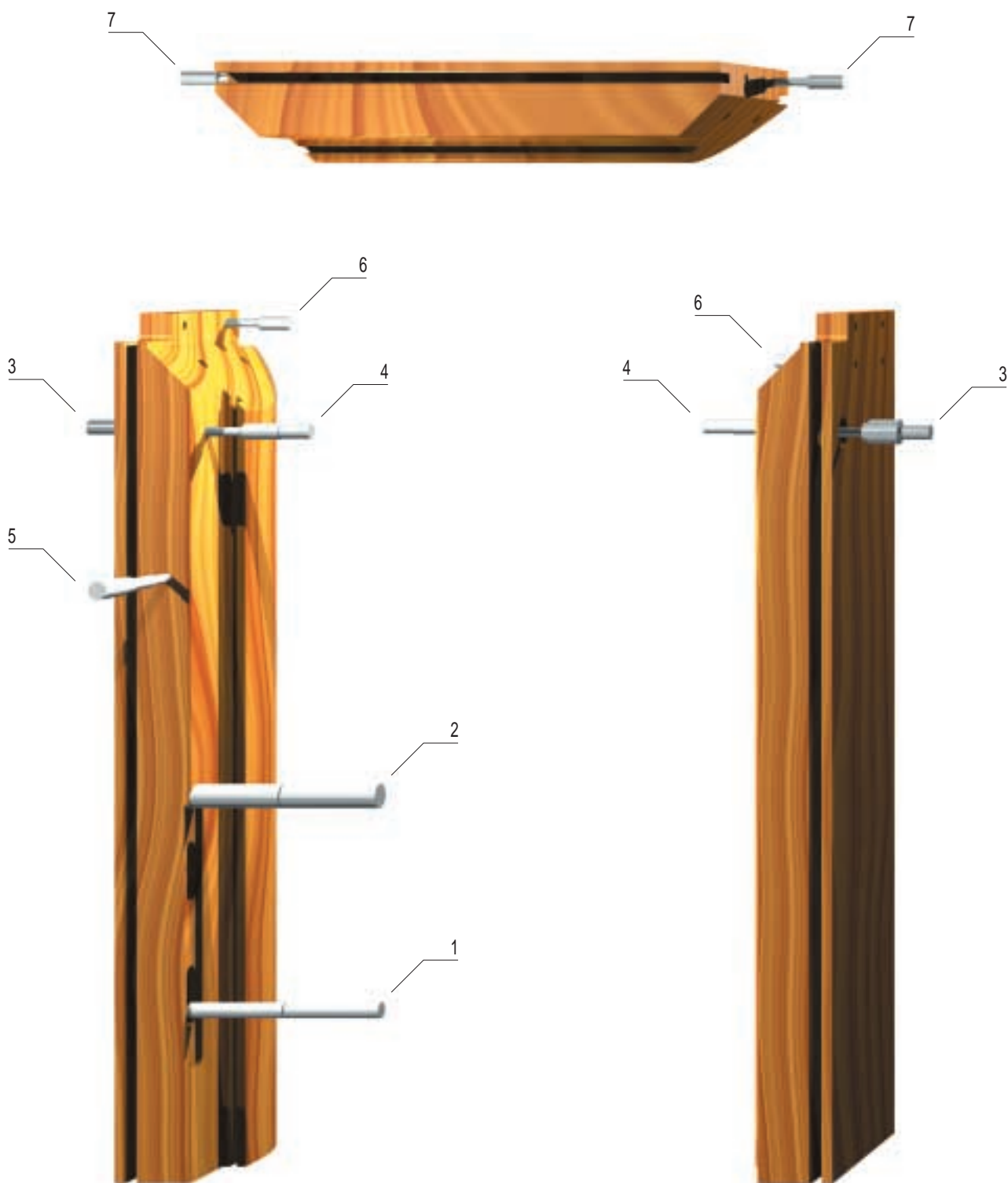
Quarta fase
 Fourth step
 Vierte Fase



TELAIO PER PORTE A PROFILO CURVO-ESEMPI DI LAVORAZIONE
 DOOR FRAME ROUND PROFILES PROGRAMME-WORKING EXAMPLES
 TÜRFUTTER-BEARBEITUNGSBEISPIELE



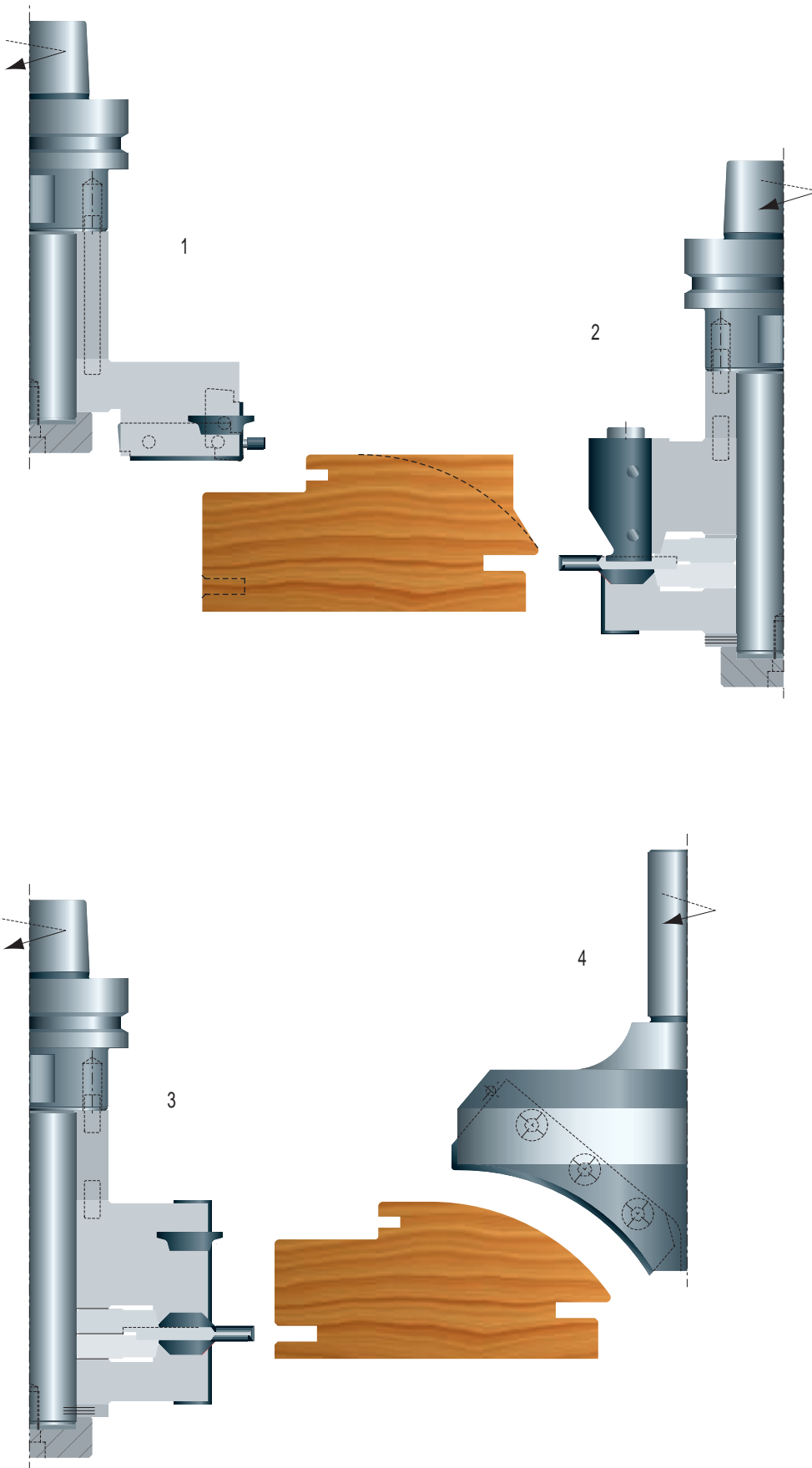
TELAIO PER PORTE A PROFILO CURVO
 ROUNDED DOOR FRAME
 RUNDBOGENTÜREN

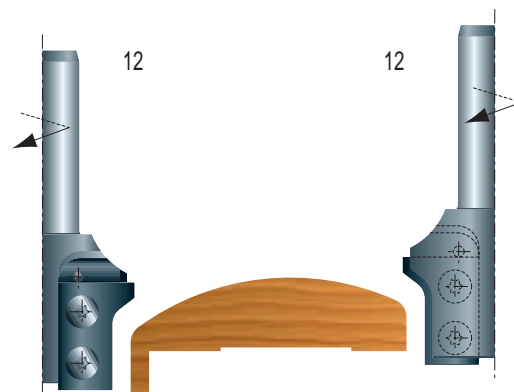
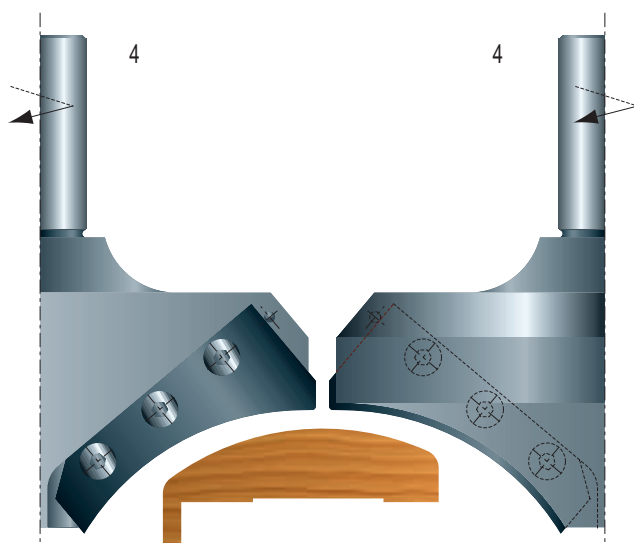
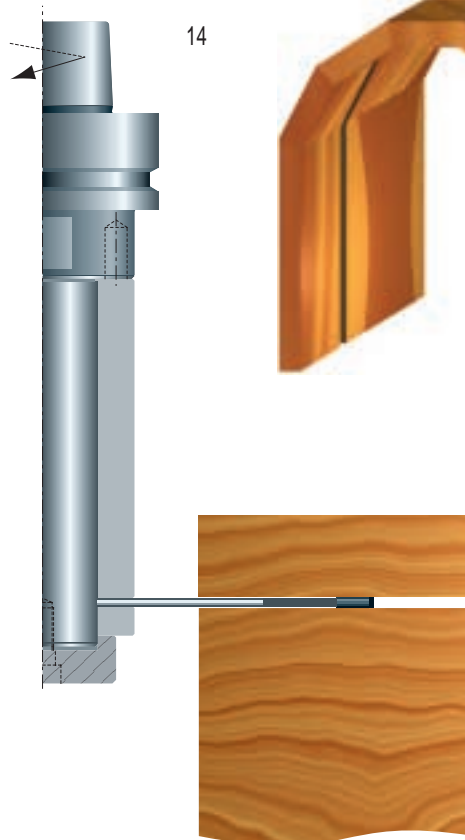
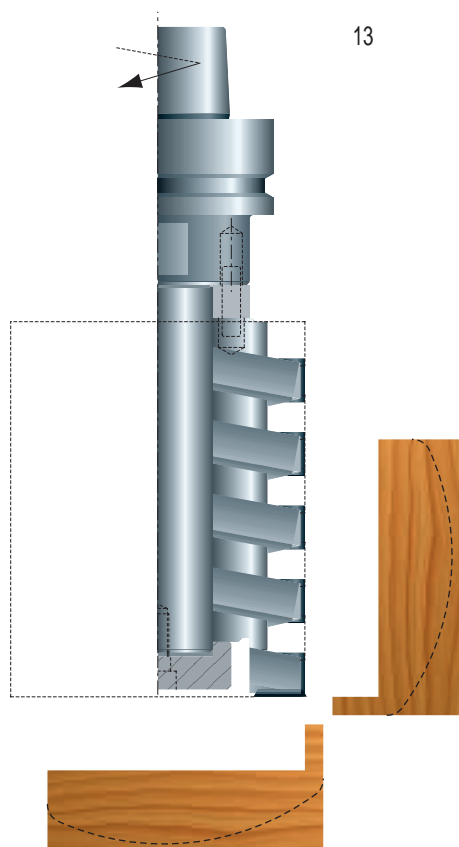


1. Punta elicoidale a forare e contornare Ø 12
2. Punta elicoidale a forare e contornare Ø 16
3. Punta per sedi tasselli di centraggio Ø 22,5
4. Punta per sedi tasselli di centraggio Ø 6
5. Punta per Anube
6. Punta per fori passanti Ø 5
7. Punta per fori ciechi Ø 3

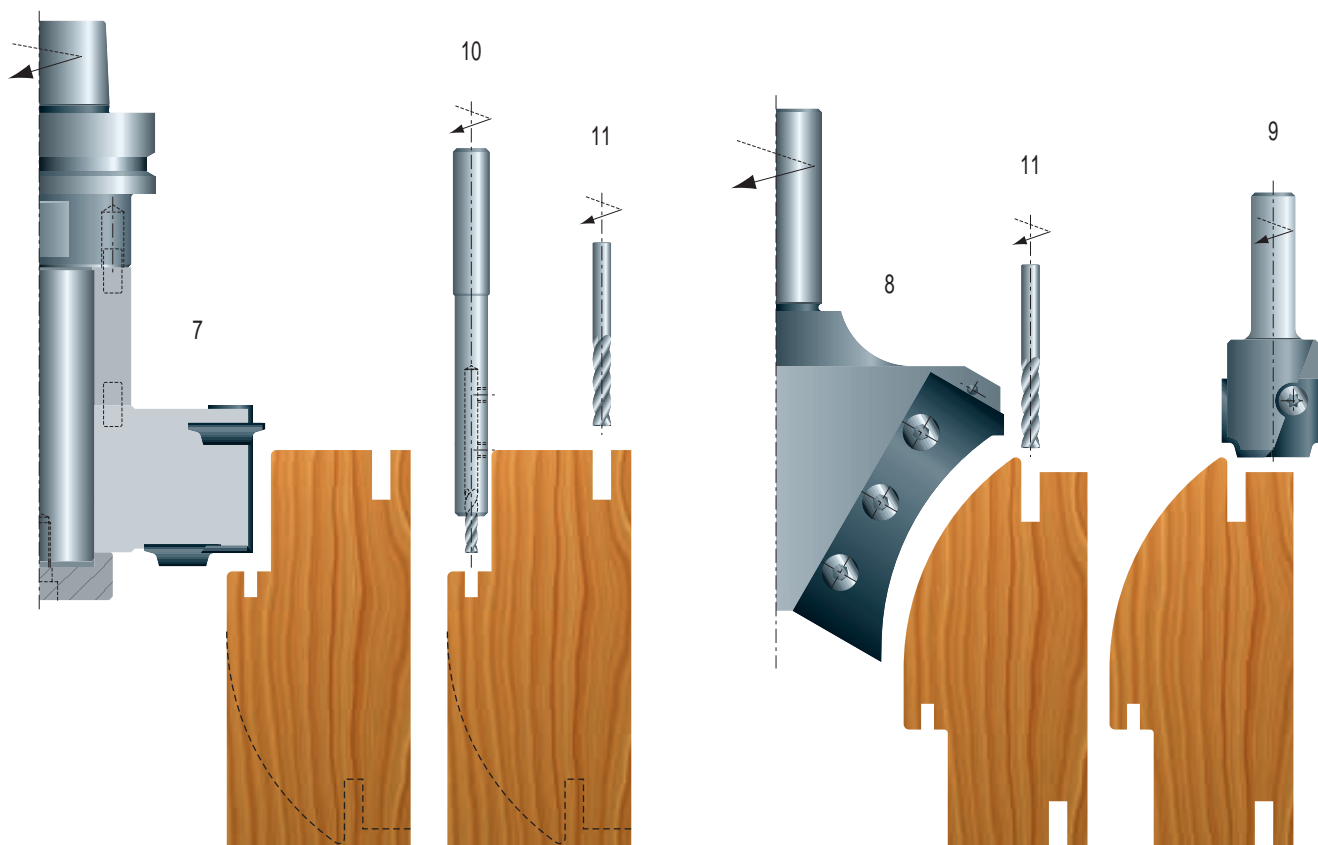
- Solid router with spiral Ø 12
 Solid router with spiral Ø 16
 Drill for centering gib slots Ø 22,5
 Drill for centering gib slots Ø 6
 Twist drill for door frame hinges
 Drill for through-out drilling Ø 5
 Drill for blind drilling Ø 3

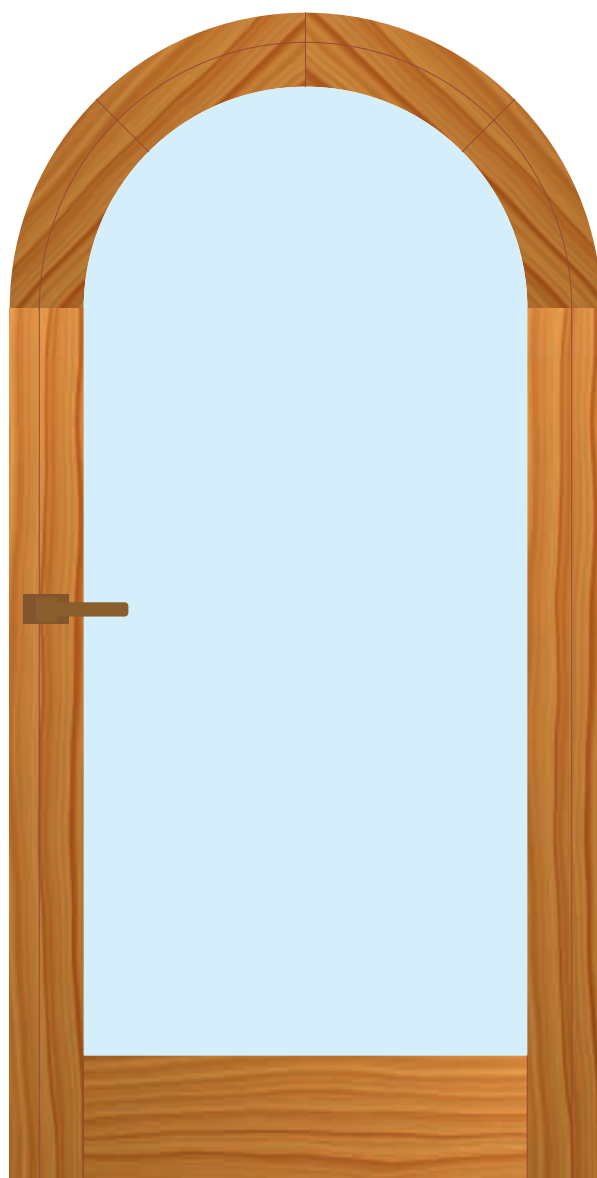
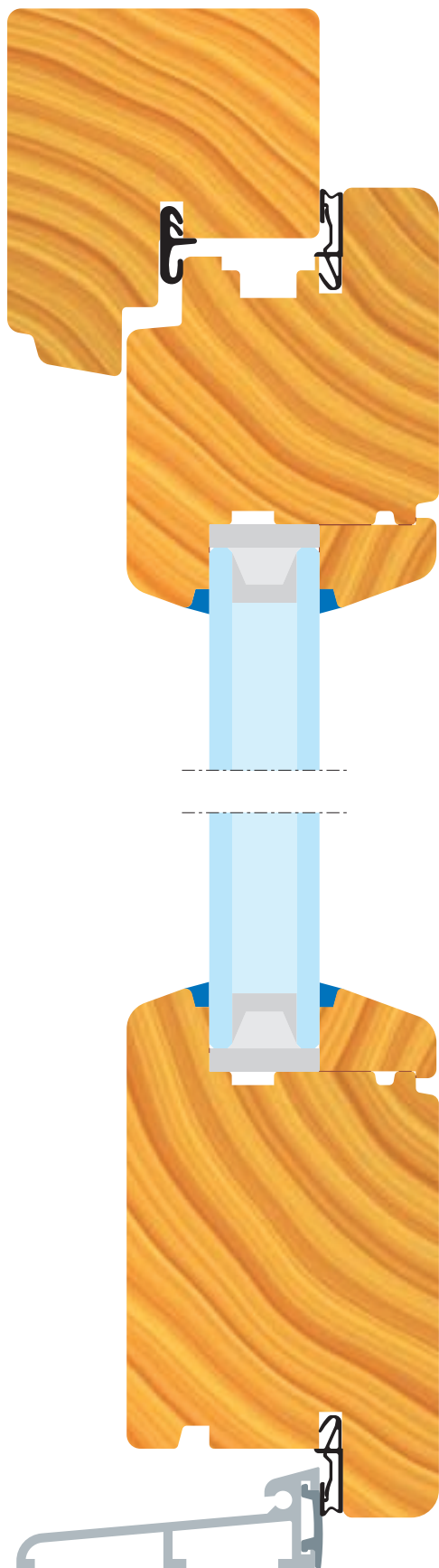
- Spiralschichtfräser Ø 12
 Spiralschichtfräser Ø 16
 Stufenbohrer für Verriegelungsbohrungen Ø 22,5
 Stufenbohrer für Verriegelungsbohrungen Ø 6
 Stufenbohrer für Anuba-Bänder
 Bohrer für Durchgangsbohrungen Ø 5
 Bohrer für Sacklockbohrungen Ø 3

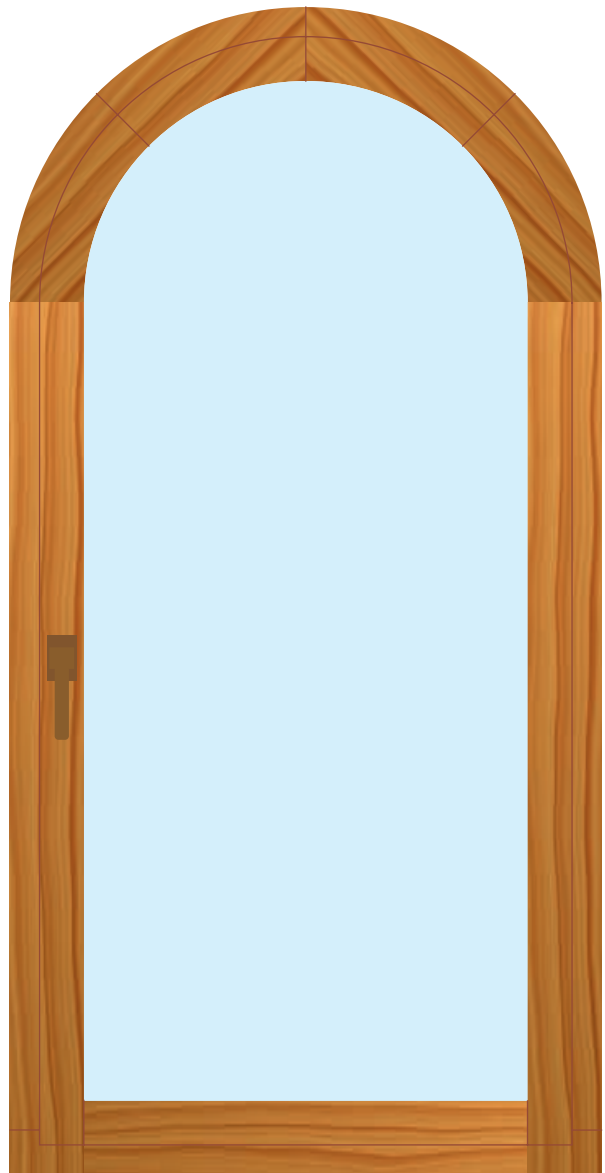
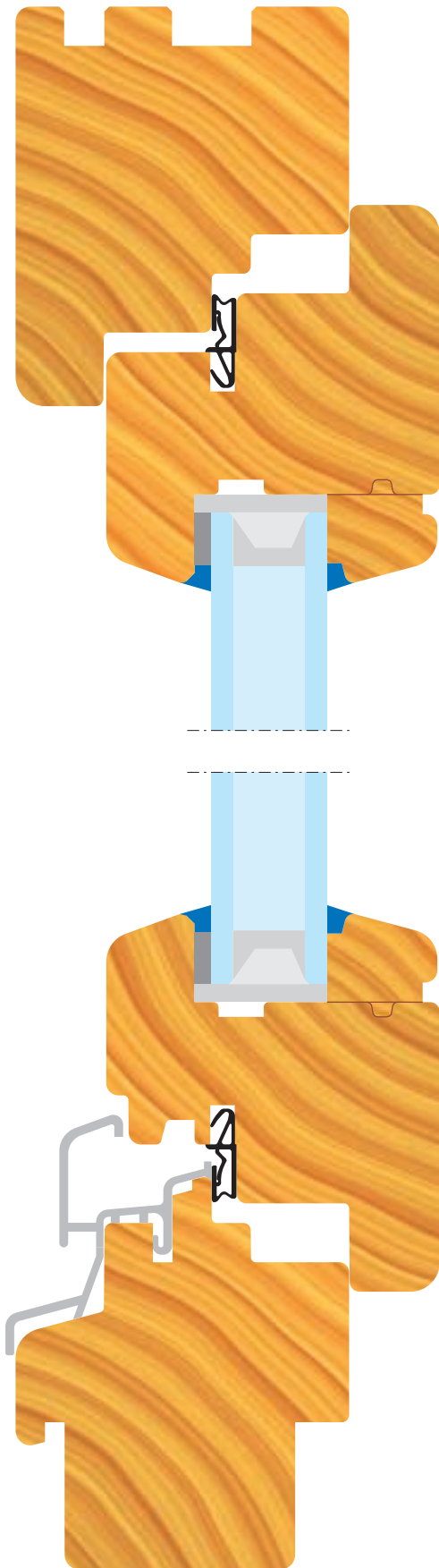


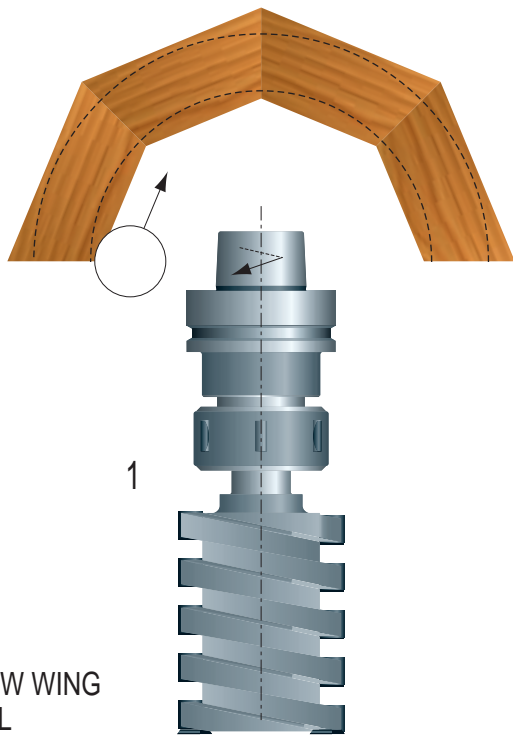


TELAIO PER PORTE A PROFILO TONDO-ESEMPI DI LAVORAZIONE
DOOR FRAME ROUND PROFILES PROGRAMME-WORKING EXAMPLES
RAHMEN FÜR RUNDBOGEN-TÜREN-BEARBEITUNGSBEISPIELE

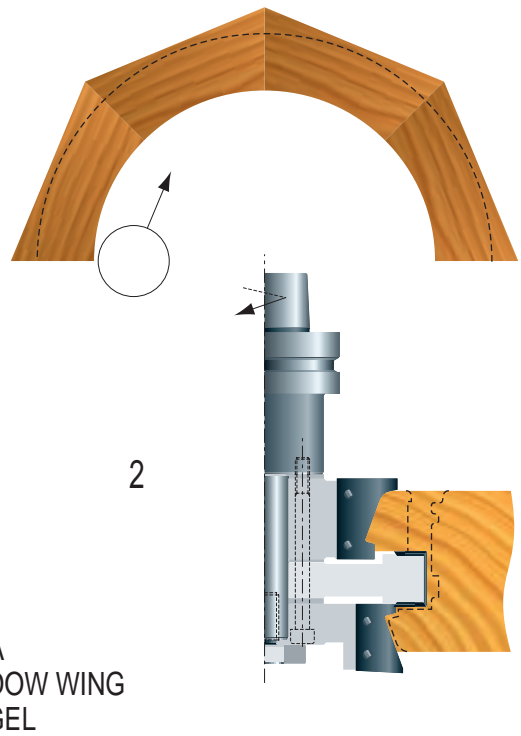




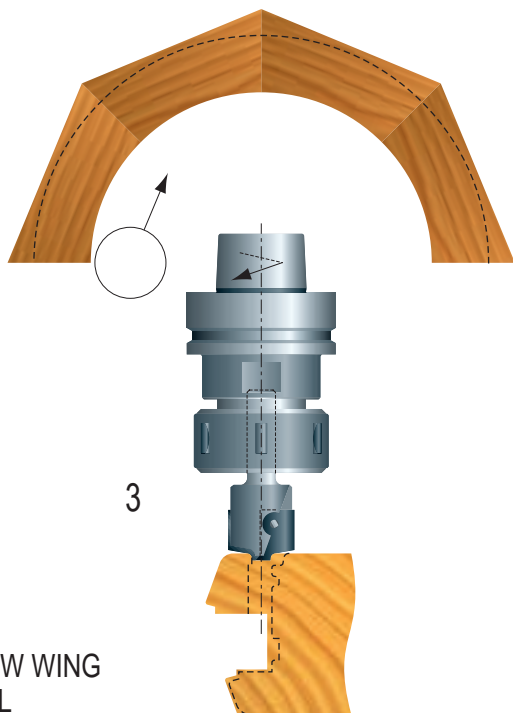




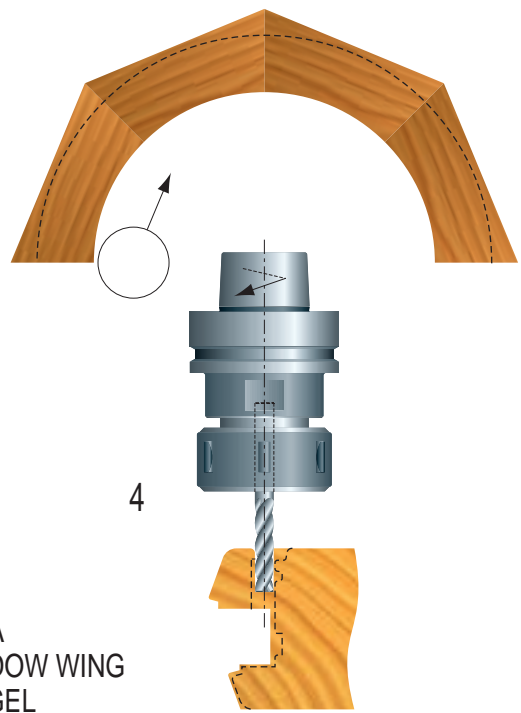
1
 ANTA
 WINDOW WING
 FLÜGEL



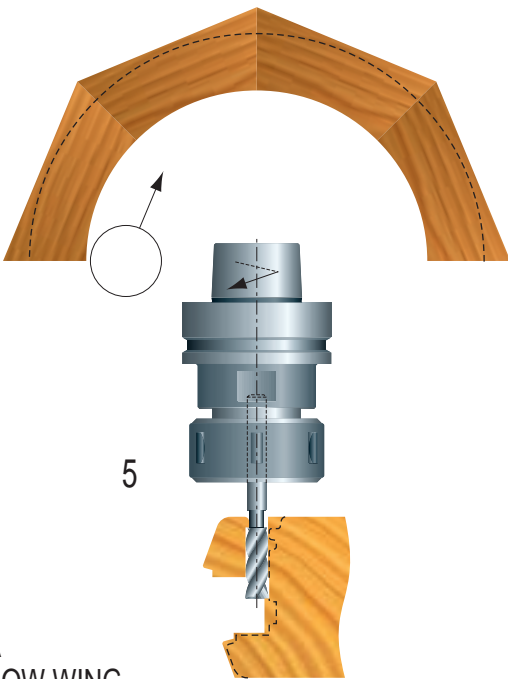
2
 ANTA
 WINDOW WING
 FLÜGEL



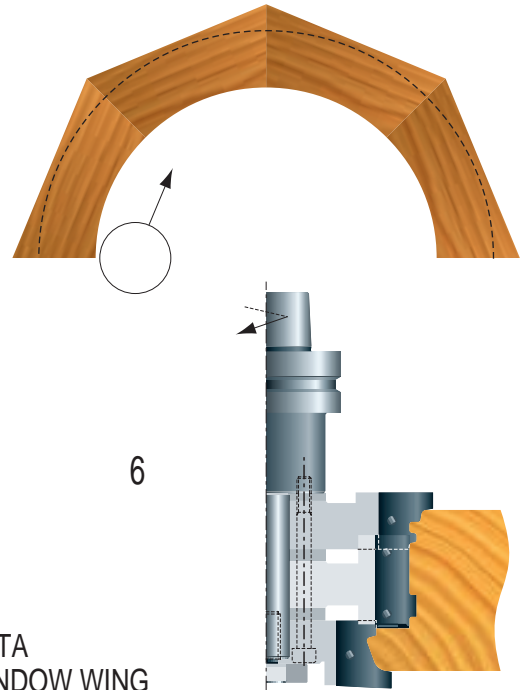
3
 ANTA
 WINDOW WING
 FLÜGEL



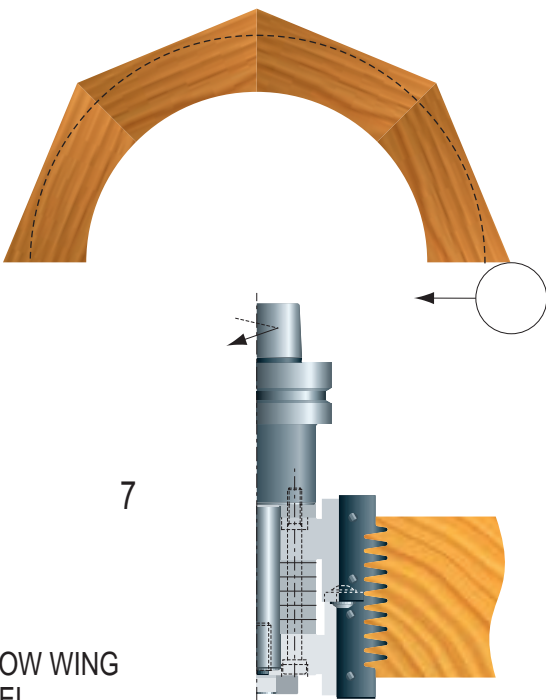
4
 ANTA
 WINDOW WING
 FLÜGEL



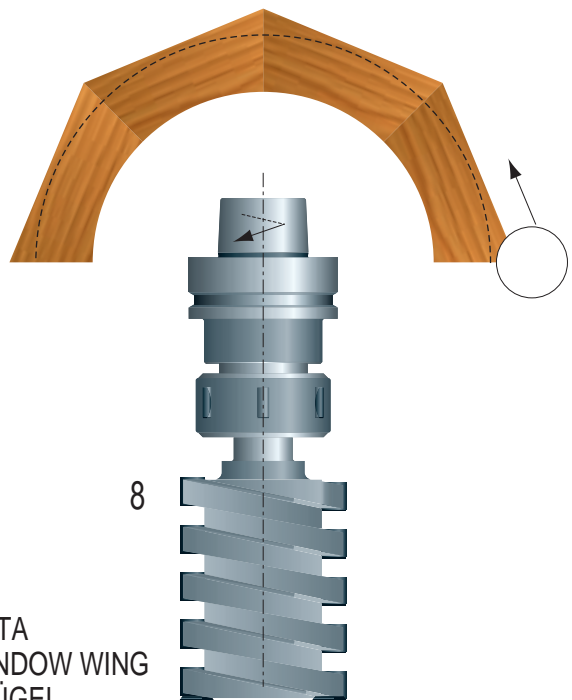
ANTA
WINDOW WING
FLÜGEL



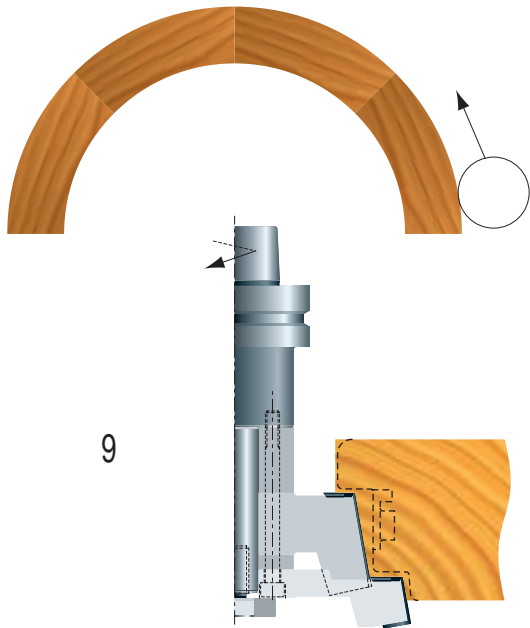
ANTA
WINDOW WING
FLÜGEL



ANTA
WINDOW WING
FLÜGEL

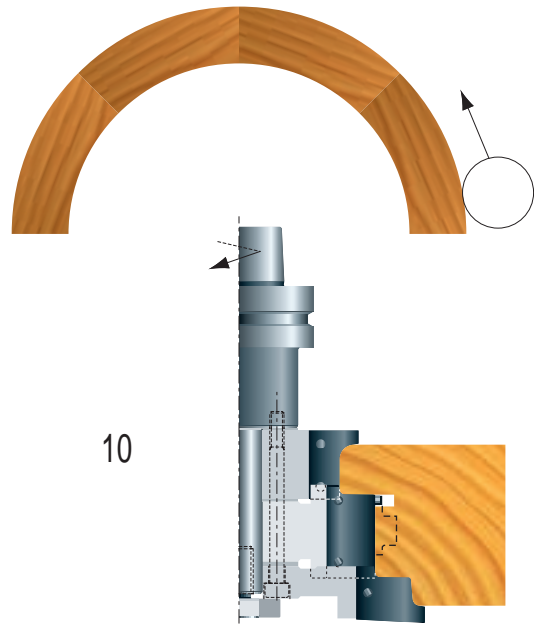


ANTA
WINDOW WING
FLÜGEL



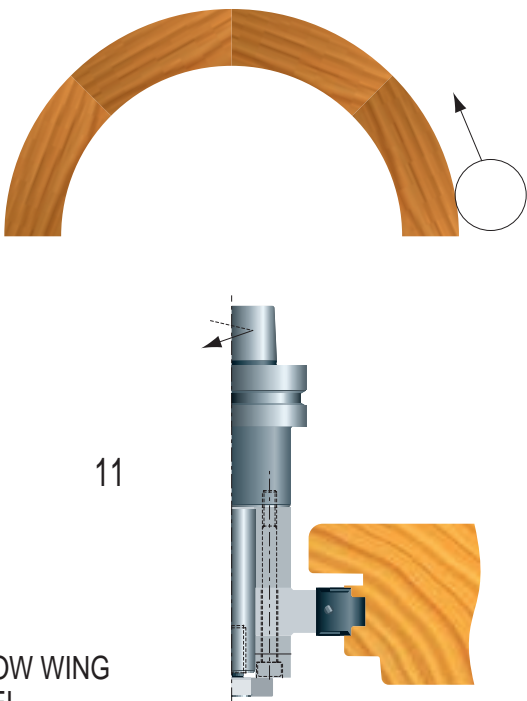
9

ANTA
 WINDOW WING
 FLÜGEL



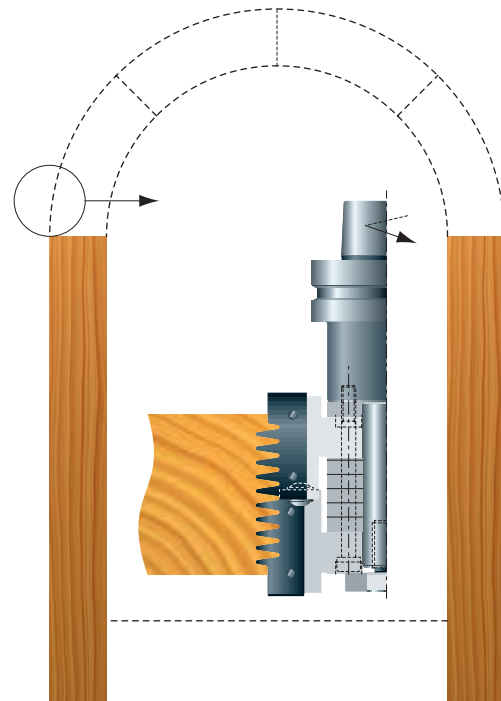
10

ANTA
 WINDOW WING
 FLÜGEL



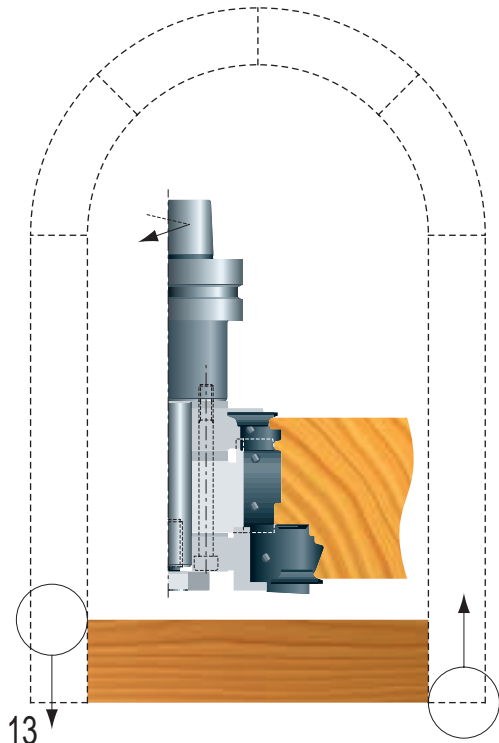
11

ANTA
 WINDOW WING
 FLÜGEL

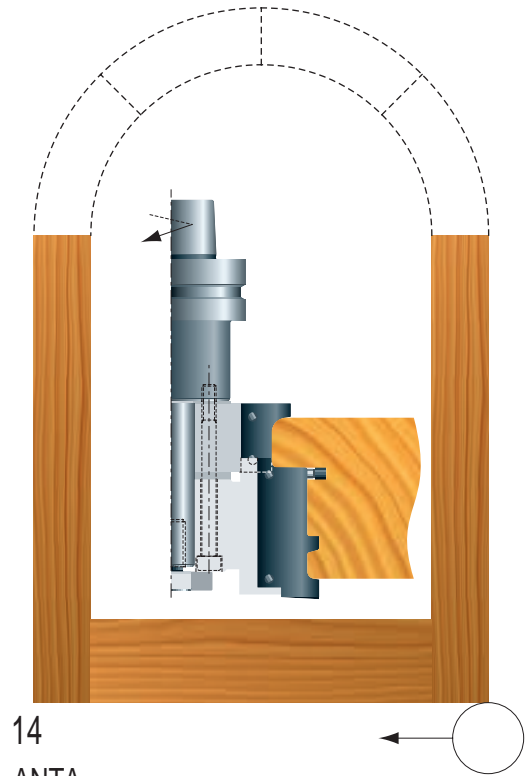


12

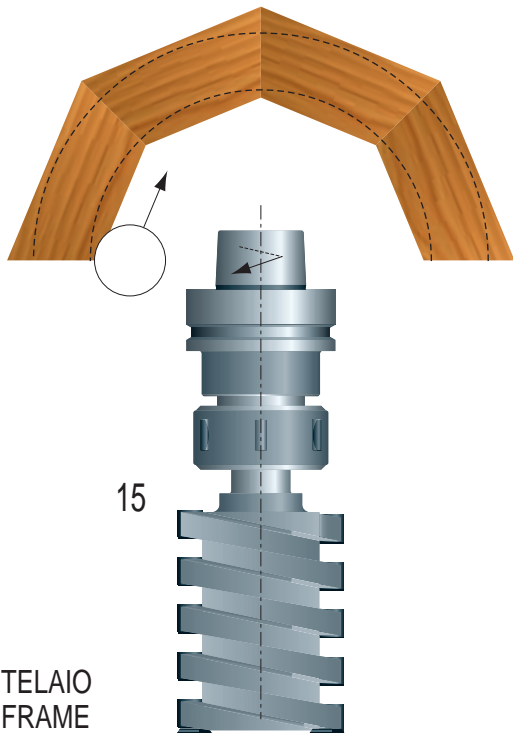
ANTA
 WINDOW WING
 FLÜGEL



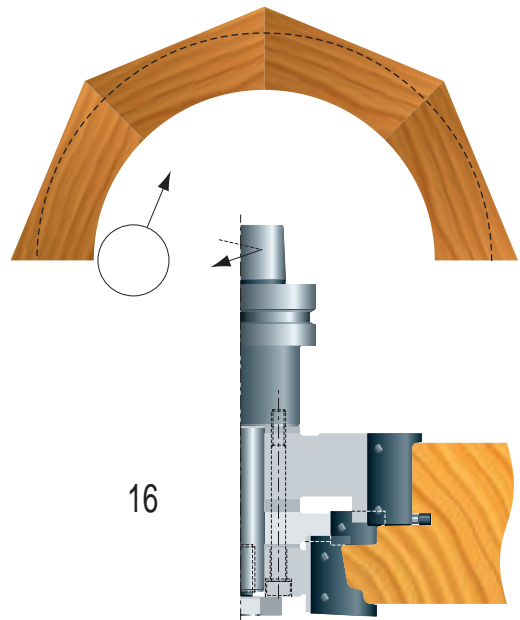
13
 ANTA
 WINDOW WING
 FLÜGEL



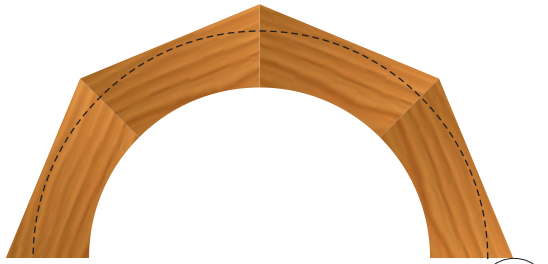
14
 ANTA
 WINDOW WING
 FLÜGEL



15
 TELAIO
 FRAME
 RAHMEN

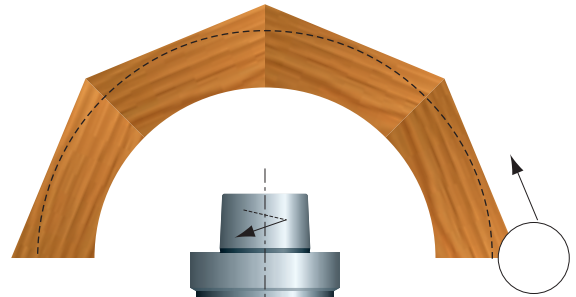


16
 TELAIO
 FRAME
 RAHMEN



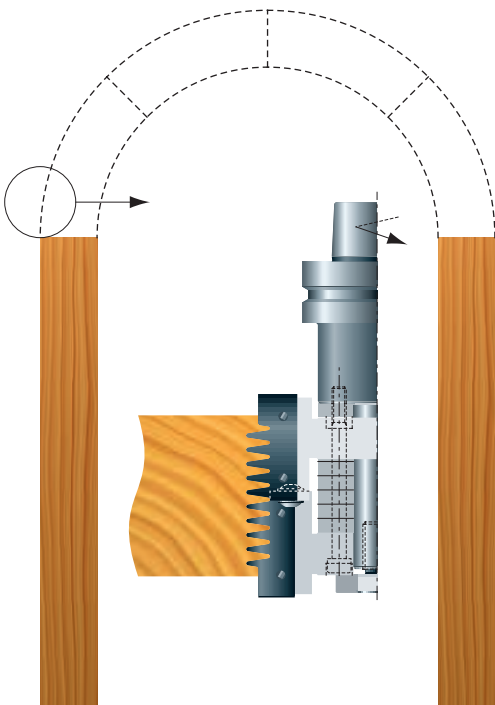
17

TELAIO
FRAME
RAHMEN



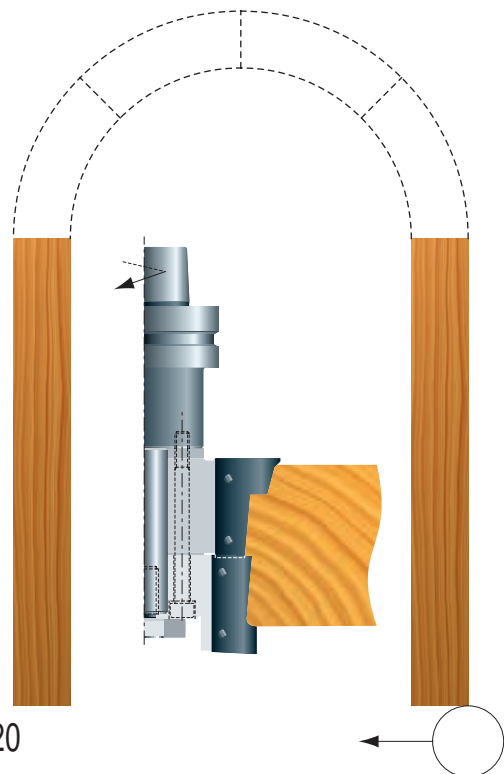
18

TELAIO
FRAME
RAHMEN



19

TELAIO
FRAME
RAHMEN

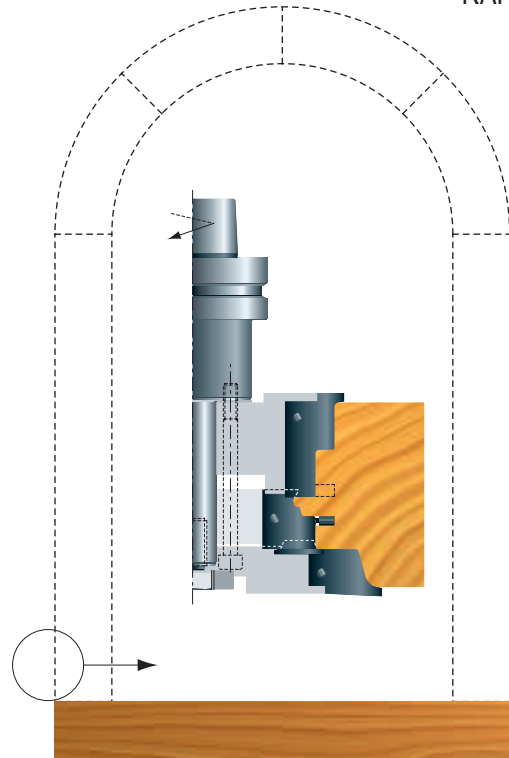


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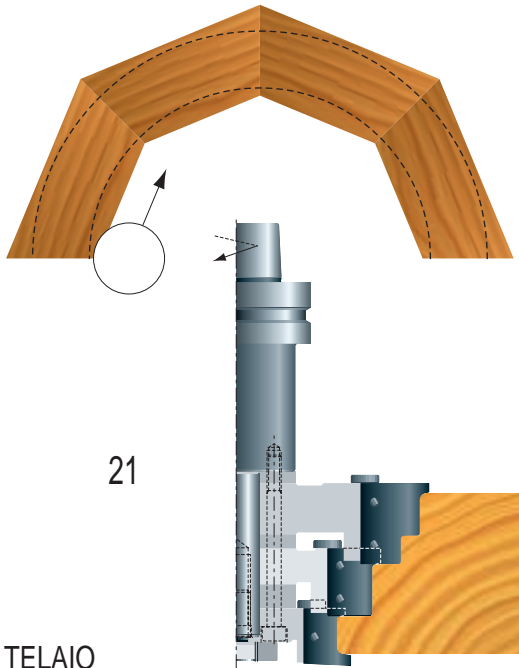
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FRAME
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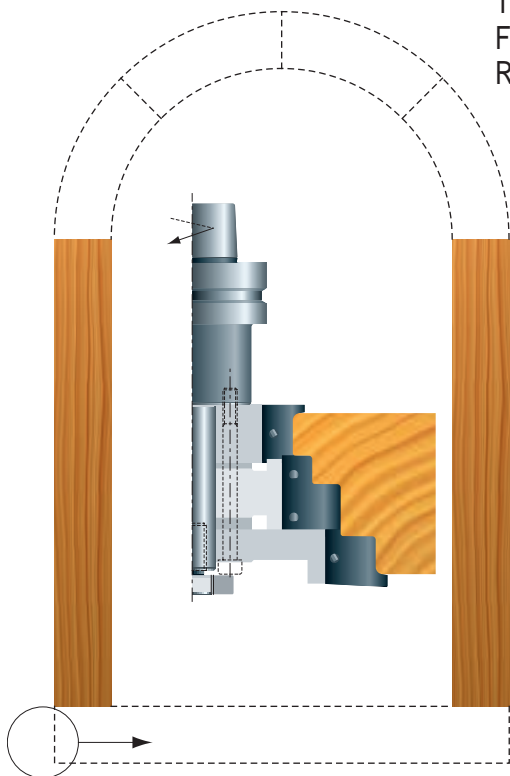
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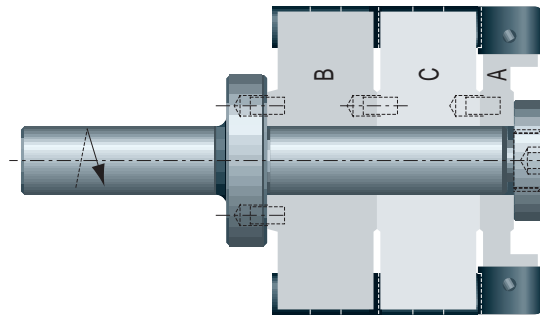
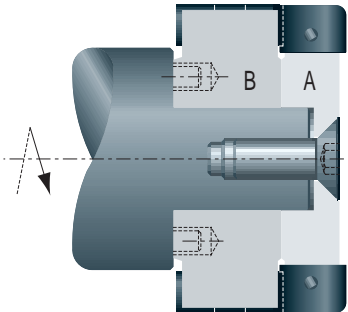


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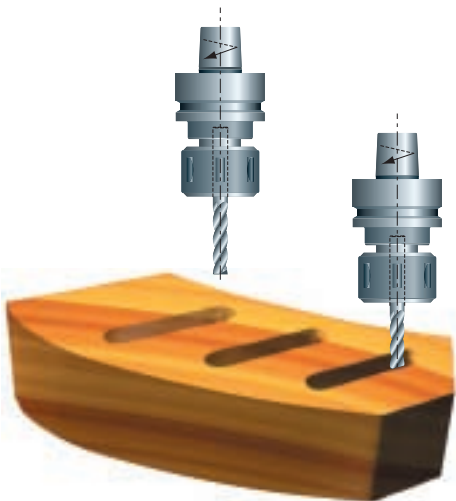
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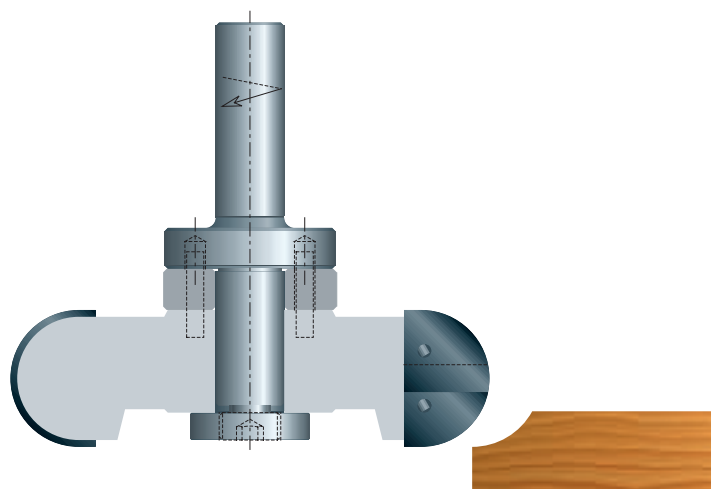
PUNTA PER PROFILATURA INTERNA GRADINI
 SOFT BORDERING CNC CUTTERHEAD
 STOSSKANTENFRÄSER



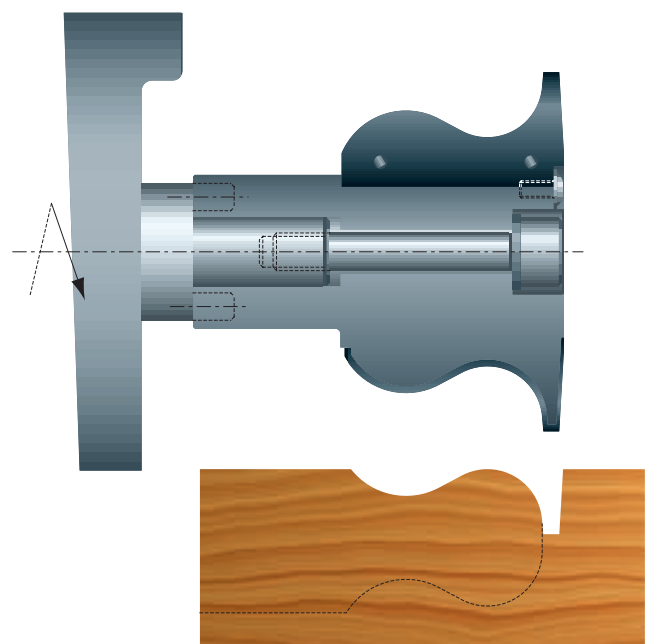
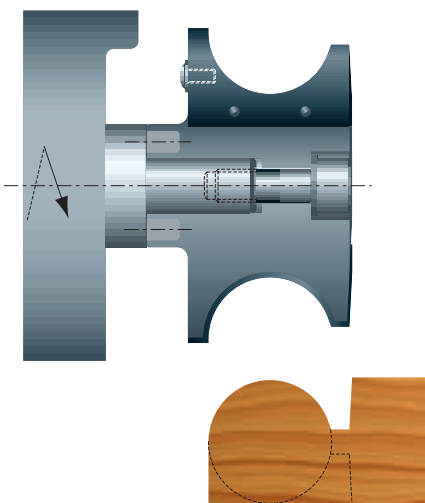
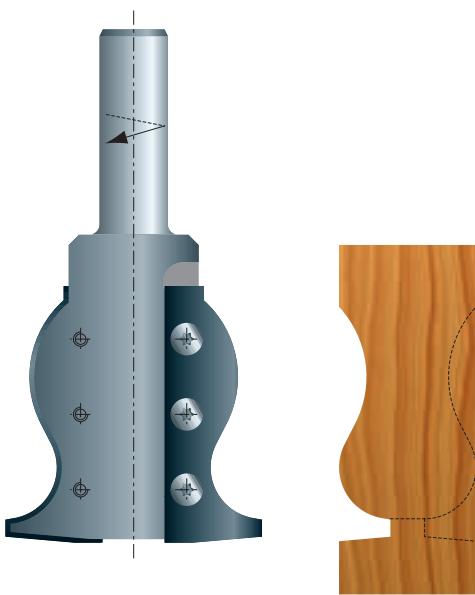
PUNTA PER FORATURA TRAVERSA ORIZZONTALE GRADINI
 FORMATTING BOTTOM SIDE OF STRINGHER STEPS CNC ROUTER
 WAGEN UND STUFEN FORMATIEREN



PUNTA PER PROFILATURA GRADINI
 FORMATTING STEPS CNC CUTTERHEAD
 ABLANTFRÄSER FÜR SETZSTUFEN



PUNTA CON COLTELLINI PER CORRIMANO
HANDRAIL CNC ROUTER WITH DISPOSABLE KNIVES
HANDLAUFRÄSER



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