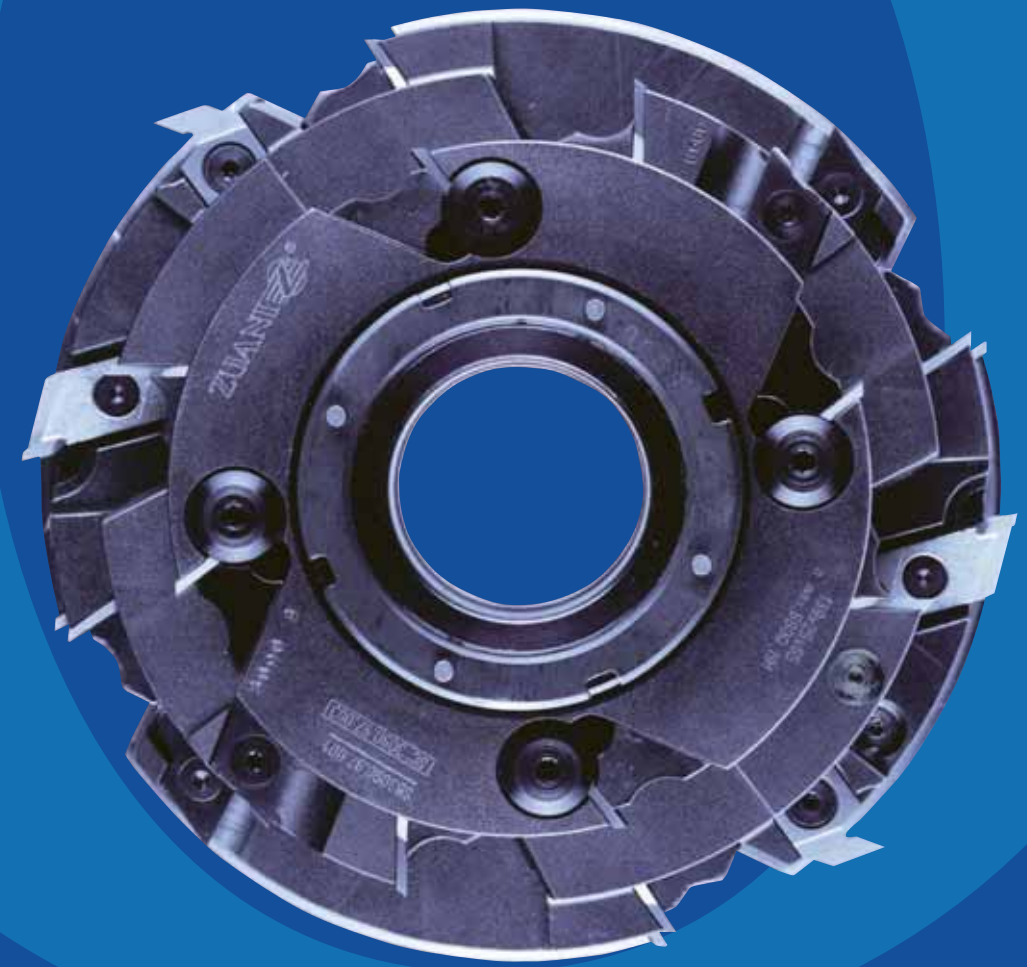


GENERAL CATALOGUE

GENERAL CATALOGUE



ZUANI 
L'UTENSILE DEL SERRAMENTO IN LEGNO

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ZUANI 
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ISO 9001. PER MOLTI UN TRAGUARDO, PER NOI UN PUNTO DI PARTENZA.

Assicurare per ogni prodotto una qualità certa e certificata: questa è la missione aziendale di un vero e proprio punto di riferimento come Zuani. Dalla progettazione, dalla produzione all'assistenza, Zuani mette nero su bianco la capacità di ricercare sempre e solo i più elevati standard qualitativi ottenendo ISO 9001, la più ambita delle certificazioni. Ma ISO 9001 è solo un punto di partenza: Zuani continuerà la ricerca dell'eccellenza consolidando il proprio valore internazionale con un patrimonio tecnico da vero leader. Zuani è l'utensile del serramento in legno con qualcosa in più: la capacità di puntare sempre più in alto.



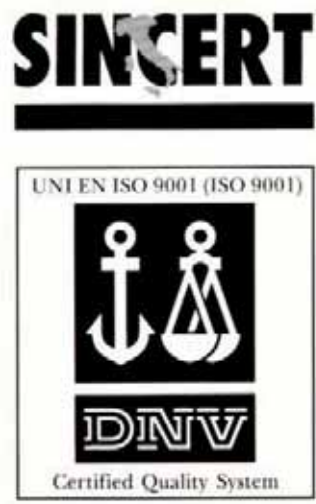
• ISO 9001 POUR BEAUCOUP UN ABOUTISSEMENT, POUR NOUS UN POINT DE DEPART.

Assurer pour chaque produit une qualité certifiée: c'est le but principal de la Société ZUANI S.r.l. Etude, production, assistance et service, ZUANI S.r.l. veut atteindre des niveaux de qualité de plus en plus élevés. Pour cela, nous avons obtenu le certificat ISO 9001 qui pour beaucoup est un aboutissement, alors que pour nous ce n'est qu'un simple point de départ. Grâce à la qualité certifiée, à la recherche de nouvelles solutions et de nouveaux produits, ZUANI S.R.L. se situe parmi les leaders du secteur de l'outillage pour le travail du bois. ZUANI c'est l'outillage pour les portes et les fenêtres avec quelque chose en plus: la volonté de regarder de plus en plus loin.



• ISO 9001. PARA MUCHOS UNA META, PARA NOSOTROS UN PUNTO DE PARTIDA

Asegurar por cada producto una calidad certificada: este es el objetivo principal de la empresa ZUANI S.r.l. Proyecto, producción, asistencia y servicio, ZUANI S.r.l. quiere alcanzar niveles de calidad siempre más importantes. Por ello, hemos logrado la certificación ISO 9001 que para muchos es una meta, mientras que para nosotros es un punto de partida. Gracias a la calidad certificada, a la búsqueda continua de nuevas soluciones y productos, ZUANI S.R.L. se posiciona entre los fabricantes líderes del sector de las herramientas. ZUANI es la herramienta para puertas y ventanas, que posee algo más: la confianza de apuntar siempre más lejos.



• ISO 9001 FOR SOMEBODY IT'S THE FINISHING LINE, FOR US OUR STARTING POINT

Assuring that each product manufactured has a certified High quality. This is the Mission Statement and a reference point of the company ZUANI S.r.l. From the planning stage, design and production, through to the despatch and service, ZUANI S.r.l. Always register every point in black & white. We supply only the highest quality standard to obtain ISO 9001. The most important of the certifications. ISO 9001 is only the starting point for ZUANI S.r.l. They will continue searching for excellence, reinforcing their international importance with a wealth experience of a market leader. ZUANI S.r.l. is the Wooden Door and Window tool that has something else: - The ability to always aim higher.

• ISO 9001 FÜR VIELE EIN ZIEL, FÜR UNS DER AUSGANGSPUNKT

Alle Produkte mit einer Qualitätsgarantie zu versehen, ist das Ziel von ZUANI. Ausgehend von der Planung über die Herstellung bis hin zur Montage beim Kunden, möchten wir die maximale Qualität gewährleisten. Das ISO 9001-Zertifikat ist für uns deshalb nicht Ziel, sondern Ausgangspunkt. Dank dieser Anerkennung werden wir weiterhin versuchen, unseren hervorragenden Ruf noch weiter auszubauen. Zuani-Werkzeuge für die Fenster- und Türenfertigung werden unter der besonderen Maßgabe gefertigt, einen immer größeren technischen und qualitativen Nutzen für den Anwender zu erzielen.



QUALITÀ EUROPEA ZUANI.

La qualità ZUANI nasce dalla costante attenzione alle richieste del comparto legno, dalla ricerca di soluzioni innovative, dall'evoluzione delle linee di produzione, dai selettivi controlli di qualità. I sistemi di collaudo del prodotto finale garantiscono la performance degli utensili ZUANI anche negli impieghi di maggior precisione richiesti dalle più moderne macchine elettroniche e corrispondenti ai più selettivi parametri di qualità e di sicurezza indicati dal BG-Test Tedesco.



MASSIMA PRECISIONE ANCHE NELL'ASSISTENZA.

Il principio della collaborazione che è alla base del rapporto tra ZUANI ed i

propri clienti trova conferma nell'affidabilità, rapidità e continuità del servizio assistenza che

BG-TEST 102-...

ZUANI offre ovunque operi la propria tecnologia. Proprio questa continuità di rapporto, questa disponibilità verso il cliente hanno consolidato, in un mercato davvero mondiale, il successo crescente dei prodotti e dell'azienda ZUANI.



EN 847-1

• QUALITE' EUROPEENNE ZUANI.

La qualité se concrétise par l'attention faite aux demandes du secteur bois, de la recherche de nouvelles solutions, de l'évolution de ses lignes productrices, des sévères contrôles de qualité. Les systèmes d'essais du produit final garantissent la performance des outils ZUANI, d'autant plus leur mise en place sur des centres d'usinage CN, grâce à l'observation des règles strictes de qualité, de sécurité indiquées par le BG-Test allemand par exemple.

• PRECISION MAXIMALE DANS L'ASSISTANCE.

Le principe sur lequel est fondé la collaboration entre ZUANI et ses Clients trouve sa meilleure expression dans la fiabilité, la rapidité et l'assistance à tout moment transmis à tous ceux qui utilisent sa technologie. Pour cette ligne de conduite et sa disponibilité envers la Clientèle, ZUANI a renforcé les bases fondées sur le succès de sa marque dans le monde entier.

• CALIDAD EUROPEA ZUANI

La calidad ZUANI nace del cuidado que pone en las necesidades del sector de la madera, en la búsqueda de nuevas soluciones, en la evolución de sus líneas productivas, en el cumplimiento de los rigidos controles de calidad. Los sistemas de investigación del producto final garantizan la calidad de la herramienta ZUANI, en su empleo, también, en máquinas para la elaboración de la madera de concepción moderna, gracias al cumplimiento de las estrictas normas de calidad y seguridad exigidas por el BG-Test alemán.

• MAXIMO ESMERO EN LA ASISTENCIA.

El principio básico en que se apoya la colaboración entre ZUANI y sus Clientes encuentra su mejor expresión en la fiabilidad, la rapidez y la asistencia que, en todo momento, ofrece Zuani a quien utiliza su tecnología. Gracias a esta conducta y a la disponibilidad hacia el Cliente Zuani, el éxito de nuestra marca se ha consolidado en todo el mundo.

• EUROPEAN QUALITY "ZUANI".

The high quality of ZUANI's tools is due to various factors:

- attention to the needs of the woodworking market;
- research of new solutions;
- development and automation of the manufacturing process;
- strict quality-tests.

The test phase of the final product guarantees the optimal working of ZUANI's tools. We take particular care of high-precision tools, which have to be mounted on the most modern electronic machinery, respecting the most rigorous safety and quality rules of the German BG-Test

• HIGH PRECISION ALSO IN THE ASSISTANCE.

The principle of cooperation. Which is at the bottom of the good relationship between ZUANI and its customers, is supported by the reliability, the promptness and continuity of the assistance service ZUANI offers wherever its tools are spread. ZUANI's growing success on the world woodworking market is made up also of this.

• EURO-QUALITÄT "ZUANI"

Die hohe Qualität der ZUANI-Werkzeuge ergibt sich aus mehreren Faktoren:

- aus der Aufmerksamkeit ZUANI auf die Forderungen des Holzbearbeitungsmarktes;
- aus der Suche nach immer neuen technologischen Lösungen;
- aus der Entwicklung und Automatisierung des Produktionsprozesses;
- aus den strengen Qualitätskontrollen. Die Testphase des Endproduktes garantiert die optimale Funktionalität der ZUANI-Werkzeuge. Besondere Aufmerksamkeit wird Präzisionswerkzeugen geschenkt, die für die modernsten elektronischen Maschinen bestimmt sind und die hohe Qualitäts- und Sicherheitsansprüche erheben.

• ZUANI'S SERVICE-DIENST.

Das Prinzip der Kooperation, einer der Grundsätze der guten Beziehungen zwischen Fa. ZUANI und ihren Kunden, findet seine Bestätigung in der Zuverlässigkeit, Schnelligkeit und Kontinuität, die der Service-Dienst überall anbietet, wo auch immer ZUANI-Werkzeuge verwendet werden. Gerade diese Eigenschaften haben den immer größeren Erfolg ZUANI im Weltmarkt konsolidiert.

ZUANI 
L'UTENSILE DEL SERRAMENTO IN LEGNO

**DAL 1972 ZUANI REALIZZA
UTENSILI DI PRECISIONE PER
LA LAVORAZIONE DEL
LEGNO.**

Da questa esperienza nasce una procedura di lavoro, applicata con successo in tutto il mondo, per rispondere ad esigenze di lavorazione e di mercati tanto diversi.

Le specifiche richieste di ogni azienda coinvolgono innanzi tutto l'ufficio tecnico ZUANI, cui spetta il compito di razionalizzarle e tradurle in prodotti ad alta qualità tecnologica.

I nuovi contenuti progettuali trovano così attuazione in un reparto produttivo che si avvale delle tecnologie più avanzate e di personale tecnico specializzato.

Questo insieme di elementi costituisce una precisa garanzia di competenza ed efficienza cui si accompagna il continuo impegno di ZUANI nei programmi di rinnovamento e perfezionamento della propria offerta.

**• DÈS 1972 ZUANI RÉALISE DES
OUTILS DE PRÉCISION POUR
LE TRAVAIL DU BOIS.**

Dès 1972 ZUANI réalise des outils de précision pour le travail du bois. De cette expérience se développe un système de travail appliqué avec succès dans le monde entier, pour répondre aux exigences du travail du bois et à celles de marchés très différents. Le Bureau Technique assure le premier service au Client en écoutant ses besoins et en discutant avec lui des solutions à apporter pour rationaliser le projet et de la productivité en offrant des produits de précision et de haute technologie. Les nouvelles technologies trouvent leurs applications sur des lignes de production constamment contrôlées pour vérifier la parfaite correspondance du produit avec le projet initial dans ses moindres détails, dans le soin que ZUANI met dans la qualification et la formation technique du personnel. Tous ces éléments sont une garantie de compétence et d'efficacité, ce sont sur ces bases ZUANI veut renouveler la confiance de ses Clients.

**• DESDE 1972 ZUANI PRODUCE
HERRAMIENTA DE PRECISIÓN
PARA LA ELABORACIÓN DE LA
MADERA.**

De esta experiencia nace un sistema de trabajo aplicado con mucho éxito en todo el mundo para satisfacer las demandas de los Clientes y las exigencias de mercado muy diversas. El Departamento Técnico ofrece la primera ayuda al Cliente escuchando sus necesidades y considerando, junto a él, sobre las soluciones más adecuadas para racionalizarlas a nivel de proyecto, ofreciendo productos de elevada precisión y de óptima calidad tecnológica. Los nuevos medios tecnológicos encuentran su actuación en las mismas líneas productivas, que están controladas de continuo para averiguar la exacta correspondencia del producto con el proyecto y en el cuidado que Zuani pone en la formación técnica de sus colaboradores.

Todos estos elementos son una garantía de competencia y eficiencia y sobre estos pilares Zuani quiere ver renovada la confianza de sus Clientes.

**• ZUANI S.R.L. HAS BEEN
WORKING SINCE 1972,
PRODUCING HIGH-PRECISION
TOOL FOR WOOD-WORKING.**

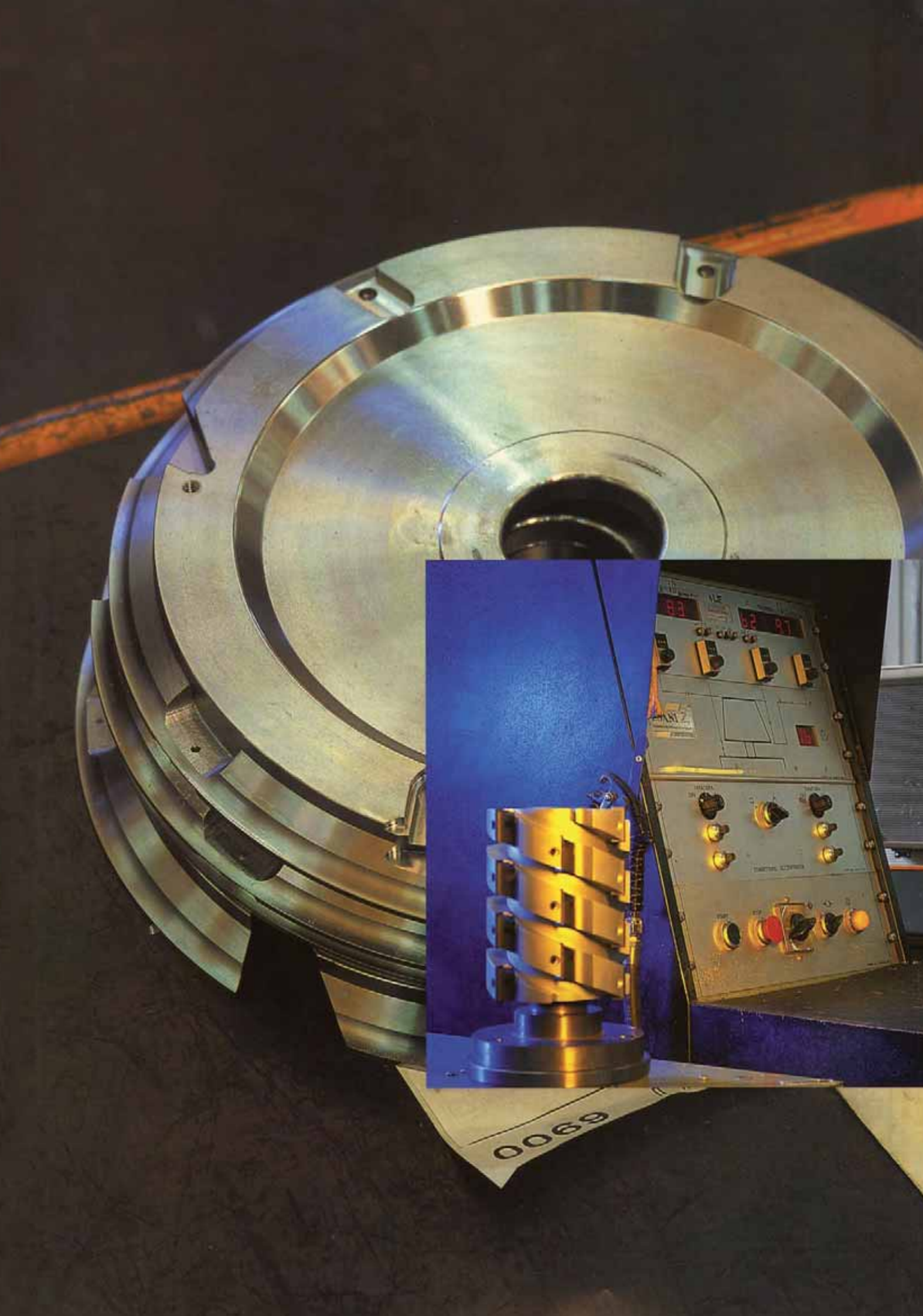
A big experience in this field, helped ZUANI s.r.l. to face and solve problems, proposed by customers coming from all over the world. The Technical Dept. is the first step in the production of high quality tools. Well prepared technicians turn into reality the ideas of the customers, making use of advanced software technologies. The Production-Dept. with its skilled workers and van machinery give a form to the drawings of the Technical Dept., obtaining high quality tools. The ability of these two Depts. Is a guarantee for the customers and an incentive for ZUANI to go on in the search of new solutions.

**• SEIT 1972 STELLT FA. ZUANI
PRÄZISIONSWERKZEUGE FÜR
DIE HOLZBEARBEITUNG HER.**

Aus dieser langjährigen Erfahrung hat sich eine besondere Arbeitsweise entwickelt, die ihr erlaubt, den Ansprüchen von Kunden aus aller Welt gerecht zu werden.

Die Anforderungen der Kunden werden erstmals im technischen Büro analysiert, wo hochqualifiziertes Personal die verschiedensten Ideen realisiert. Die Umstellung der von der Konstruktion erarbeiteten Konzepte erfolgt in der Produktion, wo die Fertigung mit modernsten CNC-Fertigungstechniken erfolgt.

All das bedeutet ZUANI s.r.l., eine Firma, die immer auf der Suche nach Neuem ist.





Condizioni generali di vendita

Prezzi

I prezzi (I.V.A. esclusa) sono quelli riportati nel presente Catalogo Generale, purché gli utensili vengano ordinati *a codice* con le caratteristiche standard indicate (diametro, spessore, foro, numero dei taglienti, etc). Per misure speciali sarà necessario richiedere un'offerta all'Ufficio Commerciale, che provvederà in tempo utile a stilare un preventivo adeguato alle Vostre esigenze.

Spedizioni

La merce viaggia a rischio e pericolo del committente salvo disposizioni contrarie. Le spedizioni si intendono *franco nostro stabilimento*, pertanto è esclusa ogni responsabilità della **ZUANI S.r.l.** per danni, avarie, furti o manomissioni intercorsi durante il trasporto.

Consegna

La data di consegna riportata sulla *Conferma d'ordine* ha carattere puramente indicativo. Il mancato rispetto di tale termine non pregiudica la validità dell'ordine né costituisce motivo di annullamento o di risarcimento.

Garanzia

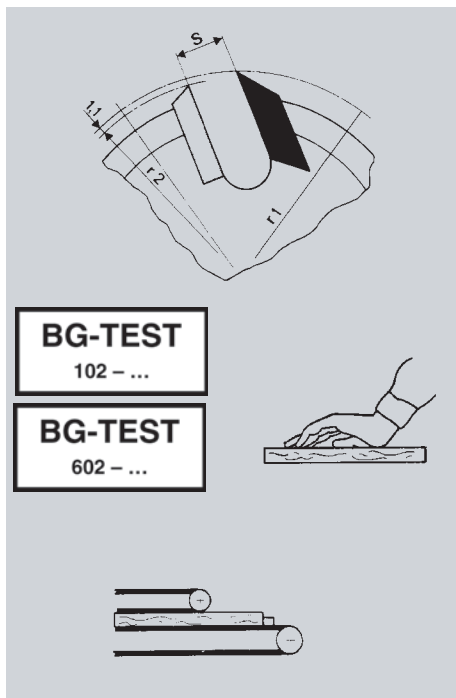
Gli utensili **ZUANI** sono progettati e costruiti sulla base di procedure certificate, garanzia di accurati controlli sia a livello tecnico che qualitativo. Nessuna garanzia verrà riconosciuta per utensili manomessi o impiegati in modo non conforme all'uso per cui l'utensile è stato prodotto.



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1 NORMATIVA



1.1 Per il territorio italiano gli obblighi dei costruttori e dei commercianti derivano dalla “Normativa per la prevenzione degli infortuni sul lavoro D.P.R. 547 del 27 aprile 1955”. In particolare riportiamo alcuni Articoli che, a nostro avviso, ne riassumono i concetti fondamentali:

Art. 7 Sono vietate dalla data di entrata in vigore del presente decreto la costruzione, la vendita, il noleggio e la concessione in uso di macchine, di parti di macchine, di attrezzature, di utensili e di apparecchi in genere, destinati al mercato interno, nonché l’installazione di impianti, che non siano rispondenti alle norme del decreto stesso.

Art. 113 Le fresatrici da legno devono essere provviste di mezzi di protezione atti ad evitare che le mani del lavoratore possano venire accidentalmente in contatto con l’utensile. Tali mezzi debbono essere adatti alle singole lavorazioni ed applicati sia nei lavori con guida che in quelli senza guida.

Le prescrizioni tedesche, secondo le quali i nostri utensili sono certificati, sono riassunte nelle “Grundsätze für die Prüfung der Arbeitssicherheit von Holzbearbeitungsmaschinen-Werkzeugen”. Queste sono in vigore in Germania dal 1 aprile 1977 come legge generale per la prevenzione degli infortuni riguardanti macchine e utensili per la lavorazione del legno.

BG-TEST: A cui appartengono quegli utensili utilizzati per lavorazioni che comportano l’avanzamento manuale del legno. Quegli utensili sono caratterizzati dal limitatore di truciolo con sporgenza massima del tagliente di 1,1 mm, da una forma costruttiva perfettamente rotonda e da una distanza ben precisa fra tagliente e limitatore di truciolo. Questa costruzione consente di

lavorare con avanzamento manuale del pezzo, in quanto i pericoli di contraccolpo sul pezzo da lavorare sono ridotti al minimo.

Avanzamento automatico

A questa classe appartengono quegli utensili utilizzati su macchine automatiche in cui il fissaggio e avanzamento del pezzo e completamente automatico. La forma costruttiva di questi utensili deve seguire le norme generali di sicurezza per quanto riguarda lo scarico e la forma dell’utensile. Su questi utensili deve essere impressa la scritta “MECH. VOR-SCHUB” (avanzamento meccanico).

Oltre a quanto esposto sopra sono previste ulteriori regole fra le quali:

tutti gli utensili devono essere marcati con il nome, il marchio produttore, il numero di giri massimo e minimo ammesso per quel tipo di utensile, l’anno di costruzione.

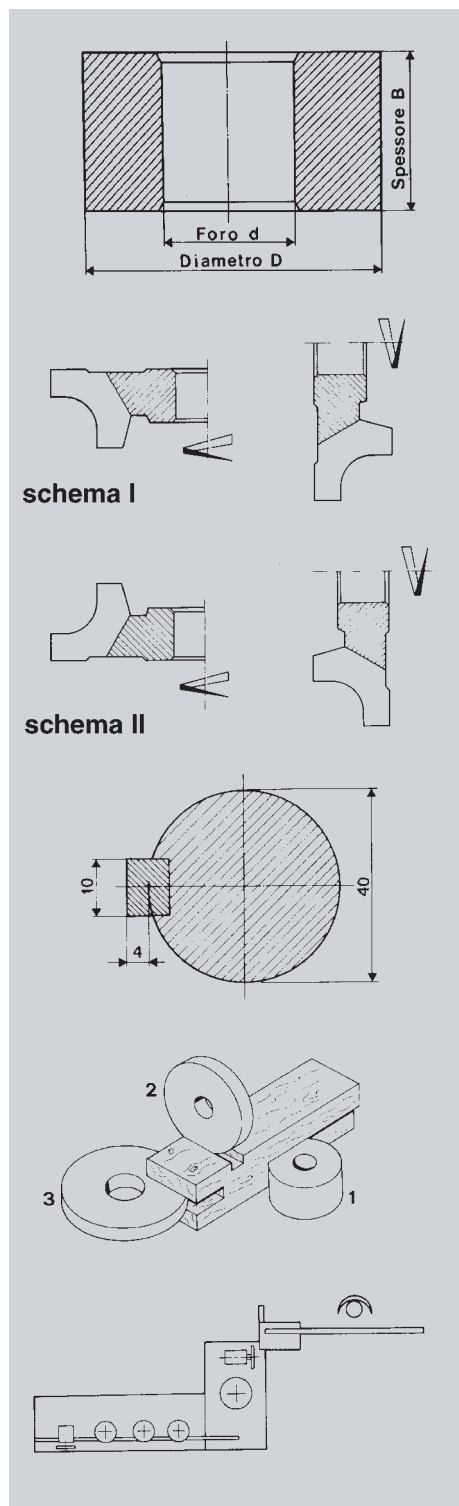
gli utensili porta coltelli devono avere un sistema di fissaggio tale da consentire il trattenimento dell’inserito anche in caso di allentamento accidentale.

Gli utensili con queste caratteristiche soddisfano pienamente le direttive della NORMA EUROPEA EN 847-1 che è stata approvata nel febbraio 1997. Questa norma è un importante riferimento dal punto di vista di copertura nei confronti di possibili responsabilità civili e penali. La EN 847-1 identifica tutti i pericoli che derivano dal progetto e uso di utensili per la lavorazione del legno e descrive i metodi per l’eliminazione o la riduzione di questi pericoli mediante la progettazione degli utensili e la fornitura di informazioni.



2 DATI FONDAMENTALI PER L'ORDINAZIONE

Per permettere una corretta interpretazione dell'ordine, il richiedente dovrà fornire alcuni dati precisi che riportiamo qui di seguito:



2.1 Avanzamento

Per la scelta dell'utensile è necessario sapere quale tipo di avanzamento si intende adottare tra:

- ◆ avanzamento manuale;
- ◆ avanzamento semiautomatico;
- ◆ avanzamento automatico

2.2 Utensili a catalogo

Indicare per esteso il codice di riferimento ed eventuale serie di appartenenza.

2.3 Utensili speciali

Per questo tipo di utensile la richiesta deve essere accompagnata da un disegno o schizzo riportante i dati sull'avanzamento. In alternativa, il richiedente deve inviare un campione di legno indicando il piano di appoggio e il senso di avanzamento.

2.4 Dati caratteristici

È indispensabile corredare l'ordine dei seguenti dati caratterizzanti l'utensile:

- ◆ diametro, spessore, foro;
- ◆ numero di taglienti, di incisori;
- ◆ senso di rotazione;
- ◆ numero di giri a cui è impiegato l'utensile;
- ◆ velocità di avanzamento;
- ◆ tipo di chiavetta eventualmente esistente sull'albero porta utensile;
- ◆ materiale da lavorare;
- ◆ qualità degli inserti da adottare (HW e HS).

Nelle tabelle di pag.1/11 - 1/12 sono riportati i diagrammi per il rilevamento della velocità di avanzamento, il numero di giri, avanzamento per dente, il numero dei taglienti ecc.

2.5 Indicazione dei dati caratteristici

diametro	spessore	foro
130	50	35

Senso di rotazione

Essendo l'indicazione destra/sinistra al quanto soggettiva riportiamo degli esempi pratici per un più facile rilevamento. Ad ogni modo, è destro l'utensile montato su toupie con rotazione antioraria.

Diametro grande sopra, rotazione a destra (schema I)

Diametro grande sotto, rotazione destra (schema II)

In mancanza di indicazioni specifiche in tal senso, si provvederà a fornire l'utensile secondo lo schema I, ossia utensile con rotazione antioraria, con diametro più grande o incisori sopra.

Misure delle chiavette.

Alcune macchine usano chiavette non unificate, pertanto è opportuno indicarne le quote.

Esempio: utensile diametro 140 mm, spessore 50 mm, foro 40 mm, con chiavetta 140 x 50 x 40 (10 x 4)

2.6 Materiale da lavorare

Non potendo fare una classificazione completa indichiamo solamente alcune famiglie: legni teneri, legni duri, legni esotici, legni composti, compensati, multistrati, truciolari nobilitati, faesite ecc. Se il materiale è rivestito, occorre precisare quali sono le superfici interessate e il tipo di rivestimento.

2.7 Direzione di taglio

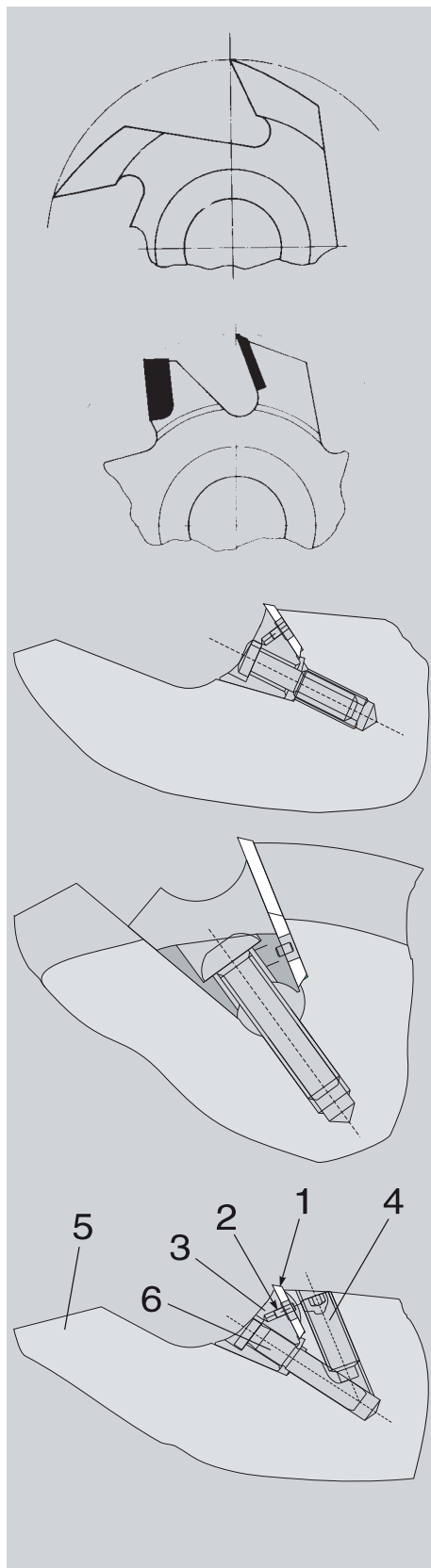
Le direzioni di taglio sul legno possono essere di tre tipi:

- 1) lungo vena;
- 2) attraverso la vena;
- 3) di testa;

2.8 Macchine operatrici

Vanno indicati la marca e il tipo di macchina con relativi numeri di giri. Per macchine a più alberi si necessita lo schema di composizione delle macchine, indicando per ogni albero: il diametro, l'altezza e la relativa corsa.

3 TERMINOLOGIA E NORME GENERALI



3.1 Utensili integrali

Questi utensili possono essere eseguiti in acciaio SP, HL o HS, con quest'ultimo sistema, ad esempio, vengono prodotte frese e lame. Le punte, oltre ai tipi in acciaio, possono essere prodotte anche in HW (HM) integrale.

3.2 Utensili con placchette riportate

Questi utensili sono composti da un corpo in acciaio non temperato sul quale sono state riportate mediante saldatura delle placchette in HS o HW (HM).

3.3 Utensili ad inserti

Tali utensili hanno un corpo in acciaio sul quale sono applicati meccanicamente inserti in HS o HW (HM). A questa classe appartiene la maggior parte della nostra produzione.

3.4 Gruppo di frese

Il termine indica una o più frese distanziate con anelli, montate su bussola di accoppiamento per eseguire un profilo finito.

3.5 Serie programmata

Il termine indica un insieme di gruppi di frese, con rotazione destra e sinistra, che concorrono all'esecuzione del prodotto finito.

3.6 Sistema di fissaggio

E' quel complesso che determina il posizionamento e il fissaggio degli inserti negli utensili indicati al punto 3.3:

- 1) inserto;
- 2) spina di sicurezza;
- 3) tassello di fissaggio;
- 4) vite di fissaggio;
- 5) corpo fresa;
- 6) Tirante.

3.7 Materiali impiegati

◆ Corpo fresa: prodotto in acciaio bonificato, leghe di acciaio o leghe leggere ad alta resistenza

◆ taglienti: le denominazioni ormai ricorrenti sono:

SPlega di acciaio

HLlega di acciaio ad alta resistenza

HSacciaio super rapido

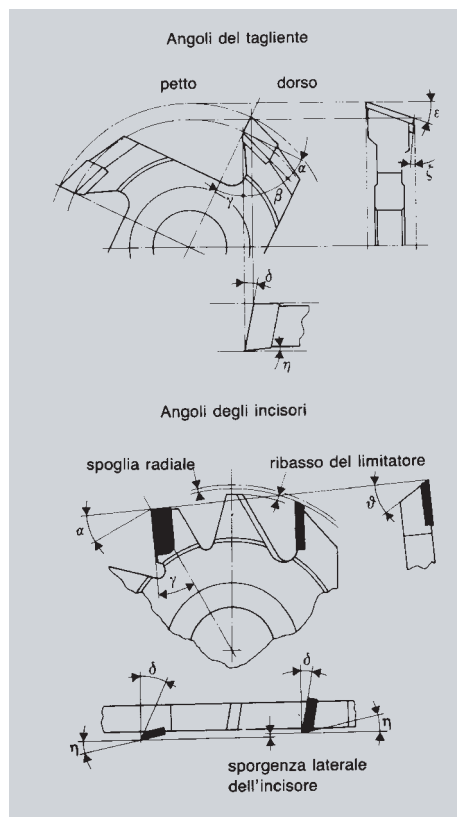
STstellite

HW (HM)carburi sinterizzati

DPdiamante policristallino



4 ANGOLI CARATTERISTICI DEI TAGLIENTI



α = angolo di spoglia superiore: angolo tra la tangente del diametro esterno ed il dorso dell'utensile.

β = angolo del tagliente: angolo tra il dorso ed il petto.

γ = angolo di spoglia inferiore: angolo tra il petto e l'asse dell'utensile (usualmente denominato angolo di taglio).

δ = angolo assiale: inclinazione del petto.

ϵ = angolo del tagliente di utensili a smusso (misurato sul legno).

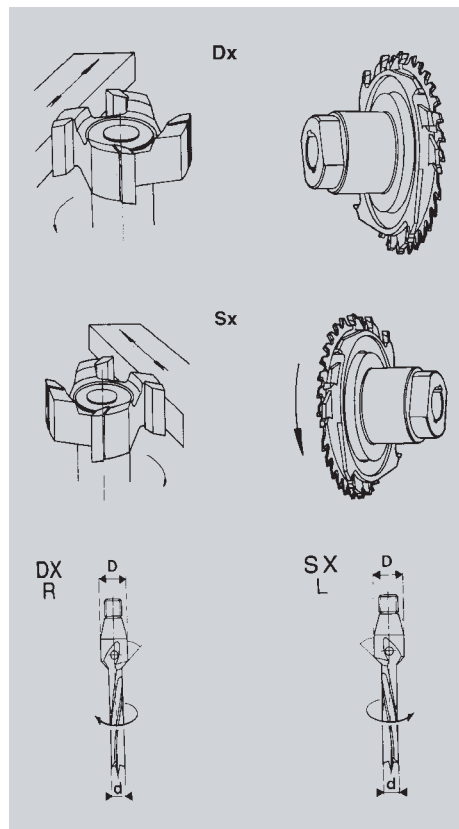
η = angolo di spoglia laterale (sui due fianchi dei taglienti).

ϑ = angolo di spoglia superiore degli incisori.

ξ = angolo di spoglia laterale misurato sulla radiale del tagliente.



5 DATI TECNICI



5.1 Senso di rotazione dell'utensile

◆ La rotazione è destra quando l'utensile visto dal lato motore gira verso destra; guardando dal lato utensile questo gira in senso antiorario.

◆ Rotazione sinistra quando l'utensile visto dal lato motore gira a sinistra; guardando dal lato utensile la rotazione è in senso orario.

5.2 Senso di rotazione per punto

◆ Rotazione destra: filettatura destra, utensile con attacco superiore e senso orario.

◆ Rotazione sinistra: filettatura sinistra, utensile con attacco superiore e senso antiorario.

5.3 Foro

I fori sono eseguiti con tolleranza H6 per accoppiamento su alberi con tolleranza g6.

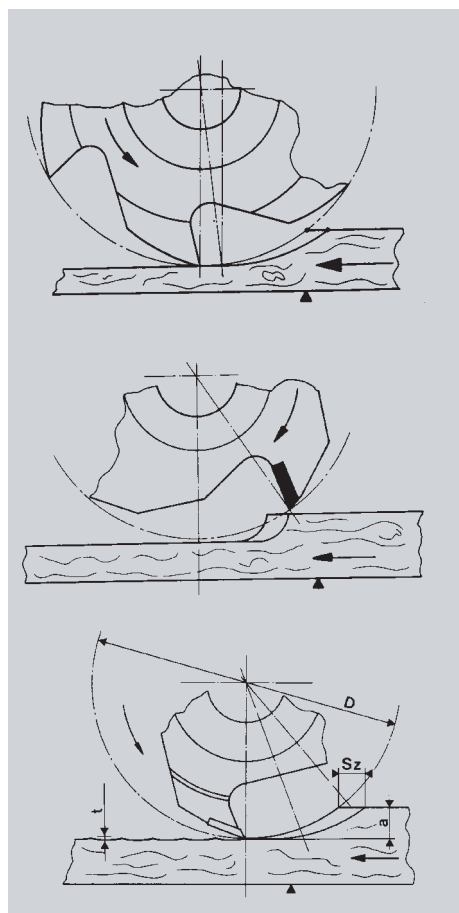
5.4 Equilibratura

Tutti i componenti rotanti sono equilibrati dinamicamente con il grado $G = 16$, mentre i gruppi di utensili più particolari, montati su mozzo, vengono equilibrati con il grado $C = 40$.

Statisticamente il grado di equilibratura è $G = 6,3$ per i componenti, mentre per i gruppi assemblati tale grado è pari a $G = 16$.

I gradi di equilibratura sono indicati dalle norme ISO 1940-1 e si riferiscono alla velocità massima ammissibile per l'utensile. Per particolari applicazioni su macchine operatrici con gruppi disposti a "pacco" il grado di equilibratura è mantenuto in tolleranze più strette.

6 CONDIZIONI DI IMPIEGO DEGLI UTENSILI



6.1 Lavorazione contro avanzamento

In questa condizione l'utensile ruota in senso contrario all'avanzamento del legno. La formazione del truciolo avviene in modo progressivo. Il tagliente lavora dapprima per attrito, dato che il materiale asportato non è sufficiente per formare il truciolo. In un secondo momento si ha la formazione del truciolo. Questo sistema di lavorazione, comunemente usato, consente una maggior durata degli inserti con poca potenza assorbita, qualora l'asportazione unitaria per dente non scenda sotto certi livelli.

Su tipi di legno con venatura irregolare, le superfici non hanno una buona finitura e si favorisce la formazione delle schegge.

La lavorazione contro avanzamento è la sola che permette di lavorare con avanzamento manuale.

6.2 Lavorazione concorde all'avanzamento

In questo caso l'utensile ruota nello stesso senso dell'avanzamento. La formazione del truciolo avviene in modo regressivo e si ha un urto iniziale quando avviene il contatto fra il tagliente e il legno. Questo sistema consente di ottenere superfici molto finite con ridotta potenza d'avanzamento. D'altro canto si ha una durata ridotta degli inserti dato che la fase in cui si lavora per attrito è più ampia. Tale sistema è attualmente usato su macchine automatiche.

6.3 Qualità del taglio

La qualità del taglio è migliorata applicando i taglienti inclinati assialmente e aumentando la velocità, per evitare la formazione di scheggiature. Occorre tenere ben presente che aumentando la velocità, lasciando invariato il numero dei taglienti e la velocità di avanzamento si ottiene un truciolo sempre più sottile con conseguente usura precoce dei taglienti, e aumento della potenza assorbita.

6.4 Velocità periferica

Impropriamente detta velocità di taglio è misurata in mt/sec ed è calcolata mediante la seguente formula:

$$V = \frac{D \cdot \pi \cdot N}{60.000} \text{ mt/sec}$$

dove: D è il diametro esterno espresso in mm;

n è il numero di giri al minuto

π è la costante 3,14

Nella tabella seguente sono indicati dei valori entro i quali si dovrà ricercare la velocità periferica più opportuna.

Materiale da lavorare	Frese HW (HM) mt/sec	Lame HW (HM) mt/sec
Legno tenero	60 - 90	70 - 100
Legno duro	50 - 80	70 - 90
Truciolato	60 - 20	60 - 90
Laminato	40 - 60	60 - 100
Compensato	60 - 80	60 - 80
Multistrato	40 - 60	60 - 80

6.5 Velocità di avanzamento

Il grado di finitura di una superficie va rapportato a una serie di variabili quali:

- ◆ la precisione dell'utensile
- ◆ l'efficienza delle macchine
- ◆ l'accoppiamento foro-albero
- ◆ la velocità di avanzamento
- ◆ il diametro dell'utensile
- ◆ il numero dei taglienti
- ◆ l'avanzamento unitario per dente, che determina l'altezza della ondulazione.

Le ultime quattro voci seguono regole matematiche, pertanto è possibile ricavare dei valori ottimali di impiego.

La relazione base che lega queste quattro variabili è la seguente:

$$S_z = \frac{u \times 1.000}{n \times z}$$

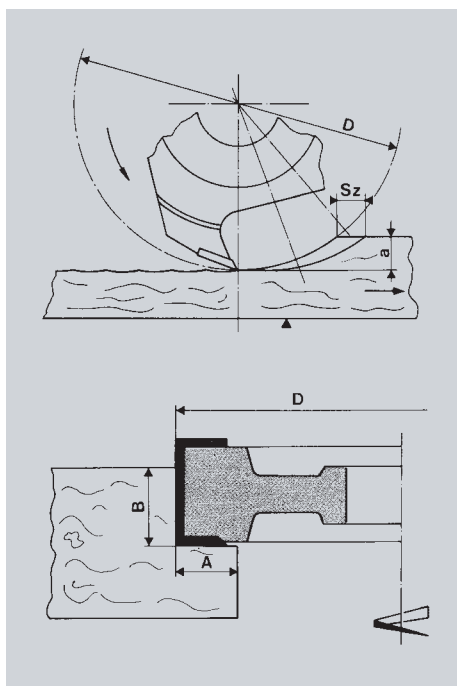
Sz = avanzamento del tagliente (mm)

u = avanzamento del pezzo in lavorazione (m/min)

n = numero dei giri (n/min)

z = numero dei taglienti

a = profondità di taglio (mm)



L'altezza di ondulazione può essere trascurata per utensili con diametro superiore a 80 mm, comunque riportiamo la relativa formula a titolo di curiosità:

$$t = \frac{Sz^2}{4D}$$

Nella pratica è stato possibile stabilire valori di Sz alquanto vicini alle condizioni ottimali d'impiego. Per comodità li riportiamo qui di seguito;

FRESE in HW (HM)

sgrossatura..... Sz = 2,5 ÷ 5
finitura media..... 0,8 ÷ 2,5
buona finitura..... 0,3 ÷ 0,8

Teniamo a precisare che non ha senso scendere al di sotto dei valori minimi, perché non si otterrebbe una finitura migliore, anzi si provocherebbe l'usura precoce del tagliente, che lavorerebbe per attrito e non per taglio. Per le lame i valori di Sz sono alquanto inferiori.

LAME

Legno tenero
lungovena Sz=0,2-0,9
Legno tenero
attraverso vena..... 0,1 ÷ 0,2
Legno duro 0,05 ÷ 0,15
Truciolare 0,1 ÷ 0,25
Truciolare con laminati 0,02 ÷ 0,05
Compensati..... 0,1 ÷ 0,25
Multistrati 0,05 ÷ 0,12

6.6 Potenza assorbita

La conoscenza della potenza assorbita permette all'operatore di predisporre le fasi di lavorazione in relazione alla potenza disponibile.

Si potrà, pertanto, dosare la velocità di avanzamento e decidere se è opportuno usare uno o più motori con una fase preliminare di sgrossatura.

Per il calcolo della potenza assorbita sono necessari i seguenti dati:

B = altezza di taglio in mm
A = profondità di taglio in mm
Va = Velocità di avanzamento in m/min

D = Diametro dell'utensile in mm

Sz = Asportazione unitaria per dente

HW (HM) = Spessore medio del truciolo

$$N_{kw} = \frac{B \times A \times Va \times K}{9.000 \times 1,36}$$

K = coefficiente in relazione allo spessore medio del truciolo

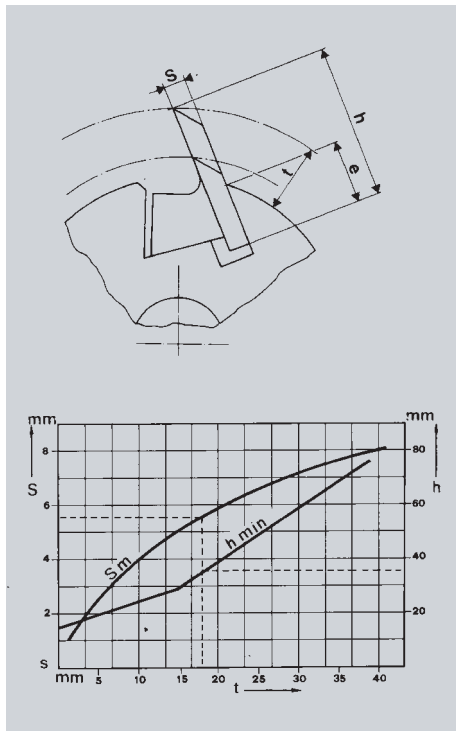
$$hm = Sz \sqrt{\frac{A}{D}}$$

Valori di K

Spessore medio del truciolo hm	0,05	0,1	0,2	0,3	0,5
Legno tenero lungovena	12	8	6	4,5	4
Legno tenero attraversovena	15	9,5	7	6	5,5
Legno duro lungovena	14	9	7	5,3	4,8
Legno duro attraversovena	16	11	8	6,5	5,8



7 NORME DI SICUREZZA



7.1 Coltelli sagomati

Il montaggio di coltelli sagomati su teste porta coltelli è ammesso, sempre nel rispetto di alcuni parametri che ne garantiscano l'uso pratico senza alcun pericolo di rottura.

S = spessore coltello

t = sporgenza coltello

h = altezza del coltello

e = profondità di fissaggio

8 MANUTENZIONE DEGLI UTENSILI

8.1 Tutti gli utensili sono consegnati pronti per l'uso. Gli utensili speciali vengono forniti con il relativo campione in legno, che attesta l'avvenuto collaudo.

8.2 Montaggio

Prima di montare l'utensile occorre accertarsi che:

- ◆ tutte le viti di bloccaggio siano serrate.
- ◆ il numero di giri indicato sull'utensile sia compatibile con quello riportato sulla macchina; il numero di giri massimo non deve essere oltrepassato.
- ◆ l'utensile sia montato solamente con anelli rettificati.
- ◆ Inoltre, se l'accoppiamento foro-albero non risultasse libero, il montaggio forzato dell'utensile deve essere assolutamente evitato.
- ◆ Per avere un'utensile sempre efficiente sono necessari una costante pulizia e un costante controllo dello stato di usura degli inserti.

8.3 Vibrazioni

Queste possono essere dovute a cause di eccentricità di rotazione dell'albero porta frese (tolleranza richiesta $\pm 0,01$ mm); velocità eccessiva di taglio; serraggio insufficiente dell'utensile; depositi di trucioli entro il corpo fresa dovuti a scarsa aspirazione.

8.4 Usura precoce dei taglienti

Le cause più frequenti dell'usura precoce dei taglienti vanno riscontrate nell'eccessiva velocità di taglio, nella ridotta profondità di taglio e velocità di avanzamento insufficiente.

8.5 La sostituzione degli inserti deve essere effettuata con gli attrezzi dati in dotazione, pulendo preventivamente le sedi dove devono essere introdotte le chiavi. Se è necessario sostituire i pezzi di fissaggio usurati, prima di montare i nuovi inserti occorre pulire accuratamente la sede di alloggiamento di questi ultimi.



9 DESCRIZIONE DEL PRODOTTO

**UTENSILI CON FISSAGGIO
MECCANICO DELL'INSERTO PER
LA LAVORAZIONE DEL LEGNO
E/O AFFINI PRODOTTI DALLA
DITTA ZUANI S.R.L.**

In base alle nuove esigenze delle macchine operatrici ed alle severe normative nell'ambito della lavorazione del legno e dei suoi affini la Zuani S.R.L. produce una nuova serie di utensili con fissaggio meccanico dell'inserto tagliente, onde offrire all'utilizzatore sicurezza e facilità di manutenzione.

I corpi base sono in acciaio di qualità superiore e, dove la composizione e la forma dell'utensile lo permettono, si è cercato di dare una conformazione il più rotonda possibile per abbassare il livello di rumorosità e il rischio di contraccolpo.

Le sedi di alloggiamento dei taglienti sono della massima precisione e garantiscono la ripetitività del posizionamento senza l'uso di dispositivi pre-setting. Per i taglienti principali è stato sviluppato un sistema di fissaggio molto comodo che permette una facile e veloce sostituzione dell'inserto sia in direzione assiale che radiale.

Le viti sono in acciaio ad alta resistenza con sede di fissaggio "Torx" che garantisce un sicuro e frequente uso, eliminando i noti svantaggi delle viti con testa a cava esagonale incassata riscontrati su diametri piccoli. Gli inserti hanno due o più lati taglienti e rappresentano il nuovo passo nella lavorazione del legno. Nella progettazione di questi inserti, ormai di uso frequente, si è prestata particolare attenzione alla geometria dei taglienti onde migliorare il grado di finitura del legno lavorato. Questo riguarda in particolare modo la lavorazione controvena. Il miglioramento della finitura dipende in particolare modo dall'aumento

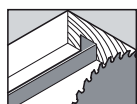
dell'angolo di scarico e dall'inclinazione dell'inserto unitamente alla tolleranza di comparazione riservata ai vari inserti applicati allo stesso corpo. Lo scarico del truciolo presenta una forma che ne facilita l'evacuazione e la successiva cattura dall'impianto di aspirazione. Dove è necessario, il taglio laterale viene eseguito con speciali incisori che, garantiscono una superficie finita anche in presenza di incastri profondi, eliminando nel contempo le pericolose sollecitazioni assiali che si creerebbero durante la lavorazione. Per garantire la buona applicazione delle vernici protettive vengono smussati e arrotondati gli spigoli per mezzo di speciali inserti a quattro lati taglienti. Gli utensili forniti a pacco sono montati su mozzi rettificati muniti di ghiera di fissaggio per evitarne lo svitamento durante le gravose sollecitazioni create dai motori autofrenanti.

Tutti gli utensili sono equilibrati dinamicamente con equilibratrici elettroniche che assicurano l'assenza di vibrazioni residue durante la lavorazione. Ulteriore attenzione è stata prestata alla scelta del trattamento superficiale che, essendo elettrolitico, preserva tutta la superficie degli utensili dall'ossidazione. Il controllo finale viene effettuato dal nostro personale direttamente su macchine operatrici, controllando gli utensili in tutte le sue parti. Quest'ultima fase, in accordo con i criteri seguiti in progettazione, assicura un prodotto che offre tutte le garanzie di sicurezza richieste dalle norme attualmente vigenti in Italia e all'estero; sono altresì rispettate le norme relative al grado di equilibratura in previsione della loro applicazione in sede europea.

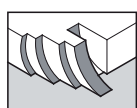


**Significato dei simboli / Sens des symboles /
Significado de los símbolos / Symbols meaning /
Erklärung der Symbole**

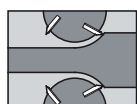
**1 Tipo di lavorazione /
Type de travail sur le bois
/ Tipo de elaboración en
la madera / Type of
working / Art der
bearbeitung**



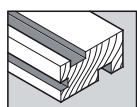
Incidere / *Entailler* /
Entallar / *Spurring* /
Vorschneiden



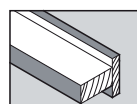
Truciolare / *Emietter* /
Hacer virutas / *Hogging* /
Zerspanen



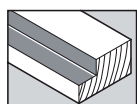
Piallare / *Raboter* /
Cepillar / *Planning* /
Hobeln



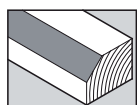
Fare incastri / *Rainer* /
Ranurar / *Grooving* /
Nuten-Bohren



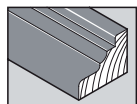
Contornare / *Chantourner* /
Contornear / *Squaring* /
Umfälzen



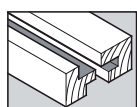
Fare battute / *Feuillurer* /
Galcear / *Rebating* /
Fälzen



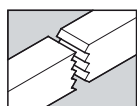
Smussare / *Chanfreiner* /
Biselar / *Bevelling* /
Fasen



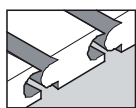
Profilatura universale /
Profilage / Perfilar /
Profiling / Profilierung



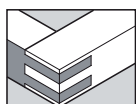
Giunzione lungo vena /
*Jonction dans le sens des
fibres* / Ensemble en el
sentido de la fibra /
Jointing along vein / Längs-Verleimen



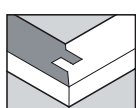
Giunzione di testa /
Jonction en bout /
Ensemble frontal / *Glue-
Jointing* / Verleimen



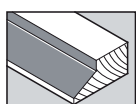
Giunzione maschio +
femmina / *Bouvetage =
tenon + enfourchement* /
Ensemble = macho +
hembra / *Jointing = Tenoning and Slotting* /
Verleimen = Zapfen und Schlitz



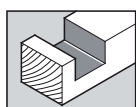
Giunzione forcelle +
tenoni / *Bouvetage = tenon
+ enfourchement* /
Ensemble = macho +
hembra / *Jointing = Tenoning and Slotting* /
Verleimen = Zapfen und Schlitz



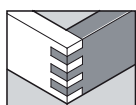
Giunzione ad angolo /
Bouvetage à 45° / Ensemble
a 45° / *45° Jointing* / Zu 45°
Verleimen



Piattabanda / *Plate-bande* /
Fresa para plafones /
Raised Planer Cutter /
Abplattfraser

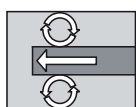


Fare incastri e battute
attraverso vena / *Rainer
et feuillurer dans le sens des
fibres* / Ranurar y galcear
en el sentido de la fibra / *Grooving and
Rebating along vein* / Nuten-Bohren und
Falzen längs

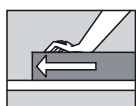


Giunzione di testa
(Zinken) / *Jonction en
bout* / Ensemble frontal /
Glue Jointing / Zinken

**2 Tipo d'avanzamento /
Type d'avance / Tipo de
avance / Type of
advancing / Art des
vorschubs**

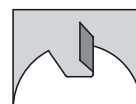


Avanzamento meccanico /
Avance mécanique /
Avance mecánico /
Mechanical Advancing /
Mechanischer Vorschub



Avanzamento manuale /
Avance à la main / Avance
manual /
Hand Advancing /
Handvorschub

**3 Tipo di costr. utensili /
Type de construction des
outils / Tipologia de
construcción de la
herramienta / Type of
tooling / Werkzeugarten**



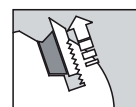
Esecuzione saldobrasato
riaffilabile / *Exécution
soudo-brasée affûtable* /
Ejecución saldo-brasado
afilable / *Execution of Sharpening Braze
Welding Tools* / Ausführung von
schleifbaren bestückten Werkzeugen



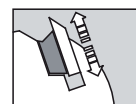
Fissaggio meccanico dei
taglienti intercambiabili /
*Fixation mécanique des
plaquettes interchangeables* /
Fijación mecánica de las cuchillas
intercambiabili / *Mechanical Fixing of
Interchangeable knives* / Mechanische
Befestigung der auswechselbaren
Platten



Fissaggio meccanico dei
taglienti reversibili /
*Fixation mécanique des
plaquettes réversibles* /
Fijación mecánica de las cuchillas
reversibles / *Mechanical Fixing of
Turnblades* / Mechanische Befestigung
der Wendepplatten



Fissaggio meccanico dei
taglienti regolabili /
*Fixation mécanique des
plaquettes réglables* /
Fijación mecánica de las cuchillas
regulables / *Mechanical Fixing of
Adjustable Knives* / Mechanische
Befestigung der verstellbaren Platten



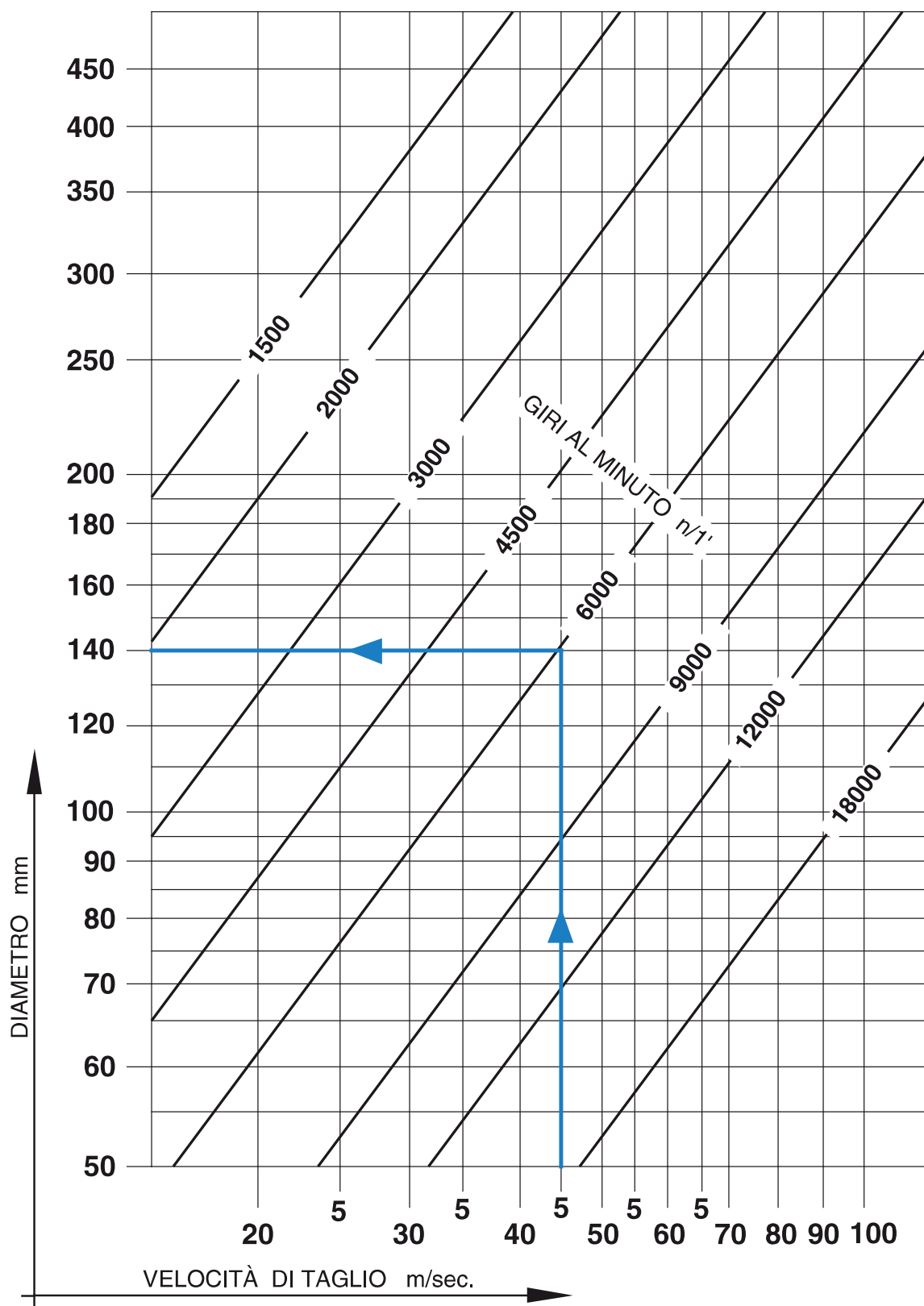
Fissaggio meccanico dei
taglienti regolabili /
*Fixation mécanique des
plaquettes réglables* /
Fijación mecánica de las cuchillas
regulables / *Mechanical Fixing of
Adjustable Knives* / Mechanische
Befestigung der verstellbaren Platten



Diagramma della velocità di taglio. Esempio: Supponiamo che si intenda lavorare del multistrati su una macchina a 6.000 g/min. stabilendo una velocità periferica

di 45 m/sec. Tracciare una retta verticale in corrispondenza della velocità (45 m/sec.) fino ad intersecare la diagonale corrispondente a 6.000 g/min. Dal punto di interse-

zione si tracci una retta orizzontale, che servirà a determinare sulla scala verticale il diametro consigliato. In questo caso $D = 140$ mm



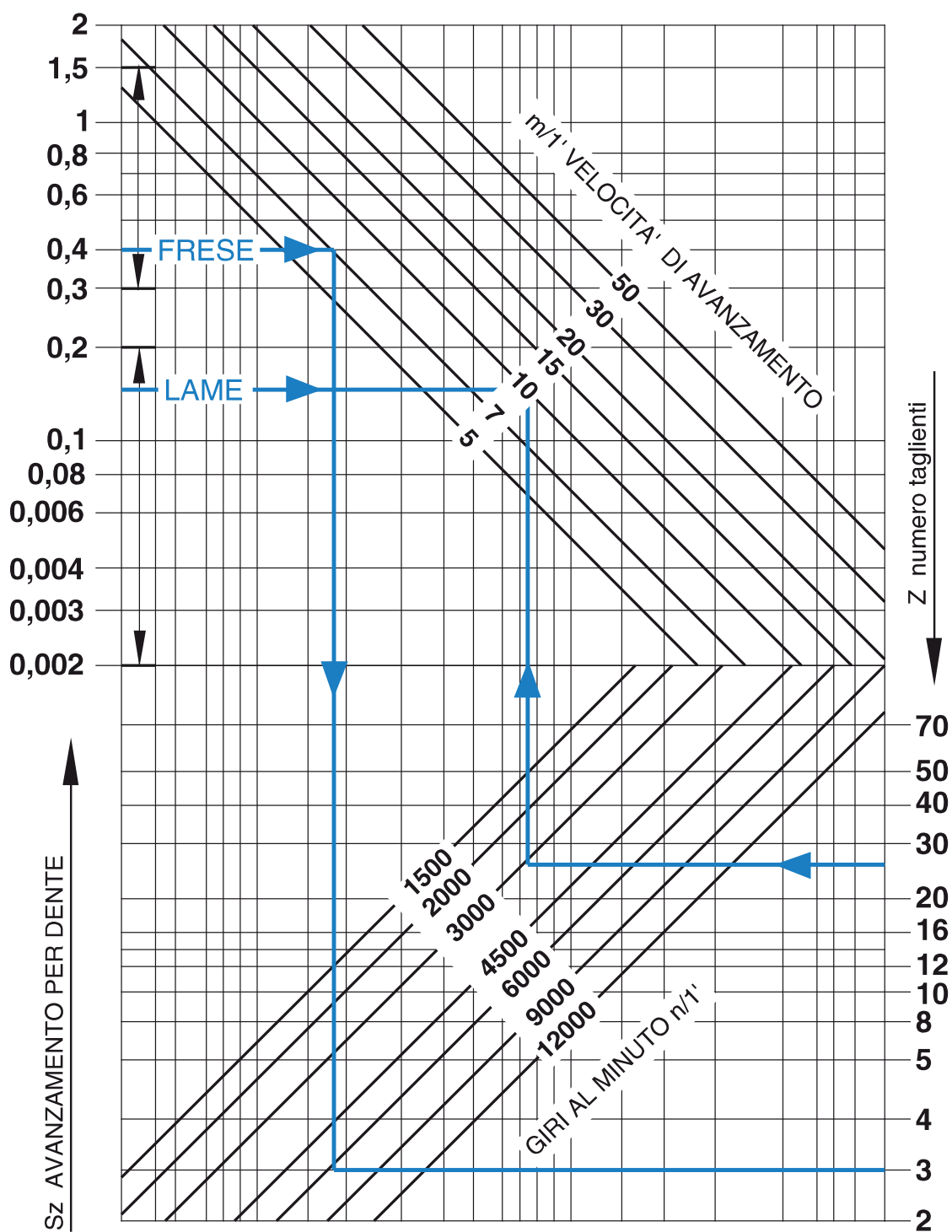


Esempio:

Grado di finitura..... Sz 0,4
Avanzamento 7 m / min
Velocità.....6.000 g / min
Numero dei taglienti dell'utensile..Z 3

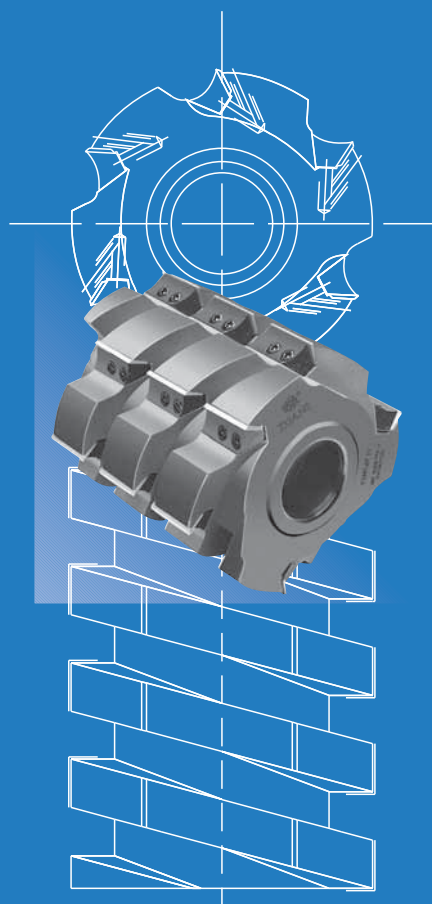
Esempio:

LamaZ 24
Velocità3000 g / min
Grado di finitura..... Sz 0,15
Avanzamento richiesto 10 m / min





Utensili base per scorniciatrice e tenonatrice Porte-outils pour moulurière et tenonneuse Cabezales para moldurera y espigadora Tools for moulding machine and tenoning machine Werkzeuge für Profil- und Zapfenmaschine



Teste pialla componibili per scorniciatrice Porte-outils à raboter superposables pour moulurière Cabezal cepillador combinado para moldurera Combined planer head with pressure springs Kombi-Hobelmesserkopf für Kehlmaschine	CT 626 2-3
Teste pialla per scorniciatrice Porte-outils à raboter pour moulurière Cabezal cepillador para moldurera Planer head with pressure springs Hobelmesserkopf für Kehlmaschine	CT 022 2-4
Teste pialla per scorniciatrice Porte-outils à raboter pour moulurière Cabezal cepillador para moldurera Planer head with pressure springs Hobelmesserkopf für Kehlmaschine	CT 024 2-5
Teste pialla ad alto rendimento Porte-outils à raboter à haut régime Cabezal cepillador de elevado rendimiento High Efficiency Planer head Hochleistungshobelmesserkopf	CT 830 2-6
Teste pialla ad alto rendimento con taglio frazionato Porte-outils à raboter à haut régime avec coupe fractionnée Cabezal cepillador de elevado rendimiento con corte fraccionado High Efficiency Planer head with staggered knives Hochleistungshobelmesserkopf mit verlagerten Messern	CT 840 2-7
Teste pialla a taglio frazionato Porte-outils à raboter avec coupe fractionnée Cabezal cepillador a corte fraccionado Planer head with staggered knives Hobelmesserkopf mit verlagerten Messern	CT 632 2-8
Fresa rasante Fraise d'arasement Fresa para enderezar Shaving cutters Schabefräser	CI 624 2-9
Frese per piani scanalati Fraises pour plans à coulisse Fresas para planos ranurados Grooving bed cutterheads Fräser für genutete Flächen	CI 623 2-10
Teste per tenonatrici manuali Porte-outils pour machines à tenonner manuelles Cabezales para espigadora manual Cutterheads for manual tenoning-machine Messerköpfe für Handverzapfmaschine	CT 020 2-11
Teste per tenonatrici manuali Porte-outils pour machines à tenonner manuelles Cabezales para espigadora manual Cutterheads for manual tenoning-machine Messerköpfe für Handverzapfmaschine	CT 620 2-12
Truciolatore componibile Déchiqueteur par éléments Triturador componible Sectional trimming hogger Zusammenstellbarer Zerspaner	2-13
Truciolatore base Déchiqueteur de base Triturador de base Segmented trimming hogger Basis-Zerspaner	CL 025 2-14

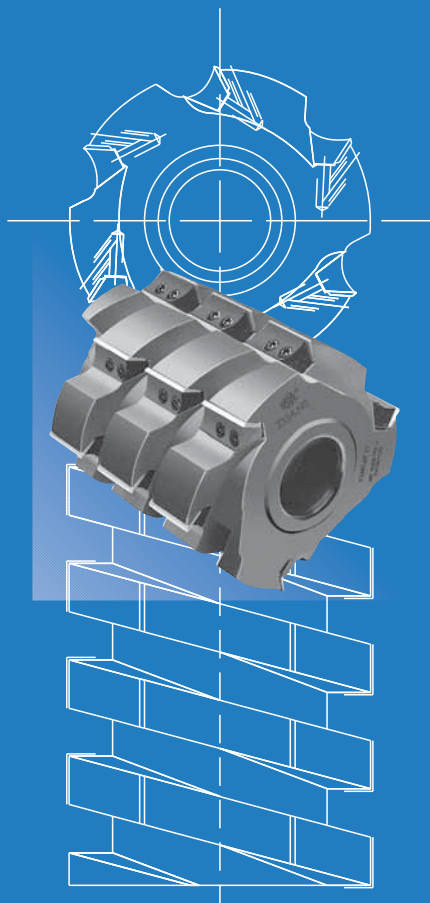


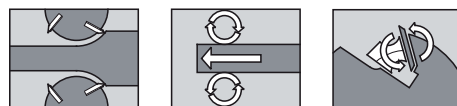
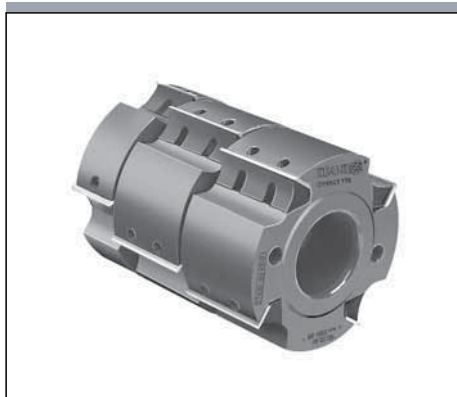
Utensili base per scorniciatrice e tenonatrice
Porte-outils pour moulurière et tenonneuse
Cabezales para moldurera y espigadora
Tools for moulding machine and tenoning machine
Werkzeuge für Profil- und Zapfenmaschine

Settore supplementare	CL 030
Fraise supplémentaire	2-15
Fresa suplementaria	
Hogger segment	
Zusatzelement	

Lama per truciolatori	CL 035
Lame pour déchiqueteur	2-16
Sierra para triturador	
Trimming saw blades	
Kreissäge für Zerspaner	

Mozzo di assemblaggio	G 15
Manchon d'assemblage	2-17
Manguito para triturador	
Special mounting sleeve	
Büchse	





**Teste pialla componibili per
scorniciatrice**

**Porte-outils à raboter superposables
pour moulurière**

**Cabezal cepillador combinado para
moldadera**

Combined planer head with pressure springs

Kombi-Hobelmesserkopf für Kehlmaschine

CT 626



I Taglio frazionato per ridurre lo sforzo ed aumentare l'avanzamento. Coltelli in HW (HM) reversibili standard. I vari spessori permettono di combinare la lunghezza desiderata. Spine di riferimento anti rotazione. Corpo in acciaio.

F Coupe fractionnée pour améliorer l'avancement et réduire l'effort. Couteaux en HW (HM) réversibles standard. Plusieurs épaisseurs permettent de composer la longueur choisie. Goupilles de brachement contre-rotation. Corps en acier.

E Corte fraccionado para un elevado rendimiento. Cuchillas reversibles estándar en HW (HM). Los varios espesores permiten lograr el largo deseado. Espigas de enganche anti-rotación. Cuerpo en acero.

UK Staggered knives, in order to ameliorate the advancement. Reversible, standard HW (HM) knives. The different thicknesses let you obtain the desired length. Anti-rotation connecting pins. Steel tool.

D Verlagerte Messer zu einem schnelleren Vorschub. Umkehrbare HW (HM)- Standardmesser. Die verschiedenen Stärken gestatten die Erreichung der erwünschten Länge. Verbindungsstifte gegen Drehrichtung. Stahl-Körper.

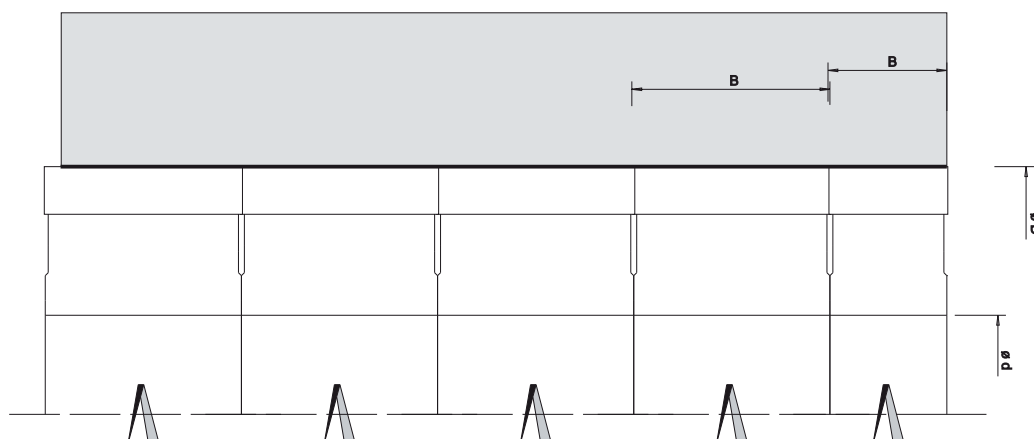
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100	20	30/35	4	CT626.100.4020 ▲	A 378
100	30	30/35	4	CT626.100.4030 ▲	A 378
100	50	30/35	4	CT626.100.4050 ▲	A 438
125	20	40/50	4	CT626.125.4020	A 422
125	30	40/50	4	CT626.125.4030 ▲	A 422
125	50	40/50	4	CT626.125.4050 ▲	A 490

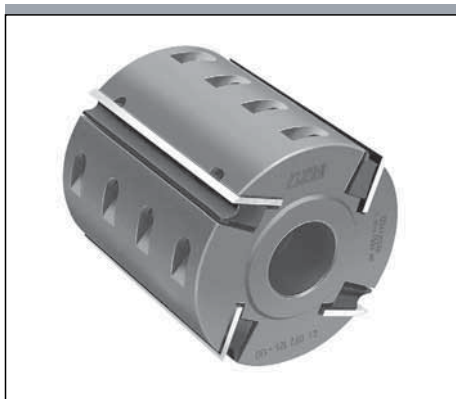
▲ disponibilità immediata con sconto maggiorato

Coltelli ricambio Bx12x1,5

B	Cod.	COD. P.
30	F0.30.12.15 ●	B 880
50	F0.50.12.15 ●	B 1220

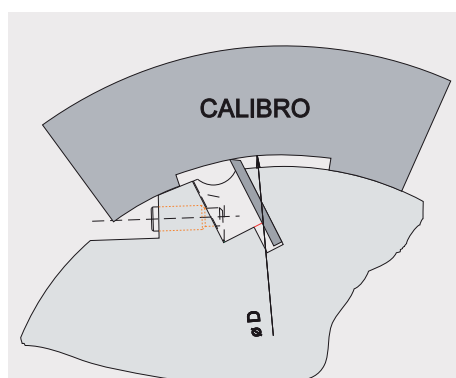
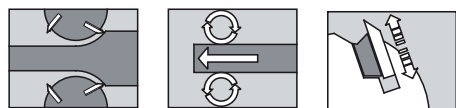
● confezioni da 10 pezzi





Teste pialla per scorniciatrice
Porte-outils à raboter pour moulurière
Cabezal cepillador para moldurera
Planer head with pressure springs
Hobelmesserkopf für Kehlmaschine

CT 022



I Coltelli riaffilabili 30x3 in HS. Calibri di posizionamento coltelli a richiesta. Corpo in acciaio.

F Couteaux en HS 30x3 à affiler de nouveau. Calibres de positionnement des couteaux sur demande des intéressés. Corps en acier

E Pueden reaflar las cuchillas en HS 30x3. Calibres para posicionar las cuchillas bajo pedido. Cuerpo en acero

UK The 30x3 HS knives are to sharpen again. Gauges for positioning knives on request. Steel tool

D Mit wiederschleifbaren Messern aus HS 30x3. Lehren zum Messer-Positionieren auf Wunsch. Stahl - Körper

ØD	B	Z	d	CODICE	COD. P.
100	100	2	30	CT022.100.2100	A 578
100	130	2	30	CT022.100.2130	A 718
100	150	2	30	CT022.100.2150	A 768
100	180	2	30	CT022.100.2180	A 912
100	230	2	30	CT022.100.2230	A 1102

ØD	B	Z	d	CODICE	COD. P.
125	100	4	35/40	CT022.125.4100	A 740
125	130	4	35/40	CT022.125.4130	A 898
125	150	4	35/40	CT022.125.4150	A 962
125	180	4	35/40	CT022.125.4180	A 1170
125	230	4	35/40	CT022.125.4230	A 1378

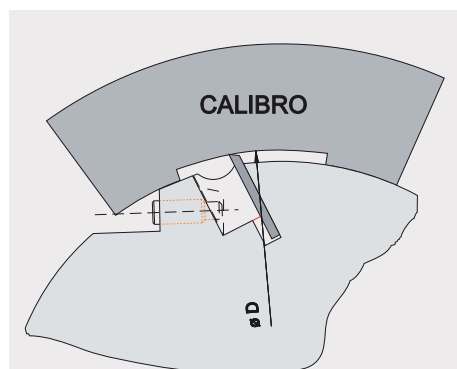
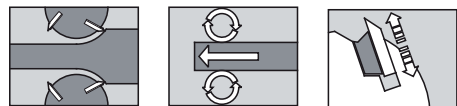
ØD	B	Z	d	CODICE	COD. P.
140	100	4	35/40	CT022.140.4100	A 1052
140	130	4	35/40	CT022.140.4130	A 1252
140	150	4	35/40	CT022.140.4150	A 1378
140	180	4	35/40	CT022.140.4180	A 1598
140	230	4	35/40	CT022.140.4230	A 1836

Calibro

ØD	CODICE	COD. P.
100	G71.100.0101	B 800
125	G71.125.0101	B 1110
140	G71.140.0101	B 1334

Coltelli Bx30x3

B	Cod. HS	COD. P.
100	F7.HS.100.3	B
130	F7.HS.130.3	B
150	F7.HS.150.3	B
180	F7.HS.180.3	B
230	F7.HS.230.3	B



Teste pialla per scorniciatrice
Porte-outils à raboter pour moulurière
Cabezal cepillador para moldudera
Planer head with pressure springs
Hobelmesserkopf für Kehlmaschine

CT 024



I Coltelli riaffilabili 30x3 in HS. Calibri di posizionamento coltelli a richiesta. Corpo in alluminio.

F Couteaux en HS 30x3 à affiler de nouveau. Calibres de positionnement des couteaux sur demande des intéressés. Corps en aluminium.

E Pueden reaflar las cuchillas en HS 30x3. Calibres para posicionar las cuchillas bajo pedido. Cuerpo en aluminio.

UK The 30x3 HS knives are to sharpen again. Gauges for positioning knives on request. Aluminium tool.

D Mit wiederschleifbaren Messern aus HS 30x3. Lehren zum Messer-Positionieren auf Wunsch. Alu - Körper.

ØD	B	Z	d	CODICE	COD. P.
100	100	2	30	CT024.100.2100	A 666
100	130	2	30	CT024.100.2130	A 828
100	150	2	30	CT024.100.2150	A 882
100	180	2	30	CT024.100.2180	A 1048
100	230	2	30	CT024.100.2230	A 1268

ØD	B	Z	d	CODICE	COD. P.
125	100	4	35/40	CT024.125.4100 ▲	A 850
125	130	4	35/40	CT024.125.4130 ▲	A 1034
125	150	4	35/40	CT024.125.4150	A 1106
125	180	4	35/40	CT024.125.4180	A 1302
125	230	4	35/40	CT024.125.4230 ▲	A 1586

ØD	B	Z	d	CODICE	COD. P.
140	100	4	35/40	CT024.140.4100	A 1212
140	130	4	35/40	CT024.140.4130	A 1436
140	150	4	35/40	CT024.140.4150	A 1586
140	180	4	35/40	CT024.140.4180	A 1836
140	230	4	35/40	CT024.140.4230	A 2112

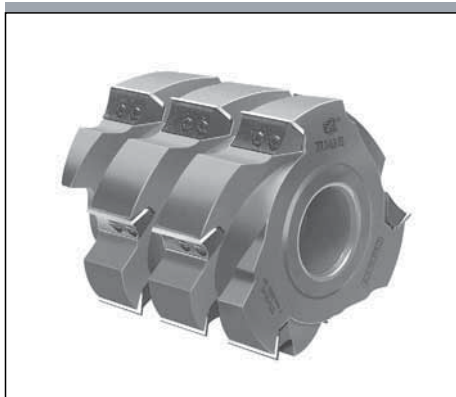
Calibro

ØD	CODICE	COD. P.
100	G71.100.0101	B 800
125	G71.125.0101	B 1110
140	G71.140.0101	B 1334

Coltelli Bx30x3

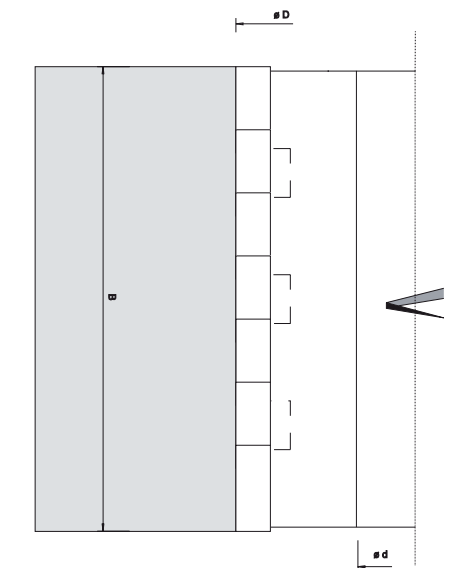
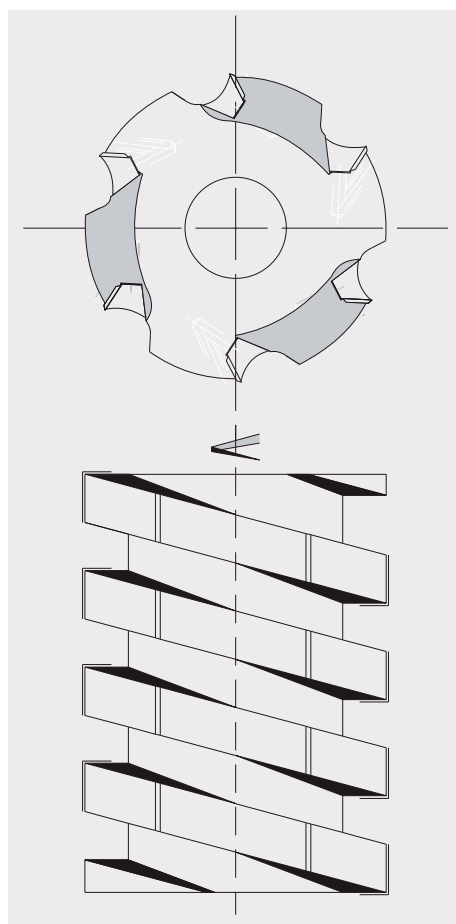
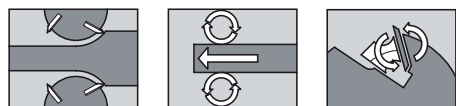
B	Cod. HS	COD. P.
100	F7.HS.100.3	
130	F7.HS.130.3	
150	F7.HS.150.3	
180	F7.HS.180.3	
230	F7.HS.230.3	

▲ disponibilità immediata con sconto maggiorato



Teste pialla ad alto rendimento
Porte-outils à raboter à haut régime
Cabezal cepillador
de elevado rendimiento
High Efficiency Planer head
Hochleistungshobelmesserkopf

CT 830



I Testa porta coltelli in alluminio (a richiesta viene prodotta in acciaio). Taglio frazionato per maggiore avanzamento. Scarichi elicoidali per migliorare l'aspirazione ed abbattere la rumorosità. Coltelli in HW (HM) reversibili standard. Foro senza boccole.

F Porte-outils en aluminium (sur demande des intéressés aussi en acier). Coupe fractionnée pour un meilleur avancement. Surface de dégagement hélicoïdale pour améliorer l'aspiration et réduire le bruit. Couteaux en HW (HM) réversibles standard. Alésage sans bagues.

E Cabezal en aluminio (a pedido se puede hacer en acero). Corte fraccionado para lograr un elevado rendimiento. Superficie de descarga helicoidal para una mejor aspiración y reducción del ruido. Cuchillas reversibles estándar en HW (HM). Eje sin manguitos.

UK Aluminium tool (on request also steel tool). Staggered knives, in order to ameliorate the advancement. Helicoidal unloading surface in order to make the intake easier and to avoid noise. Reversible, standard HW (HM) knives
 Bore without sleeves.

D Alu-Körper (auf Wunsch auch aus Stahl). Verlagerte Messer zu einem schnelleren Vorschub. Spiralförmiger Spanraum zum verbesserten Spanauswurf und -abzug und zur geräuscharmen Arbeitsweise der Maschine Umkehrbare HW (HM)- Standardmesser.
 Bohrung ohne Büchsen.

ØD	B	Ø d	Z	Cod.	COD. P.
100	52	35 / 40	6	CT830.100.3052	A 616
100	74	35 / 40	9	CT830.100.3074	A 912
100	96	35 / 40	12	CT830.100.3096	A 1180
100	118	35 / 40	15	CT830.100.3118	A 1324
100	140	35 / 40	18	CT830.100.3140	A 1458
100	162	35 / 40	21	CT830.100.3162	A 1704
100	184	35 / 40	24	CT830.100.3184	A 2412
100	206 x	35 / 40	27	B5209.100T6	A 2554
100	228 x	35 / 40	30	B5210.100T6	A 2672

ØD	B	Ø d	Z	Cod.	COD. P.
125	52	35 / 40	6	CT830.125.3052	A 680
125	74	35 / 40	9	CT830.125.3074	A 974
125	96	35 / 40	12	CT830.125.3096	A 1248
125	118	35 / 40	15	CT830.125.3118 ▲	A 1402
125	140	35 / 40	18	CT830.125.3140	A 1554
125	162	35 / 40	21	CT830.125.3162	A 1800
125	184	35 / 40	24	CT830.125.3184	A 2538
125	206 x	35 / 40	27	B5209.125T6	A 2696
125	228 x	35 / 40	30	B5210.125T6 ▲	A 2884

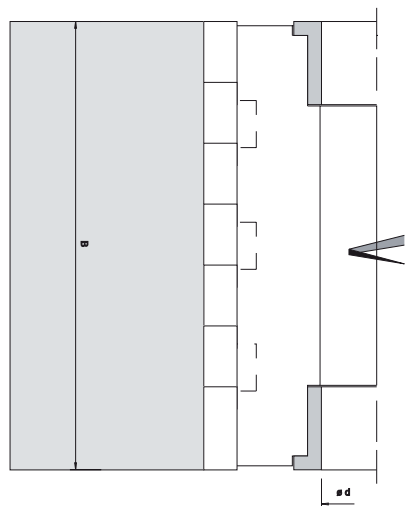
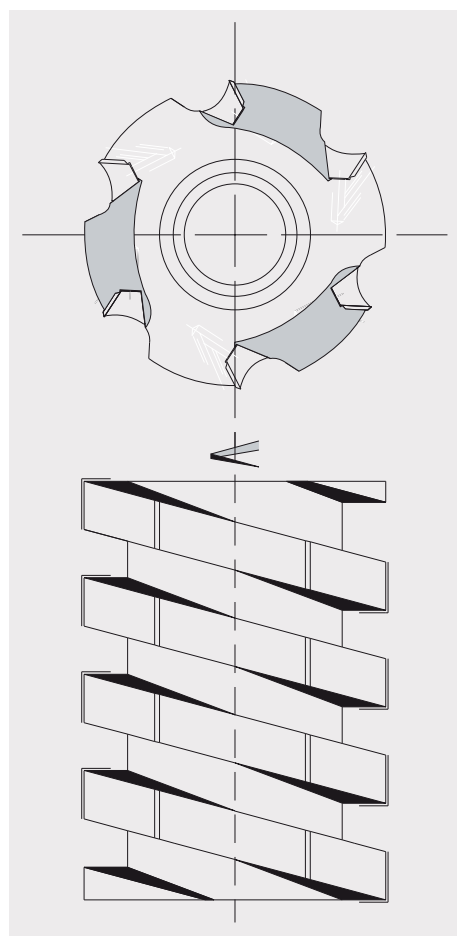
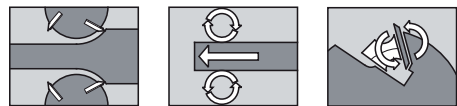
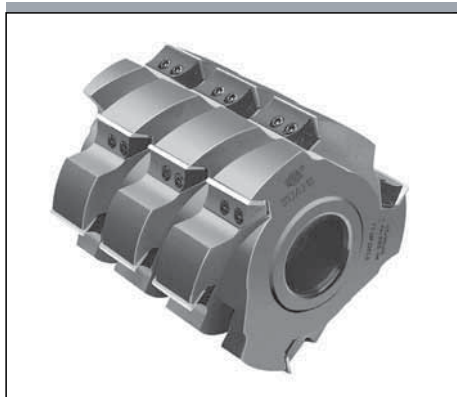
x Costruite in due pezzi

▲ disponibilità immediata con sconto maggiorato

Coltelli ricambio 30x12x1,5

B	Cod.	COD. P.
30	F0.30.12.15 ●	B 880

● Confezione da 10 pezzi



Teste pialla ad alto rendimento con taglio frazionato
Porte-outils à raboter à haut régime avec coupe fractionnée
Cabezal cepillador de elevado rendimiento con corte fraccionado
High Efficiency Planer head with staggered knives
Hochleistungshobelmesserkopf mit verlagerten Messern

CT 840



I Scarichi elicoidali per migliorare l'aspirazione ed abbattere la rumorosità. Coltelli in HW (HM) reversibili e raccordati per una perfetta finitura. Corpo in alluminio, foro con boccole in acciaio.

F Surface de dégagement hélicoidale pour améliorer l'aspiration et réduire le bruit. Couteaux en HW (HM) réversibles et arrondis pour un finissage parfait. Corps en aluminium.

E Superficie de descarga helicoidal para una mejor aspiración y reducción del ruido. Cuchillas reversibles y achaflanadas en HW (HM) para una perfección de trabajo. Cuerpo en aluminio.

UK Helicoidal unloading surface in order to make the intake easier and to avoid noise. Reversible and chamfered HW (HM) knives in order to obtain a perfect finishing. Aluminium tool.

D Spiralförmiger Spanraum zum verbesserten Spanauswurf und -abzug und zur geräuscharmen Arbeitsweise der Maschine. Umkehrbare, abgerundete Messer zur perfekten Feinbearbeitung. Alu - Körper.

ØD	B	Ø d	Z	Cod.	COD. P.
100	52	35 / 40	6	CT840.100.3052	A 1050
100	74	35 / 40	9	CT840.100.3074	A 1334
100	96	35 / 40	12	CT840.100.3096	A 1600
100	118	35 / 40	15	CT840.100.3118	A 1882
100	140	35 / 40	18	CT840.100.3140	A 2168
100	162	35 / 40	21	CT840.100.3162	A 2450
100	184	35 / 40	24	CT840.100.3184	A 2790
100	206 x	35 / 40	27	B5107.100T6	A 3074
100	228 x	35 / 40	30	B5108.100T6	A 3360

ØD	B	Ø d	Z	Cod.	COD. P.
125	52	35 / 40	6	CT840.125.3052	A 1064
125	74	35 / 40	9	CT840.125.3074	A 1356
125	96	35 / 40	12	CT840.125.3096	A 1632
125	118	35 / 40	15	CT840.125.3118 ▲	A 1922
125	140	35 / 40	18	CT840.125.3140	A 2216
125	162	35 / 40	21	CT840.125.3162	A 2508
125	184	35 / 40	24	CT840.125.3184	A 2858
125	206 x	35 / 40	27	B5107.125T6	A 3148
125	228 x	35 / 40	30	B5108.125T6 ▲	A 3440

x Costruite in due pezzi

▲ disponibilità immediata con sconto maggiorato

Coltelli ricambio 30x12x1,5

B	Cod.	COD. P.
30	F2.30P2003.0 ●	B 1740

● Confezione da 10 pezzi

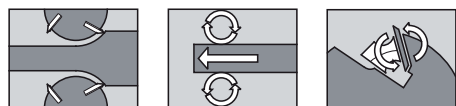


Teste pialla a taglio frazionato
Porte-outils à raboter avec coupe fractionnée

Cabezal cepillador a corte fraccionado
Planer head with staggered knives

Hobelmesserkopf mit verlagerten Messern

CT 632



I La disposizione frazionata dei coltelli riduce la rumorosità e lo sforzo di taglio. Coltelli in HW (HM) reversibili standard da 50 mm. Corpo in acciaio.

F La coupe fractionnée des couteaux réduit le bruit et l'effort de coupe. Couteaux standard en HW (HM) réversibles 50 mm. Corps en acier.

E El corte fraccionado reduce el ruido y el esfuerzo de corte. Cuchillas estándar reversibles en HW (HM) 50mm. Cuerpo en acero.

UK The staggered knives reduce the noise and the cut-efforts. HW (HM) standard reversible knives 50mm. Steel tool.

D Die verlagerten Messer setzen die Geräusche und die Schnittanstrengung herab. Umkehrende Standardmesser aus HW (HM) 50mm. Stahl - Körper.

ØD	H	Ø d	Z	CODICE	COD. P.
100	80	35/40	3+3	CT632.100.3080	A 816
100	100	35/40	3+3	CT632.100.3100	A 876
100	130	35/40	3+3	CT632.100.3130	A 1254
100	150	35/40	3+3	CT632.100.3150	A 1314
100	180	35/40	3+3	CT632.100.3180	A 1692
100	230 x	35/40	3+3	B5301.100C3	A 2130

ØD	H	Ø d	Z	CODICE	COD. P.
125	80	35/40	3+3	CT632.125.3080	A 912
125	100	35/40	3+3	CT632.125.3100 ▲	A 980
125	130	35/40	3+3	CT632.125.3130	A 1402
125	150	35/40	3+3	CT632.125.3150	A 1470
125	180	35/40	3+3	CT632.125.3180	A 1892
125	230 x	35/40	3+3	B5301.125C3 ▲	A 2382

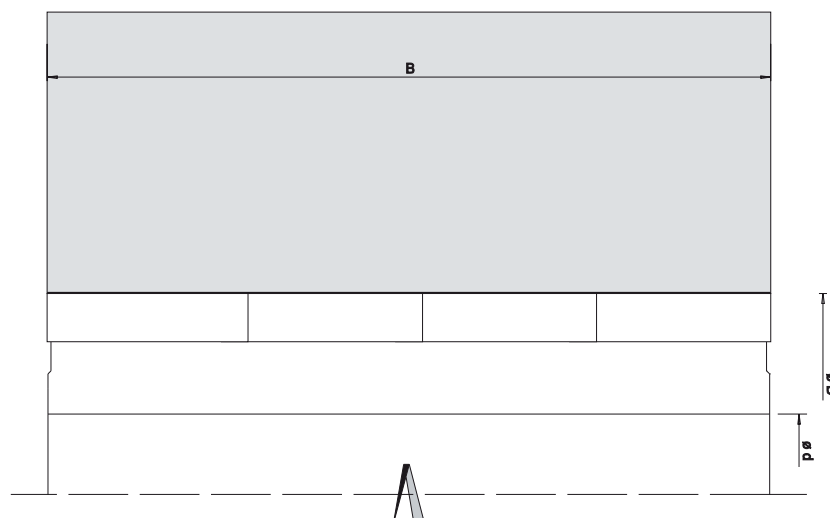
▲ disponibilità immediata con sconto maggiorato

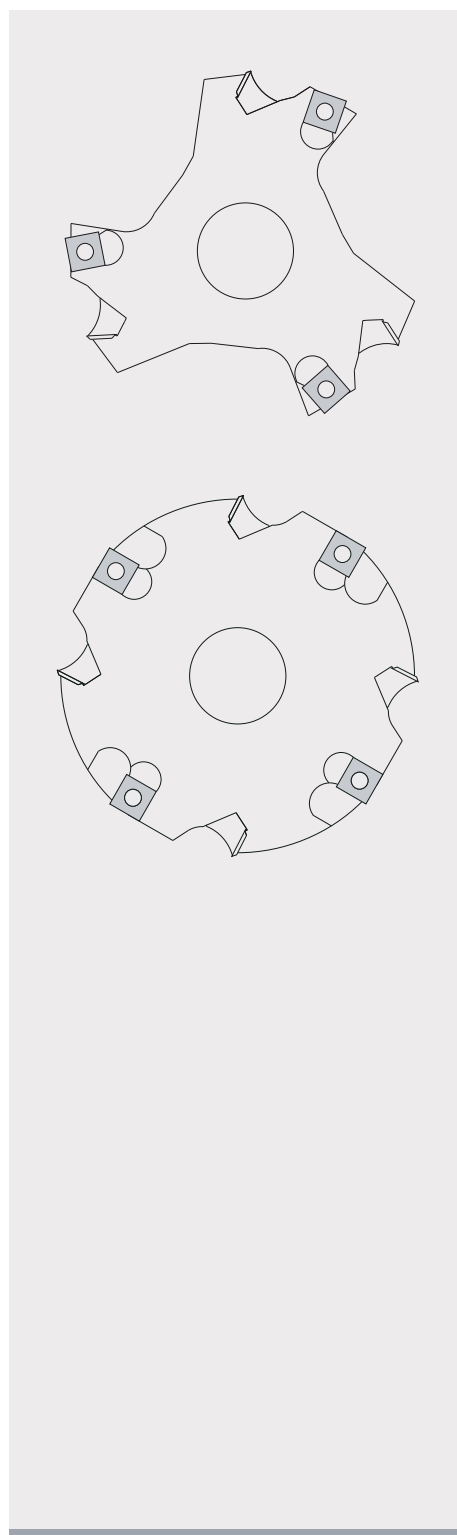
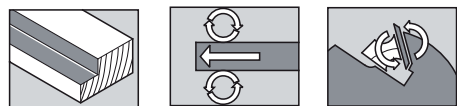
x costruito in due pezzi

Coltelli ricambio Bx12x1,5

B	Cod.	COD. P.
50	F0.50.12.15 ●	B 1220

● confezioni da 10 pezzi





Fresa rasante
Fraise d'arusement
Fresa para enderezar
Shaving cutters
Schabefräser

CI 624



I Fresa per l'esecuzione della battuta di riferimento. Fresa rasante da accoppiare alle pialle. Coltelli in HW (HM) reversibili standard. Diametro Ø125 per pialle Ø100. Diametro Ø150 per pialle Ø125. La forma particolare del Z = 3 ne consente il montaggio su tutti i tipi di scorniciatrice.

F Fraise pour effectuer la feillure de support du bois. Fraise d'arusement accrochables aux raboteuses. Couteaux en HW (HM) réversibles standard. Diamètre Ø125, pour raboteuses Ø100. Diamètre Ø150, pour raboteuses Ø125. La forme particulière de la version Z = 3 permet le montage sur toute type de moulurière.

E Fresa para hacer un galce de apoyo en la madera. Fresa a combinar con las cepilladoras. Cuchillas reversibles estándar en HW (HM). Diámetro Ø125, para cepilladoras Ø100. Diámetro Ø150, para cepilladoras Ø125. Por su forma, el modelo Z = 3 se puede montar en cualquier máquina moldadora.

UK Cutters to make supporting rabbet on wood. Cutters for combination with planing units. Reversible, standard HW (HM) knives. Diameter Ø125, for planing units Ø100. Diameter Ø150, for planing units Ø125. Thanks the particular form of the Z = 3 model, this tool can be assembled in every moulding machines.

D Fräser zur Ausführung des Auflageanschlags auf dem Holz. Kombiniierbar mit Hobelmaschinen. Umkehrbare HW (HM)- Standardmesser. Durchmesser Ø125, für Hobelmaschinen Ø100. Durchmesser Ø150, für Hobelmaschinen Ø125. Dank seiner speziellen Form kann das Modell Z = 3 auf jeder Nuthobelmaschine montiert werden.

ØD	B	Ø d	Z	V	CODICE	COD. P.
125	12	30/35	3	3	CI624.125.3015 ▲	A 546
150	12	40/50	3	3	CI624.150.3015 ▲	A 604

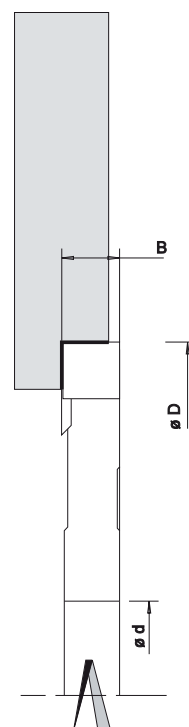
▲ disponibilità immediata con sconto maggiorato

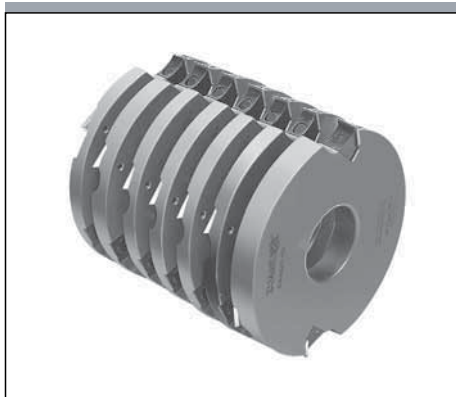
ØD	B	Ø d	Z	V	CODICE	COD. P.
125	12	30/35	4	4	CI624.125.4014	A 546
150	12	40/50	4	4	CI624.150.4014	A 604

Coltelli ricambio

B	Cod.	COD. P.
12x12	F0.12.12.15 ●	B 860
14x14	F3.14.20.10 ●	B 860

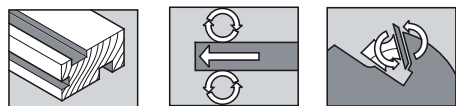
● confezioni da 10 pezzi





Frese per piani scanalati
Fraises pour plans à coulisse
Fresas para planos ranurados
Grooving bed cutterheads
Fräser für genutete Flächen

CI 623



I Utensili per eseguire la sede dei piani scanalati guida su scorniciatrice per una corretta raddrizzatura. I vari spessori (frese + distanziali) disponibili consentono di comporre tutte le combinazioni. Indicare la combinazione desiderata. Per i piani scanalati con battuta di guida è possibile combinarla con l'art. CI624.

F Porte-outils pour effectuer le dressage et le fraisage des rainures de guidage du bois. Plusieurs épaisseurs disponibles (porte-outils + bagues d'écartement) permettent de composer toutes les combinaisons désirées. Préciser la combinaison désirée. La combinaison avec l'art. CI624 est possible.

E Herramientas para hacer los planos ranurados con una moldadora. Los espesores diferentes (fresas + anillos distanciadores) permiten todas las combinaciones. Especificar la combinación deseada. Posibilidad de combinarlas con CI624.

UK To straighten correctly the twisted wood pieces it is necessary to pre-plane by means of grooving beds, which make possible perfect machining of wood during this important cycle of operations. The different thicknesses (tools+spacer rings) make all combinations possible. Please specify the combination. Possible combination with CI624.

D Zur Ausführung der genuteten Flächen auf Kehlmaschinen mit genuteter Führungsfläche. Die verschiedenen Stärken (Fräser + Ringe) gestatten jede mögliche Kombination. Bitte, die erwünschte Kombination angeben. Mögliche Kombination mit CI624

ØD	B	d	z	v	Cod.	COD. P.
125	30	40	2	2	CI623.125.2005	A 508
125	20	40	2	2	CI623.125.2000	A 432
125	17	40	2	2	CI623.125.2001	A 404
125	12	40	2	2+2	CI623.125.2002	A 448
125	10	40	2	2+2	CI623.125.2003	A 428
125	9	40	2	2+2	CI623.125.2004	A 420

ØD	B	d	z	v	Cod.	COD. P.
125	30	40	4	2	CI623.125.4005	A 764
125	20	40	4	2	CI623.125.4000	A 672
125	17	40	4	2	CI623.125.4001	A 632
125	12	40	4	2+2	CI623.125.4002	A 566
125	10	40	4	2+2	CI623.125.4003	A 542
125	9	40	4	2+2	CI623.125.4004	A 530

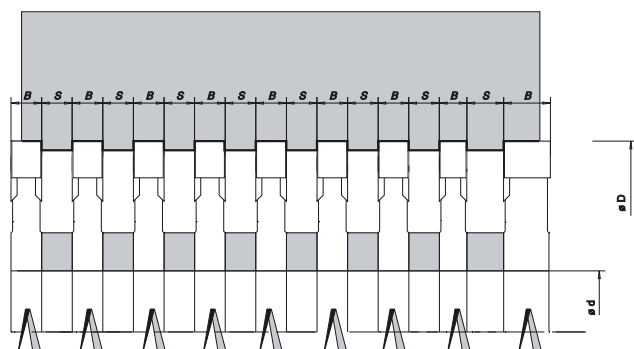
Distanziali

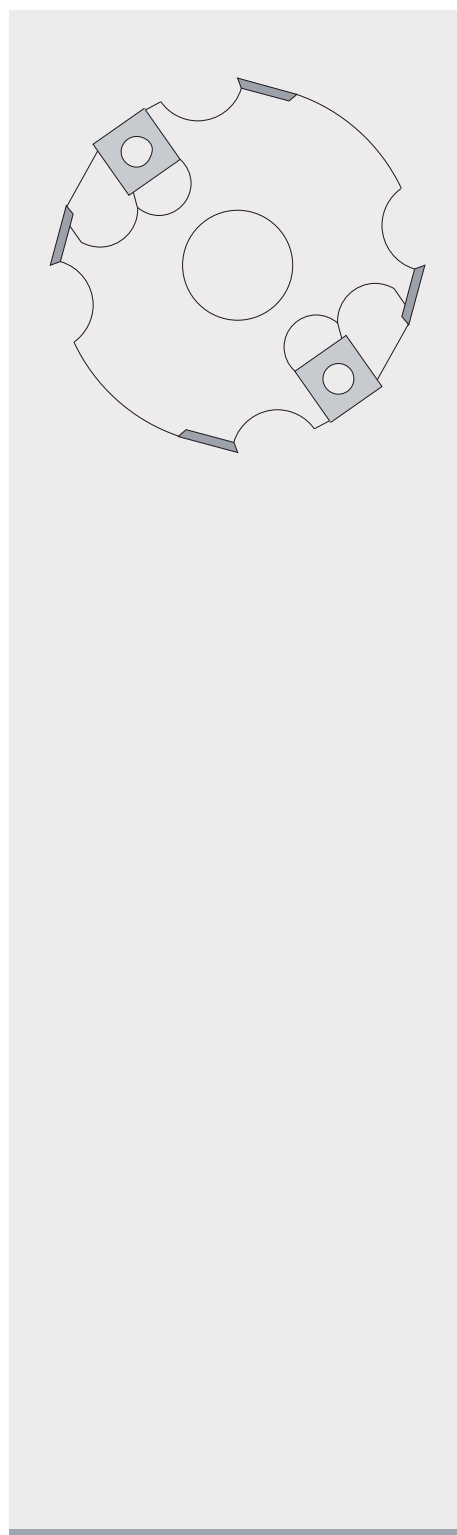
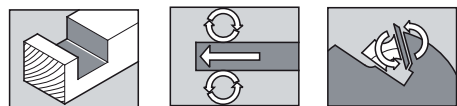
S	d	Cod.	COD. P.
9	40	G20.40.65.090	B 244
10	40	G20.40.65.100	B 258
12	40	G20.40.65.120	B 324

Coltelli di ricambio

B	Cod.	COD. P.
20	F0.20.12.15 ●	B 800
17	F0.15.12.15 ●	B 940
12	F0.114.12.15	B 172
10	F0.95.12.15	B 172
9	F0.75.12.15 ●	B 860
incisore	F3.14.20.10 ●	B 860

● confezione da 10 pezzi





Teste per tenonatrici manuali
Porte-outils pour machines à tenonner
manuelles
Cabezales para espigadora manual
Cutterheads for manual tenoning-machine
Messerköpfe für Handverzapfmaschine

CT 020



I Teste a taglio frazionato tangenziale. La disposizione frazionata dei coltelli riduce la rumorosità e lo sforzo di taglio. Coltelli in HW (HM) reversibili standard da 14x14 mm. Corpo in acciaio.

F Porte-outils avec coupe fractionnée tangentielle. La coupe fractionnée des couteaux réduit le bruit et l'effort de coupe. Couteaux réversibles standard en HW (HM) 14x14 mm. Corps en acier.

E Cabezales a corte fraccionado tangencial. El corte fraccionado reduce el ruido y el esfuerzo de corte. Cuchillas reversibles estándar en HW (HM) 14x14 mm. Cuerpo en acero.

UK Cutterheads with staggered tangential knives. The staggered knives reduce the noise and the cut effort. HW (HM) standard reversible knives 14x14mm. Steel tool.

D Messerköpfe mit verlagerten, Tangentialmessern. Die verlagerten Messer setzen die Geräusche und die Schnittanstrengung Herab. Umkehrende Standardmesser aus HW (HM) 14x14 mm. Stahl-Körper.

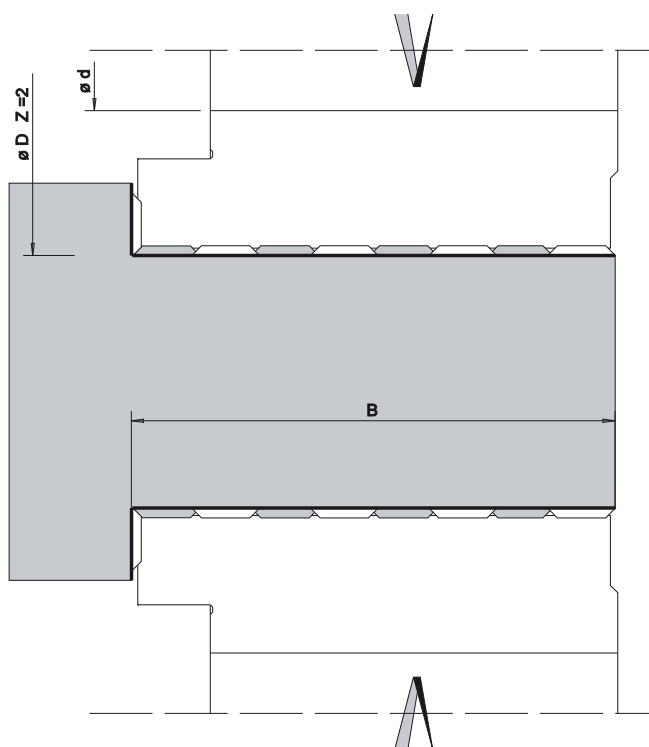
ØD	H	Ø d	Z	V	N° ins.	CODICE Dx	COD. P.
85	100	25	2+2	2	16	CT020.085.2100	A 1316
125	130	25	3+3	3	30	CT020.125.3130	A 2136
125	150	25	3+3	3	36	CT020.125.3150	A 2506

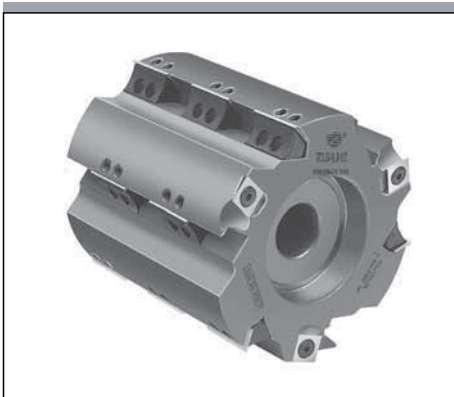
ØD	H	Ø d	Z	V	N° ins.	CODICE Sx	COD. P.
85	100	25	2+2	2	16	CT020.085.2101	A 1316
125	130	25	3+3	3	30	CT020.125.3131	A 2136
125	150	25	3+3	3	36	CT020.125.3151	A 2506

Coltelli ricambio

B	Cod.	COD. P.
14x14	F3.14.20.10 ●	B 860

● confezioni da 10 pezzi

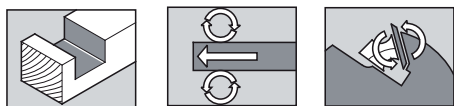




Teste per tenonatrici manuali Porte-outils pour machines à tenonner manuelles

Cabezales para espigadora manual Cutterheads for manual tenoning-machine Messerköpfe für Handverzapfmaschine

CT 620



I Teste a taglio frazionato. La disposizione frazionata dei coltelli riduce la rumorosità e lo sforzo di taglio. Coltelli in HW (HM) reversibili standard da 30 mm. Corpo in acciaio.

F Porte-outils avec coupe fractionnée. La coupe fractionnée des couteaux réduit le bruit et l'effort de coupe. Couteaux standard réversibles en HW (HM) 30 mm. Corps en acier.

E Cabezales a corte fraccionado. El corte fraccionado reduce el ruido y el esfuerzo de corte. Cuchillas reversibles estándar en HW (HM) 30 mm. Cuerpo en acero.

UK Cutterheads with staggered knives. The staggered knives reduce the noise and the cut effort. HW (HM) standard reversible knives 30 mm. Steel tool.

D Messerköpfe mit verlagerten Messern. Die verlagerten Messer setzen die Geräusche und die Schnittanstrengung herab. Umkehrende Standardmesser aus HW (HM) 30 mm. Stahl - Körper.

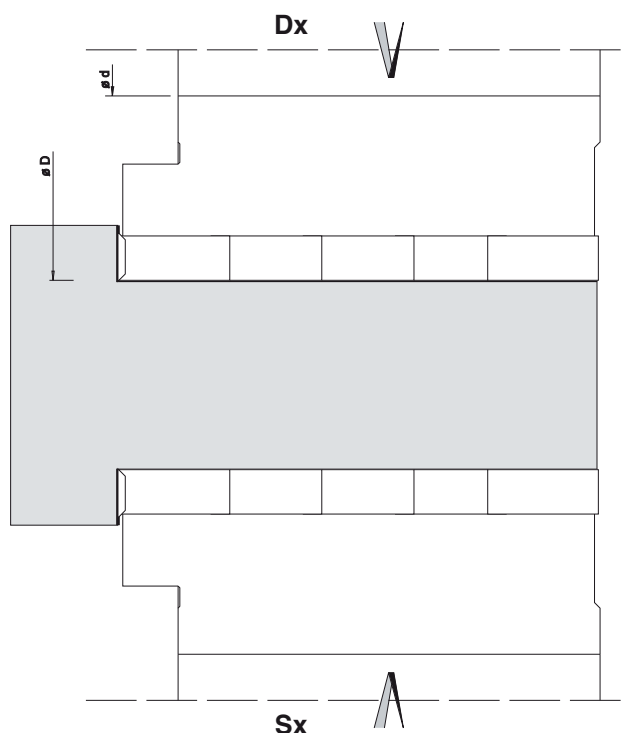
ØD	H	Ø d	Z	V	N° ins.	CODICE Dx	COD. P.
125	130	25	3+3	3	15	CT620.125.3130	A 1764
125	150	25	3+3	3	18	CT620.125.3150	A 2034

ØD	H	Ø d	Z	V	N° ins.	CODICE Sx	COD. P.
125	130	25	3+3	3	15	CT620.125.3131	A 1764
125	150	25	3+3	3	18	CT620.125.3151	A 2034

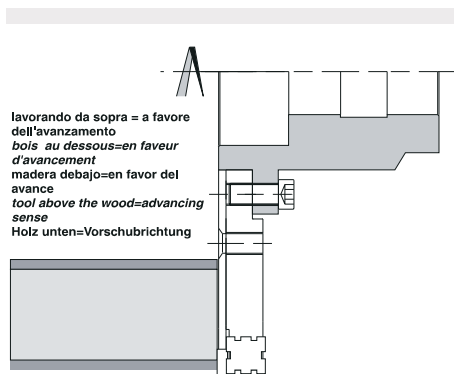
Coltelli ricambio Bx12x1,5

B	Cod.	COD. P.
30	F0.30.12.15 ●	B 880
14x14	F3.14.20.10 ●	B 860

● confezioni da 10 pezzi

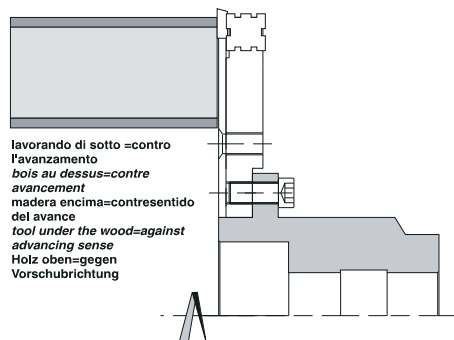


Trucioloatore componibile *Déchiqueteur par éléments* Triturador componible *Sectional trimming hogger* Zusammenstellbarer Zerspaner



lavorando da sopra = a favore
 dell'avanzamento
*bois au dessous=en faveur
 d'avancement*
 madera debajo=en favor del
 avance
*tool above the wood=advancing
 sense*
 Holz unten=Vorschubrichtung

Guardando in senso d'avanzamento / *vue du sens d'avancement* / sentido
 del avance / *advancing senso* / Vorschub-Richtung



lavorando di sotto =contro
 l'avanzamento
*bois au dessus=contre
 avancement*
 madera encima=contresentido
 del avance
*tool under the wood=against
 advancing sense*
 Holz oben=gegen
 Vorschubrichtung

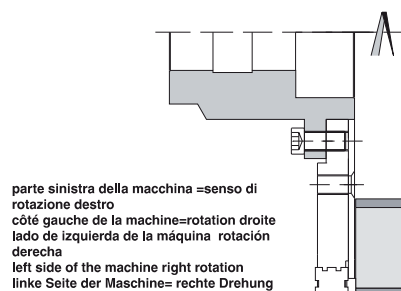
I I trucioloatori sono montati su un mozzo speciale, in modo che il dado di fissaggio sia posto all'interno della lama intestatrice. Il mozzo di assemblaggio di solito è fornito con la macchina ed è previsto per contenere solamente il trucioloatore base. Qualora si volesse impiegare anche il settore supplementare è necessario acquistare anche il mozzo speciale.

F Les déchiqueteurs sont montés sur un manchon spécial pour permettre que l'écrou de fixation se trouve à l'intérieur de la lame. Le manchon d'assemblage est fourni normalement avec la machine et il peut contenir seulement le déchiqueteur de base. Pour utiliser aussi la fraise supplémentaire il faudra commander aussi le manchon spécial.

E Los trituradores se montan en un manguito especial para que la tuerca de fijación quede en el interior de la sierra. El buje suele encontrarse en la máquina y puede contener solo el triturador de base. Para utilizar la fresa suplementaria pidan también el manguito especial.

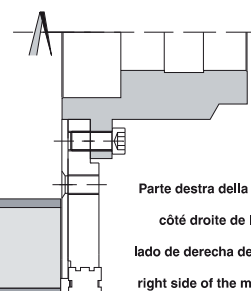
UK The trimming hogs are assembled on a special mounting sleeve, so that the fixing nut is situated inside of the trimming saw blade. The sleeve is sold with the machine and it can contain only the basis trimming hogger. To use the hogger segment, it is necessary to buy the special mounting sleeve.

D Die Zerspaner werden auf einer Sonderbüchse befestigt, so daß die Nachstellmutter sich im Inneren der Kreissäge befindet. Die Büchse wird mit der Maschine verkauft und genügt nur für den Basis-Zerspaner. Für das Zusatzelement muß man die Sonderbüchse kaufen.



parte sinistra della macchina =senso di
 rotazione destro
côté gauche de la machine=rotation droite
 lado de izquierda de la máquina rotación
 derecha
left side of the machine right rotation
 linke Seite der Maschine= rechte Drehung

Guardando in senso d'avanzamento
vue du sens d'avancement
 sentido del avance
advancing senso
 Vorschub-Richtung

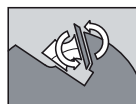
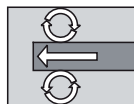
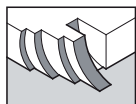


Parte destra della macchina = senso di
 rotazione sinistro
*côté droite de la machine = rotation
 gauche*
 lado de derecha de la máquina rotación
 izquierda
right side of the machine = left rotation



Truciolatore base
Déchiqueteur de base
Triturador de base
Segmented trimming hogger
Basis-Zerspaner

CL 025



I Truciolatore ad inserti reversibili per squadatrici completo di lama. La larghezza di taglio può essere aumentata con elementi aggiuntivi. Mozzo speciale a richiesta.

F Déchiqueteur avec plaquettes réversibles pour moulurières et scie. La largeur de coupe peut être augmentée par des éléments additionnels. Manchon particulier sur demande.

E Triturador con plaquitas reversibles y sierra para moldureros. La anchura de corte puede ser aumentada con otros elementos más. Manguito especial bajo pedido.

UK Segmented trimming hogger with reversible cutters for moulding machine. The cut width can be increased by additional elements. Special sleeve on request.

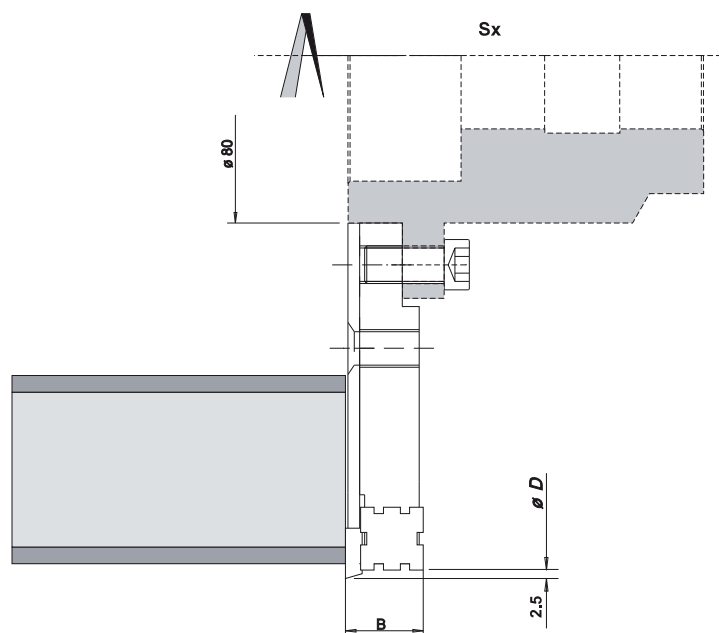
D Zerspaner mit umkehrbaren Platten für Kehlmaschinen. Die Schnittbreite kann man durch zusätzliche Elemente erweitern. Sonderbüchse auf Wunsch.

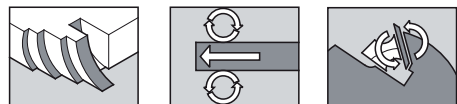
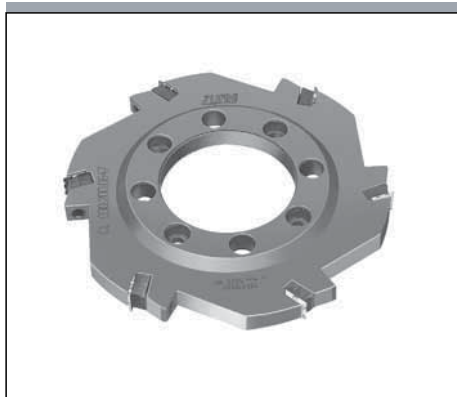
D	B	d	Z	Z	Cod. Dx	Cod. Sx	COD. P.
200	18	80	48	6	CL025.200.1835	CL025.200.1836	A 1630
200	18	80	60	6	CL025.200.1837	CL025.200.1838	A 1688
250	18	80	60	8	CL025.250.1839	CL025.250.1840	A 2030
250	18	80	80	8	CL025.250.1841	CL025.250.1842	A 2052
295	18	80	48	12	CL025.300.1843	CL025.300.1844	A 2558
295	18	80	72	12	CL025.300.1845	CL025.300.1846	A 2658

Coltelli ricambio

B	Cod.	COD. P.
15x15	F0.15.15.20 ●	B 2500

● confezione da 10 pezzi





Settore supplementare
Fraise supplémentaire
Fresa suplementaria
Hogger segment
Zusatzelement

CL 030



I Elemento aggiuntivo per aumentare la larghezza di taglio del truciolatore CL025. Ogni elemento aumenta di 15 mm la larghezza del truciolatore.

F Fraise supplémentaire pour augmenter la largeur de coupe du déchiqueteur CL025. Chaque fraise augmente la largeur du déchiqueteur de 15 mm.

E Fresa suplementaria para aumentar la anchura de corte del triturador CL025. Cada fresa aumenta la anchura del triturador de 15 mm.

UK Supplementary tool which increases the cut width of the trimming hogger. Every tool increases the cut width of the trimming hogger on 15 mm.

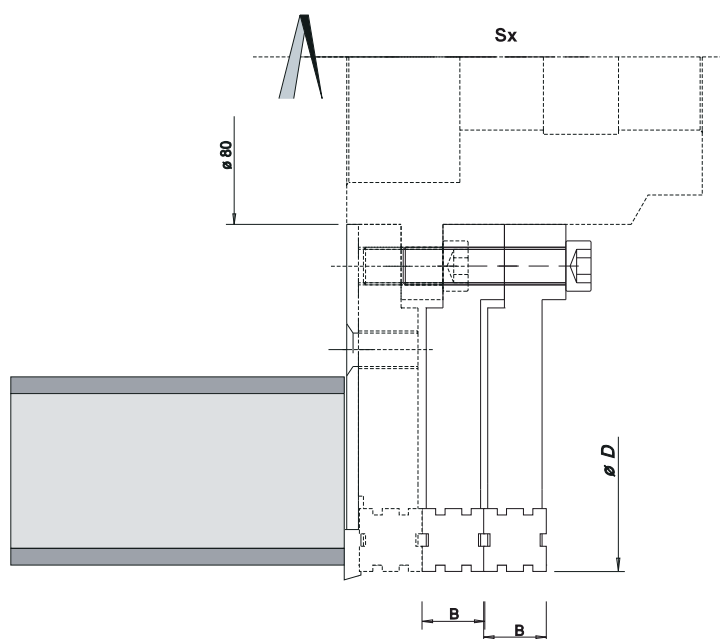
D Zusatzelement zur Erweiterung der Schnittbreite des Zerspaners. Jedes Element erweitert die Schnittbreite des Zerspaners um 15 mm.

D	B	d	Z	Cod. Dx	Cod. Sx	COD. P.
200	15	80	6	CL030.200.0647	CL030.200.0648	A 1122
250	15	80	8	CL030.250.0849	CL030.250.0850	A 1404
295	15	80	12	CL030.300.1251	CL030.300.1252	A 2048

Coltelli di ricambio

B	Cod.	COD. P.
15x15	F0.15.15.20 ●	B 2500

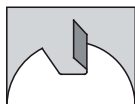
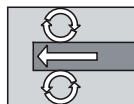
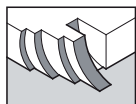
● confezione da 10 pezzi





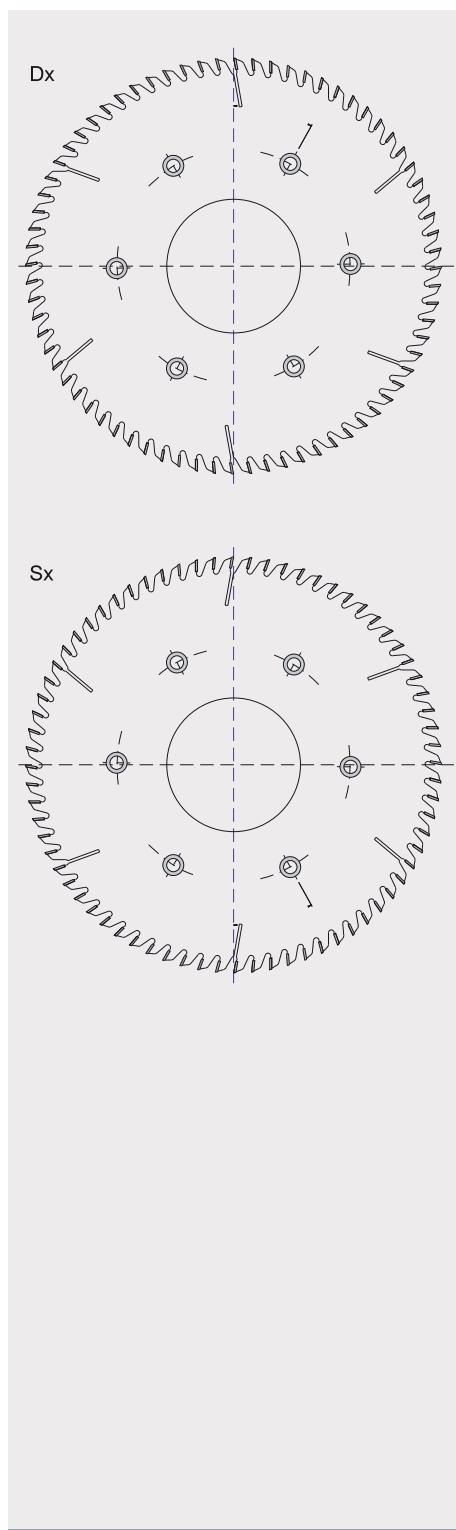
Lama per truciolatori
Lame pour déchiqueteur
Sierra para triturador
Trimming saw blades
Kreissäge für Zerspaner

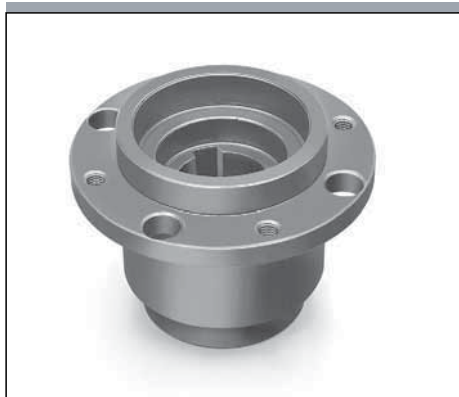
CL 035



- I** Lama per truciolatore CL025. Scegliere correttamente la rotazione.
- F** Lame pour déchiqueteur CL025. Indiquer la rotation choisie.
- E** Sierra para triturador CL025. Señalar la rotación deseada.
- UK** Trimming saw blades for CL025. Please specify the senso of rotation.
- D** Kreissäge für Zerspaner CL025. Bitte, Drehrichtung angeben.

D	B	d	Z	Cod. Dx	Cod. Sx	COD. P.
205	4	80	48	CL035.205.4840	CL035.205.4841	A 328
205	4	80	60	CL035.205.6040	CL035.205.6041	A 384
255	4	80	60	CL035.250.5440	CL035.250.5441	A 444
255	4	80	80	CL035.250.8040	CL035.250.8041	A 464
300	4	80	48	CL035.300.4840	CL035.300.4841	A 400
300	4	80	72	CL035.300.7240	CL035.300.7241	A 494





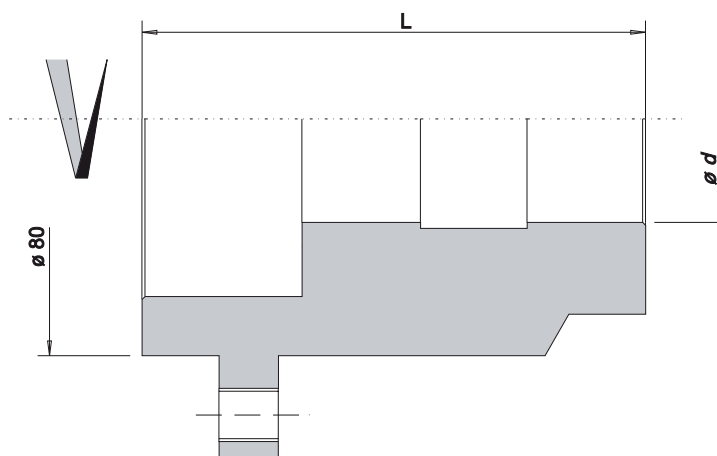
Mozzo di assemblaggio
Manchon d'assemblage
Manguito para triturador
Special mounting sleeve
Büchse

G 15



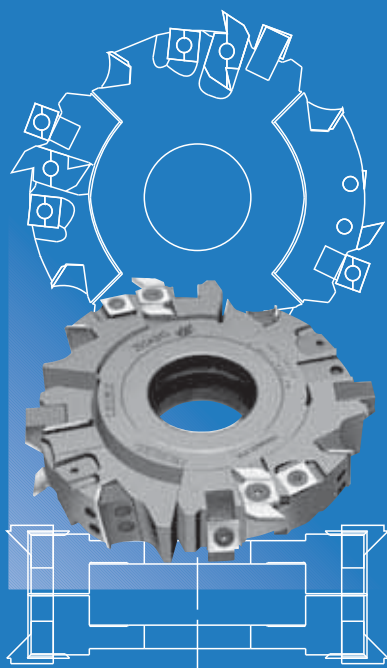
- I Mozzo speciale per truciolatori CL025 e CL030.
- F Manchon d'assemblage pour déchiqueteur CL025 et CL030.
- E Buje para trituradores CL025 y CL030.
- UK Special mounting sleeve for segmented trimming hogger CL025 and CL030.
- D Büchse für CL025 und CL030 Zerspaner.

L mm	d mm	DKN	Cod.	COD. P.
80	30	8x4	G15.30.80.010	A 460
75	35	10x4	G15.35.80.011	A 460
85	35	—	G15.35.80.012	A 460
85	35	10x4	G15.35.80.013	A 460
100	35	10x4	G15.35.80.014	A 460
100	40	12x4	G15.40.80.015	A 460





Frese per incastri e battute **Porte-outils à rainier et à feuillurer** **Cabezales para ranuras y galces** **Grooving and rebating tools** **Nut- und Falzwerkzeuge**



Fresa per incastri sottili a spessore variabile Fraises pour rainures minces extensibles Fresas para ranuras finas extensibles Adjustable grooving cutter for thin thicknesses Verstellbarer Nutfräser für dünne Stärken	B 9801 3-2
Elemento aggiuntivo per B98 Élément supplémentaire pour B98 Elemento adjunto para B98 Additional tool for B98 Zusatzelement für B98	CI 636 3-3
Fresa per incastri a spessore variabile Fraises à rainures extensibles Fresas para ranurar extensibles Adjustable grooving cutter Verstellbarer Nutfräser	B 9829 3-4
Elemento aggiuntivo per B98 Élément supplémentaire pour B98 Elemento adjunto para B98 Additional tool for B98 Zusatzelement für B98	CI 636 3-5
Frese per incastri CI020 Fraises à rainier CI020 Fresas para ranurar CI020 Grooving cutterheads CI020 CI020 Nutfräser	CI 020 3-6
Frese per incastri CI620 Fraises à rainier CI620 Fresas para ranurar CI620 Grooving cutterheads CI620 CI620-Nutfräser	CI 620 3-7
Fresa per incastri "Lamello" Fraise à rainier "Lamello" Fresa para ranurar "Lamello" Grooving cutterhead for "Lamello" Nutfräser "Lamello"	CI 021 3-8
Frese prismatiche "Folding System" Fraises prismatiques "Folding System" Fresas prismáticas "Folding System" V-grooving cutterhead "Folding System" Prismenfräser "Folding System"	CI 840 3-9
Frese per battute Fraises à feuillurer Fresas para galces Rebating cutterhead Falzfräser	CB 641 3-10
Frese per battute Fraises à feuillurer Fresas para galces Rebating cutterhead Falzfräser	CB 641 3-11
Frese per contornare Fraises à calibrer Fresas para contornear Jointing and rebating cutterhead Fügefräser	B 5402 3-12



Fresa per incastri sottili a spessore variabile

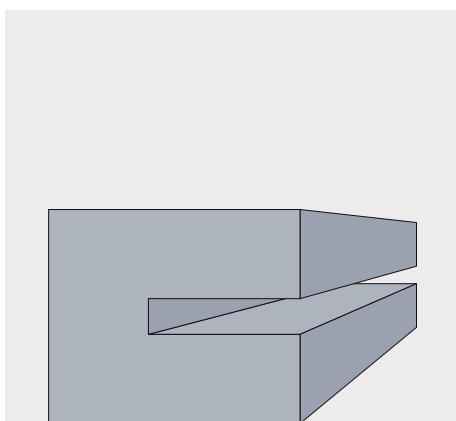
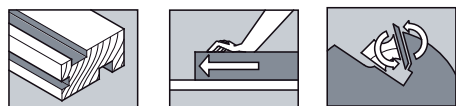
Fraises pour rainures minces extensibles

Fresas para ranuras finas extensibles

Adjustable grooving cutter for thin thicknesses

Verstellbarer Nutfräser für dünne Stärken

B 9801



I Gruppo frese per eseguire incastri sottili di larghezza variabile. Corpo in acciaio, inserti standard. Viene fornito completo di anelli di registrazione.

F Jeu de fraises pour exécuter des rainures minces de largeur variable. Corps en acier, plaquettes standard. Il est fourni avec bagues d'écartement.

E Juego de fresas para ranuras finas de ancho variable. Cuerpo en acero, cuchillas estándar. Con anillos intermedios.

UK Adjustable grooving cutter for thin thicknesses. Steel tool with standard knives. It is supplied with spacer rings.

D Verstellbarer Nutfräser für dünne Stärken. Stahl-Ausführung mit Standardmessern. Er wird mit Distanzringen geliefert.

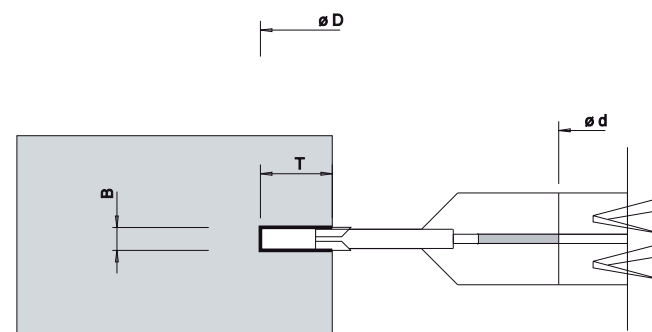
Ø D	B	Ø d max	Z	V	T	CODICE	COD. P.
130	4-7.5	40	4	2+2	22	B9801.130D4	A 850
	5-9.5	40	4	2+2	22	B9845.130D4	A 870
160	4-7.5	40	8	2+2	30	B9802.160D8 ▲	A 1040
	5-9.5	40	8	2+2	30	B9843.160D8 ▲	A 1060
180	4-7.5	40	8	2+2	40	B9803.180D8	A 1308
	5-9.5	40	8	2+2	40	B9846.180D8	A 1328

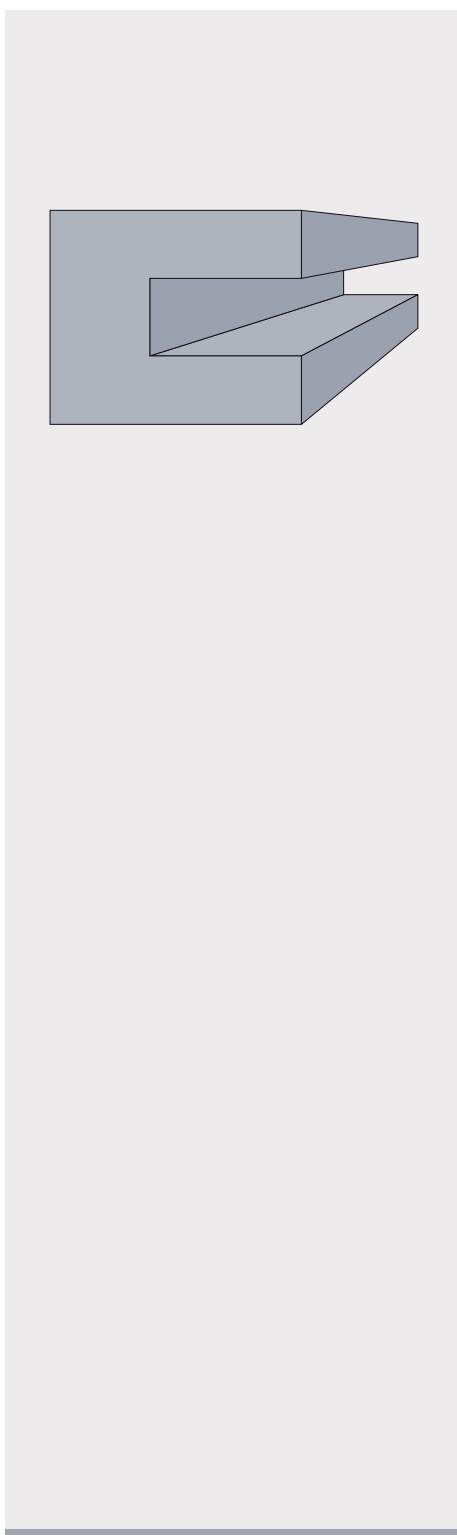
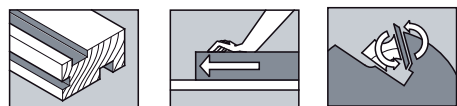
▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
4	F0.18.18.19 ●	B 2600
5	F0.18.18.25 ●	B 3240
14x14	F3.14.12.10 ●	B 1134

● confezione da 10 pezzi





Elemento aggiuntivo per B98
Élément supplémentaire pour B98
Elemento adjunto para B98
Zusatzelement für B98

CI 636



I Elemento aggiuntivo per aumentare il campo di registrazione. Spessore 8 mm. Corpo in acciaio inserti standard.

F Element supplémentaire pour augmenter la gamme de réglage. Epaisseur 8 mm. Corps en acier, plaquettes standard.

E Elemento suplementario para aumentar la extension. Espesor 8 mm. Cuerpo en acero, cuchillas estandar.

UK Additional tool to increase the adjustment. Thickness 8 mm. Steel tool, standard knives.

D Zusatzelement zur Vergrößerung der Verstellbarkeit. Stärke 8 mm. Stahl-Ausführung mit Standardmessern.

Componente aggiuntivo

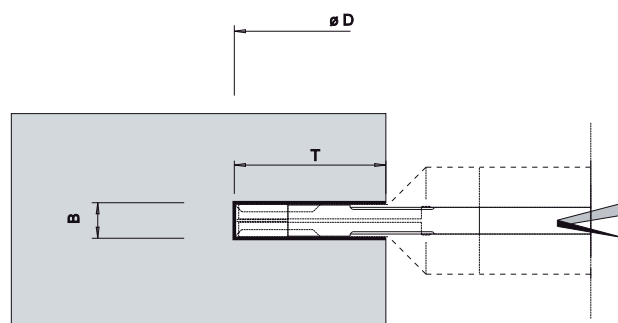
Ø D	B	Ø d max	Z	CODICE	COD. P.
130	8	40	2	CI636.130.2008	A 382
160	8	40	2	CI636.160.2008 ▲	A 400
180	8	40	2	CI636.180.2008	A 426

▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
8	F0.75.12.15 ●	B 860

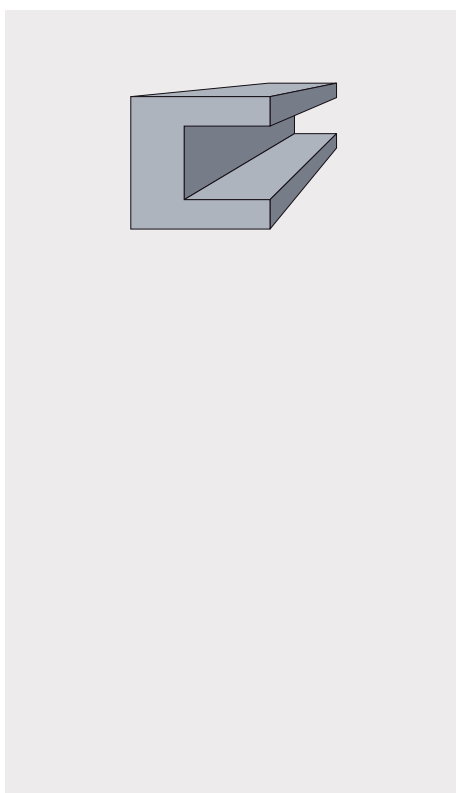
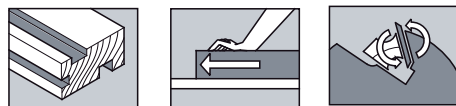
● confezione da 10 pezzi





Fresa per incastri a spessore variabile
Fraises à rainures extensibles
Fresas para ranurar extensibles
Adjustable grooving cutter
Verstellbarer Nutfräser

B 9829



I Gruppo frese per eseguire incastri di larghezza variabile. Corpo in acciaio, inserti standard. Viene fornito completo di anelli di registrazione.

F Jeu de fraises pour exécuter des rainures de largeur variable. Corps en acier, plaquettes standard. Il est fourni avec bagues d'écartement.

E Juego de fresas para ranuras de ancho variable. Cuerpo en acero, cuchillas estándar. Con anillos intermedios.

UK It is made up of two parts for adjustable thin. Steel tool with standard knives. It is supplied with spacer rings.

D Nutfräserkombination für verschiedene Breiten. Stahl-Ausführung mit Standardmessern. Er wird mit Distanzringen geliefert.

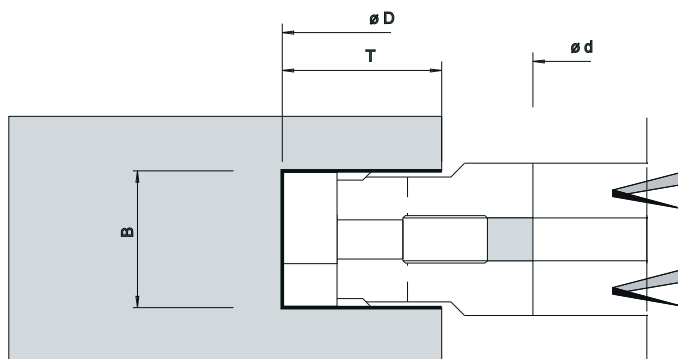
Ø D	B	Ø d max	Z	V	T	CODICE	COD. P.
160	8-15	50	2+2	2+2	35	B9829.160C4 ▲	A 702
	12.6-24	50	2+2	2+2	35	B9830.160C4 ▲	A 716
	15.6-30	50	2+2	2+2	35	B9844.160C4 ▲	A 932
	20.6-40	50	2+2	2+2	35	B9831.160C4 ▲	A 782
	30.6-60	50	2+2	2+2	35	B9832.160C4 ▲	A 878
180	8-15	50	2+2	2+2	45	B9829.180C4	A 874
	12.6-24	50	2+2	2+2	45	B9830.180C4	A 958
	15.6-30	50	2+2	2+2	45	B9844.180C4	A 1012
	20.6-40	50	2+2	2+2	45	B9831.180C4	A 1056
	30.6-60	50	2+2	2+2	45	B9832.180C4	A 1186
200	8-15	50	3+3	3+3	50	B9829.200C6	A 1434
	12.6-24	50	3+3	3+3	50	B9830.200C6	A 1538
	15.6-30	50	3+3	3+3	50	B9844.200C6	A 1592
	20.6-40	50	3+3	3+3	50	B9831.200C6	A 1690
250	8-15	50	3+3	3+3	75	B9829.250C6	A 1554
	12.6-24	50	3+3	3+3	75	B9830.250C6	A 1654
	15.6-30	50	3+3	3+3	75	B9844.250C6	A 1708
	20.6-40	50	3+3	3+3	75	B9831.250C6	A 1806

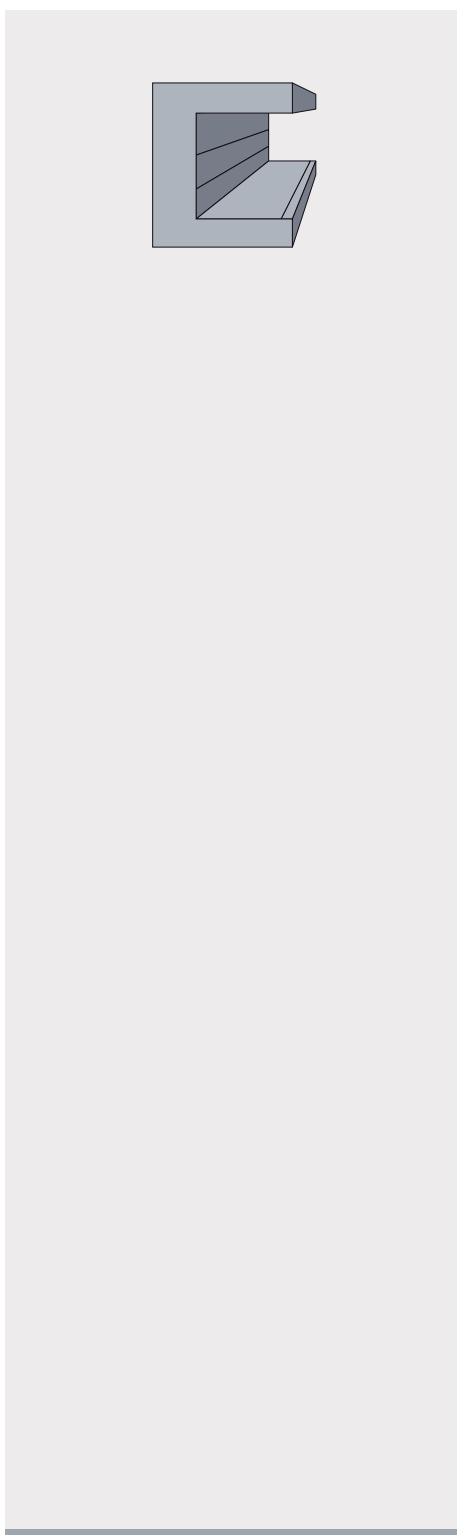
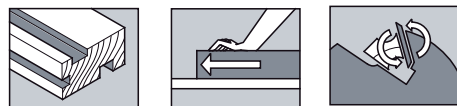
▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
8	F0.75.12.15 ●	B 860
12	F0.12.12.15 ●	B 860
15	F0.15.12.15 ●	B 940
20	F0.20.12.15 ●	B 800
30	F0.30.12.15 ●	B 880
14x14	F3.14.20.10 ●	B 860

● confezione da 10 pezzi





Elemento aggiuntivo per B98
Élément supplémentaire pour B98
Elemento adjunto para B98
Zusatzelement für B98

CI 636



I Elemento aggiuntivo per aumentare il campo di registrazione. Spessore 8mm e 12 mm. Corpo in acciaio inserti standard.

F Élément supplémentaire pour augmenter la gamme de réglage. Épaisseur 8mm et 12mm. Corps en acier, plaquettes standard.

E Elemento suplementario para acrecer la extensión. Espesor 8mm y 12mm. Cuerpo en acero, cuchillas standard.

UK Additional tool to increase the adjustment. Thickness 8mm and 12mm. Steel tool, standard knives.

D Zusatzelement zur Vergrößerung der Verstellbarkeit. Stärke 8mm und 12mm. Stahl-Ausführung mit Standardmessern.

Componente aggiuntivo

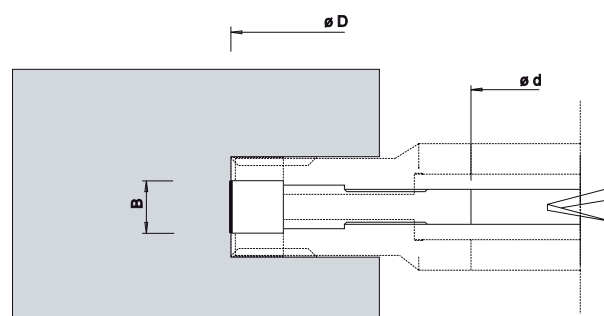
Ø D	B	Ø d max	Z	CODICE	COD. P.
160	8	40	2	CI636.160.2008 ▲	A 400
160	12	50	2	CI636.160.2012	A 426
180	8	40	2	CI636.180.2008	A 426
180	12	50	2	CI636.180.2012	A 454
200	12	50	3	CI636.200.3012	A 732
250	12	50	3	CI636.250.3012	A 892

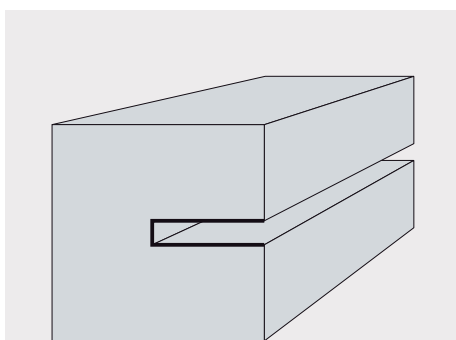
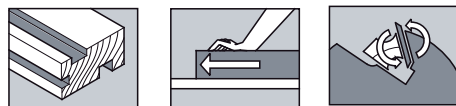
▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
8	F0.75.12.15 ●	B 860
12	F0.12.12.15 ●	B 860

● confezione da 10 pezzi





Frese per incastri CI020
Fraises à rainier CI020
Fresas para ranurar CI020
Grooving cutterheads CI020
CI020 Nutfräser

CI 020



I CI020 frese a spessore sottile. Fori standard 30mm, 35 mm, 40mm, 50mm. Corpo in acciaio, inserti standard.

F CI020 -> fraise avec petit épaisseur. Alésages standard Ø30 mm, Ø35 mm, Ø40 mm et Ø50 mm. Corps en acier, plaquettes standard.

E CI020 -> fresa de poco espesor. Ejes estándar Ø30 mm, Ø35 mm, Ø40 mm y Ø50 mm. Cuerpo en acero, cuchillas estándar.

UK CI020 -> grooving cutterhead with thin thickness. Standard bore Ø30 mm, Ø35 mm, Ø40 mm and Ø50 mm. Steel tool with standard knives.

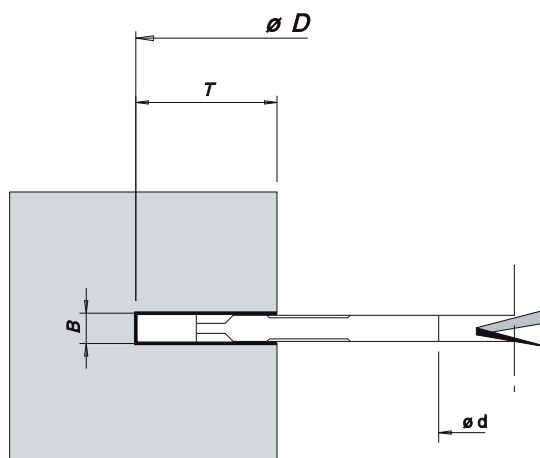
D CI020 -> Nutfräser mit dünner Stärke. Standardbohrung Ø30 mm, Ø35 mm, Ø40 mm und Ø50 mm. Stahlausführung mit Standardmessern.

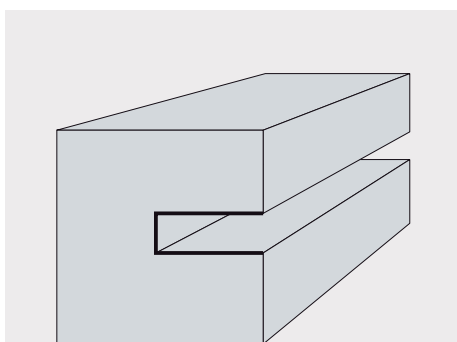
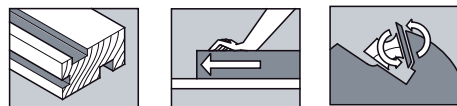
Ø D	B	Ø d max	Z	V	T	CODICE	COD. P.
125	4	40	4	4	22	CI020.125.4004	A 612
	5	40	4	4	22	CI020.125.4005	A 620
	6	40	4	4	22	CI020.125.4006	A 638
150	4	50	4	4	28	CI020.150.4004	A 640
	5	50	4	4	28	CI020.150.4005	A 654
	6	50	4	4	28	CI020.150.4006	A 670
180	4	50	8	4	32	CI020.180.4004	A 1074
	5	50	8	4	32	CI020.180.4005	A 1162
	6	50	8	4	32	CI020.180.4006	A 1180

Coltelli di ricambio

B	Cod.	COD. P.
4	F0.18.18.19 ●	B 2600
5	F0.18.18.25 ●	B 3240
6	F0.18.18.29 ●	B 4380
14x14	F3.14.12.10 ●	B 1134

● confezione da 10 pezzi





Frese per incastri CI620
Fraises à rainier CI620
Fresas para ranurar CI620
Grooving cutterheads CI620
CI620-Nutfräser

CI 620



I CI620 frese a spessore 8 - 10 - 12. Fori standard 30mm, 35 mm, 40 mm, 50 mm . Corpo in acciaio, inserti standard.

F CI620 -> fraise avec épaisseur 8 - 10 - 12. Alésages standard Ø30 mm, Ø35 mm, Ø40 mm et Ø50 mm. Corps en acier, plaquettes standard.

E CI620 -> fresa de espesor 8 - 10 - 12. Ejes estándar Ø30 mm, Ø35 mm, Ø40 mm y Ø50 mm. Cuerpo en acero, cuchillas estándar.

UK CI620 -> grooving cutterhead with thickness 8 - 10 - 12. Standard bore Ø30 mm, Ø35 mm, Ø40 mm and Ø50 mm. Steel tool with standard knives.

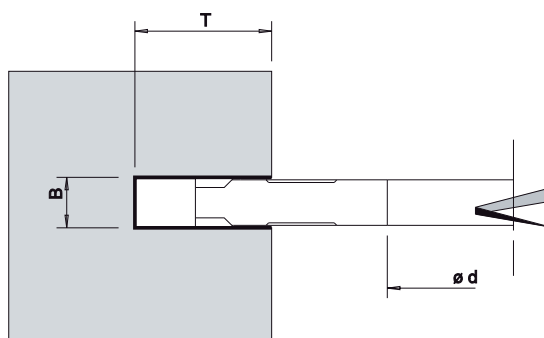
D CI620 -> Nutfräser mit Stärke 8 - 10 12. Standardbohrung Ø30 mm, Ø35 mm, Ø40 mm und Ø50 mm. Stahlausführung mit Standardmessern.

Ø D	B	Ø d max	Z	V	T	CODICE	COD. P.
125	8	40	2	4	28	CI620.125.2008	A 396
	10	40	2	4	28	CI620.125.2010	A 412
	12	40	2	4	28	CI620.125.2012	A 428
125	8	50	4	4	28	CI620.125.4008	A 578
	10	50	4	4	28	CI620.125.4010	A 602
	12	50	4	4	28	CI620.125.4012	A 628
150	8	50	2	4	32	CI620.150.2008	A 404
	10	50	2	4	32	CI620.150.2010	A 428
	12	50	2	4	32	CI620.150.2012	A 450
150	8	50	4	4	32	CI620.150.4008	A 590
	10	50	4	4	32	CI620.150.4010	A 618
	12	50	4	4	32	CI620.150.4012	A 648
180	8	50	2	4	45	CI620.180.2008	A 530
	10	50	2	4	45	CI620.180.2010	A 560
	12	50	2	4	45	CI620.180.2012	A 592
180	8	50	4	4	45	CI620.180.4008	A 780
	10	50	4	4	45	CI620.180.4010	A 812
	12	50	4	4	45	CI620.180.4012	A 850

Coltelli di ricambio

B	Cod.	COD. P.
8	F0.75.12.15 ●	B 860
10	F0.95.12.15	B 172
12	F0.114.12.15	B 172
14x14	F3.14.20.10 ●	B 860

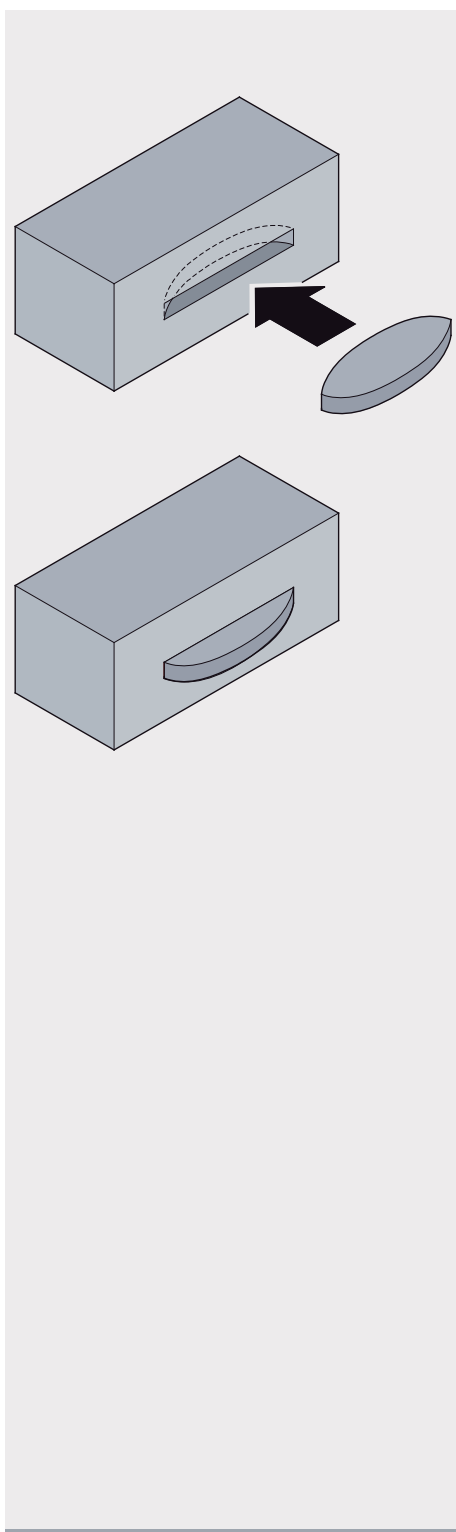
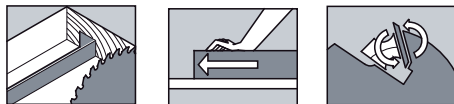
● confezione da 10 pezzi





Fresa per incastri "Lamello"
Fraise à rainier "Lamello"
Fresa para ranurar "Lamello"
Grooving cutterhead for "Lamello"
Nutfräser "Lamello"

CI 021



- I Corpo in acciaio coltelli reversibili standard.
- F Corps en acier, plaquettes réversibles standard.
- E Cuerpo en acero, cuchillas reversibles estándar.
- UK Steel tool with reversible standard knives.
- D Stahl-Fräser mit umkehrenden Standardmessern.

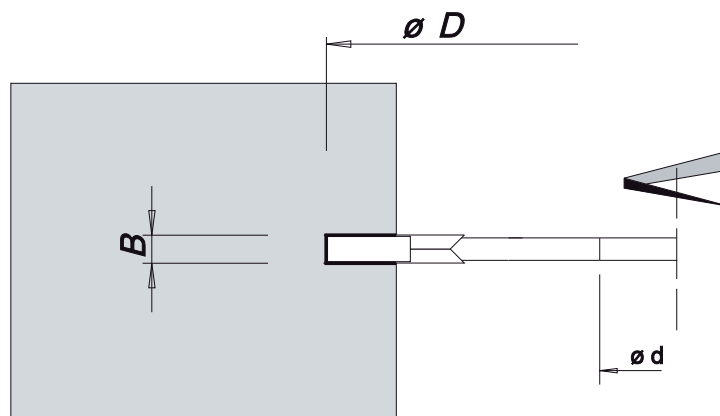
D	B	d	Z	V	Cod.	COD. P.
100	4	22	2	2	CI021.100.2040 ▲	A 370
100	3,9	22	4	4	CI021.100.4039	A 594
100	4	22	4	4	CI021.100.4040 ▲	A 554

▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
18x18	F0.18.18.19 ●	B 260
14x14	F3.14.12.10 ●	B 1134

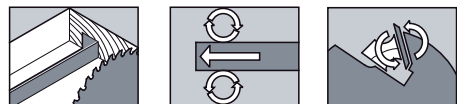
● confezione da 10 pezzi





Frese prismatica "Folding System"
Fraises prismatiques "Folding System"
Fresas prismáticas "Folding System"
V-grooving cutterhead "Folding System"
Prismenfräser "Folding System"

CI 840



I Frese con corpo in acciaio per incisione pannelli. Coltelli standard con autoposizionamento.

F Fraises avec corps en acier pour entailler les panneaux. Plaquettes standard avec centrage automatique.

E Fresas con cuerpo en acero para hacer incisiones en los tableros de madera. Cuchillas estándar con auto posicionamiento.

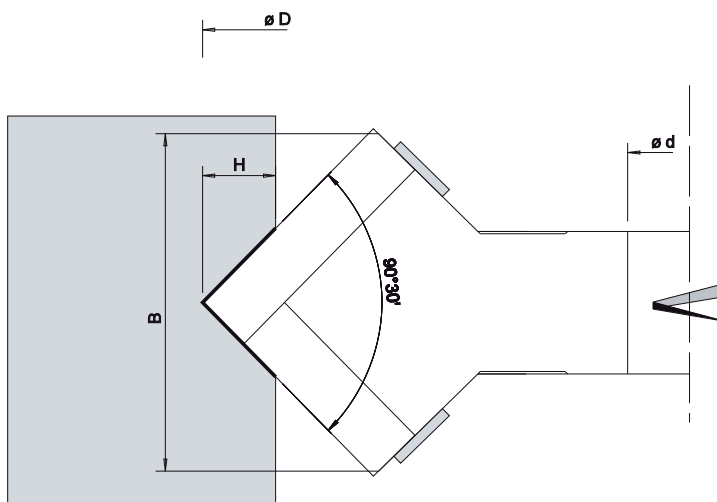
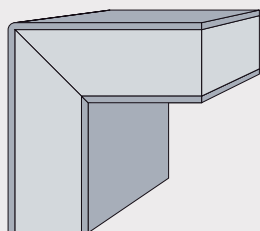
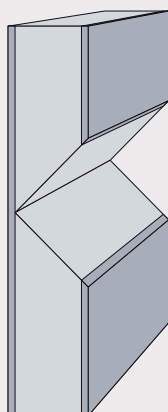
UK Steel tools to cut every wood panel. Standard knives with self-centring.

D Stahl-Ausführung zur Bearbeitung aller Tafeln. Standardmesser mit Selbstzentrierung.

Ø D	B	Ø d max	Z	H	CODICE	COD. P.
200	40	50	2+2	20	CI840.200.2040	A 1612
	40	50	3+3	20	CI840.200.3040	A 2082
200	70	50	2+2	35	CI840.200.2070	A 2178
	70	50	3+3	35	CI840.200.3070	A 2944
220	40	50	2+2	20	CI840.220.2040	A 1672
	40	50	3+3	20	CI840.220.3040	A 2180
220	70	50	2+2	35	CI840.220.2070	A 2184
	70	50	3+3	35	CI840.220.3070	A 3112

Coltelli di ricambio

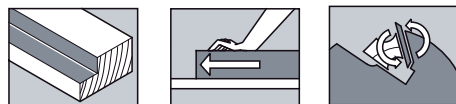
B	Cod.	COD. P.
40	F1.284.05.1	B 180
40	F1.284.05.2	B 180
70	F1.495.05.1	B 244
70	F1.495.05.2	B 244





Frese per battute
Fraises à feuillurer
Fresas para galces
Rebating cutterhead
Falzfräser

CB 641



I Testa porta coltelli per contornare ed eseguire battute. Corpo in acciaio con coltelli standard ad inclinazione assiale alternata.

F Porte-outils pour calibrer et usiner des feuillures. Corps en acier avec plaquettes standard avec inclinaison axiale alternée.

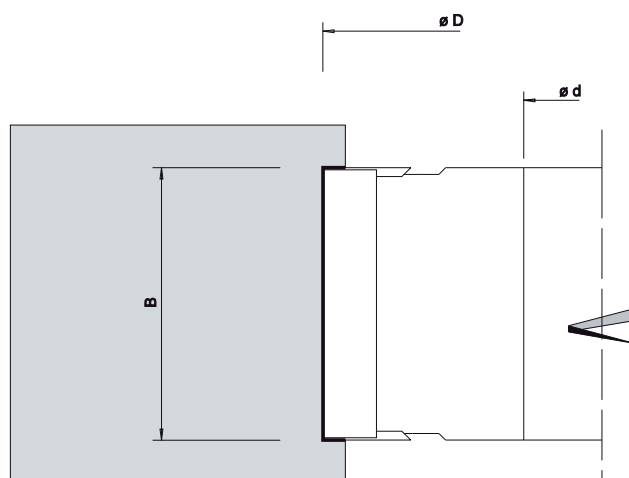
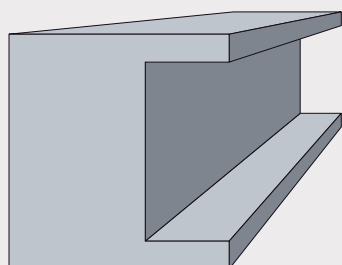
E Cabezal porta-cuchillas para contornear y hacer galces. Cuerpo en acero con cuchillas estándar con inclinación axial alternada.

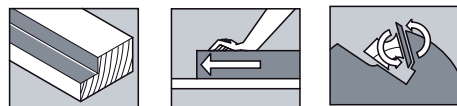
UK Cutterhead for jointing and rebating. Steel tool with alternating axial inclination standard knives.

D Messerkopf für den Einsatz beim Nuten und Fälzen. Stahl-Ausführung; Standardmesser mit wechselnder Achsneigung.

Ø D	B	Ø d max	Z	V	CODICE	COD. P.
100	30	40	2	4	CB641.100.2030	A 338
	50	40	2	4	CB641.100.2050	A 344
100	30	40	4	4	CB641.100.4030	A 502
	50	40	4	4	CB641.100.4050	A 514
125	30	50	2	4	CB641.125.2030 ▲	A 368
	50	50	2	4	CB641.125.2050 ▲	A 384
	60	50	2	4	CB641.125.2060	A 530
	80	50	2	4	CB641.125.2080	A 638
	100	50	2	4	CB641.125.2100	A 748
	120	50	2	4	CB641.125.2120	A 854
125	30	50	4	4	CB641.125.4030 ▲	A 530
	50	50	4	4	CB641.125.4050 ▲	A 554
	60	50	4	4	CB641.125.4060	A 762
	80	50	4	4	CB641.125.4080	A 922

▲ disponibilità immediata con sconto maggiorato





Frese per battute
Fraises à feuillurer
Fresas para galces
Rebating cutterhead
Falzfräser

CB 641

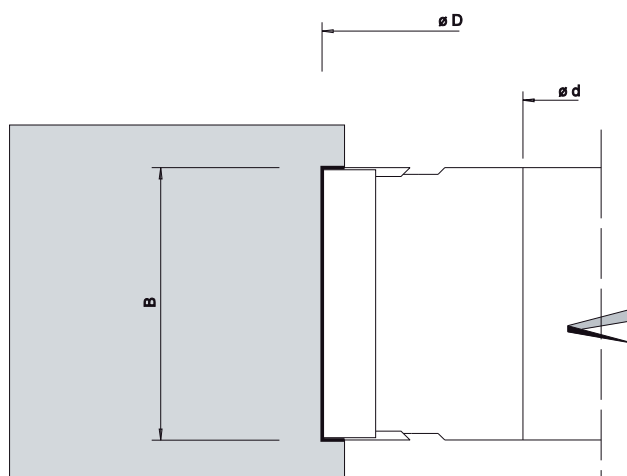
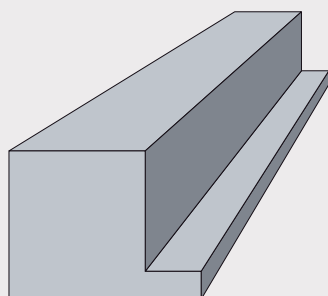


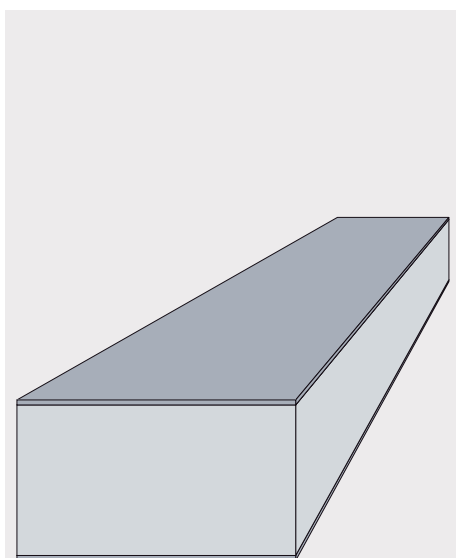
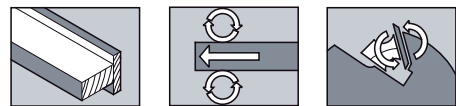
Ø D	B	Ø d max	Z	V	CODICE	COD. P.
150	30	60	2	4	CB641.150.2030	A 378
	50	60	2	4	CB641.150.2050	A 522
150	30	60	4	4	CB641.150.4030	A 560
	50	60	4	4	CB641.150.4050	A 740
	60	60	4	4	CB641.150.4060	A 828
	80	60	4	4	CB641.150.4080	A 1008
	100	60	4	4	CB641.150.4100	A 1180
	120	60	4	4	CB641.150.4120	A 1360
180	30	60	2	4	CB641.180.2030	A 436
	50	60	2	4	CB641.180.2050	A 594
	30	60	4	4	CB641.180.4030	A 600
	50	60	4	4	CB641.180.4050	A 810
	50	60	6	6	CB641.180.6050	A 1078
	50	60	8	8	CB641.180.8050	A 1342

Coltelli di ricambio

B	Cod.	COD. P.
30	F0.30.12.15 ●	B 860
50	F0.50.12.15 ●	B 1220
60	F0.60.12.15 ●	B 2120
80	F0.80.13.22 ●	B 6960
100	F0.10.13.22 ●	B 8520
120	F0.12.13.22 ●	B 9740
14x14	F3.14.20.10 ●	B 860

● confezione da 10 pezzi





Frese per contornare
Fraises à calibrer
Fresas para contornear
Jointing and rebating cutterhead
Fügefräser

B 5402



I Corpo in acciaio con inserti ad alta resistenza per lavorare pannelli con il rivestimento. Ideate con inserti a lunga durata per lavorare legni composti e duri.

F Corps en acier avec plaquettes à haute résistance pour usiner panneaux avec placage sur les deux côtés. Pensées avec plaquettes de longue durée pour usiner bois composés et durs.

E Cuerpo en acero con cuchillas a elevada resistencia para trabajar table-ros de madera. Pensadas con cuchillas de larga duración para trabajar mader-eras compuestas y duras.

UK Steel tool with high durability knives, in order to work covered panels. The duration knives permit to work composed and hard woods long.

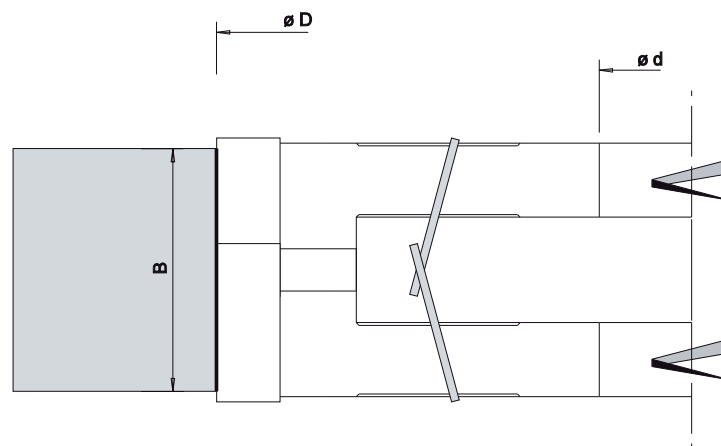
D Stahl-Ausführung mit dauerhaften Messern zur Bearbeitung von ausgelegtenTafeln. Die dauerhaften Messer gestatten die Bearbeitung sowohl des lamellaren als auch des harten Holzes.

Ø D	B	Ø d max	Z	CODICE	COD. P.
180	36	50	3+3	B5401.180T3	A 1434
	56	50	3+3	B5402.180T3	A 1836
200	36	50	3+3	B5401.200T3	A 1464
	56	50	3+3	B5402.200T3	A 1866

Coltelli di ricambio

B	Cod.	COD. P.
36	F0.300M12.15 ●	B 1180
56	F0.500M12.15 ●	B 1590

● confezioni da 10 pezzi





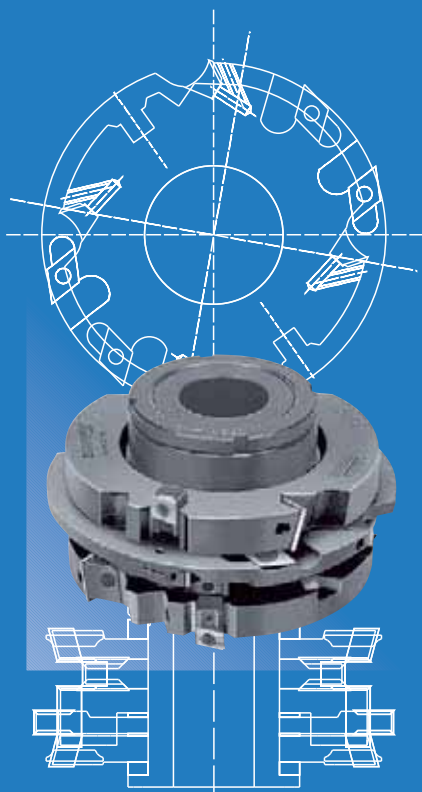
Frese per perline e giunzioni

Fraises pour lambris-parquet et de bouvetage

Cabezales para machambrados y para ensambles

Tongue and grooving tools

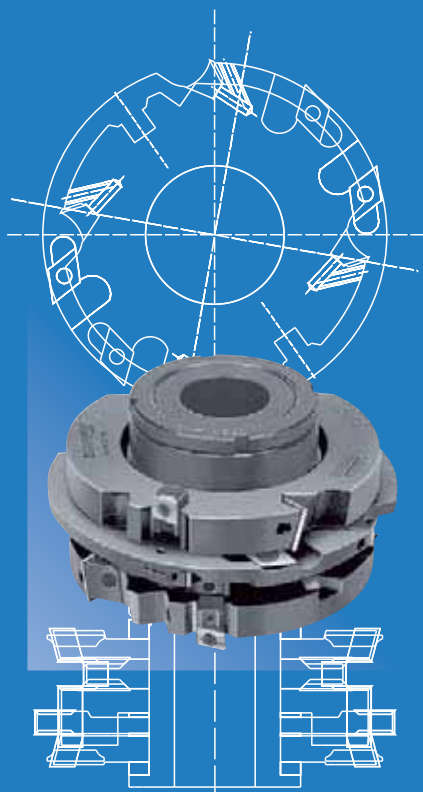
Nut- und Federwerkzeuge



8	Fresa per giunzione di testa registrabile	B 2805
	Fraises extensible pour joints en bout	4-3
	Fresas extensibles para ensambles frontales	
	Adjustable glue joint cutter set in end grain	
	Verstellbarer Verleimfräser (Querbearbeitung)	
	Fresa per giunzioni di testa	B 2862
	Fraises d'aboutage en bout	4-4
	Fresas para ensambles frontales	
	Jointing-cutter in end grain	
	Verleimfräser (Querbearbeitung)	
	Fresa per giunzioni di testa	B 2860
	Fraises d'aboutage en bout	4-5
	Fresas para ensambles frontales	
	Jointing-cutter in end grain	
	Verleimfräser (Querbearbeitung)	
	Frese per giunzioni lungovena	CG 020
	Fraises d'aboutage dans le sens des fibres	4-6
	Fresas para ensambles en el sentido de la fibra	
	Glue-jointing cutters in direction of wood grain	
	Verleimfräser (Längsbearbeitung)	
	Frese per giunzioni lungovena	CG 010
	Fraises d'aboutage dans le sens des fibres	4-7
	Fresas para ensambles en el sentido de la fibra	
	Glue-jointing cutters in direction of wood grain	
	Verleimfräser (Längsbearbeitung)	
	Fresa per giunzioni ad angolo	CI 850
	Fraises de bouvetage d'angle	4-8
	Fresas para ensamble a inglete	
	Mitre lock profile cutterhead	
	Eckverbindungsfräser	
	Fresa per giunzioni ad angolo	CG 840
	Fraises de bouvetage d'angle	4-9
	Fresas para ensamble a inglete	
	Mitre lock profile cutterhead	
	Eckverbindungsfräser	
	Gruppi perline per toupie e scorniciatrice Ø125 B2734-35	B 2734
	Fraises pour lambris et parquet: modèle B2734-35 Ø125 pour toupie et moulurière	4-10
	Fresas para machambrados B2734-35 Ø125 para toupie y moldudera	
	B2734-35 tongue and grooving cutter for single spindle moulder Ø125	
	B2734-35 Nut- und Feder Fräser für Tischfräs- und Kehlmaschine, Ø125	
	Gruppi perline B27 per toupie e scorniciatrice Ø125	B 2730
	Fraises pour lambris et parquet: modèle B27 Ø125 pour toupie et moulurière	4-12
	Fresas para machambrados B27 Ø125 para toupie y moldudera	
	B27 tongue and grooving cutter for single spindle moulder Ø125	
	B27 Nut- und Feder Fräser für Tischfräs- und Kehlmaschine, Ø125	
	Gruppi perline B27 Ø125 per toupie e scorniciatrice	B 27-125
	Fraises pour lambris et parquet: modèle B27 Ø125 pour toupie et moulurière	4-14
	Fresas para machambrados B27 Ø125 para toupie y moldudera	
	B27 tongue and grooving cutter for single spindle moulder Ø125	
	B27 Nut- und Feder Fräser für Tischfräs- und Kehlmaschine, Ø125	
	Gruppi perline B27 Ø160 per scorniciatrice	B 27-160
	Fraises pour lambris et parquet: modèle B27 Ø160 pour moulurière	4-16
	Fresas para machambrados B27 Ø160 para moldudera	
	B27 tongue and grooving cutter for single spindle moulder Ø160	
	B27 Nut- und Feder Fräser für Kehlmaschine, Ø160	



Frese per perline e giunzioni
Fraises pour lambris-parquet et de bouvetage
Cabezales para machambrados y para ensambles
Tongue and grooving tools
Nut- und Federwerkzeuge



Gruppi giunzioni per telai finestre e travetti	B 2430
Fraises pour madriers de chalet	4-18
Fresas para ensambles de marcos	
Cutters for double tongue and groove	
Verbindungsfräser für Fenster und Deckenträger	
Fresa registrabile "Jolly"	B 9401
Porte-outils extensible "Jolly"	4-19
Fresa extensible "Jolly"	
Adjustable cutterhead "Jolly"	
Verstellbarer "Jolly" Fräser	



Fresa per giunzione di testa registrabile

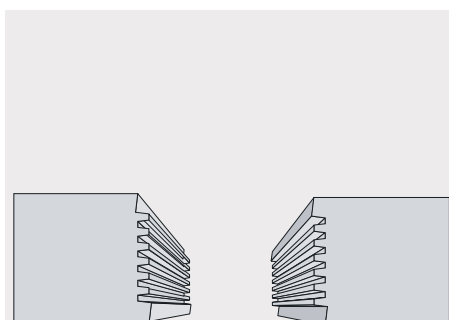
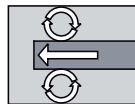
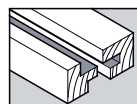
Fraises extensible pour joints en bout

Fresas extensibles para ensambles frontales

Adjustable glue joint cutter set in end grain

Verstellbarer Verleimfräser (Querbearbeitung)

B 2805



I L'utensile è composto da due pezzi registrabili per mezzo di anelli distanziatori. L'inserto sagomato ha due lati profilati. Grazie alla registrazione è possibile lavorare legno con spessore da 20 mm a 65 mm.

F Ce porte-outils est composé de deux parties extensibles grâce aux bagues d'écartement. La plaquette a deux côtés profilés. L'extension permet l'usage de bois avec épaisseur de 20 à 65 mm.

E La herramienta se compone de dos partes extensibles con anillos intermedios. La cuchilla tiene dos lados perfilados. Regulando el cabezal es posible trabajar maderas con espesor de 20 a 65 mm.

UK The tool is composed of two parts, that are adjustable thanks to spacer rings. The knife has two profiled sides. Thanks to the adjustability you can work woods with 20 to 65 mm thickness.

D Das Werkzeug besteht aus zwei Scheiben, die durch Distanzringe verstellbar sind. Das Messer hat zwei profilierte Seiten. Dank der Verstellbarkeit kann man Holz mit 20-65 mm Stärke bearbeiten.

Ø D	B	Ø d	z	v	Cod. Dx	Cod. Sx	COD. P.
125	20/65	30/35	2	2	B2805.125C2 ▲	B2805.125E2	A 2588

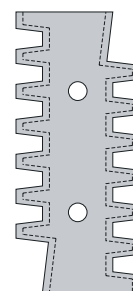
▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

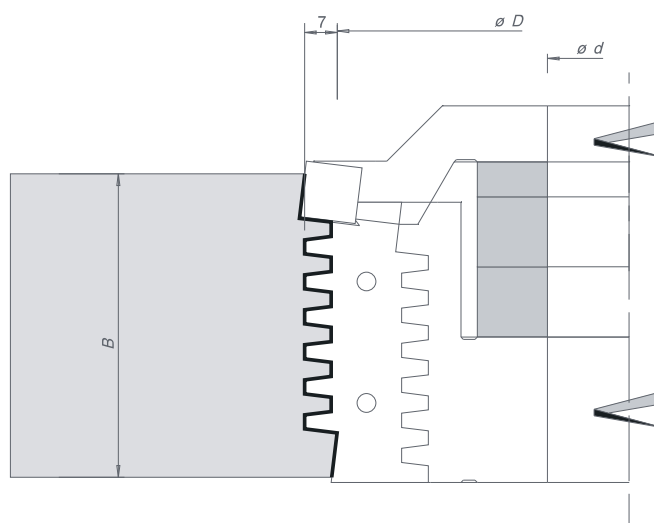
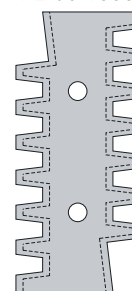
B	Cod.	COD. P.
60	F2.60.1354	B 2616
60	F2.60.1355	B 2616
12	F0.12.12.15 ●	B 860
14x14	F3.14.20.10 ●	B 860

● confezioni da 10 pezzi

Dx
F2.60.1354



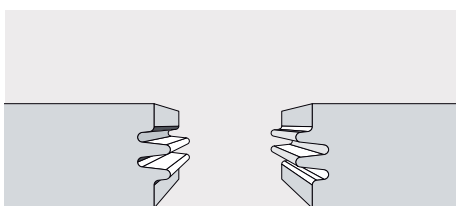
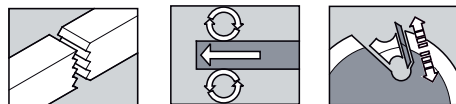
Sx
F2.60.1355





Fresa per giunzioni di testa
Fraises d'aboutage en bout
Fresas para ensambles frontales
Jointing-cutter in end grain
Verleimfräser (Querbearbeitung)

B 2862



I Giunzione registrabile da legno 26 a 54 mm. Versione per toupie e tenonatrice montata su mozzo, corpo in acciaio.

F Aboutage extensible pour bois de 26 à 54 mm. Version pour toupie et machine à tenonner, montée sur manchon, corps en acier.

E Ensamble extensible para madera de 26 a 54 mm. Versión para toupie y espigadora montada sobre manguito, cuerpo en acero.

UK Adjustable jointing for wood from 26 to 54. Model for single spindle moulder or tenoning machine with sleeve, steel tool.

D Von 22 bis 54 verstellbare Verbindung für Holz. Version für Tischfräs- und Verzapfenmaschinen mit Büchse, Stahl-Ausführung.

Versione per toupie e tenonatrice in acciaio gruppo con canotto

Ø D	B	b	Ø d max	Z	CODICE	COD. P.
130	26/54	18.5/33.5	30/50	2+2	B2862.130D2 ▲	A 1990
180	26/54	18.5/33.5	30/50	3+3	B2862.180D3	A 2796
300	26/54	18.5/33.5	30/50	3+3	B2862.300D3	A 3578

▲ disponibilità immediata con sconto maggiorato

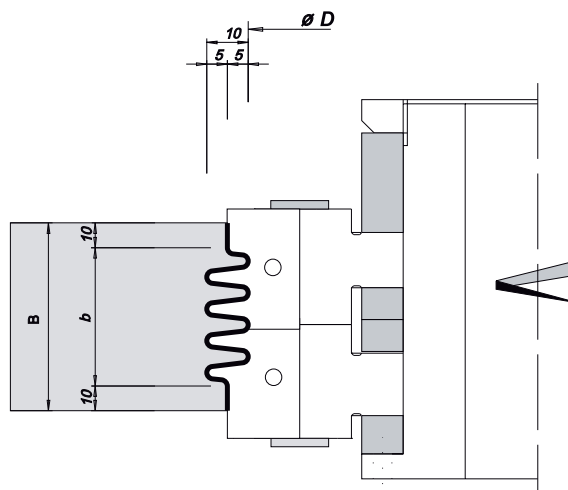
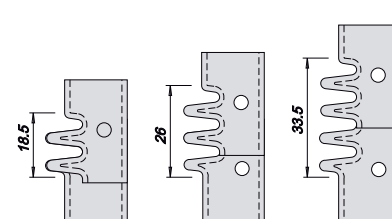
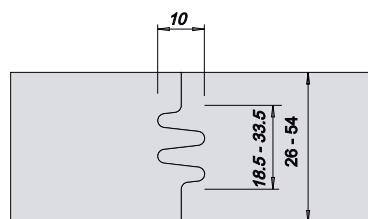
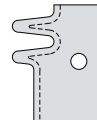
Coltelli di ricambio

B	Cod.	COD. P.
30	F2.30.1380	B 1078
30	F2.30.1381	B 1078

F2.30.1380



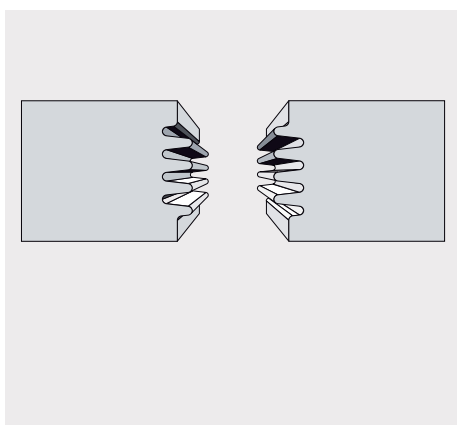
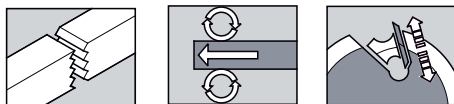
F2.30.1381





Fresa per giunzioni di testa
Fraises d'aboutage en bout
Fresas para ensambles frontales
Jointing-cutter in end grain
Verleimfräser (Querbearbeitung)

B 2860



I Giunzione registrabile da legno 42 a 80 mm. Versione per toupie e tenonatrice montata su mozzo, corpo in acciaio.

F Aboutage extensible pour bois de 42 à 80 mm. Version pour toupie et machine à tenonner, montée sur manchon, corps en acier.

E Ensamble extensible para madera de 42 à 80 mm. Versión para toupie y espigadora montada sobre manguito, cuerpo en acero.

UK Adjustable jointing for wood from 42 to 80. Model for single spindle moulder or tenoning machine with sleeve, steel tool.

D Von 42 bis 80 verstellbare Verbindung für Holz. Version für Tischfräs- und Verzapfenmaschinen mit Büchse, Stahl-Ausführung.

Versione per toupie e tenonatrice in acciaio gruppo con canotto

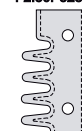
Ø D	B	b	Ø d max	Z	CODICE	COD. P.
130	42/80	33.5-63.5	30/50	2+2	B2860.130D2 ▲	A 2496
180	42/80	33.5-63.5	30/50	3+3	B2860.180D3	A 3550
300	42/80	33.5-63.5	30/50	3+3	B2860.300D3	A 4844

▲ disponibilità immediata con sconto maggiorato

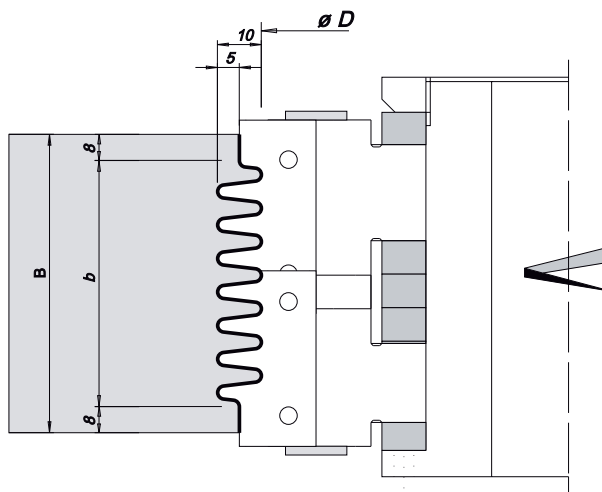
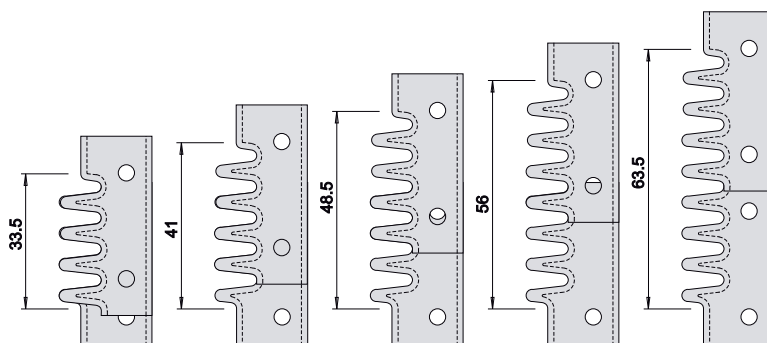
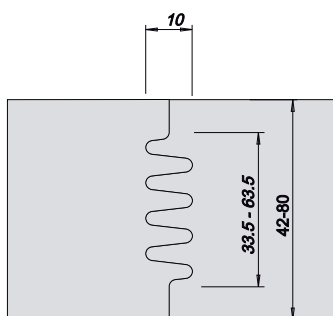
Coltelli di ricambio

B	Cod.	COD. P.
50	F2.50P5282.1	B 1526
50	F2.50P5283.1	B 1296

F2.50P5282.1



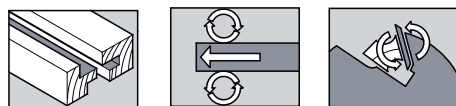
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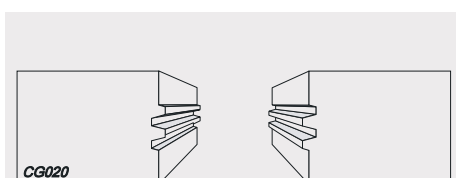


Frese per giunzioni lungovena
Fraises d'aboutage dans le sens des fibres
Fresas para ensambles en el sentido de la fibra
Glue-jointing cutters in direction of wood grain
Verleimfräiser (Längsbearbeitung)

CG 020



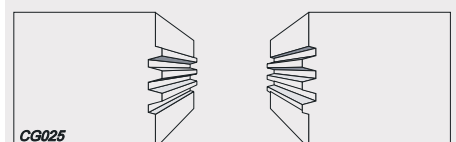
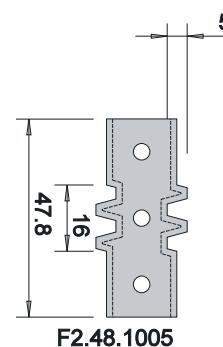
- I Utensile in acciaio con coltello reversibile.
- F Porte-outils en acier avec plaquettes réversibles.
- E Herramienta en acero con cuchilla reversible.
- UK Steel tool with reversible knife.
- D Stahl-Ausführung mit umkehrendem Messer.



Ø D	B	Ø D max	z	Cod.	COD. P.
125	50	135	2	CGO20.125.2001 ▲	A 1158
130	50	140	3	CGO20.130.3050	A 1646
160	50	170	4	CGO20.160.4050	A 2206

▲ disponibilità immediata con sconto maggiorato

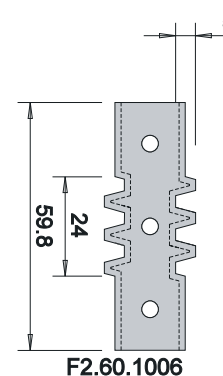
B	Cod.	COD. P.
48	F2.48.1005	B 1520



Ø D	B	Ø D max	z	Cod.	COD. P.
125	60	135	2	CGO25.125.2001 ▲	A 1402
130	60	140	3	CGO25.130.3060	A 1986
160	60	170	4	CGO25.160.4060	A 2666

▲ disponibilità immediata con sconto maggiorato

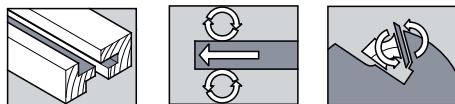
B	Cod.	COD. P.
60	F2.60.1006	B 1820





Frese per giunzioni lungovena
 Fraises d'aboutage dans le sens des fibres
 Fresas para ensambles en el sentido de la fibra
 Glue-jointing cutters in direction of wood grain
 Verleimfräiser (Längsbearbeitung)

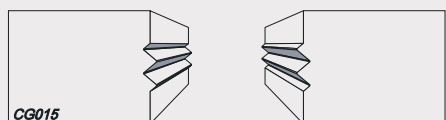
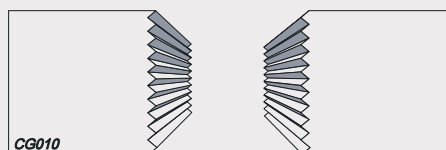
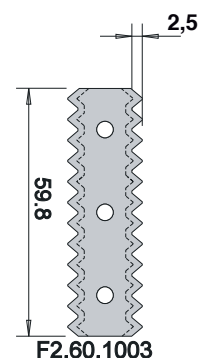
CG010



Ø D	B	Ø D max	z	Cod.	COD. P.
125	60	131	2	CGO10.125.2001 ▲	A 1366
130	60	136	3	CGO10.130.3060	A 1944
160	60	166	4	CGO10.160.4060	A 2606

▲ disponibilità immediata con sconto maggiorato

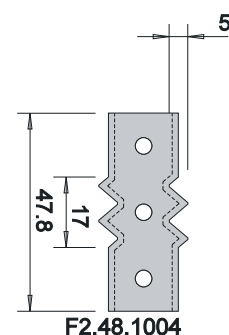
B	Cod.	COD. P.
60	F2.60.1003	B 1780

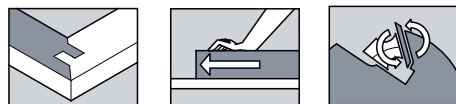


Ø D	B	Ø D max	z	Cod.	COD. P.
125	50	135	2	CGO15.125.2001 ▲	A 1108
130	50	140	3	CGO15.130.3050	A 1572
160	50	170	4	CGO15.160.4050	A 2108

▲ disponibilità immediata con sconto maggiorato

B	Cod.	COD. P.
48	F2.48.1004	B 1480





Fresa per giunzioni ad angolo
Fraises de bouvetage d'angle
Fresas para ensamble a inglete
Mitre lock profile cutterhead
Eckverbindungsfräser

CI 850



- I** Fresa per eseguire giunzioni ad angolo. Corpo in acciaio con coltelli standard.
- F** Fraise de bouvetage d'angle. Corps en acier avec plaquettes standard.
- E** Fresa para ensambles a inglete. Cuerpo en acero con cuchillas estándar.
- UK** Mitre lock profile cutterhead. Steel tool with standard knives.
- D** Eckverbindungsfräser. Stahl-Ausführung mit Standardmessern.

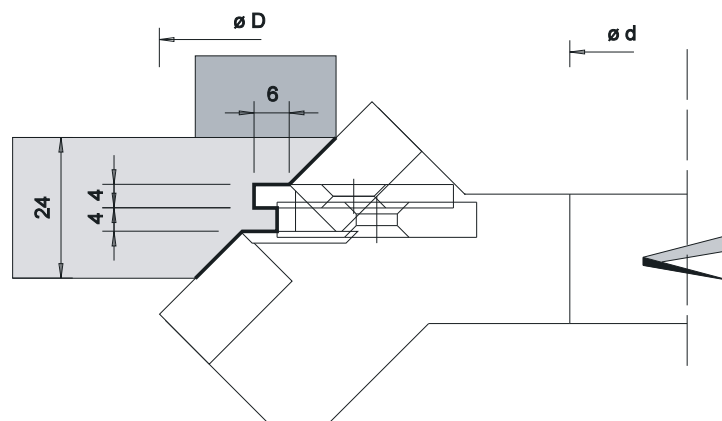
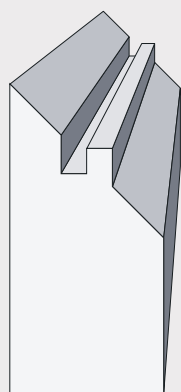
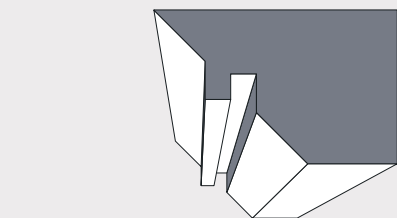
Ø D	B	Ø d max	Z	V	Cod. Dx	Cod. Sx	COD. P.
160	35	30/40	2	2	CI850.160.2001 ▲	CI850.160.2002	A 1616
180	35	40/50	3	3	CI850.180.3001	CI850.180.3002	A 2438

▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
20	F0.20.12.15 ●	B 800
6	F5.60.09.03	B 786
3	F5.40.09.03	B 694
14x14	F3.14.20.10 ●	B 860

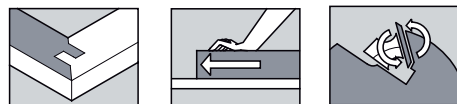
▲ confezione da 10 pezzi





Fresa per giunzioni ad angolo
Fraises de bouvetage d'angle
Fresas para ensamble a inglete
Mitre lock profile cutterhead
Eckverbindungsfräser

CG 840



- I Fresa per eseguire giunzioni ad angolo. Corpo in acciaio.
- F Fraise de bouvetage d'angle. Corps en acier.
- E Fresa para ensambles a inglete. Cuerpo en acero con cuchillas estándar.
- UK Mitre lock profile cutterhead. Steel tool.
- D Eckverbindungsfräser. Stahl-Ausführung.

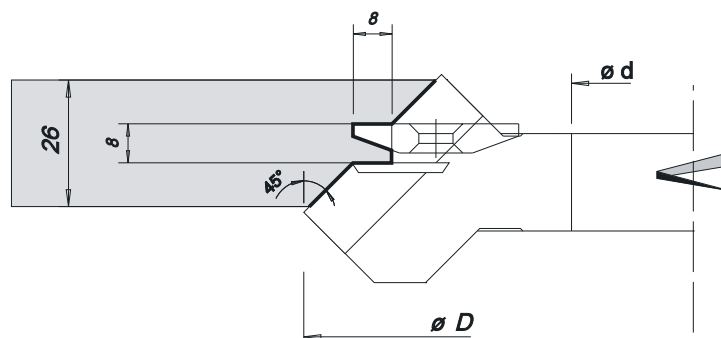
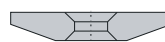
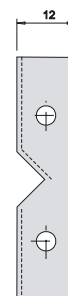
Ø D	B	Ø d max	Z	V	Cod.	COD. P.
160	13/26	50	2	2	CG840.160.2026	A 1556
160	13/34	50	2	2	CG840.160.2034 ▲	A 1616
180	13/26	50	3	3	CG840.180.3026	A 2378
180	13/34	50	3	3	CG840.180.3034	A 2438

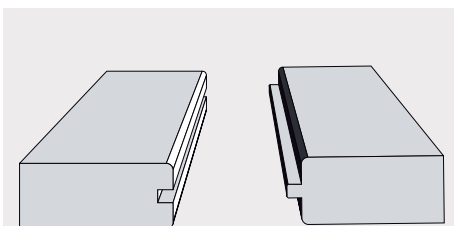
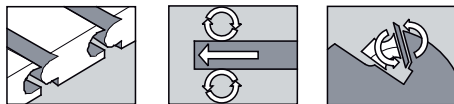
▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
13/26	F2.40.1305	B 400
13/34	F2.50.1306	B 420
4	F5.66.19.01	B 940
14x14	F3.14.20.10 ●	B 860

● confezioni da 10 pezzi





**Gruppi perline per toupie e
scorniciatrice Ø125 B2734-35**
*Fraises pour lambris et parquet:
modèle B2734-35 Ø125 pour toupie
et moulurière*

**Fresas para machambrados B2734-35
Ø125 para toupie y moldurera**
*B2734-35 tongue and grooving cutter for
single spindle moulder Ø125*
**B2734-35 Nut- und Feder Fräser für
Tischfräs- und Kehlmaschine, Ø125**

B 2734



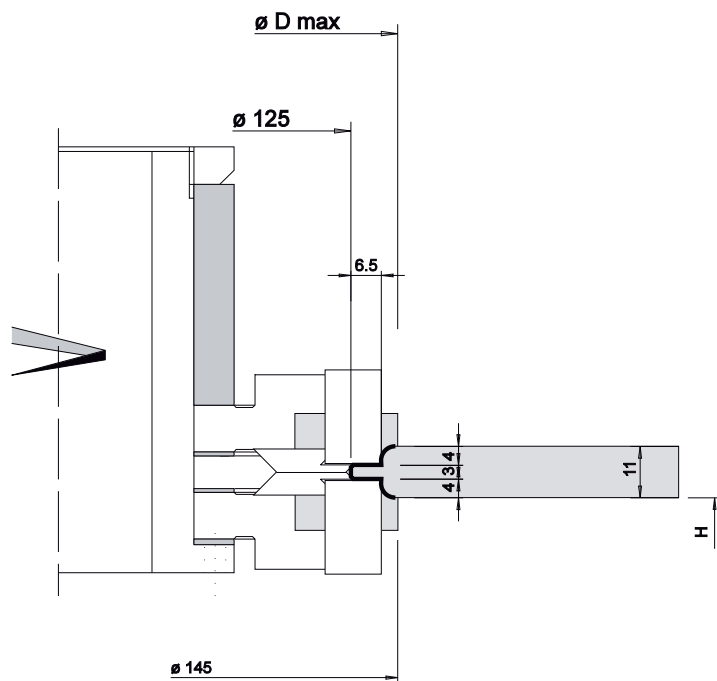
I Gruppi registrabili per l'esecuzione di perline su toupie e scorniciatrice. Gruppi montati su mozzo, corpo in acciaio con spigolatori registrabili R3. La registrazione si ottiene allargando l'incastro centrale da 3 a 6 e registrando gli spigolatori. Diametro di programmazione Ø125 uguale per maschio e femmina. A richiesta maschio registrabile fino a 9 mm.

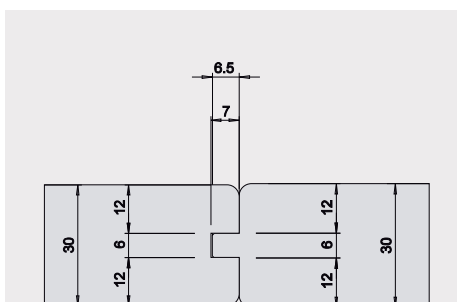
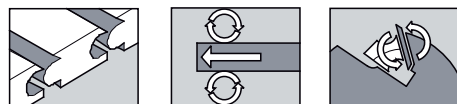
F Jeux extensibles pour exécuter lambris et parquets sur toupies et moulurières. Corps en acier, jeux montés sur manchon et brise-arêtes extensibles R3. L'extension est obtenue en élargissant la partie centrale de 3 à 6 mm et en étendant les brise-arêtes. Diamètre de base Ø125 pour le profilage et le contreprofilage. Sur demande contreprofil extensible jusqu'à 9mm.

E Juegos extensibles para machihembrar para toupies y moldureros. Cuerpo en acero, juegos montados sobre manguito con maticantes móviles R3. L'extensión se obtiene ampliando la parte central de 3 a 6 mm y extendiendo los maticantes. Diámetro de base Ø125 para el perfilado. Bajo pedido espiga regulable hasta los 9mm.

UK Adjustable tongue and grooving cutter set for single spindle moulder. Steel tools on sleeve with chamfering knives. The adjustability is obtained by extending the central part from 3 to 6 and the chamfering knives too. Basis diameter Ø125 for the profile. On request adjustable tenon till 9mm.

D Verstellbare Garnituren zur Bearbeitung von Nut- und Federprofilen auf Tischfräs- und Kehlmaschinen. Stahl-Ausführung, Garnituren auf Büchse mit Kantenbrechern. Die Verstellbarkeit schafft man, indem man den Zentralteil von 6 bis 12 und die Kantenbrecher rückt. Basisdurchmesser Ø125 für die Längsbearbeitung. Auf Wunsch verstellbarer Zapfen bis 9mm.





**Gruppi perline per toupie e
scorniciatrice Ø125 B2734-35**
*Fraises pour lambris et parquet:
modèle B2734-35 Ø125 pour toupie
et moulurière*

**Fresas para machambrados B2734-35
Ø125 para toupie y moldudera**
*B2734-35 tongue and grooving cutter for
single spindle moulder Ø125*
**B2734-35 Nut- und Feder Fräser für
Tischfräs- und Kehlmaschine, Ø125**

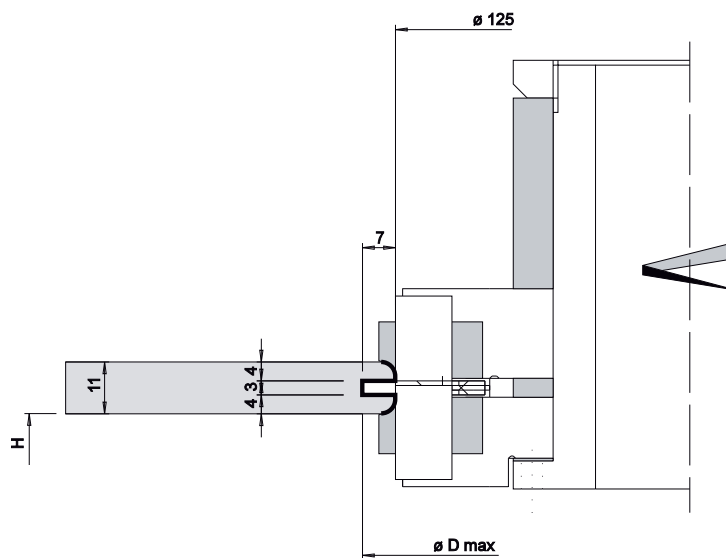
B 2734



TOUPIE			maschio Dx	femmina DX	
Ø D max	Z	H	CODICE	CODICE	COD. P.
145	2	16	B2734.125C2 ▲	B2735.125C2 ▲	A 4450

▲ disponibilità immediata con sconto maggiorato

SCORNICIATRICE			maschio Sx	femmina DX	
Ø D max	Z	H	CODICE	CODICE	COD. P.
145	2	16	B2734.125E2	B2735.125C2	A 4450





Gruppi perline B27 per toupie e scorniciatrice Ø125

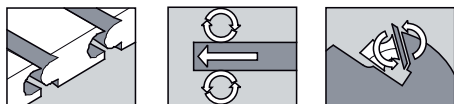
*Fraises pour lambris et parquet: modèle
B27 Ø125 pour toupie et moulurière*

**Fresas para machambrados B27 Ø125
para toupie y moldurera**

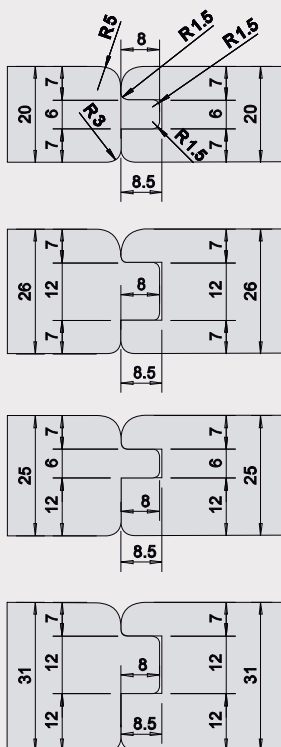
*B27 tongue and grooving cutter for single
spindle moulder Ø125*

**B27 Nut- und Feder Fräser für Tischfräs-
und Kehlmaschine, Ø125**

B 2730



Prof. 1



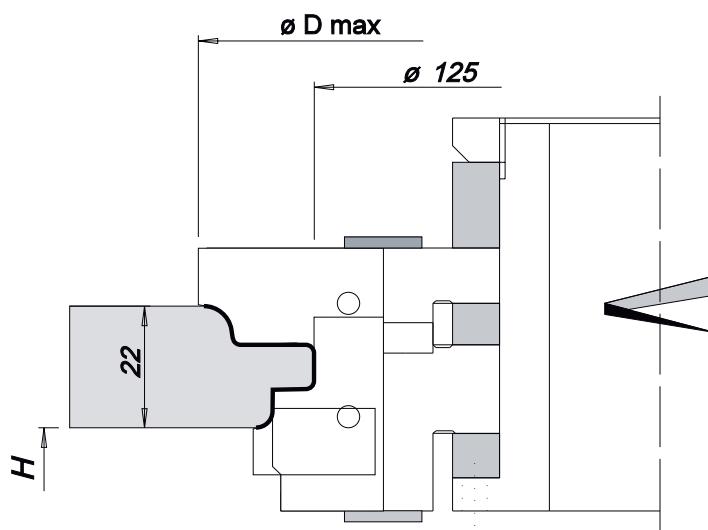
I Gruppi registrabili per l'esecuzione di perline su toupie e scorniciatrice. Gruppi montati su mozzo, corpo in acciaio. Ogni gruppo è formato da due frese sagomate. Maschietto raggiato. La registrazione si ottiene allargando l'incastro centrale da 6 a 12 mm. Diametro di programmazione Ø125 uguale per maschio e femmina.

F Jeux extensibles pour exécuter lambris et parquets sur toupies et moulurières. Corps en acier, jeux montés sur manchon. Chaque jeu est composé par deux fraises profilées. Le contreprofil est arrondi. L'extension est obtenue ouvrant la partie centrale de 6 à 12 mm. Diamètre de base Ø125 pour le profilage et le contreprofilage.

E Juegos extensibles a machihembrar para toupies y moldureras. Cuerpo en acero, juegos montados sobre manguito. Cada juego se compone de dos fresas perfiladas. Espiga redondeada. L'extensión se obtiene ampliando la parte central de 6 a 12 mm. Diámetro de base Ø125 para espigas y almillados.

UK Adjustable tongue and grooving cutter set for single spindle moulder. Steel tools on sleeve. Every tool-set is composed of two profiled tools. Rounded tenon. The adjustability is obtained by extending the central part from 6 to 12. Basis diameter Ø125 for the profile.

D Verstellbare Garnituren zur Bearbeitung von Nut- und Federprofilen auf Tischfräs- und Kehlmaschinen. Stahl-Ausführung, Garnituren auf Büchse. Jede Garnitur besteht aus zwei profilierten Fräsern. Abgerundeter Zapfen. Die Verstellbarkeit schafft man, indem man den Zentralteil von 6 bis 12 rückt. Basisdurchmesser Ø125 für die Längsbearbeitung.





Gruppi perline B27 per toupie e scorniciatrice Ø125

B 2730



Fraises pour lambris et parquet: modèle

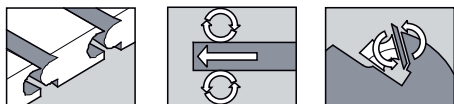
B27 Ø125 pour toupie et moulurière

Fresas para machambrados B27 Ø125

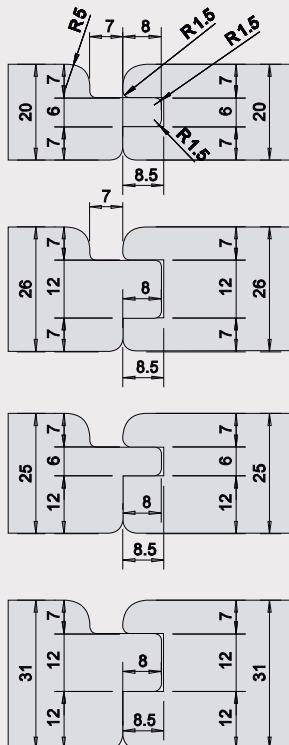
para toupie y moldurera

*B27 tongue and grooving cutter for single
spindle moulder Ø125*

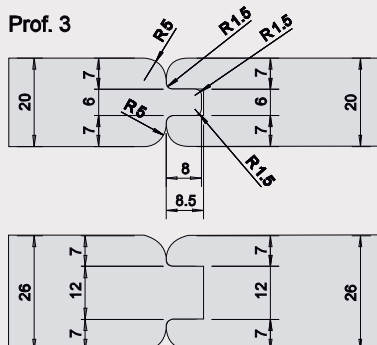
*B27 Nut- und Feder Fräser für Tischfräs-
und Kehlmaschine, Ø125*



Prof. 2



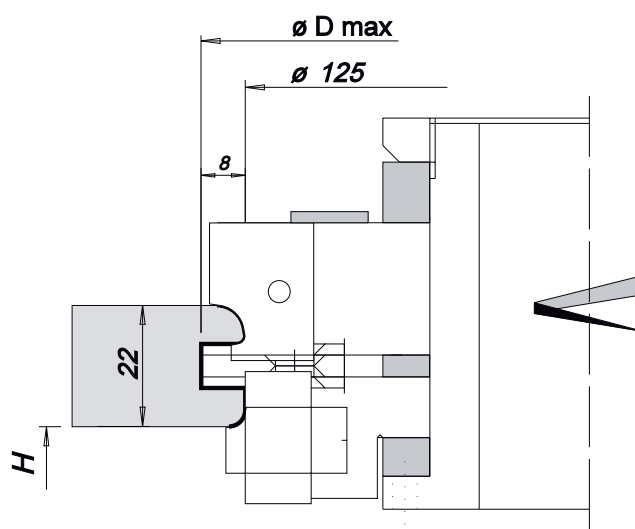
Prof. 3



TOUPIE				maschio Dx	femmina DX	
Prof.	Ø D max	Z	H	CODICE	CODICE	COD. P.
1	153	2	15	B2728.125C2	B2729.125C2	A 4460
2	167	2	15	B2730.125C2	B2729.125C2	A 4460
3	153	2	15	B2732.125C2 ▲	B2733.125C2 ▲	A 4460

▲ disponibilità immediata con sconto maggiorato

SCORNICIATRICE				maschio Sx	femmina DX	
Prof.	Ø D max	Z	H	CODICE	CODICE	COD. P.
1	153	2	15	B2728.125E2	B2729.125C2	A 4460
2	167	2	15	B2730.125E2	B2729.125C2	A 4460
3	153	2	15	B2732.125E2	B2733.125C2	A 4460





Gruppi perline B27 Ø125 per toupie e scorniciatrice

Fraises pour lambris et parquet: modèle

B27 Ø125 pour toupie et moulurière

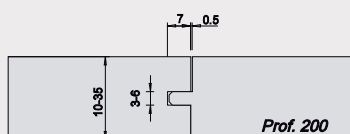
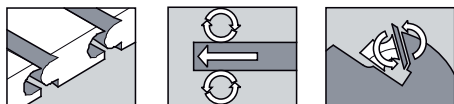
Fresas para machambrados B27 Ø125

para toupie y moldurera

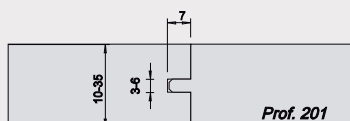
B27 tongue and grooving cutter for single spindle moulder Ø125

B27 Nut- und Feder Fräser für Tischfräs- und Kehlmaschine, Ø125

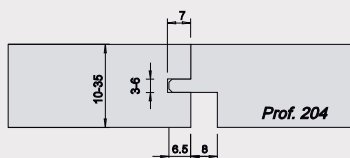
B27-125



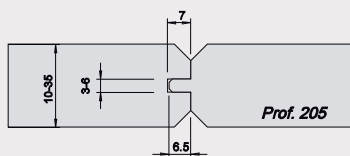
Prof. 200



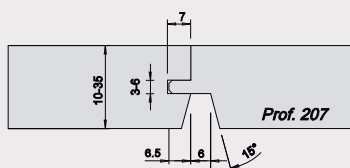
Prof. 201



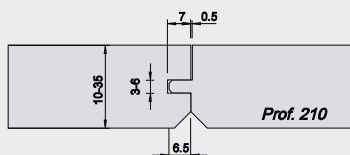
Prof. 204



Prof. 205



Prof. 207



Prof. 210

I Gruppi registrabili per l'esecuzione di perline su toupie e scorniciatrice. Gruppi montati su mozzo, corpo in acciaio. Diametro di programmazione Ø125 uguale per maschio e femmina - Z = 2. Registrabile da 10 a 35 mm

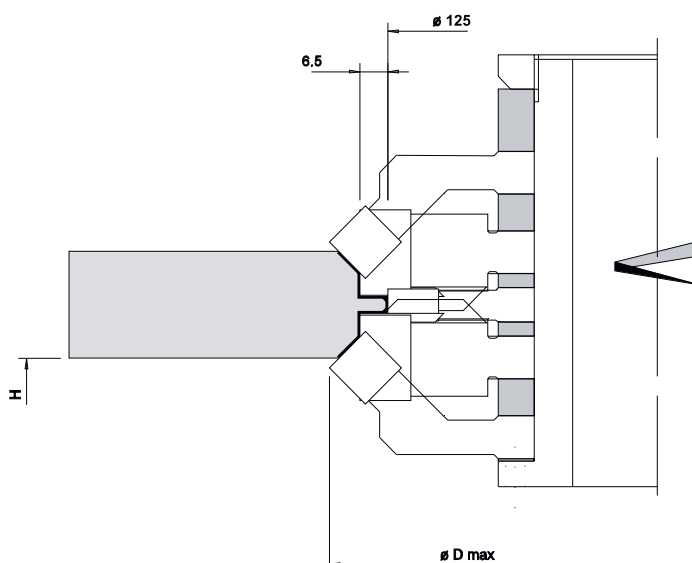
A richiesta maschio registrabile fino a 9 mm.

F Jeux extensibles pour exécuter lambris et parquets sur toupies et moulurières. Corps en acier, jeux montés sur manchon. Diamètre de base Ø125 pour le profilage et le contreprofilage, Z=2.. Extensibles de 10 à 35mm. Sur demande contreprofil extensible jusqu'à 9mm.

E Juegos extensibles para machambrados para toupies y moldureras. Cuerpo en acero, juegos montados sobre manguito. Diámetro de base Ø125 para el perfilado - Z=2. Extensible de 10 a 35mm. Bajo pedido espiga extensible hasta los 9mm.

UK Adjustable tongue and grooving cutter set for single spindle moulder. Steel tools on sleeve. Basis diameter Ø125 for the profile, Z=2. Adjustable from 10 to 35mm. On request adjustable tenon till 9mm.

D Verstellbare Garnitur zur Bearbeitung von Nut- und Federprofilen auf Tischfräs- und Kehlmaschinen. Stahl-Ausführung, Garnituren auf Büchse. Basisdurchmesser Ø125 für die Längsbearbeitung, Z=2. Verstellbar von 10-35mm. Auf Wunsch verstellbarer Zapfen bis 9mm.





Gruppi perline B27 Ø125 per toupie e scorniciatrice

B27-125



Fraises pour lambris et parquet: modèle

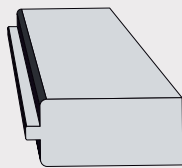
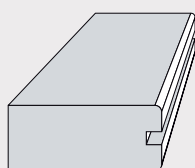
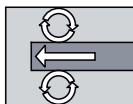
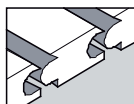
B27 Ø125 pour toupie et moulurière

Fresas para machambrados B27 Ø125

para toupie y moldurera

B27 tongue and grooving cutter for single spindle moulder Ø125

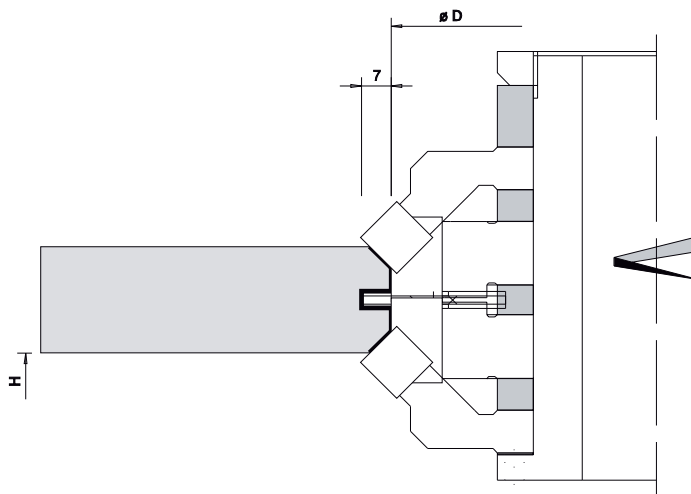
B27 Nut- und Feder Fräser für Tischfräs- und Kehlmaschine, Ø125



TOUPIE				maschio Dx	femmina DX	
Prof.	Ø D max	Z	H	CODICE	CODICE	COD. P.
200	152	2	15	B2708.125C2	B2709.125C2	A 3200
201	152	2	15	B2710.125C2	B2709.125C2	A 3200
204	154	2	15	B2712.125C2	B2709.125C2	A 3200
205	152	2	30	B2714.125C2 ▲	B2715.125C2 ▲	A 5144
207	158	2	15	B2716.125C2	B2717.125C2	A 3238
210	152	2	30	B2718.125C2	B2719.125C2	A 4174

▲ disponibilità immediata con sconto maggiorato

SCORNICIATRICE				maschio SX	femmina Dx	
Prof.	Ø D max	Z	H	CODICE	CODICE	COD. P.
200	152	2	15	B2708.125E2	B2709.125C2	A 3200
201	152	2	15	B2710.125E2	B2709.125C2	A 3200
204	154	2	15	B2712.125E2	B2709.125C2	A 3200
205	152	2	30	B2714.125E2	B2715.125C2 ▲	A 5144
207	158	2	15	B2716.125E2	B2717.125C2	A 3238
210	152	2	30	B2718.125E2	B2719.125C2	A 4174





Gruppi perline B27 Ø160 per scorniciatrice

Fraises pour lambris et parquet: modèle

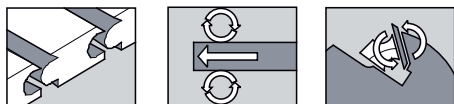
B27 Ø160 pour moulurière

Fresas para machambrados B27 Ø160 para moldudera

B27 tongue and grooving cutter for single spindle moulder Ø160

B27 Nut- und Feder Fräser für Kehlmaschine, Ø160

B27-160



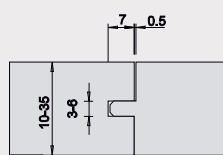
I Gruppi registrabili per l'esecuzione di perline su scorniciatrice. Gruppi montati su mozzo, corpo in acciaio. Diametro di programmazione Ø147 uguale per maschio e femmina - Z = 4. Registrabile da 10 a 35 mm. Maschio rotazione sx. Femmina rotazione dx.

F A richiesta maschio registrabile fino a 9 mm. Jeux extensibles pour exécuter lambris et parquets sur moulurière. Corps en acier, jeux montés sur manchon. Diamètre de base Ø147 pour le profilage et le contreprofilage - Z=4. Extensibles de 10 à 35mm. Contreprofil: rotation droite.

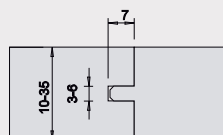
E Enfournement: rotation gauche. Sur demande contreprofil extensible jusqu'à 9mm. Juegos extensibles a machihembrar para molduderas. Cuerpo en acero, juegos montados sobre manguito. Diámetro de base Ø147 para el perfilado - Z=4. Extensibles desde 10 mm hasta 35mm. Espigado - rotación derecha. almillado - rotación izquierda. Bajo pedido espiga extensible hasta 9mm.

UK adjustable tongue and grooving cutter set for single spindle moulder. Steel tools on sleeve. Basis diameter Ø147 for the profile, Z=4. Adjustable from 10 to 35mm. Tenon rotation -> right. Slot rotation -> left. On request adjustable tenon till 9mm.

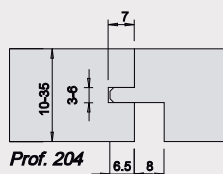
D Verstellbare Garnitur zur Bearbeitung von Nut- und Federprofilen auf Kehlmaschinen. Stahl-Ausführung, Garnituren auf Büchse. Basisdurchmesser Ø147 für die Längsbearbeitung, Z=4. Verstellbar von 10-35mm. Zapfen -> Drehrichtung rechts. Schlitz -> Drehrichtung links. Auf Wunsch verstellbarer Zapfen bis 9mm.



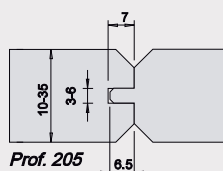
Prof. 200



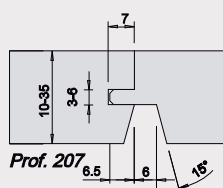
Prof. 201



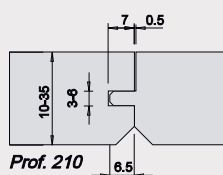
Prof. 204



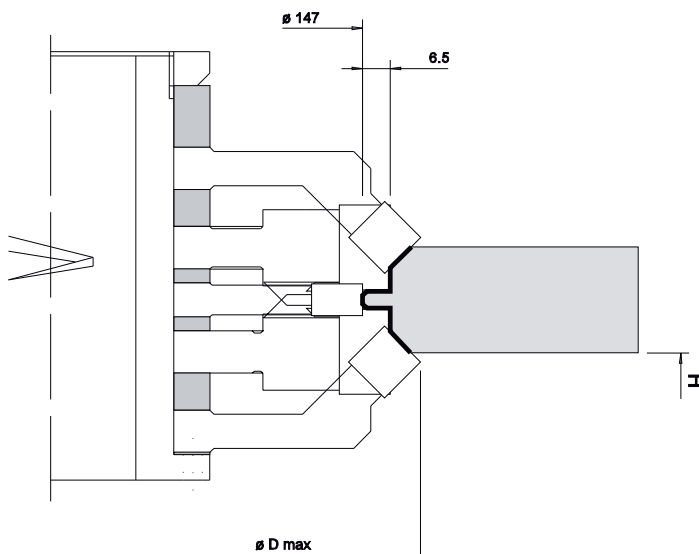
Prof. 205



Prof. 207



Prof. 210





**Gruppi perline B27 Ø160 per
scorniciatrice**

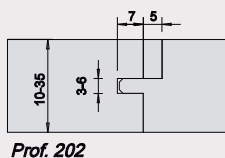
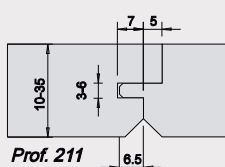
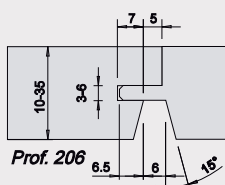
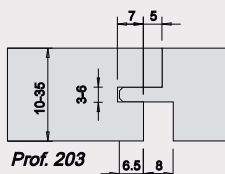
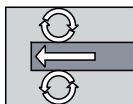
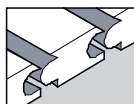
*Fraises pour lambris et parquet: modèle
B27 Ø160 pour moulurière*

**Fresas para machambrados B27 Ø160
para moldurera**

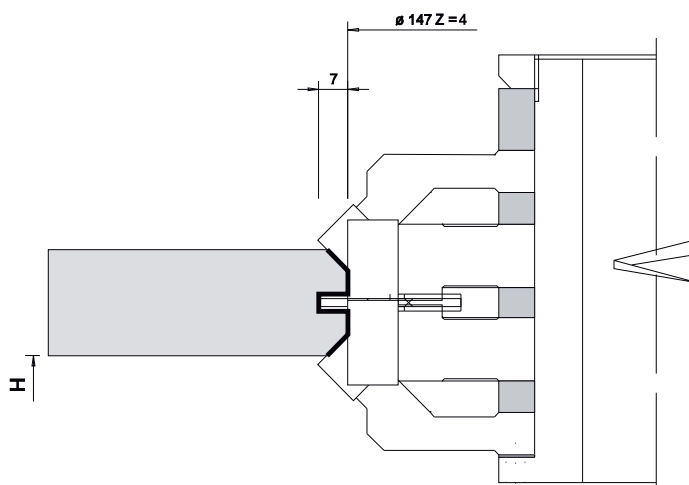
*B27 tongue and grooving cutter for single
spindle moulder Ø160*

B27 Nut- und Feder Fräser für Kehlmaschine, Ø160

B27-160



Prof.	Ø D max	Z	H	maschio Sx	femmina DX	COD. P.
				CODICE	CODICE	
200	161	4	15	B2708.160E4	B2709.160C4	A 4850
201	160	4	15	B2710.160E4	B2709.160C4	A 4850
204	176	4	15	B2712.160E4	B2709.160C4	A 4850
205	174	4	30	B2714.160E4	B2715.160C4	A 8330
207	169	4	15	B2716.160E4	B2717.160C4	A 4850
210	174	4	30	B2718.160E4	B2719.160C4	A 7330
203	176	4	15	B2720.160E4	B2721.160C4	A 4850
206	182	4	15	B2722.160E4	B2723.160C4	A 4850
211	174	4	30	B2724.160E4	B2725.160C4	A 7330
202	174	4	15	B2726.160E4	B2721.160C4	A 4850





Gruppi giunzioni per telai finestre e travetti

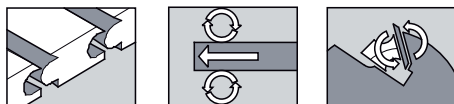
Fraises pour madriers de chalet

Fresas para ensambles de marcos

Cutters for double tongue and groove

Verbindungsfräser für Fenster und Deckenträger

B 2430



I Gruppi per giunzioni. Con lo stesso gruppo si esegue la giunzione completa rovesciando l'appoggio del legno. Gruppo montato su mozzo corpo in acciaio.

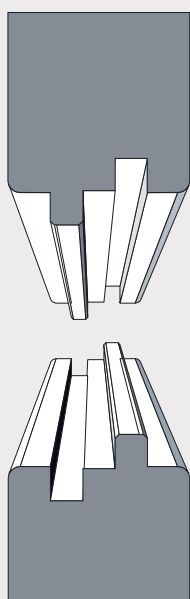
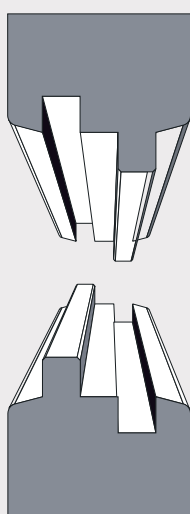
F Fraises d'aboutage. Avec les mêmes fraises on peut exécuter l'aboutage complet en renversant le bois. Fraises montées sur manchon, corps en acier.

E Fresas para ensambles. Con las mismas fresas pueden hacer l'ensamble completo girando la madera. Fresas montadas sobre manguito, cuerpo en acero.

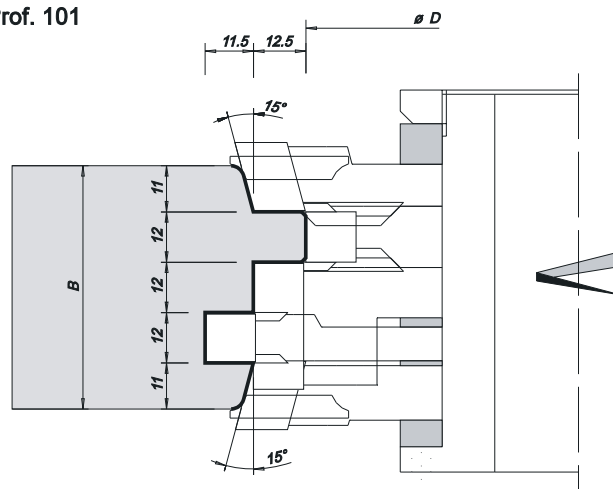
UK Jointing cutter. With the same tool you can execute the complete jointing by turning the wood. Steel tool on sleeve.

D Verbindungsfräser. Mit demselben Werkzeug kann man die ganze Verbindung ausführen, indem man das Holz umdreht. Stahl-Ausführung auf Büchse.

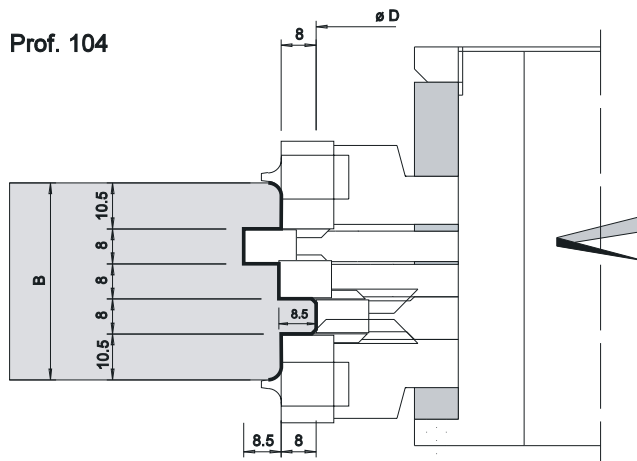
Prof.	Ø D	B	Z	Cod.	COD. P.
101	Ø160	56/68	2	B2430.160C2	A 4178
104	Ø160	45/56	2	B2433.160C2	A 4104



Prof. 101



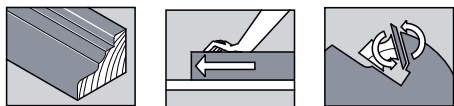
Prof. 104





Fresa registrabile "Jolly"
Porte-outils extensible "Jolly"
Fresa extensible "Jolly"
Adjustable cutterhead "Jolly"
Verstellbarer "Jolly" Fräser

B 9401



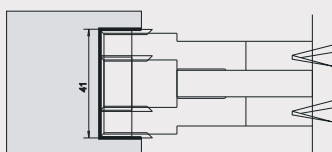
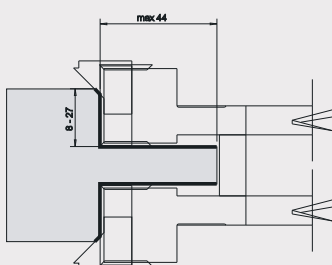
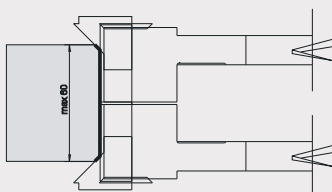
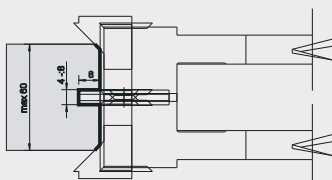
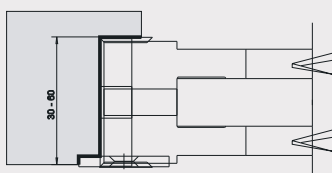
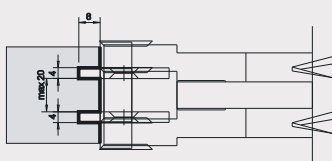
I Gruppo composto da due elementi registrabili con anelli distanziatori. I vari tipi di inserti forniti a corredo consentono di ottenere molteplici combinazioni. E' possibile eseguire quattro modelli di perline. Corpo in acciaio, inserti standard.

F Fait de deux éléments, réglables avec bagues intercalaires. Les plaquettes spéciales permettent d'obtenir plusieurs combinaisons. Avec ce porte-outils on peut usiner quatre profils de parquet. Corps en acier, plaquettes standard.

E Cabezal en dos partes extensibles con anillos intermedios. La variedad de cuchillas permite hacer muchas combinaciones. Pueden hacer cuatro perfiles machambrados. Cuerpo en acero, cuchillas estándar.

UK Cutterhead composed of two elements, adjustable by spacer rings. The various knives permit to obtain a lot of combinations. With the same cutterhead it is possible to produce four different floorboard profiles. Steel tool with standard knives.

D Zweiteiliger, durch Distanzringe verstellbarer Messerkopf. Die verschiedenen Messer gestatten mehrere Kombinationen. Es ist möglich, vier verschiedene Nut- und Federprofile zu bearbeiten. Stahl-Ausführung mit Standardmessern.



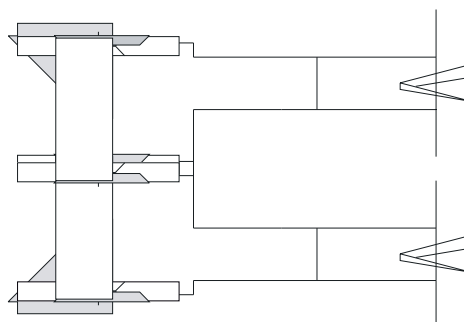
Ø D	B	Ø d max	Z	V	CODICE	COD. P.
184	30-60	35-40	2+2	2+2+2+2	B9401.160C2 ▲	A 1634

▲ disponibilità immediata con sconto maggiorato

Coltelli di ricambio

B	Cod.	COD. P.
30	F0.30.12.15 ●	B 880
4	F5.40.09.03	B 694
14x14	F3.14.20.10 ●	B 860

● confezione da 10 pezzi





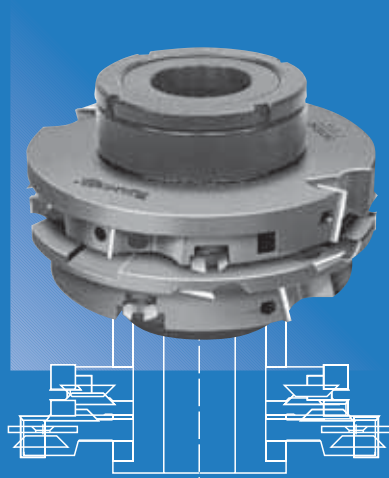
Gruppi per porte e portoncini

Jeux pour portes

Juegos para puertas

Tools for doors

Türenwerkzeuge



Giunzione per telaio porte a 90° Aboutages a 90° pour dormants des portes Ensamblados de 90° para marcos de puertas 90° jointing cutter for door frame 90° Verleimfräser für Türblatt	B 4411 5-3
Gruppo per giunzione porte a 45° Jeu de fraises pour aboutages de portes à 45° Juego de fresas para ensambles de puertas a 45° 45° door jointing-cutter set 45° Verleimfräsergarnitur für Türen	B 4412 5-4
Profilatura telaio per porte Profilage du châssis de porte Perfilado del marco de la puerta Cutterhead for door frames Messerkopf für Türrahmen	CB 660 5-5
Gruppi per telaio porte registrabile Jeu de fraises extensible pour châssis de portes Juego de fresas extensible para el marco de puertas Adjustable tool set for door frames Verstellbare Fräsergarnitur für Türrahmen	B 21-21-27 5-6
Cassetta componibile per telai porte Boîte avec fraises par éléments pour châssis de portes Caja con fresas componibles para marco de puertas Sectional door-frame tool set box Kästchen mit zusammensetzbaren Fräsern für Türrahmen	B 6302 5-7
Confezione componibile per porte Boîte avec fraises par éléments pour portes Caja de fresas componibles para puertas Sectional doors tool set box Kästchen mit zusammensetzbaren Fräsern für Türen	B 6303 5-8
Gruppi per porte "double" Jeu de fraises pour portes "doubles" Juego de fresas para puertas "double" Tool set for "double" doors Fräsergarnitur für "double"-Türen	B 2925 5-9
Porta sagomata Porte profilée Puerta con moldura Profiled door Profilierte Tür	B 2962 5-10
Porta sagomata Porte profilée Puerta con moldura Profiled door Profilierte Tür	B 2963 5-11
Fresa per masselli porte Jeu de fraises pour portes avec listel de bois Juego de fresas para puertas con barra Cutter set for doors with wooden lath Fräsergarnitur für Türen mit Holzleiste	B 2850 5-12
Gruppi a smussare registrabili Jeu de fraises à chanfrainer extensibles Juego de fresas para cantear extensibles Adjustable jointing and rounding cutterhead Verstellbarer Fräser zum Abkanten	B 2910 5-13
Gruppi a smussare per porte Jeu de porte-outils à arrondir et à chanfrainer pour portes Juego de fresas para chanflanar y redondear puertas Door jointing, chamfering and rounding cutterheads Fräsergarnitur zum Türen-Abkanten und -Abrunden	CN004 5-14



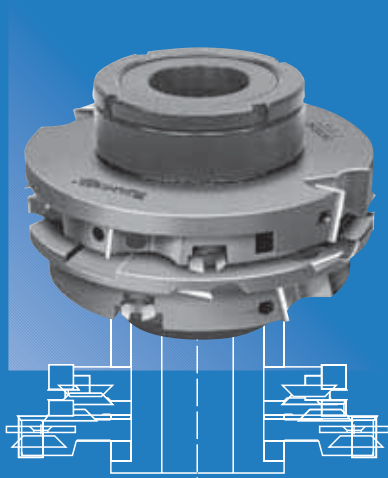
Gruppi per porte e portoncini

Jeux pour portes

Juegos para puertas

Tools for doors

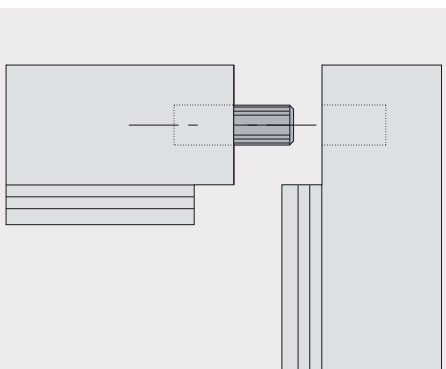
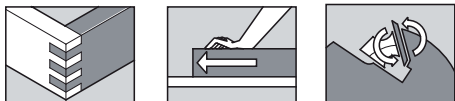
Türenwerkzeuge



Gruppo squadratura porte	B 3120
Jeu de fraises pour le calibrage des portes	5-15
Juego de fresas para la esquadrería de puertas	
Tool set for doors squaring	
Fräsergarnitur für Türenaußenprofil	
Gruppo squadratura porte sagomato	B 3901
Jeu de fraises profilées pour le calibrage des portes	5-16
Juego de fresas perfiladas para la esquadrería de puertas	
Profiled tool set for doors squaring	
Profilierte Fräsergarnitur für Türenaußenprofil	
Portoncino sagomato	B 2961
Porte d'entrée avec moulure	5-17
Portoncito con moldura	
Profiled door	
Profilierte Balkontür	
Confezione ante sagomate Z=2	B 6013
Boîte avec fraises pour panneaux profilés Z=2	5-18
Caja de fresas para paneles perfilados Z=2	
B6013 Tool set box for profiled panels Z=2	
Kästchen mit Fräsergarnitur für profilierte Türen Z=2	
Confezione ante sagomate Z=2 - 3	B 6013
Boîte avec fraises pour panneaux profilés Z=2 - 3	5-20
Caja de fresas para paneles perfilados Z=2 - 3	
B6013 Tool set box for profiled panels Z=2 - 3	
Kästchen mit Fräsergarnitur für profilierte Türen Z=2 - 3	
Gruppo per sede parafreddo	B 3320
Fraise pour le canal "pare-froid"	5-23
Fresa para el canal "para-frío"	
Tool for the slide "cold protection"	
Fräser für die Bearbeitung des "Kälte-Schutz-Kanals"	

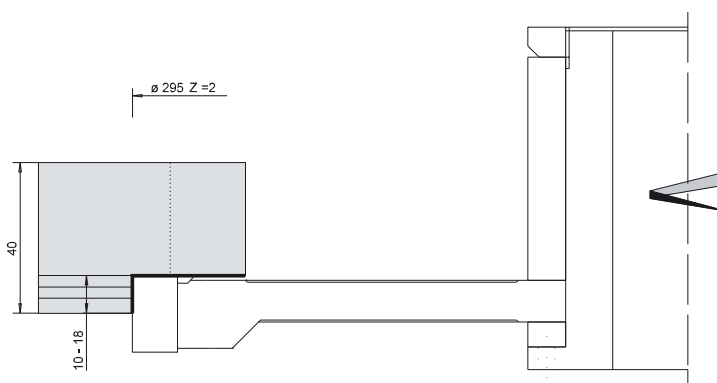
Giunzione per telaio porte a 90°
Aboutages a 90° pour dormants des portes
Ensembles de 90° para marcos de puertas
90° jointing cutter for door frame
90° Verleimfräser für Türblatt

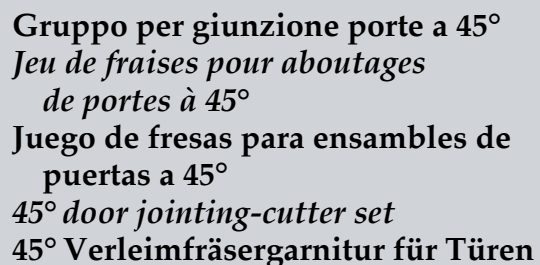
B 4411



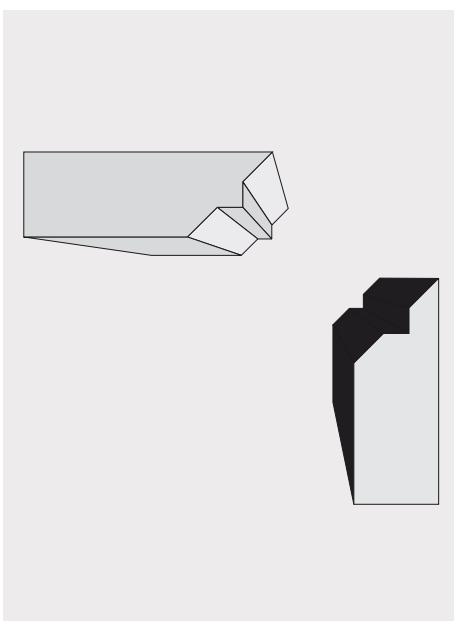
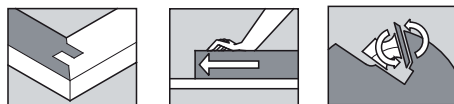
- I** Elemento montato su mozzo per la giunzione a 90° dei telai. Con lo stesso gruppo si intestano sia i montanti che il traverso.
- F** Élément montée sur bague pour aboutage à 90° des dormants. Avec le même jeu on aboute tant les montants que le travers.
- E** Elemento montado sobre manguito para juntar a 90° los marcos. Con el mismo juego se elaboran tanto los montantes como el traverso.
- UK** 90° jointing cutter for door frame mounted on sleeve. With the same tool-set you can joint jambs and cills.
- D** 90° Verleimfräser für Türblatt, auf Büchse. Mit derselben Garnitur kann man beide Rahmen-Konterbearbeitungen ausführen.

ØD	Z	B	Cod. Dx	Cod. Sx	COD. P.
300	2	20	B4411.300C2	B4411.300E2	A 1094
300	3	20	B4411.300C3	B4411.300E3	A 1250





B 4412



❶ Il gruppo per toupie è composto da tre elementi foro diretto. Il gruppo per squadratrice è composto da due elementi montati su mozzo.

F Le jeu de fraises pour toupie est composé de trois éléments, sans manchon. Le jeu de fraises pour moulurière est composé de deux éléments sur manchon.

E El juego de fresas para toupie se compone de tres elementos, sin manguito. El juego de fresas para moldurera se compone de dos elementos sobre manguito.

UK The tool set for toupie is composed of three elements without sleeve. The tool set for moulder machine is composed of two elements on sleeve.

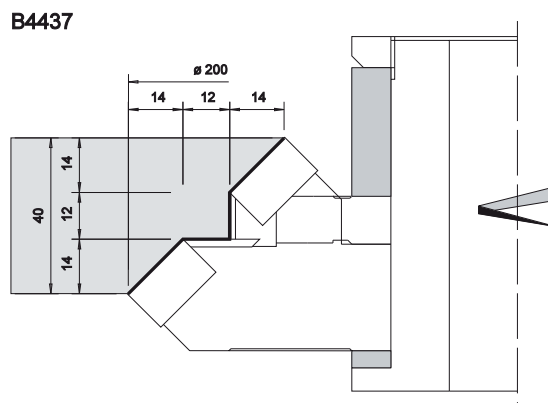
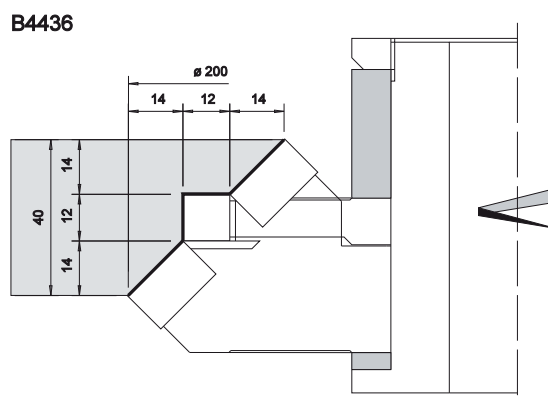
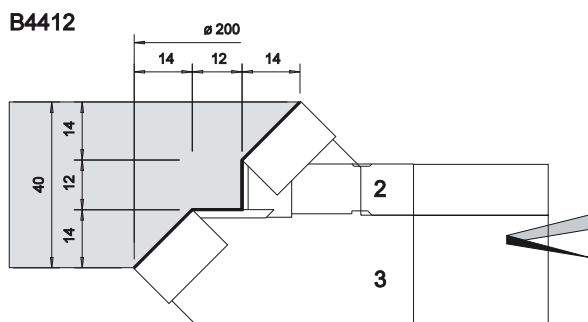
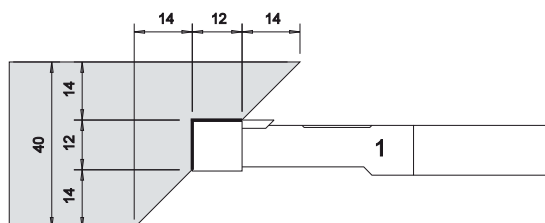
D Die Fräsergarnitur für Tischfräsmaschine besteht aus drei Elementen ohne Büchse. Die Fräsergarnitur für die vierseitige Maschine besteht aus zwei Elementen auf Büchse.

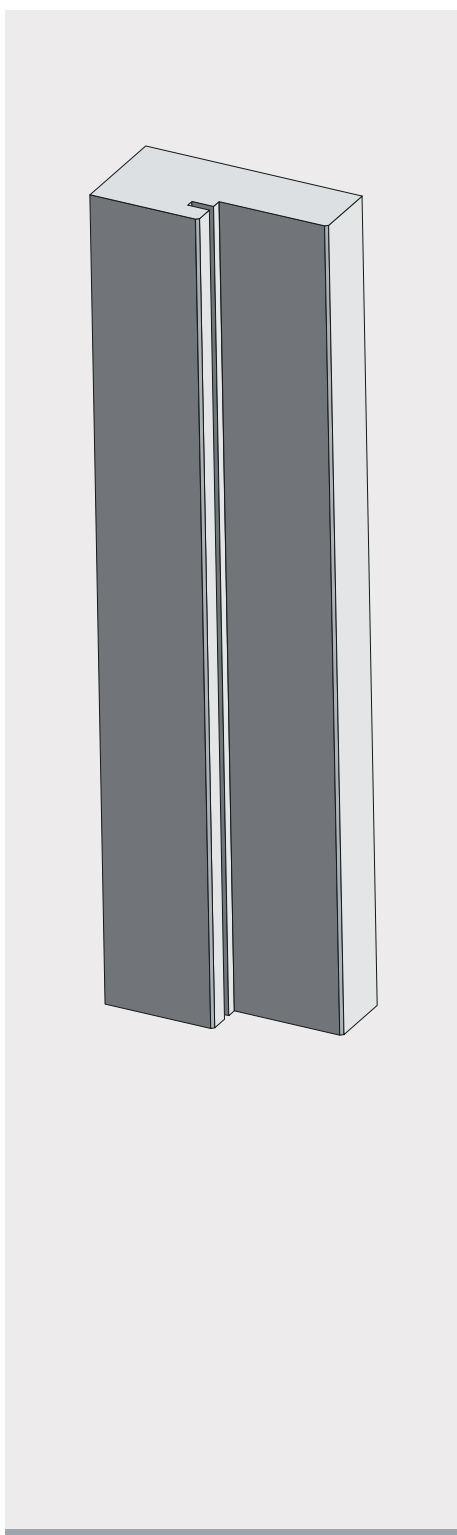
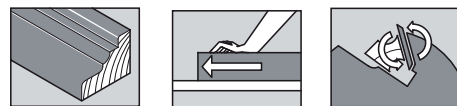
Toupie

ØD	Z	B	Cod. Dx	Cod. Sx	COD. P.
200	4	40	B4412.200C4	B4412.200E4	A 3174
220	4	50	B4412.220C4	B4412.220E4	A 3480

Squadratrice

Profilo	ØD	Z	B	Cod. Dx	Cod. Sx	COD. P.
F	200	4	40	B4436.200C4	B4436.200E4	A 3534
F	220	4	50	B4436.220C4	B4436.220E4	A 3840
M	200	4	40	B4437.200C4	B4437.200E4	A 3534
M	220	4	50	B4437.220C4	B4437.220E4	A 3840





Profilatura telaio per porte **Profilage du châssis de porte** **Perfilado del marco de la puerta** **Cutterhead for door frames** **Messerkopf für Türrahmen**

CB 660



I L'utensile esegue contemporaneamente la profilatura e la sede per guarnizione, con la possibilità di variare le dimensioni delle battute. Corpo in acciaio foro diretto.

F Le porte-outils exécute en même temps le profilage et l'entaillage du logement pour la garniture, avec la possibilité de changer les dimensions des feuillures. Corps en acier, sans manchon.

E La herramienta hace contemporáneamente el perfilado y la ranura para la goma, hay la posibilidad de modificar las dimensiones de los galces. Cuerpo en acero, sin manguito.

UK The tool executes at the same time the profiling and the weather strip groove, and it is possible to change the size of rebates. Steel tool, without sleeve.

D Das Werkzeug führt das Profil und zugleich auch den Sitz für die Dichtung aus, und es ist möglich die Stärke der Fälze zu ändern. Stahl-Ausführung, ohne Büchse.

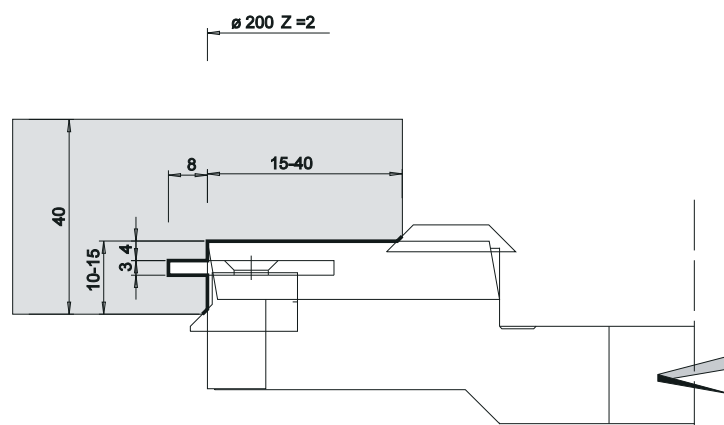
Ø D mm	Z	d max	Cod. Dx	COD. P.
200	4+2	50	CB660.200.4030 ▲	A 2998

▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio

B	Cod.	COD. P.
30x12	F0.30.12.15 ●	B 880
57x12	F1.570.10.1	B 292
3x16	F5.30.19.03	B 648
45°	F4.45.43.04	B 582
45° R	F4.45.47.02	B 704

● confezione da 10 pezzi





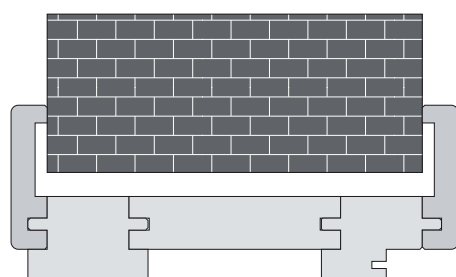
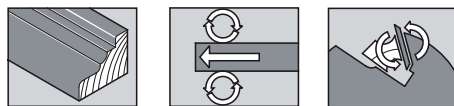
Gruppi per telaio porte registrabile
Jeu de fraises extensible pour châssis de portes

Juego de fresas extensible para el marco de puertas

Adjustable tool set for door frames

Verstellbare Fräsergarnitur für Türrahmen

B21-21-27



I Il telaio può essere pre-assemblato. La mostrina esterna è registrabile. Ampia possibilità di larghezze. Guarnizione di tenuta.

F Le châssis peut être pré-assemblé. L'écusson extérieur est extensible. Plusieurs possibilités de largeur. Bourrelet.

E El marco puede ser pre-ensamblado. La muestrita es extensible. Hay varias posibilidades de ancho. Goma para-agua.

UK The frame can be assembled in advance. The tab is adjustable. Various possibilities of width. Waterproof rubber gasket.

D Der Rahmen kann im voraus montiert werden. Verstellbare Deckleiste. Mehrere Breite-Kombinationen. Wasserdichtung.

B 2105 Profilatura esterna telaio

Ø D	z	Cod.Dx	Cod. Sx	COD. P.
125	2	B2105.125C2	B2105.125E2	A 2690
130	2	B2105.130C2	B2105.130E2	A 2720
130	4	B2105.130C4	B2105.130E4	A 3526

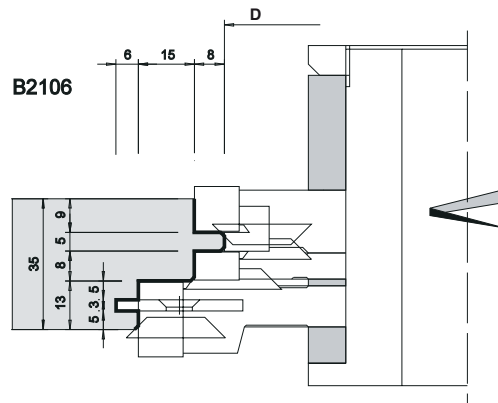
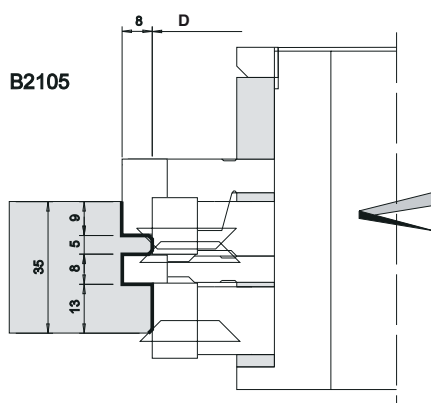
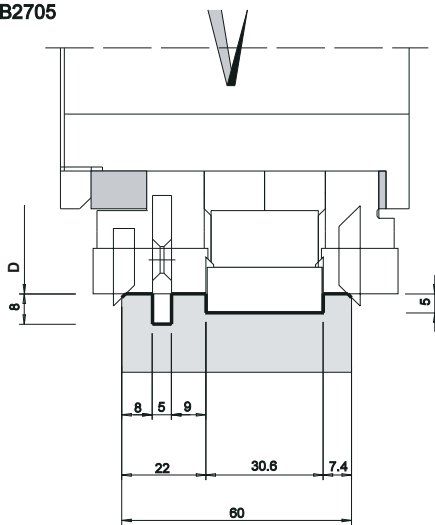
B 2106 Profilatura interna telaio

Ø D	z	Cod.Dx	Cod. Sx	COD. P.
125	2	B2106.125C2	B2106.125E2	A 3014
130	2	B2106.130C2	B2106.130E2	A 3066
130	4	B2106.130C4	B2106.130E4	A 4100

B 2705 Profilatura mostrina

Ø D	z	Cod.Dx	Cod. Sx	COD. P.
125	2	B2705.125C2	B2705.125E2	A 2482
130	2	B2705.130C2	B2705.130E2	A 2558
130	4	B2705.130C4	B2705.130E4	A 3264

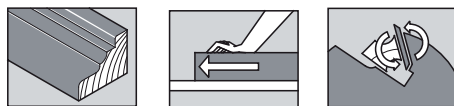
B2705





Cassetta componibile per telai porte
Boîte avec fraises par éléments pour
châssis de portes
Caja con fresas componibles para marco
de puertas
Sectional door-frame tool set box
Kästchen mit zusammensetzbaren
Fräsern für Türrahmen

B 6302



I Cassetta composta da quattro elementi combinabili fra loro, foro diretto. Il telaio può essere pre-assemblato. La mostrina esterna è registrabile. Ampia possibilità di larghezza.

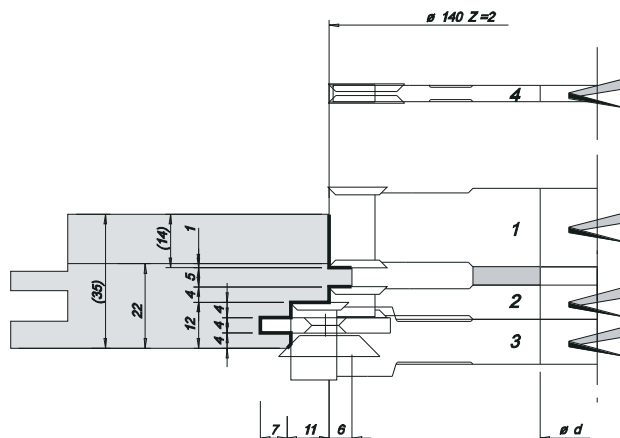
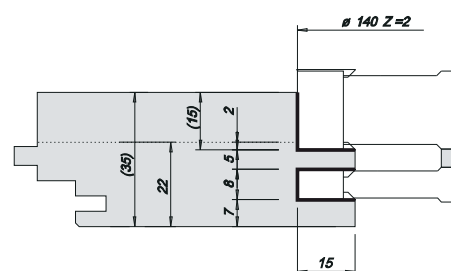
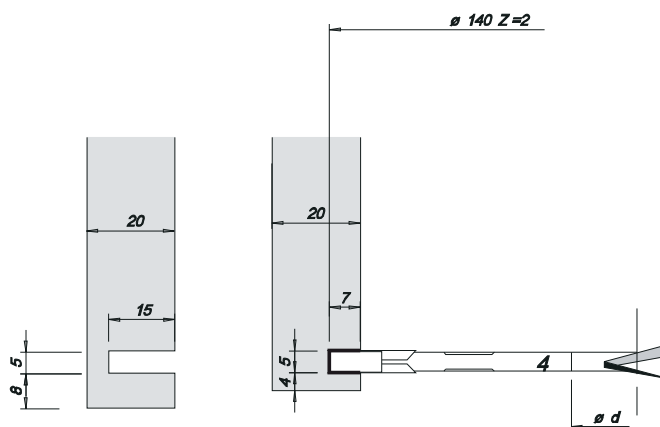
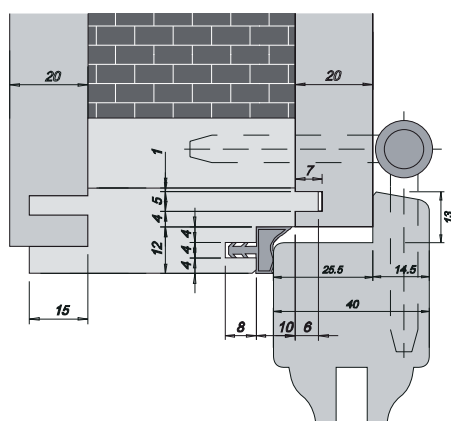
F Boîte composée de quatre fraises par éléments sans manchon. Le châssis peut être pré-assemblé. L'écusson extérieur est extensible. Plusieurs possibilités de largeur.

E La caja se compone de cuatro fresas componibles sin manguito. El marco puede ser pre-ensamblado. La muestrita es extensible. Hay varias posibilidades de ancho.

UK The box is composed of four sectional tools, without sleeve. The frame can be assembled in advance. The tab is adjustable. Various possibilities of width.

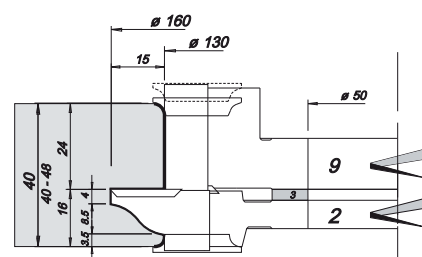
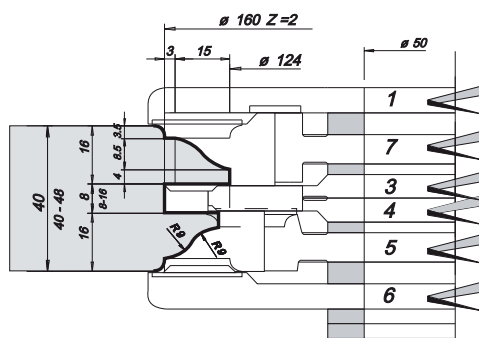
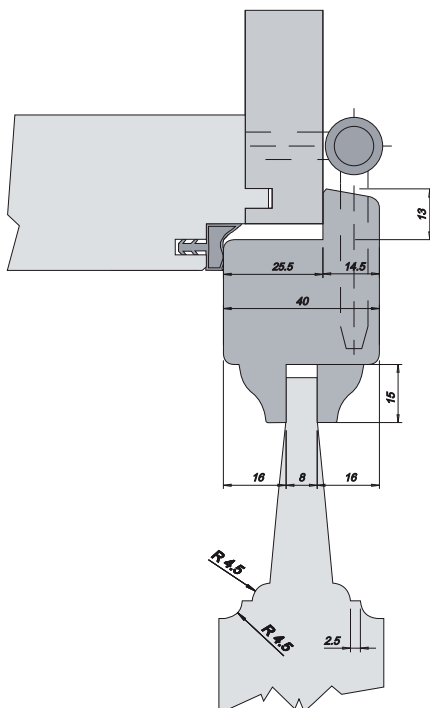
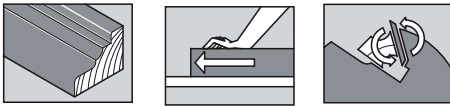
D Das Kästchen besteht aus vier zusammensetzbaren Fräsern, ohne Büchse. Der Rahmen kann im voraus montiert werden. Verstellbare Deckleiste. Mehrere Breite-Kombinationen.

D	Z	d max	Cod.	COD. P.
140	2	50	B6302	A 3296



Confezione componibile per porte
Boîte avec fraises par éléments pour portes
Caja de fresas componibles para puertas
Sectional doors tool set box
Kästchen mit zusammensetzbaren Fräsern für Türen

B 6303



I Composta da dieci utensili foro diretto combinabili fra loro per spessore legno 40 mm e 48 mm, sagomato con listello fisso e recuperato

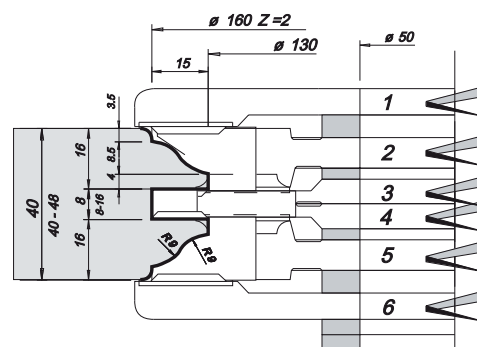
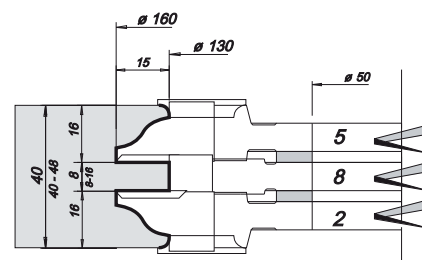
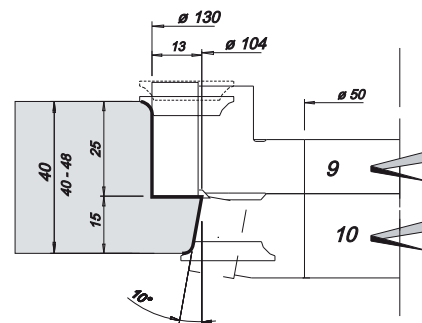
F Boîte composée de dix porte-outils par éléments, sans manchon pour bois avec épaisseur 40 et 48 mm, profilé avec pare-close fixe et récupération de la même

E La caja se compone de diez elementos componibles sin manguito para espesor de madera perfilada 40 y 48 mm con junquillo fijo y diviso

UK The box is composed by ten sectional elements without sleeve for profiled wood thicknesses 40 and 48 mm, with fixed and cut glazing bead

D Das Kästchen besteht aus zehn zusammensetzbaren Elementen, ohne Büchse für profilierte Holzstärke 40 und 48 mit feststehender und getrennter Glasleiste

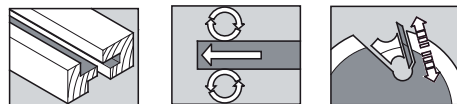
D	B	d	Z	Cod.	COD. P.
130	40 - 48	35 / 40	2	B6303	A 8132





Gruppi per porte "double"
Jeu de fraises pour portes "doubles"
Juego de fresas para puertas "double"
Tool set for "double" doors
Fräsergarnitur für "double"-Türen

B 2925



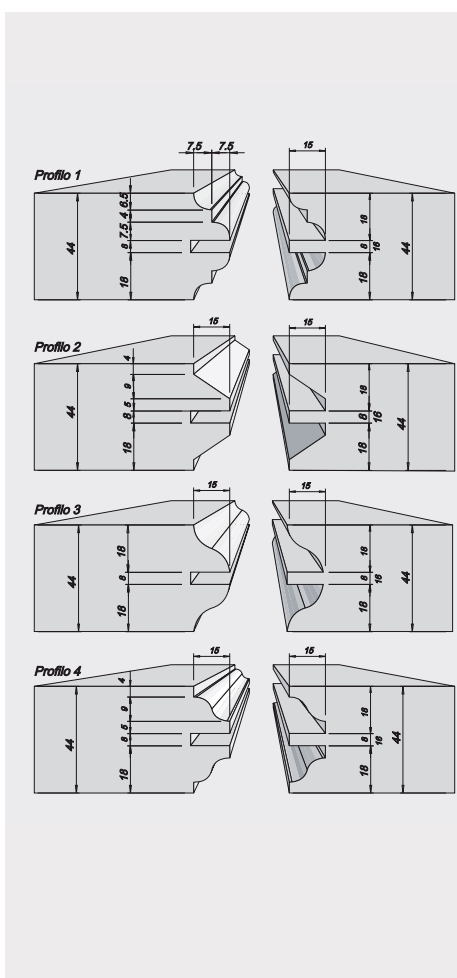
I Gruppi frese composti da tre elementi montati su mozzo. Per eseguire profili e controprofili di porte sagomate. I profili sono intercambiabili mediante la sostituzione degli inserti. Il gruppo viene fornito, salvo diversa specifica, con il profilo N°4.

F Jeu de fraises composé par trois éléments montés sur manchon. Pour exécuter profils et contreprofils de portes profilées. Les profils sont interchangeables grâce au remplacement des plaquettes. Sauf autres indication, le jeu est prévu avec le profil no. 4

E El juego de fresas se compone de tres elementos montados sobre mango. Su función es la de trabajar las molduras y contramolduras de puertas perfiladas. Los perfiles se pueden cambiar reemplazando las cuchillas. Salvo otra indicación el juego se ofrece con el perfil no. 4.

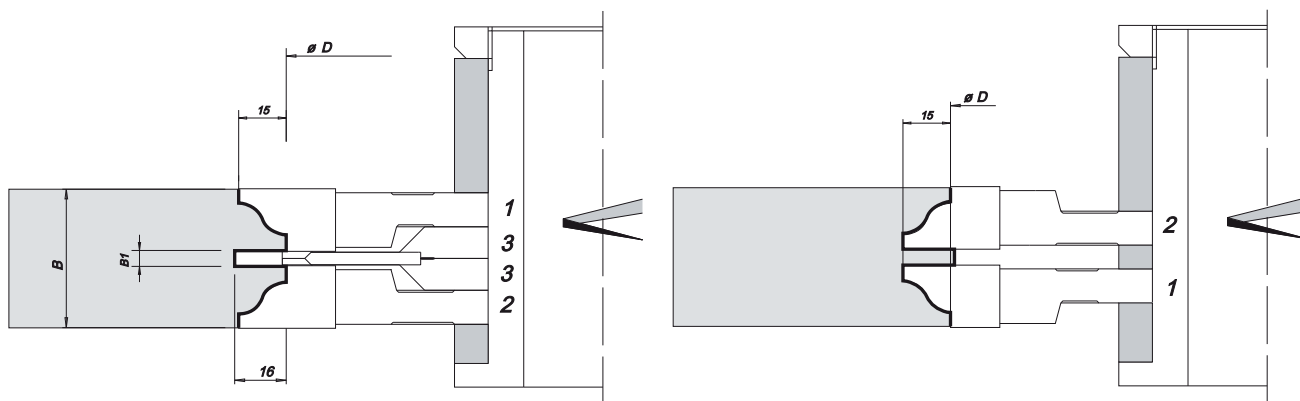
UK The tool set is composed by three elements on a sleeve. They execute the profile and the counterprofile of profiled doors. The profiles are interchangeable thanks to the substitution of the knives. Unless other indications, the tool set is supplied with profile no. 4

D Die Fräsergarnitur besteht aus drei Elementen auf Büchse. Zur Bearbeitung des Profils und Konterprofils der profilierten Türen. Die Profile sind auswechselbar. Wenn nicht anders angegeben, wird die Garnitur mit Profil Nr. 4 geliefert



D	B	B 1	Z	Cod.	COD. P.
130	40 - 44	4 - 8	2	B2925.130C5	A 2578
130	44 - 48	8 - 16	2	B2925.130C6	A 2180
130	40 - 44	4 - 8	4	B2925.130C7	A 3158
130	44 - 48	8 - 16	4	B2925.130C8	A 2736
160	40 - 44	4 - 8	4	B2925.160C3	A 3720
160	44 - 48	8 - 16	4	B2925.160C4	A 3350

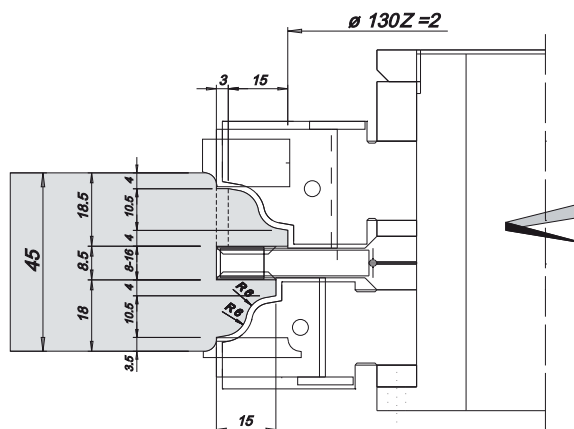
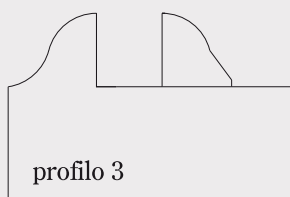
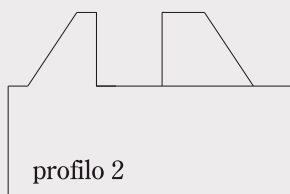
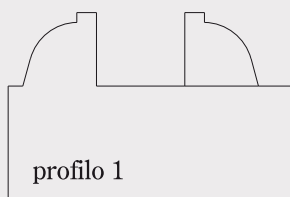
B	Cod.	COD. P.
Prof. 1	F2.20.1035	B 740
	F2.20.1036	B 740
Prof. 2	F2.20.1037	B 740
	F2.20.1038	B 740
Prof. 3	F2.20.1039	B 740
	F2.20.1040	B 740
Prof. 4	F2.20.1041	B 740
	F2.20.1042	B 740



B 2962

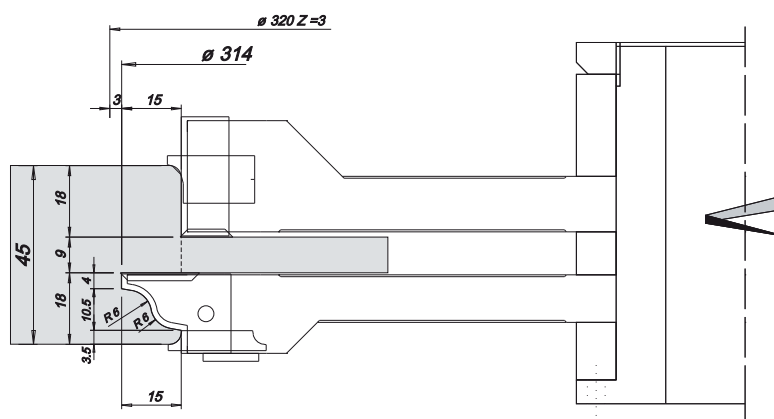


I A richiesta F Sur demande
 E Bajo pedido UK On request
 D Auf Wunsch



I Profilatura interna F Profilage intérieur
E Perfilado interior UK Internal profile D Innenprofil

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
130	2	B2962.130C2	B2962.130E2	A 3130
130	4	B2962.130C4	B2962.130E4	A 4432
160	4	B2962.160C4	B2962.160E4	A 4940



I	Tenonatura traversi	F	Contreprofilage des travers
E	Contramoldura de los travesaños	UK	Jamb tenoning
D	Rahmen-Schlitze		

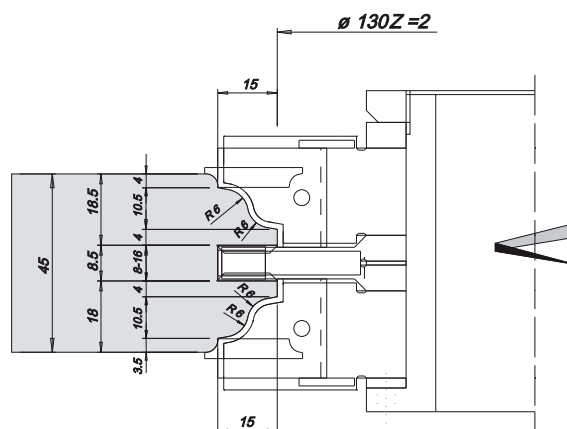
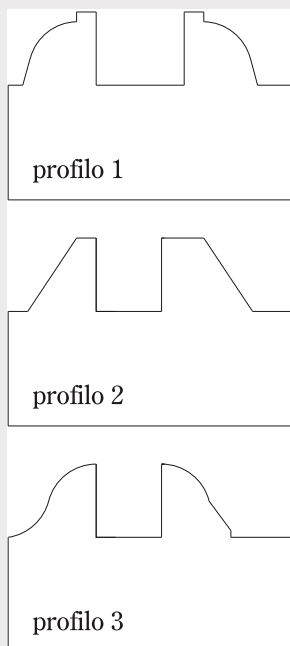
Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
320	2	B1904.320C2	B1904.320E2	A 2956
320	3	B1904.320C3	B1904.320E3	A 3806

Porta sagomata
Porte profilée
Puerta con moldura
Profiled door
Profilierte Tür

B 2963

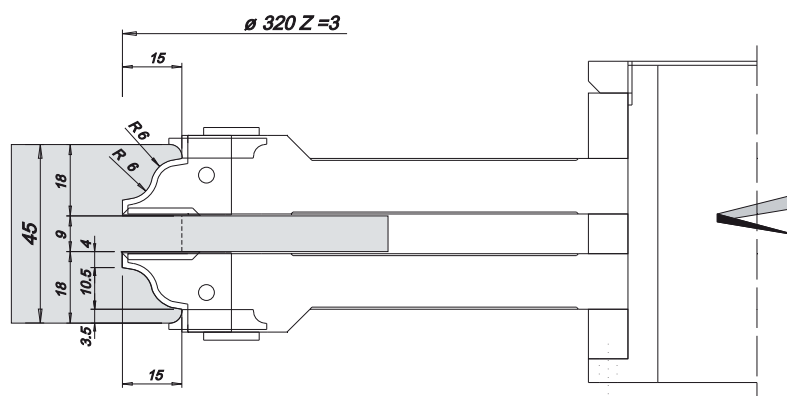


I A richiesta F Sur demande
E Bajo pedido UK On request
D Auf Wunsch



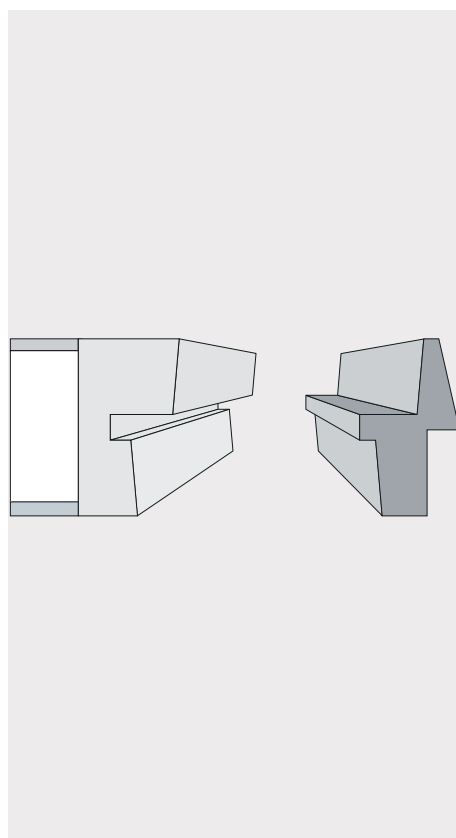
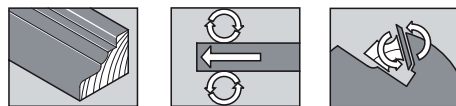
I Profilatura interna F Profilage intérieur
E Perfilado interior UK Internal profile D Innenprofil

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
130	2	B2963.130C2	B2963.130E2	A 3130
130	4	B2963.130C4	B2963.130E4	A 4432
160	4	B2963.160C4	B2963.160E4	A 4940



I Tenonatura traversi F Contreprofilage des travers
E Contramoldura de los travesaños UK Jamb tenoning
D Rahmen-Schlitz

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
320	2	B1905.320C2	B1905.320E2	A 3246
320	3	B1905.320C3	B1905.320E3	A 4224



Fresa per masselli porte *Jeu de fraises pour portes avec listel de bois*

Juego de fresas para puertas con barra *Cutter set for doors with wooden lath* Fräsergarnitur für Türen mit Holzleiste

B 2850



I La fornitura comprende i 3 elementi e il distanziale per eseguire la controprofilatura. La particolare costruzione degli utensili permette di lavorare spessori da 20 mm a 60 mm.

F La fourniture comprend trois fraises et la bague d'écartement pour exécuter le contreprofilage. La conformation particulière des porte-outils permet l'usinage du bois avec épaisseur de 20 à 60mm.

E El juego se compone de tres fresas y de un anillo intermedio para hacer la contramoldura. La conformación particular de los cabezales permite el trabajo de maderas con espesor de 20 a 60mm.

UK The set is composed of three tools and the spacer ring in order to execute the counterprofile. The particular structure of the tools permits the workmanship of woods with thicknesses from 20 to 60mm.

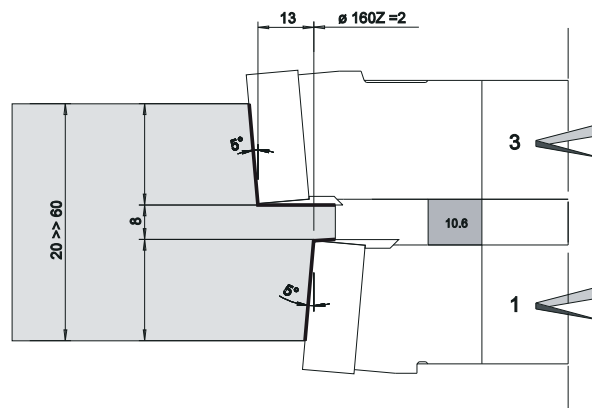
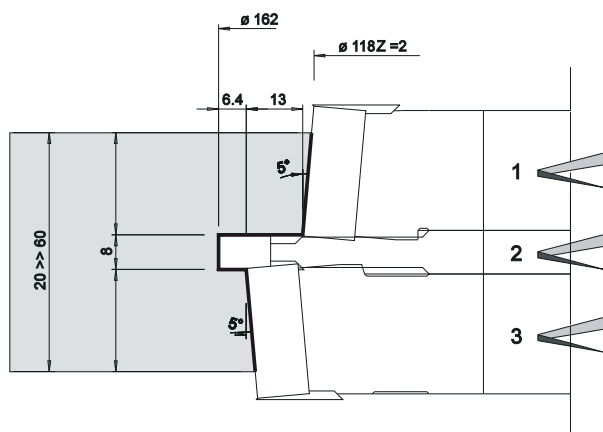
D Die Garnitur besteht aus drei Fräsern und einem Distanzring, um das Konterprofil zu bearbeiten. Die spezielle Form der Werkzeuge gestattet die Bearbeitung vom Holz mit 20 bis 60mm Stärke.

D	B	d	Z	Cod.	COD. P.
160	20/60	30/35	2	B2850.160C2	A 1682

Coltelli di ricambio

B	Cod.	COD. P.
30x12x1,5	F0.30.12.15 ●	B 880
7,5x12x1,5	F0.75.12.15 ●	B 860
14x14x2	F3.14.20.20 ●	B 1800

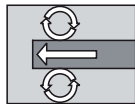
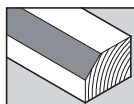
● confezione da 10 pezzi





Gruppi a smussare registrabili
Jeu de fraises à chanfrainer extensibles
Juego de fresas para cantear extensibles
Adjustable jointing and rounding
cutterhead
Verstellbarer Fräser zum Abkanten

B 2910



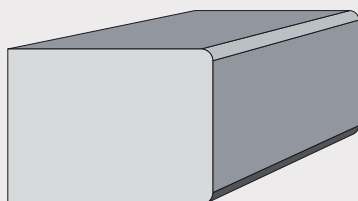
I Gruppo frese composto da tre elementi registrabili mediante anelli. Sono forniti con il raggio 3 mm a richiesta vengono forniti con raggio 1,5 mm o spigolatori 2x2x45°.

F Jeu de fraises composé par trois éléments extensibles grâce aux bagues d'écartement. Ils sont vendus avec rayon 3mm, sur demande avec rayon 1,5 mm ou plaquettes à chanfrainer 2x2x45°.

E El juego de fresas se compone de tres elementos extensibles con anillos intermedios. Los juegos se ofrecen con el radio 3mm, bajo pedido con radio 1,5 mm o cuchillas para cantear 2x2x45°.

UK The set is composed of three tools, which are adjustable thanks to spacer rings. The tool sets are supplied with radius 3mm, on request with radius 1,5 mm or with chamfering knives 2x2x45°.

D Die Garnitur besteht aus drei Werkzeugen, die durch Distanzringe verstellbar sind. Die Garnitur wird mit Radius 3mm geliefert, auf Wunsch mit Radius 1,5 mm oder mit Kantenbrechern 2x2x45°.

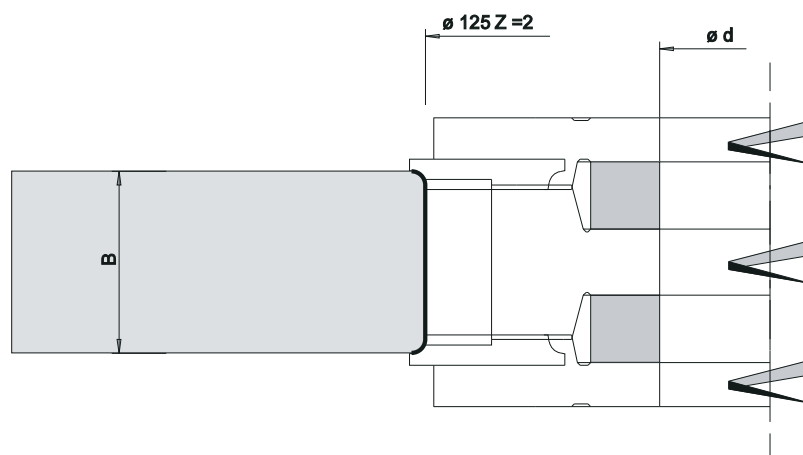


Ø D	B	Ø d max	Z	Cod.	COD. P.
125	10 - 33	40	2	B2910.125C1	A 1700
	30 - 53	40	2	B2910.125C2	A 1890
	40 - 63	40	2	B2910.125C3	A 1980
130	10 - 33	50	3	B2910.130C1	A 2382
	30 - 53	50	3	B2910.130C2	A 2616
	40 - 63	50	3	B2910.130C3	A 2728
160	10 - 33	50	4	B2910.160C1	A 3198
	30 - 53	50	4	B2910.160C2	A 3514
	40 - 63	50	4	B2910.160C3	A 3670

Inserti di ricambio

R	Cod.	COD. P.
30x12	F0.30.12.15 ●	B 880
50x12	F0.50.12.15 ●	B 1220
60x12	F0.60.12.15 ●	B 2120
r 3	F4.30.53.01	B 686

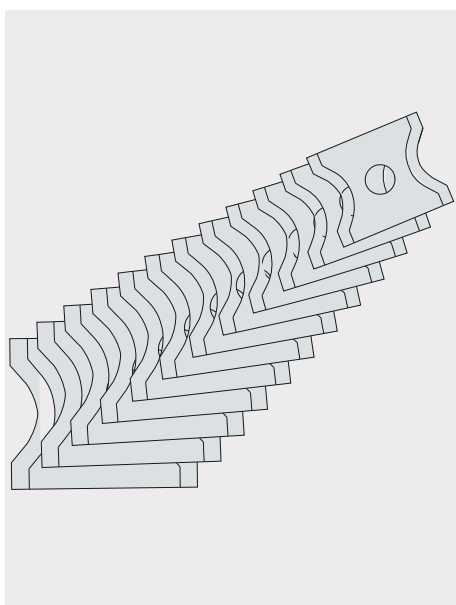
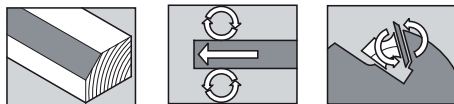
● confezione da 10 pezzi





Gruppi a smussare per porte
Jeu de porte-outils à arrondir et à
chanfrainer pour portes
Juego de fresas para chanflanar y
redondear puertas
Door jointing, chamfering and rounding
cutterheads
Fräsergarnitur zum Türen-Abkanten
und -Abrunden

CN004



I Elementi singoli per raggiare spigolare e spianare completi di distanziali. Possono essere usati singolarmente o composti fra di loro. Ogni elemento raggiatore viene fornito, salvo diversa specifica, con il raggio evidenziato.

F Fraises individuelles à arrondir et à chanfrainer avec bagues d'écartement. Elles peuvent être utilisées individuellement ou composées. Chaque plaquette à chanfrainer est fournie, sauf autres indications, avec le rayon mis en évidence.

E Fresas para chanflanar y redondear con anillos intermedios. Pueden utilizarlas singolarmente o juntas. Salvo otra indicación las cuchillas para cantear son ofrecidas con el radio indicado.

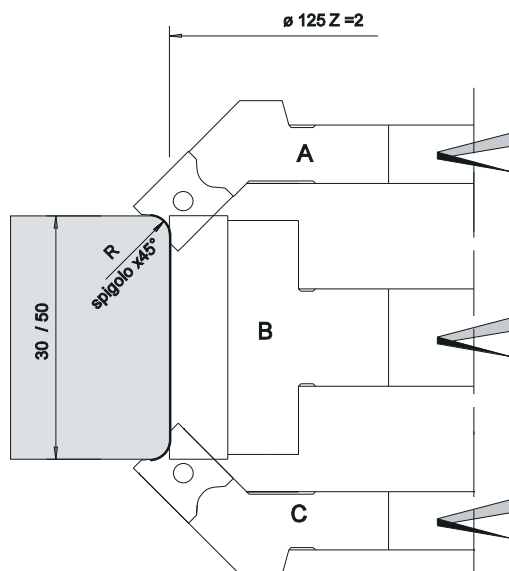
UK Single chamfering and rounding cutterheads with spacer rings. They can be used separately or together. Unless other instructions, the chamfering knives are supplied with the radius as pointed out.

D Einzelne Werkzeuge zum Abkanten und Abrunden mit Distanzringen. Sie können einzeln oder zusammen benutzt werden. Jeder Kantenbrecher wird, wenn nicht anders angegeben, mit dem hervorgehobenen Radius verkauft.

A	Ø D	R	Z	Ø d max	Cod.	COD. P.
	125	2 - 3 - 4	2	50	CN004.125.2020	A 622
	125	5 - 6 - 7 - 8	2	50	CN004.125.2050	A 630
	125	9 - 10 - 11 - 12	2	50	CN004.125.2090	A 640
	125	12x12 45°	2	50	CN005.125.2120	A 592

B	Ø D	B	Z	Ø d max	Cod.	COD. P.
	125	30	2	50	CR625.125.2300	A 516
	125	50	2	50	CR625.125.2500	A 734

C	Ø D	R	Z	Ø d max	Cod.	COD. P.
	125	2 - 3 - 4	2	50	CN004.125.2021	A 622
	125	5 - 6 - 7 - 8	2	50	CN004.125.2051	A 630
	125	9 - 10 - 11 - 12	2	50	CN004.125.2091	A 640
	125	12x12 45°	2	50	CN005.125.2121	A 592



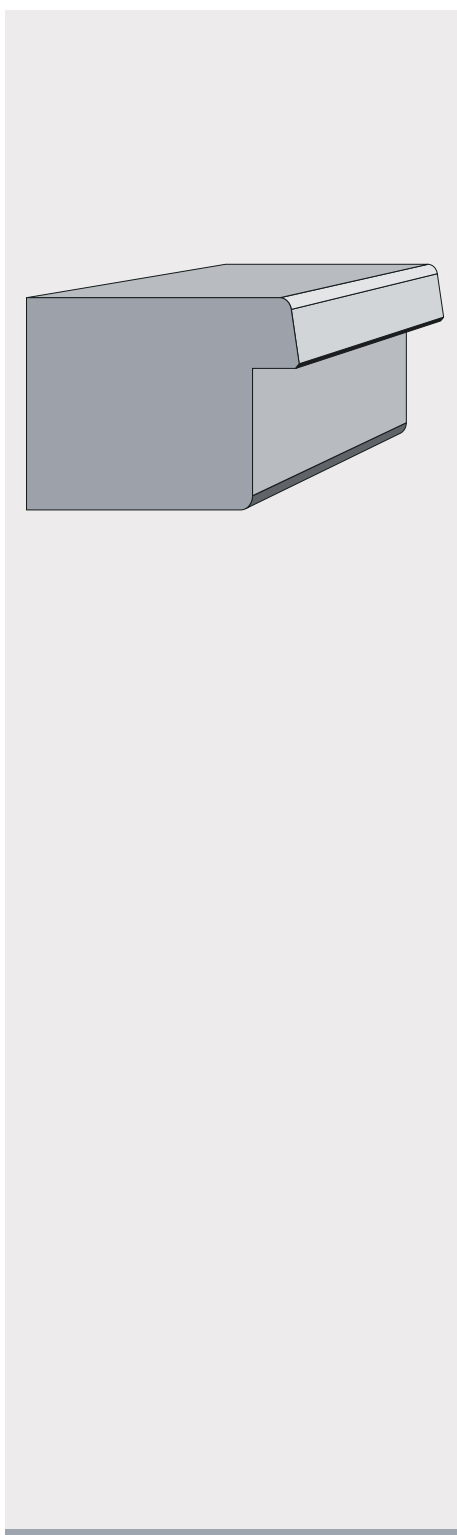
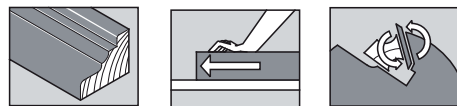
Inserti di ricambio

R	Cod.	COD. P.
2	F2.13.1011	B 616
3	F2.13.1012	B 616
4	F2.13.1013	B 616
5	F2.20.1014	B 646
6	F2.20.1015	B 646
7	F2.20.1016	B 646
8	F2.20.1017	B 646
9	F2.26.1018	B 712
10	F2.26.1019	B 712
11	F2.26.1020	B 712

Inserti di ricambio

R	Cod.	COD. P.
12	F2.26.1021	B 712
45°	F0.12.12.15 ●	B 860
30x12	F0.30.12.15 ●	B 880
50x12	F0.50.12.15 ●	B 1220

● confezione da 10 pezzi



Gruppo squadratura porte
Jeu de fraises pour le calibrage des portes
Juego de fresas para la esquadrería
 de puertas
Tool set for doors squaring
Fräsergarnitur für Türenaußenprofil

B 3120



- I Gruppo per squadratura porte montato su mozzo.
- F Jeu de fraises pour le calibrage des portes, montées sur manchon.
- E Juego de fresas para la esquadrería de puertas, montadas sobre mango.
- UK Tool set for doors squaring on sleeve.
- D Fräsergarnitur für Türenaußenprofil, auf Büchse.

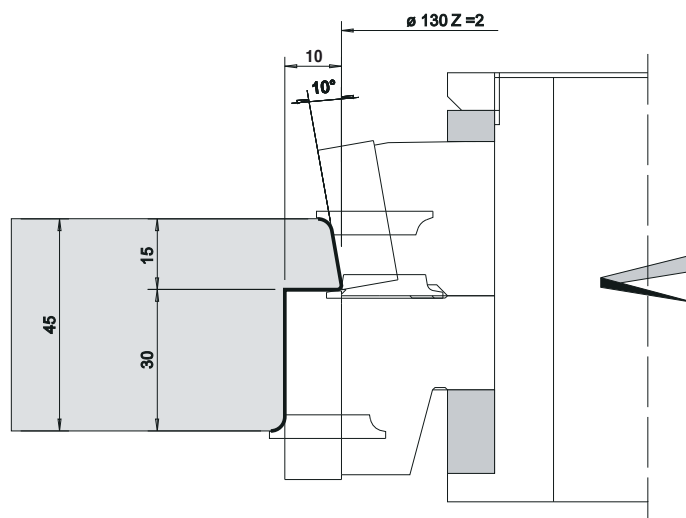
Ø D mm	Z	d max	Cod. Dx	Cod. Sx	COD. P.
130	2	50	B3120.130C2 ▲	B3120.130E2	A 2352
130	4	50	B3120.130C4	B3120.130E4	A 2960
160	4	50	B3120.160C4	B3120.160E4	A 3188

▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio

B	Cod.	COD. P.
30x12	F0.30.12.15 ●	B 880
40x12	F0.40.12.15 ●	B 1260
14x14	F3.14.20.20 ●	B 1800
R 3	F4.30.53.01	B 686
R 1,5	F4.15.53.01	B 686
R 3 10°	F4.30.63.01	B 686

● confezione da 10 pezzi





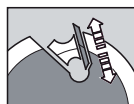
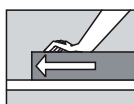
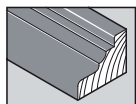
Gruppo squadratura porte sagomato
Jeu de fraises profilées pour le calibrage
des portes

Juego de fresas perfiladas para la
esquadrería de puertas

Profiled tool set for doors squaring

Profilierte Fräsergarnitur
für Türenaußenprofil

B 3901



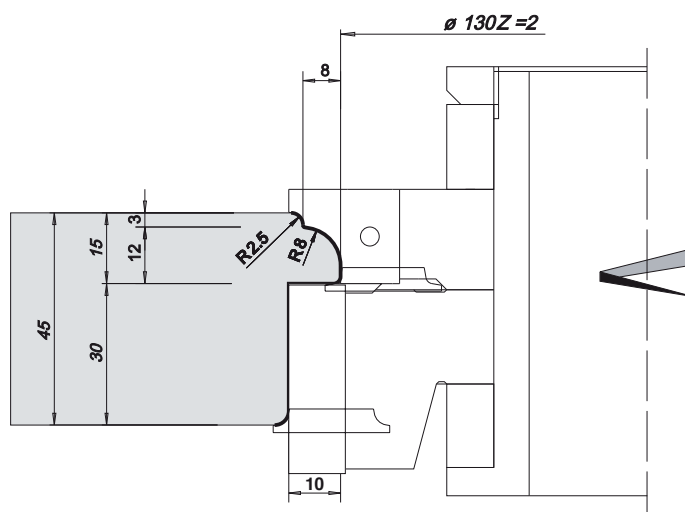
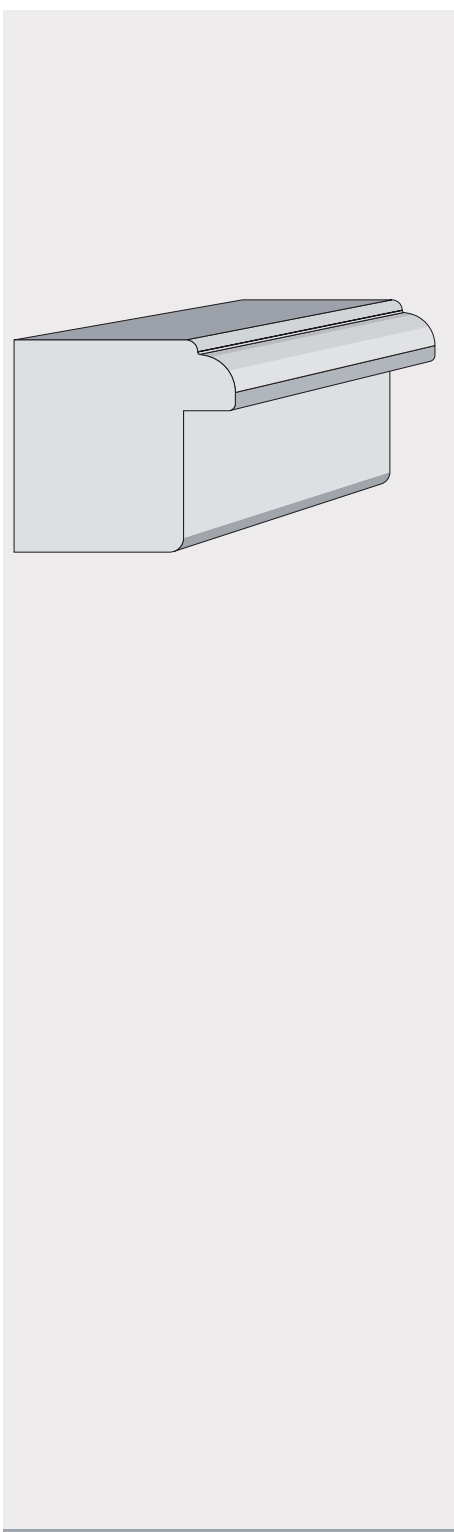
- I Gruppo per squadratura porte montato su mozzo.
- F Jeu de fraises pour le calibrage des portes, montées sur manchon.
- E Juego de fresas para la esquadrería de puertas, montadas sobre man-guito.
- UK Tool set for doors squaring on sleeve.
- D Fräsergarnitur für Türenaußenprofil, auf Büchse.

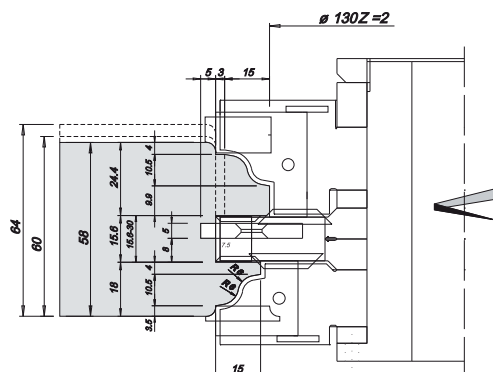
Ø D mm	Z	d max	Cod. Dx	Cod. Sx	COD. P.
130	2	50	B3901.130C2	B3901.130E2	A 2352
130	4	50	B3901.130C4	B3901.130E4	A 2960
160	4	50	B3901.160C4	B3901.160E4	A 3188

Inserti di ricambio

B	Cod.	COD. P.
20x23	F2.20.1363	B 786
40x12	F0.40.12.15 ●	B 1260
14x14	F3.14.20.20 ●	B 1800
R 3	F4.30.53.01	B 686
R 1,5	F4.15.53.01	B 686

- confezione da 10 pezzi

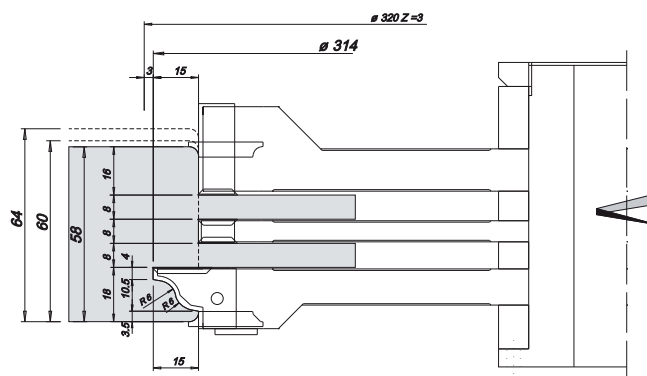
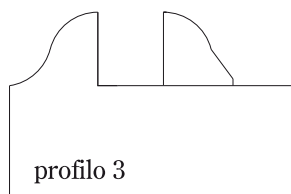
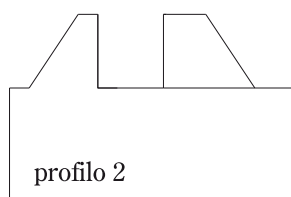
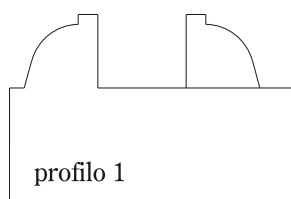




I Profilatura interna F Profilage intérieur
E Perfilado interior UK Internal profile D Innenprofil

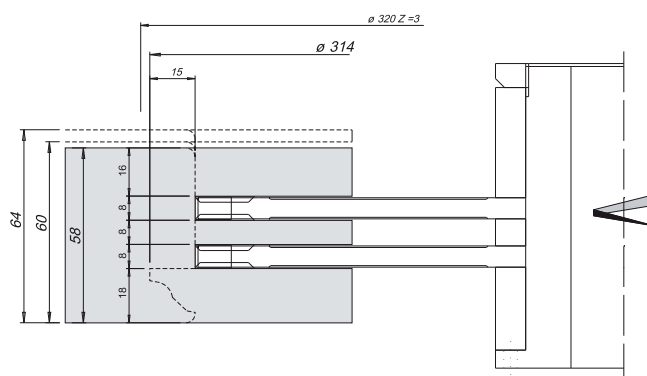
Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
130	2	B2961.130C2	B2961.130E2	A 4392
130	4	B2961.130C4	B2961.130E4	A 5622
160	4	B2961.160C4	B2961.160E4	A 5816

I A richiesta F Sur demande
 E Bajo pedido UK On request
 D Auf Wunsch



I	Tenonatura traversi	F	Contreprofilage des travers
E	Contramoldura de los travesaños	UK	Jamb tenoning
D	Rahmen-Schlitze		

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
320	2	B1903.320C2	B1903.320E2	A 3560
320	3	B1903.320C3	B1903.320E3	A 4546



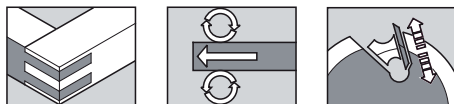
I Tenonatura montanti **F** Contreprofilage des montants
E Contramoldura de los montantes **UK** Slotting
D Rahmen-Zapfen

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
320	2	B1501.320C2	B1501.320E2	A 1240
320	3	B1501.320C3	B1501.320E3	A 1608



Confezione ante sagomate Z=2
Boîte avec fraises pour panneaux profilés
Z=2
Caja de fresas para paneles perfilados
Z=2
B6013 Tool set box for profiled panels
Z=2
Kästchen mit Fräsergarnitur für
profilierte Türen Z=2

B 6013



I Set di frese composto da dieci elementi e due canotti per eseguire la profilatura e il tenone maschio dell'anta sagomata. È possibile scegliere tra 6 diversi tipi di profilo sagomato, il profilo standard è il N°2.

B6013.000.03 con spigolatori per fughe.

B6013.000.04 senza spigolatori per fughe.

Le varie combinazioni possibili permettono di ottenere: anta sagomata spessore 45 mm, con spina singola, 55 mm e 63 mm, con spina doppia. Vetro da 4 mm ad infilare o con listello mobile. Incastro variabile da 8 a 16mm per il listello mobile.

F Jeu de fraises composé par dix éléments et deux manchons pour exécuter le profilage et le tenon du panneau profilé. On peut choisir parmi 6 différents types de profil, celui standard est le nr.2.

B6013.000.03 avec chanfreins.

B6013.000.04 sans chanfreins.

Plusieurs combinaisons permettent d'obtenir: panneau profilé épaisseur 45 mm avec tenon simple, épaisseur 55 mm et 63 mm avec double tenon. Verre 4 mm d'épaisseur à enfiler ou avec pare-close récupérée. Entaille variable de 8 à 16mm.

E El juego de fresas se compone de diez elementos y dos manguitos para hacer la moldura y la espiga del panel perfilado. Pueden elegir entre 6 distintos tipos de perfil, aquél estándar es el núm.2.

B6013.000.03 con matacantos.

B6013.000.04 sin matacantos.

Distintas combinaciones permiten obtener: moldura panel espesor 45 mm con espiga única; espesor 55 mm y 63 mm con espiga doble. Cristal de espesor 4 mm a enfilar o con junquillo diviso. Encaje variable de 8 a 16mm.

UK The tool set is composed by ten elements and two sleeves, in order to execute the profiling and the tenon of the profiled panel. You can choose among 6 kinds of profile, the standard one is the nr.2.

B6013.000.03 with chamfering knives.

B6013.000.04 without chamfering knives.

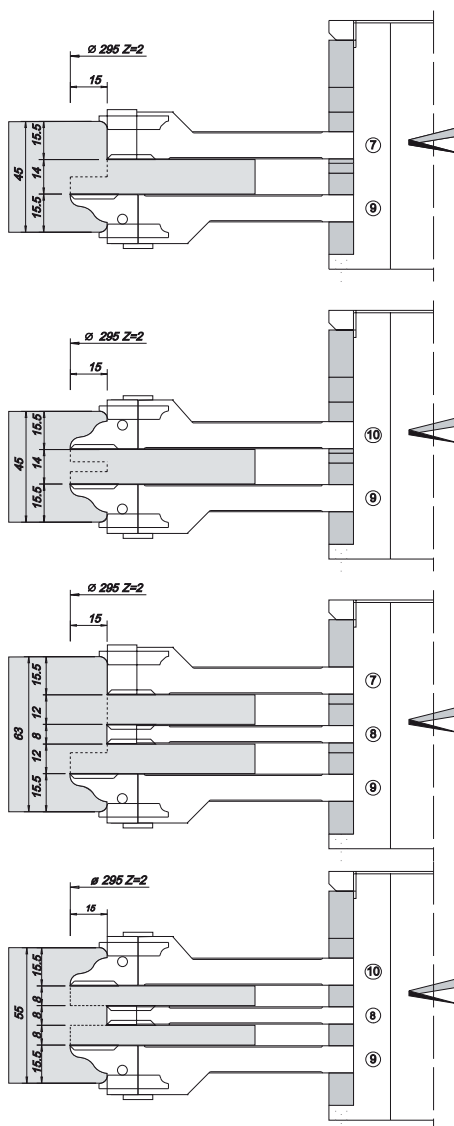
Lots of combinations permit to obtain: profiled panel, thickness 45 -> single tenon, thickness 55 - 63 mm -> double tenon. 4 mm thickness glass to thread or with glazing bead recovery. With 8 to 16mm adjustable groove.

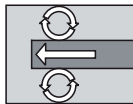
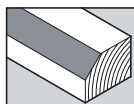
D Die Fräsergarnitur besteht aus zehn Elementen und zwei Büchsen, um sowohl das Profil als auch den Zapfen des profilierten Paneels zu bearbeiten. Es gibt 6 verschiedene Profil-Möglichkeiten. Das Standard-Profil ist Nr. 2.

B6013.000.03 mit Kantenbrechern.

B6013.000.04 ohne Kantenbrecher.

Verschiedene Kombinationen gestatten die Ausführung von profiliertem Paneel - Stärke 45 -> Einzelzapfen, Stärke 55 -63> Doppelzapfen. 4mm dickes Glas zum Stecken oder mit getrennter Glasleiste, 8-16mm verstellbarer Einschnitt.





ØD	Z	B	Cod.	COD. P.
130 / 300	2 / 2	44 / 55 / 63	B6013.000.03	A 9635
130 / 300	2 / 2	44 / 55 / 63	B6013.000.04	A 7512

B6013.000.03 con spigolatori

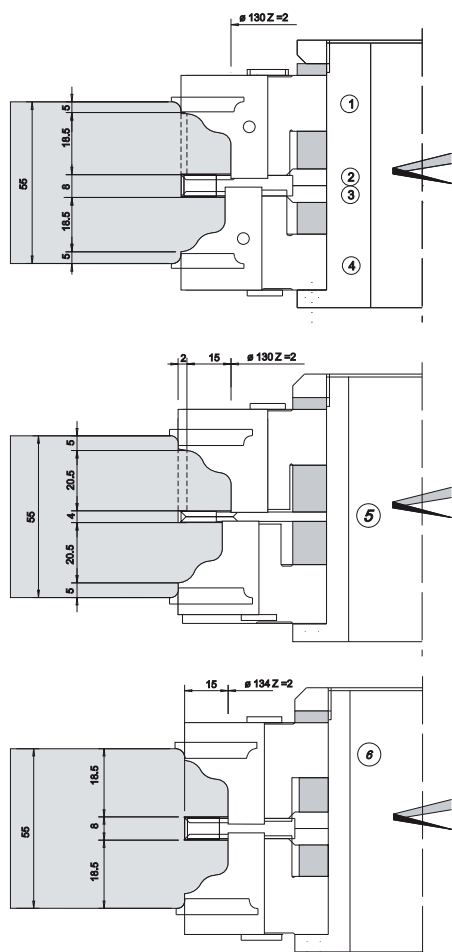
N°	Z	ØD	Cod.	COD. P.
1	2	130	C164.35D6.2007	A 1110
2	2	130	C164.08A0.2001	A 391
3	2	130	C164.08A0.2002	A 391
4	2	130	C164.35D6.2008	A 1110
5	2	130	C164.04D0.L001	A 376
6	2	130	C164.35D6.2009	A 1110
7	2	300	C265.20C0.2001	A 1139
8	2	300	C265.08C0.2001	A 544
9	2	300	C295.20D6.2003	A 1538
10	2	300	C295.20D6.2004	A 1538

B6013.000.04 senza spigolatori

N°	Z	ØD	Cod.	COD. P.
1	2	130	C164.35D6.2010	A 792
2	2	130	C164.08A0.2001	A 391
3	2	130	C164.08A0.2002	A 391
4	2	130	C164.35D6.2011	A 792
5	2	130	C164.04D0.L001	A 376
6	2	130	C164.35D6.2012	A 792
7	2	300	C265.20C0.2002	A 768
8	2	300	C265.08C0.2001	A 544
9	2	300	C295.20D6.2005	A 1139
10	2	300	C295.20D6.2006	A 1139

Canotto con distanziali

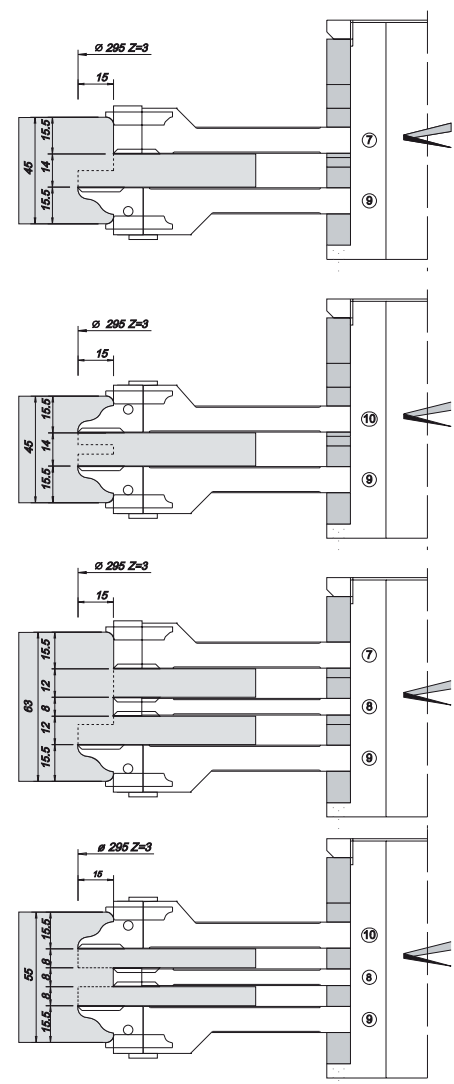
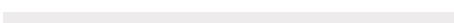
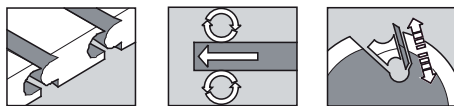
N°	H	Ø d	Cod.	COD. P.
1	100	30	R40.15D.A001	A 388
1	100	35	R40.25D.A001	A 388
1	100	40	R40.35D.A001	A 388





Confezione ante sagomate Z=2 - 3
Boîte avec fraises pour panneaux profilés
Z=2 - 3
Caja de fresas para paneles perfilados
Z=2 - 3
B6013 Tool set box for profiled panels
Z=2 - 3
Kästchen mit Fräsergarnitur für
profilierte Türen Z=2 - 3

B 6013



I Set di frese composto da dieci elementi e due canotti per eseguire la profilatura e il tenone maschio dell'anta sagomata. È possibile scegliere tra 6 diversi tipi di profilo sagomato, il profilo standard è il N°2.

B6013.000.01 con spigolatori per fughe.

B6013.000.02 senza spigolatori per fughe.

Le varie combinazioni possibili permettono di ottenere: anta sagomata spessore 45 mm, con spina singola, 55 mm e 63 mm, con spina doppia. Vetro da 4 mm ad infilare o con listello mobile. Incastro variabile da 8 a 16 mm per il listello mobile.

F Jeu de fraises composé par dix éléments et deux manchons pour exécuter le profilage et le tenon du panneau profilé. L'on peut choisir parmi 6 différents types de profil, celui standard est le numéro 2.

B6013.000.01 avec chanfreins.

B6013.000.02 sans chanfreins.

Plusieurs combinaisons permettent d'obtenir: panneau profilé épaisseur 45 mm -> tenon simple, épaisseur 55 mm -et 63 mm > avec double tenon. Verre 4 mm d'épaisseur à enfiler ou avec pare-close récupérée. Entaille variable de 8 à 16mm pour pare-close récupérée.

E El juego de fresas se compone de diez elementos y dos manguitos para hacer la moldura y la espiga del panel perfilado.

B6013.000.01 con matacantos.

B6013.000.02 sin matacantos.

Con varias combinaciones pueden obtener: panel perfilado espesor 45 mm -> espiga única; espesor 55 mm -63 mm > espiga doble. Cristal de espesor 4 mm a enfilar o con junquillo diviso. Encaje variable de 8 a 16mm.

UK The tool set is composed by ten elements and two sleeves, in order to execute the profiling and the tenon of the profiled panel. you can choose among 6 different profiles. The standard profile is nr. 2.

B6013.000.03 with chamfering knives.

B6013.000.04 without chamfering knives.

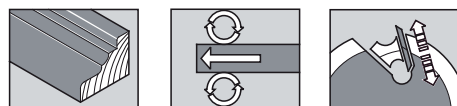
Lots of combinations permit to obtain: profiled panel, thickness 45 -> single tenon, thickness 55 - 63 mm > double tenon fixed or mobile glazing bead. 4mm thickness glass to thread or with glazing bead recovery. 8 to 16mm adjustable groove.

D die Fräsergarnitur besteht aus zehn Elementen und zwei Büchsen, um sowohl das Profil als auch den Zapfen der profilierten Tür zu bearbeiten. Man kann 6 verschiedene Profile aussuchen, Das Standardprofil ist Nr. 2.

B6013.000.03 mit Kantenbrechern für Fügen.

B6013.000.04 ohne Kantenbrecher für Fügen.

Die verschiedenen Kombinationen gestatten die Bearbeitung von: profilierten Paneelen - Stärke 45 -> Einzelzapfen, Stärke 55 -63-> Doppelzapfen. Feststehende bzw. bewegliche Glasleiste. 8-16mm verstellbare Nut



ØD	Z	B	Cod.	COD. P.
130 / 300	2 / 3	44 / 55 / 63	B6013.000.01	A 11419
130 / 300	2 / 3	44 / 55 / 63	B6013.000.02	A 8977

B6013.000.01 con spigolatori

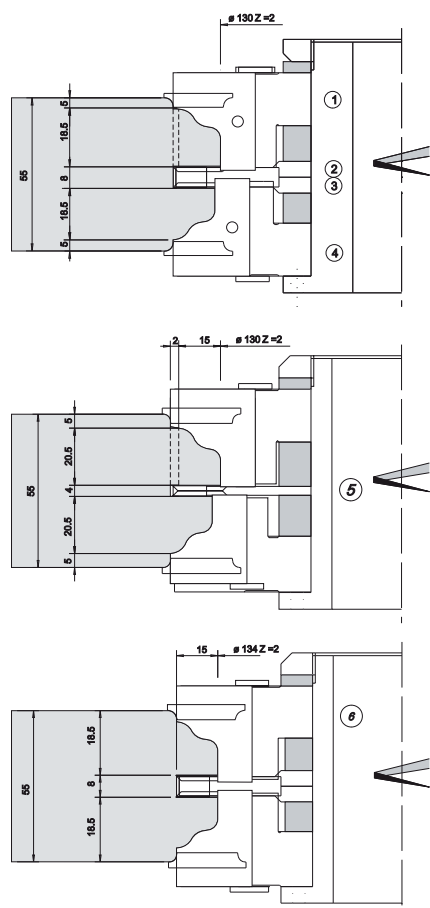
N°	Z	ØD	Cod.	COD. P.
1	2	130	C164.35D6.2007	A 1110
2	2	130	C164.08A0.2001	A 391
3	2	130	C164.08A0.2002	A 391
4	2	130	C164.35D6.2008	A 1110
5	2	130	C164.04D0.L001	A 376
6	2	130	C164.35D6.2009	A 1110
7	3	300	C265.20C0.3001	A 1508
8	3	300	C265.08C0.3001	A 779
9	3	300	C295.20D6.3001	A 2128
10	3	300	C295.20D6.3002	A 2128

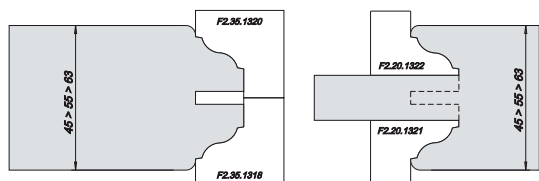
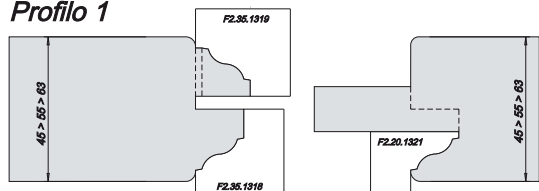
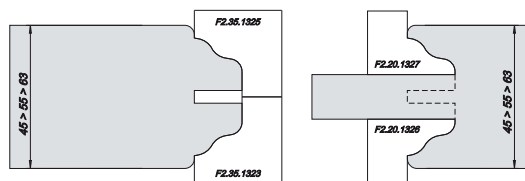
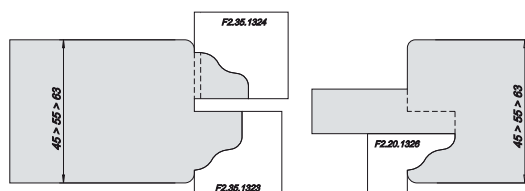
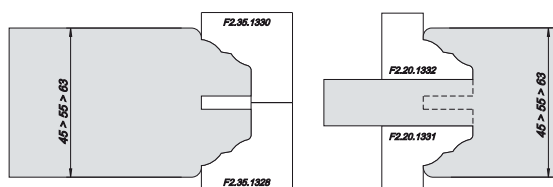
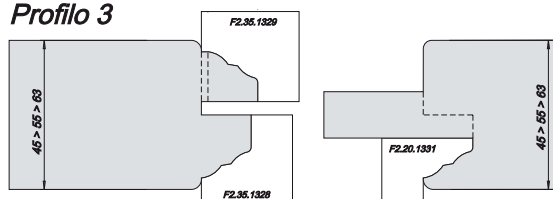
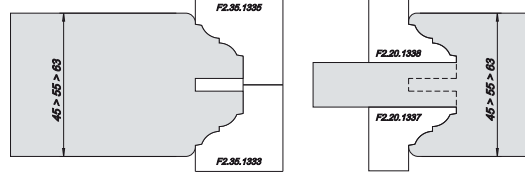
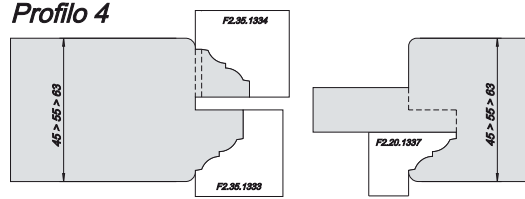
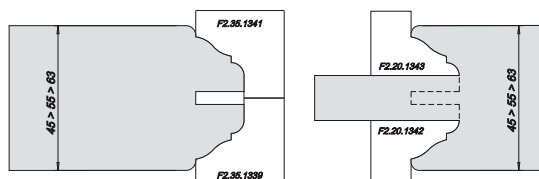
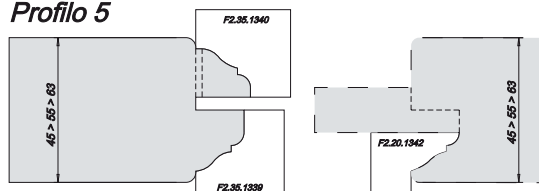
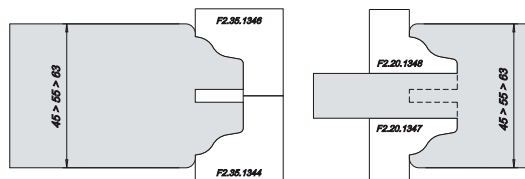
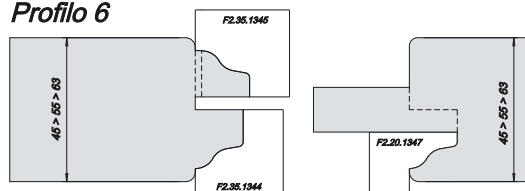
B6013.000.02 senza spigolatori

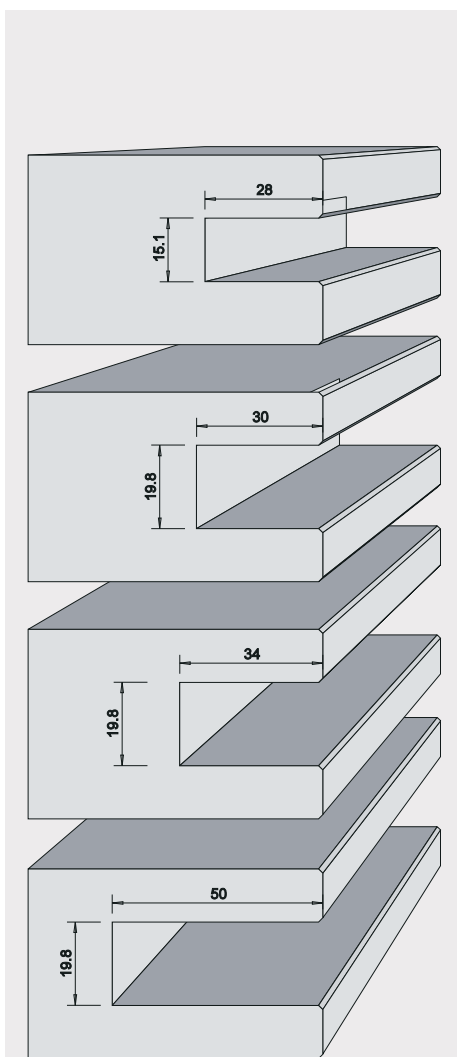
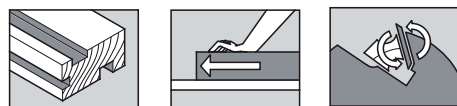
N°	Z	ØD	Cod.	COD. P.
1	2	130	C164.35D6.2010	A 792
2	2	130	C164.08A0.2001	A 391
3	2	130	C164.08A0.2002	A 391
4	2	130	C164.35D6.2011	A 792
5	2	130	C164.04D0.L001	A 376
6	2	130	C164.35D6.2012	A 792
7	3	300	C265.20C0.3002	A 1032
8	3	300	C265.08C0.3001	A 779
9	3	300	C295.20D6.3003	A 1647
10	3	300	C295.20D6.3004	A 1647

Canotto con distanziali

N°	H	Ø d	Cod.	COD. P.
1	100	30	R40.15D.A001	A 388
1	100	35	R40.25D.A001	A 388
1	100	40	R40.35D.A001	A 388



**Profilo 1****Profilo 2****Profilo 3****Profilo 4****Profilo 5****Profilo 6**



Gruppo per sede parafreddo
Fraise pour le canal "pare-froid"
Fresa para el canal "para-frío"
Tool for the slide "cold protection"
Fräser für die Bearbeitung
des "Kälte-Schutz-Kanals"

B 3320



I Fresa fissa con spigolatori per ripasso sotto porta. Fresa assemblata su mozzo in programma con gruppi di squadatura. Corpo in acciaio.

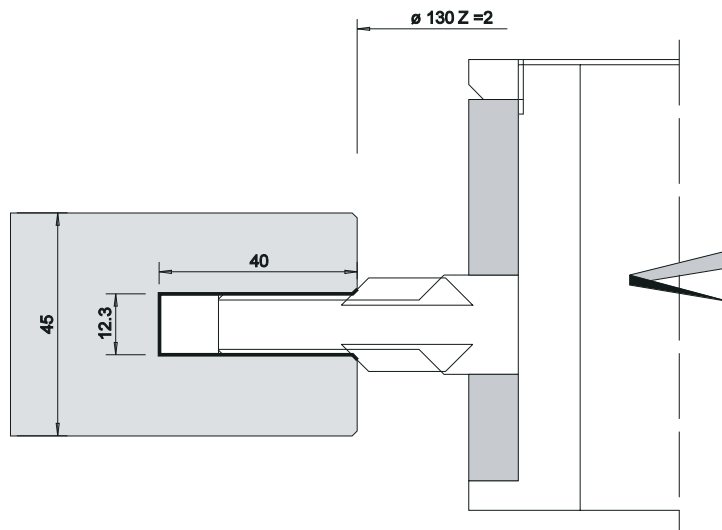
F Fraise fixe avec plaquettes à chanfrainer pour exécuter le canal "pare-froid". Fraise montée sur manchon en programme avec des jeux de calibre. Corps en acier.

E Fresa fija con cuchillas a cantear para hacer el canal "para-frío". Fresa montada sobre manguito en programa con juegos d'esquadrería. Cuerpo en acero.

UK Fixed tool with chamfering knives in order to execute the "cold protection" channel. Tool on sleeve, programmed with the squaring set. Steel tool.

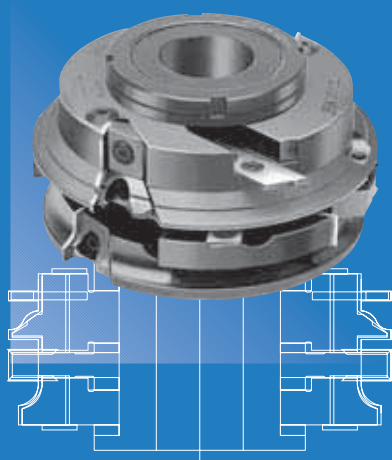
D Feststehender Fräser mit Kantenbrechern, um den "Kälte-Schutz" Kanal zu bearbeiten. Fräser auf Büchse, programmiert mit der Flüge-laußenprofilgarnitur. Stahl-Ausführung.

D	B - T	d	Z	Cod.	COD. P.
130	12,3 x 40	35/40/50	2	B3320.210C2	A 1726
130	15,1 x 28	35/40/50	2	B3320.242C2	A 1796
130	19,8 x 30	35/40/50	2	B3320.190C2	A 1796
130	19,8 x 34	35/40/50	2	B3320.198C2	A 1796
130	19,8 x 50	35/40/50	2	B3320.230C2	A 1796





Gruppi per antine e balconi. Jeux pour meubles rustiques et pour balcons Juegos para puertas de muebles y balcones Tools for furniture and balcony Möbelwerkzeuge

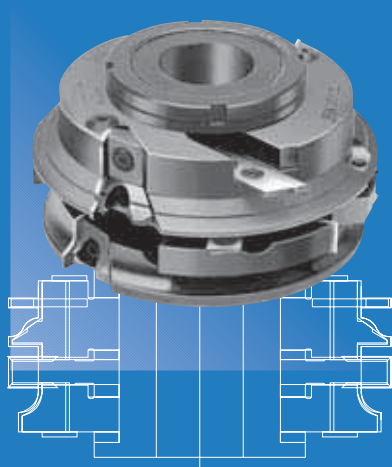


Confezione antine sagomate Boîte avec fraises par éléments pour plafonds profilés Caja de fresas componibles para plafones perfilados Assembly system for profiled door frames stile and rail cutterhead Kästchen mit Fräsern für profilierte Möbelflügel	B 6204 6-3
Cassetta componibile per antine Boîte avec fraises par éléments pour plafonds Caja con fresas componibles para plafones Assembly system for door frames stile and rail cutterhead Kästchen mit Fräsern für Möbelflügel	B 6201 6-4
Varianti per B6201 Variantes pour B6201 Variantes para B6201 Variations on B6201 Varianten für B6201	B6201-2 6-5
Cassetta componibile per antine Boîte avec fraises par éléments pour plafonds Caja con fresas componibles para plafones Assembly system for door frames stile and rail cutterhead Kästchen mit Fräsern für Möbelflügel	B 6202 6-6
Gruppo per antine Jeu de fraises pour plafonds Juego de fresas para plafones Tool set for door frames stile and rail cutterhead Fräsergarnitur für Möbelflügel	B 2920 6-7
Gruppi per antine "single" Jeu de fraises pour portes "single" Juego de fresas para puertas "single" Tool-sets for "single" furniture door Fräsergarnitur für "single" Mobeltüren	B 2935 6-8
Gruppo antine programmato Jeu de fraises pour plafonds Juego de fresas para plafones Tool set for door frames stile and rail cutterhead Fräsergarnitur für Möbelflügel	B 2957 6-9
Gruppo antine programmato Jeu de fraises pour plafonds Juego de fresas para plafones Tool set for door frames stile and rail cutterhead Fräsergarnitur für Möbelflügel	B 2958 6-10
Gruppi per antine "Magic" Jeu de fraises pour panneaux "Magic" Juego de fresas para paneles "Magic" Profile and counterprofile cutter set "Magic" Fräsergarnitur "Magic"	B 2940 6-11
Fresa per piattabanda Z 3+3 Fraise pour plate-bande Z 3+3 Fresa para plafones Z 3+3 Raised panel cutter Z 3+3 Abplattfräser Z 3+3	CP 035 6-12
Fresa per piattabanda Z 2+2 Fraise pour plate-bande Z 2+2 Fresa para plafones Z 2+2 Raised panel cutter Z 2+2 Abplattfräser Z 2+2	CP 945 6-14
Piattabanda Z2 x 4 "Multiprofil" Fraise pour plate-bande Z2 x 4 "Multiprofil" Fresa para plafones Z2 x 4 "Multiprofil" Raised panel cutter Z2 x 4 "Multiprofil" Abplattfräser Z2 x 4 "Multiprofil"	CP 625 6-15



Gruppi per antine e balconi.
Jeux pour meubles rustiques et pour balcons
Juegos para puertas de muebles y balcones
Tools for furniture and balcony
Möbelwerkzeuge

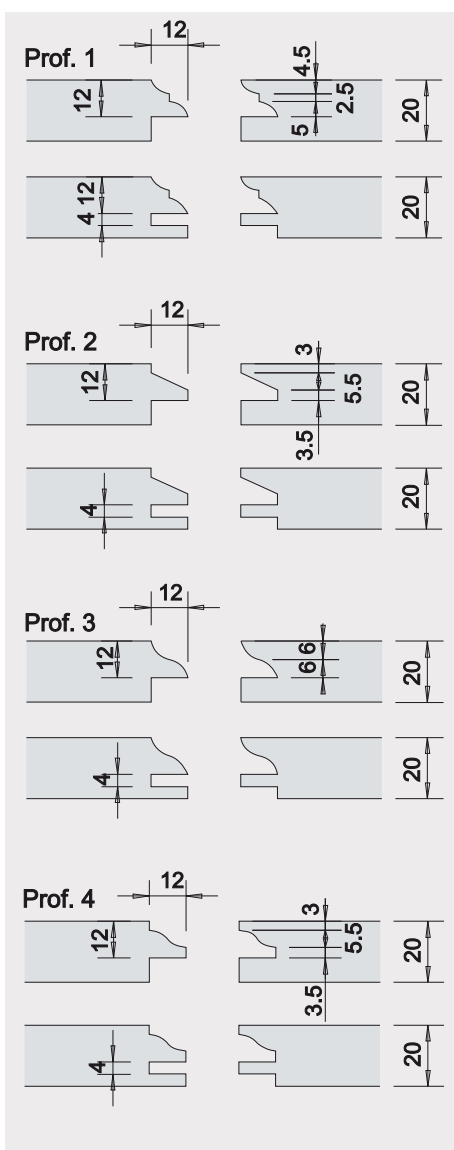
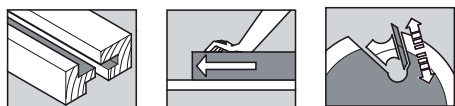
Piattabanda	CP 839
Fraise pour plate-bande	6-16
Fresa para plafones	
Raised panel cutter	
Abplattfräser	
Piattabanda	CP 037
Fraise pour plate-bande	6-17
Fresa para plafones	
Raised panel cutter	
Abplattfräser	
Piattabanda "Best Cut"	CP 640
Fraise pour plate-bande "Best Cut"	6-18
Fresa para plafones "Best Cut"	
Raised panel cutter "Best Cut"	
Abplattfräser "Best Cut"	





Confezione antine sagomate
Boîte avec fraises par éléments pour
plafonds profilés
Caja de fresas componibles para
plafones perfilados
Assembly system for profiled door
frames stile and rail cutterhead
Kästchen mit Fräsern für profilierte
Möbelflügel B6201

B 6204



I Gruppo composto da due frese. Con varie combinazioni è possibile ottenere la sagoma e la controsagoma di un'antina con e senza listello. Sulla fresa sagomata è possibile montare quattro tipi diversi di coltelli profilati. Il gruppo è fornito, salvo diversa specifica, con il profilo N° 4. Sono disponibili due versioni con incastro da 4 mm o 5 mm.

F Le jeu est composé par deux fraises et un porte-outils à rainurer. Avec plusieurs combinaisons il est possible d'obtenir le profilage et le contreprofilage du panneau avec ou sans pare-close. Sur la fraise profilée il est possible de monter quatre types différents de plaquettes profilées. Sauf autre indication, le jeu est fourni avec le profil no. 4. Il y a deux versions: avec p.o. à rainurer 4mm ou 5mm.

E El juego de fresas se compone de dos fresas y un cabezal para ranurar. Con varias combinaciones se puede obtener la moldura y la contramoldura del plafón con o sin junquillo. Sobre la fresa perfilada pueden montar cuatro tipos distintos de cuchillas perfiladas. Salvo otra indicación, el juego de fresas es ofrecido con el perfil no. 4. Hay dos versiones: con cabezal para ranurar 4mm o 5mm.

UK The set is composed by two tools and one grooving cutter. Various combinations permit to obtain the profile and counterprofile of the door with oder without glazing bead. On the profiled tool you can set four different profiled knives. Unless other instructions, the tool set is supplied with profile no. 4. There are two models: with grooving cutter 4mm or 5mm.

D Die Fräsergarnitur besteht aus zwei Fräsern und einem Nutfräser. Durch mehrere Kombinationen ist es möglich das Profil und das Konterprofil des Möbelflügels mit oder ohne Glasleiste zu bearbeiten. Auf dem profilierten Fräser kann man vier verschiedene profilierte Messer befestigen. Wenn nicht anders angegeben, wird die Fräsergarnitur mit Profil Nr. 4 geliefert. Von dieser Fräsergarnitur gibt es zwei Versionen: mit Nutfräser zu 4mm und zu 5mm.

ØD	Z	B	Cod.	COD. P.
130	2	4	B6204.13040	A 1684
130	2	5	B6204.13050	A 1684

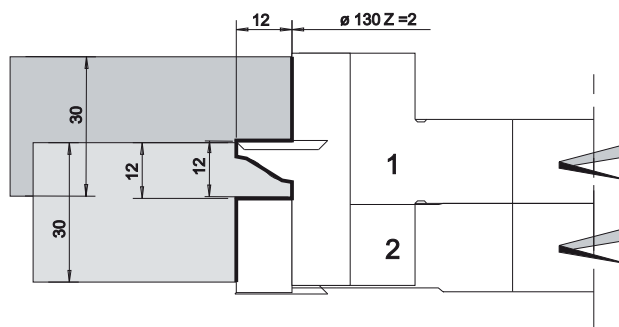
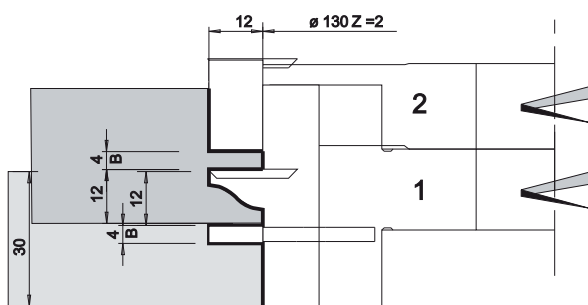
Inserti di ricambio

B	Cod.	COD. P.
20x12	F0.20.12.15 ●	B 800
14x14x2	F3.14.20.10 ●	B 860
14x14x1.2	F3.14.12.10 ●	B 1134
4	F5.40.01.04	B 384
5	F5.50.01.05	B 384

Inserti di ricambio

B	Cod.	COD. P.
Prof. 1	F2.50.1386	B 1234
Prof. 2	F2.50.1387	B 1234
Prof. 3	F2.50.1388	B 1234
Prof. 4	F2.50.1389	B 1234

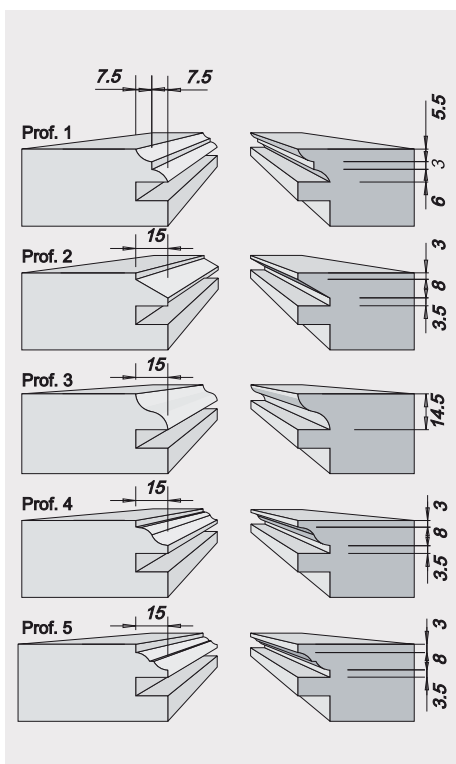
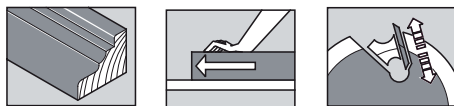
● confezione da 10 pezzi





Cassetta componibile per antine
Boîte avec fraises par éléments
pour plafonds
Caja con fresas componibles
para plafones
Assembly system for door frames stile
and rail cutterhead
Kästchen mit Fräsern für Möbelflügel

B 6201



I Composta da tre elementi foro diretto. Sagoma profonda 15 mm. La cassetta è fornita, salvo diversa specifica, con il profilo N°4.

F La boîte est composée par trois éléments sans manchon. Avancement 15 mm. Sauf autres indications la boîte est fournie avec le profil no. 4.

E La caja se compone de tres elementos sin manguito. Profundidad de corte 15 mm. Salvo otra indicación la caja se ofrece con el perfil no. 4.

UK The tool set box is composed by three elements on sleeve. Profile depth is 15 mm. Unless other indications, the box is supplied with profile no. 4.

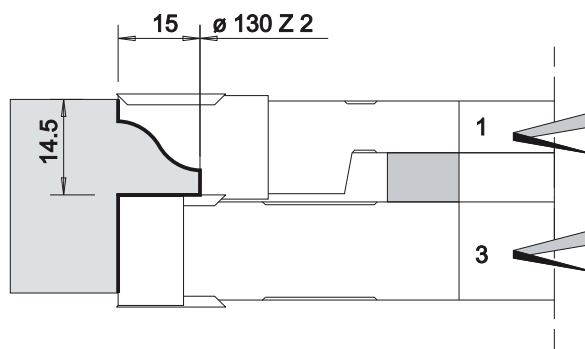
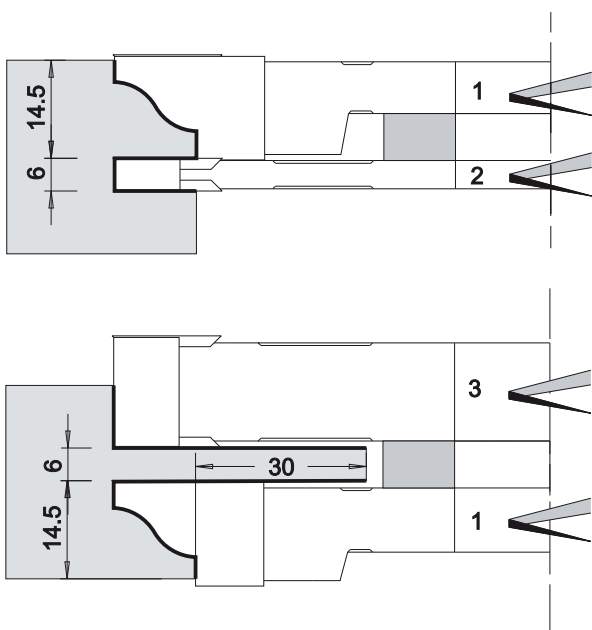
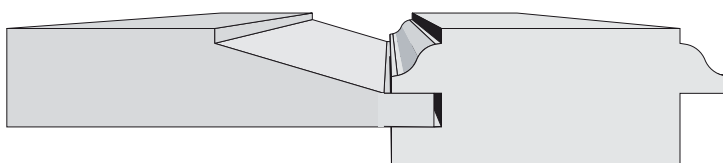
D Das Kästchen besteht aus drei Elementen ohne Büchse. Die Tiefe des Profils beträgt 15 mm. Wenn nicht anders angegeben, wird das Kästchen mit Profil Nr. 4 verkauft.

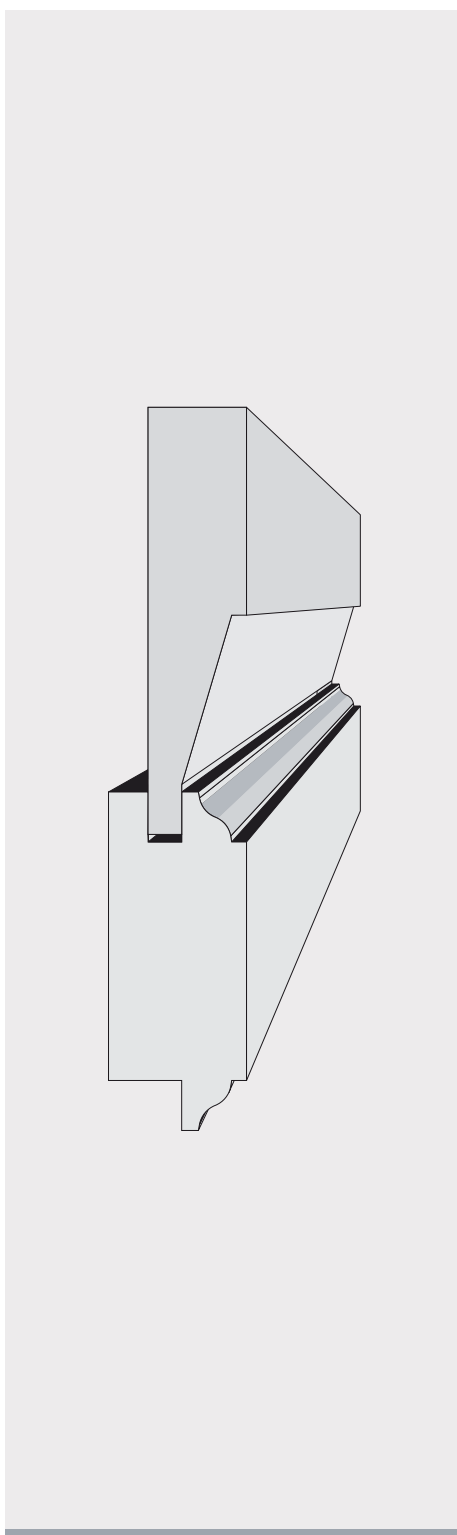
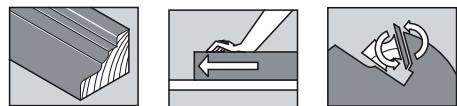
Ø D	Z	T max	Cod.	COD. P.
130	2	30	B6201	A 2218

Inserti di ricambio

Comp.	Cod.	COD. P.
1	B6201.130.01	A 856
2	B6201.160.02	A 656
3	B6201.160.03	A 706

B	Cod.	COD. P.
Prof. 1	F2.16.1308	B 620
Prof. 2	F2.16.1309	B 620
Prof. 3	F2.16.1310	B 620
Prof. 4	F2.16.1311	B 620
Prof. 5	F2.16.1350	B 620





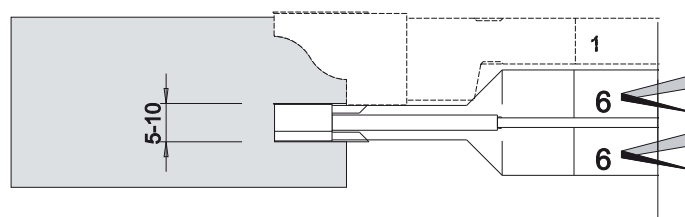
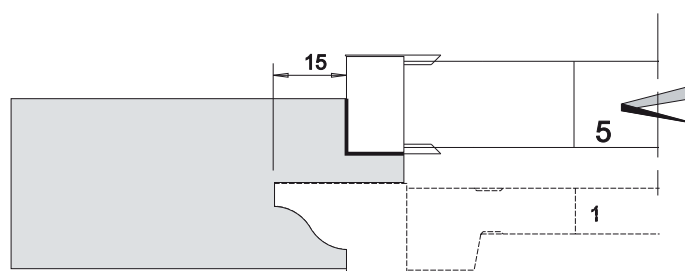
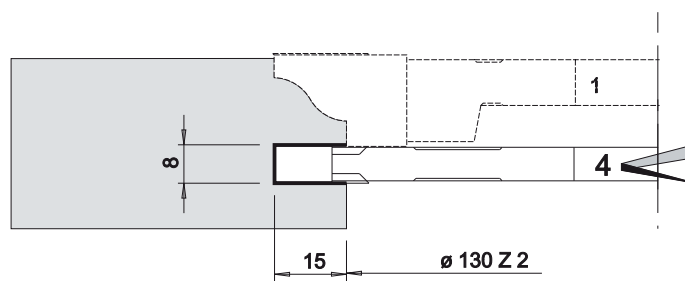
Varianti per B6201
Variantes pour B6201
Variantes para B6201
Variations on B6201
Varianten für B6201

B 6201-2



- I** Elementi integrativi alla cassetta B6201
- F** Eléments additionnels pour la boîte B6201
- E** Elementos suplementarios para la caja B6201
- UK** Additional elements for B6201 box
- D** Zusatzelemente für das Kästchen B6201

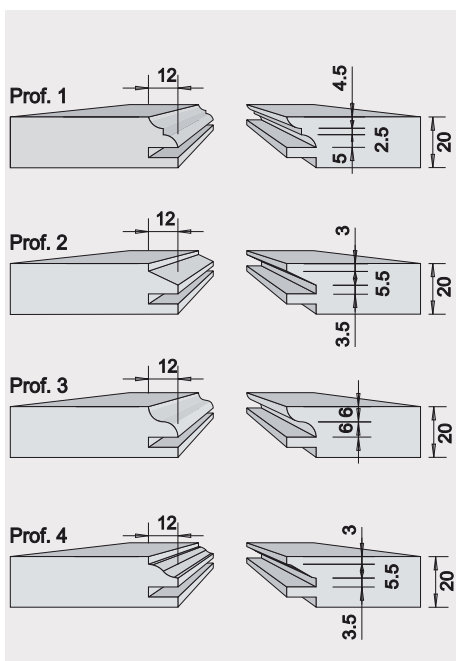
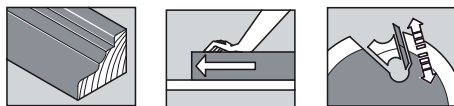
Comp.	Cod.	COD. P.
4	B6201.160.04	A 404
5	B6201.130.05	A 656
6	B6201.160.06	A 1312





Cassetta componibile per antine
Boîte avec fraises par éléments pour
plafonds
Caja con fresas componibles para
plafones
Assembly system for door frames stile
and rail cutterhead
Kästchen mit Fräsern für Möbelflügel

B 6202



I Composta da tre elementi foro diretto. Sagoma profonda 12 mm. La cassetta è fornita, salvo diversa specifica, con il profilo N°4

F La boîte est composée par trois éléments sans manchon. Avancement 12 mm. Sauf autres indications la boîte est fournie avec le profil no. 4

E La caja se compone de tres elementos sin manguito. Profundidad de corte 12 mm. Salvo otra indicación la caja se ofrece con el perfil no. 4

UK The tool set box is composed by three elements on sleeve. Profile depth is 12 mm. Unless other indications, the box is supplied with profile no. 4

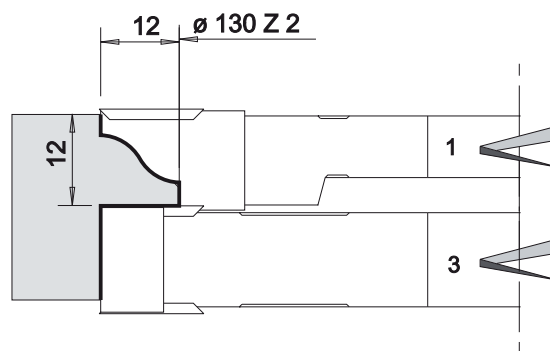
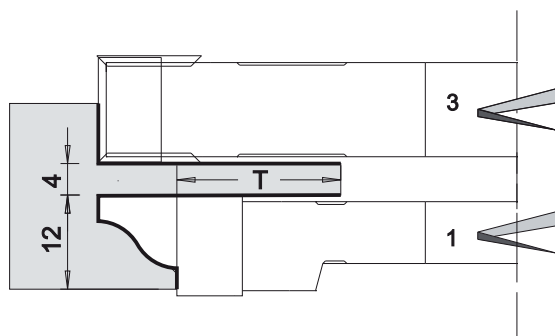
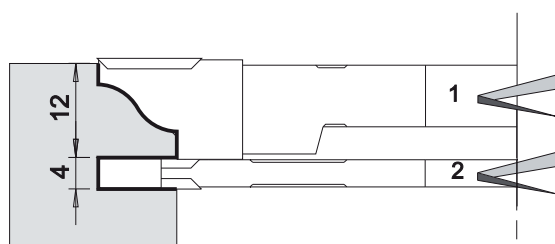
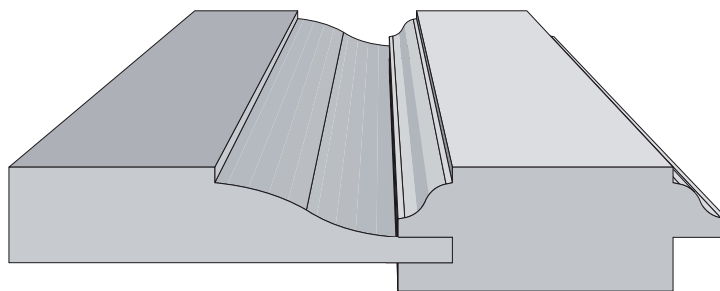
D Das Kästchen besteht aus drei Elementen ohne Büchse. Die Tiefe des Profils beträgt 12 mm. Wenn nicht anders angegeben, wird das Kästchen mit Profil Nr. 4 geliefert.

Ø D	Z	T max	Cod.	COD. P.
130	2	30	B6202 ▲	A 2218

▲ disponibilità immediata con sconto maggiorato

Comp.	Cod.	COD. P.
1	B6202.130.01	A 856
2	B6202.154.02	A 656
3	B6202.154.03	A 706

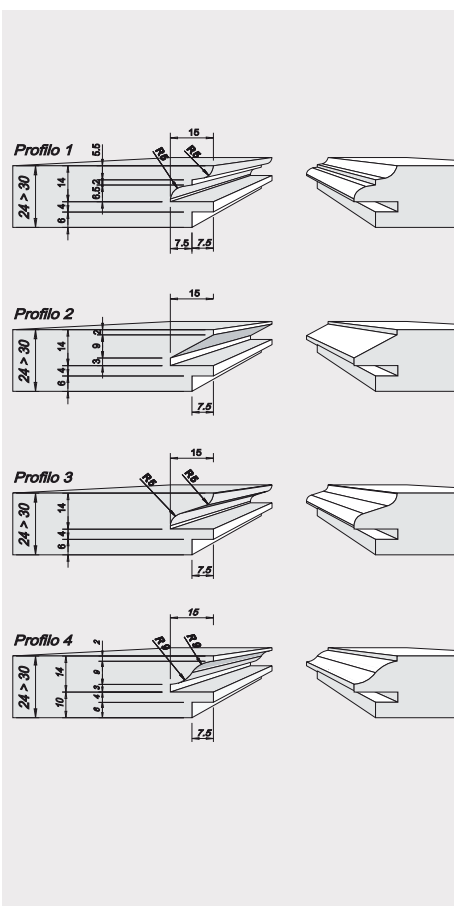
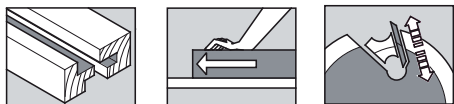
B	Cod.	COD. P.
Prof. 1	F2.14.1312	B 620
Prof. 2	F2.14.1313	B 620
Prof. 3	F2.14.1314	B 620
Prof. 4	F2.14.1315	B 620





Gruppo per antine
Jeu de fraises pour plafonds
Juego de fresas para plafones
Tool set for door frames stile and rail
cutterhead
Fräsergarnitur für Möbelflügel

B 2920



I Il gruppo permette l'esecuzione del profilo e contro profilo per antine sagomate. Lo spessore lavorabile va da 24 a 30 mm. La particolare costruzione dell'utensile permette di sostituire gli inserti sagomati ottenendo così più profili con lo stesso utensile. L'utensile viene fornito, salvo diversa specifica, con il profilo N° 4.

E Ce jeu de fraises permet l'exécution du profilage et du contreprofilage des plafonds profilés. L'épaisseur du bois varie de 24 à 30mm. La conformation particulière du porte-outils permet de changer les plaquettes profilées pour obtenir plusieurs profils avec le même porte-outils. Sauf autre indication, le porte-outils est prévu avec le profil no. 4.

F El juego de fresas permite de trabajar la moldura y la contramoldura de los plafones perfilados. El espesor de trabajo varia desde 24 a 30mm. La conformación particular del cabezal permite el cambio de las cuchillas perfiladas para obtener distintos perfiles con el mismo cabezal. Salvo otra indicación, la herramienta es ofrecida con el perfil no. 4.

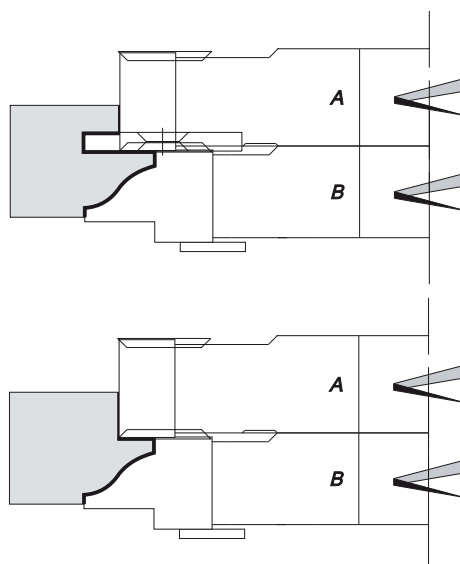
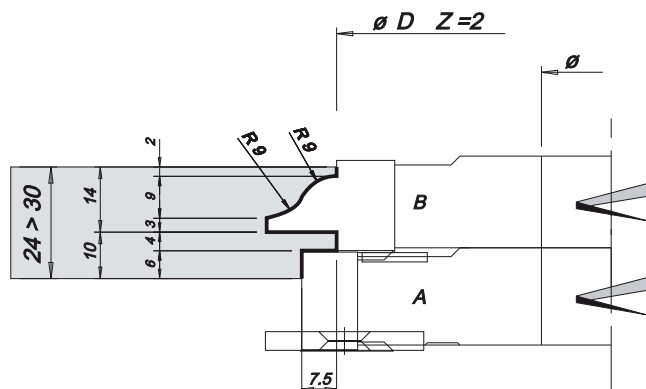
UK The tool set enables the profiling and counterprofiling of profiled door frames stiles and rail. 24 to 30mm working thickness. the particular structure of the tool permits the replacement of the profiled knives, in order to obtain various profiles with the same tool. Unless other instructions, the tool set is supplied with profile no. 4.

D Die Fräsergarnitur gestattet die Ausführung des Profils und des Konterprofils der profilierten Möbelflügel. Die Arbeitsdicke beträgt 24 bis 30mm. Die spezielle Form des Werkzeugs gestattet die Auswechslung der profilierten Messer, dadurch kann man mit demselben Werkzeug verschiedene Profile bearbeiten. Wenn nicht anders angegeben, wird die Garnitur mit Profil Nr. 4 geliefert

ØD	B	Ø d	Z	Cod.	COD. P.
130	24 / 30	35 / 40	2	B2920.130C2	A 1650
130	24 / 30	35 / 40	3	B2920.130C3	A 2386
160	24 / 30	35 / 40	4	B2920.160C4	A 2996

Inserti di ricambio

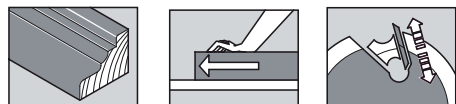
B	Cod.	COD. P.
Prof. 1	F2.20.1022	B 740
Prof. 2	F2.20.1023	B 740
Prof. 3	F2.20.1024	B 740
Prof. 4	F2.20.1025	B 740





Gruppi per antine "single"
Jeu de fraises pour portes "single"
Juego de fresas para puertas "single"
Tool-sets for "single" furniture door
Frasergarnitur für "single" Mobeltüren

B 2935



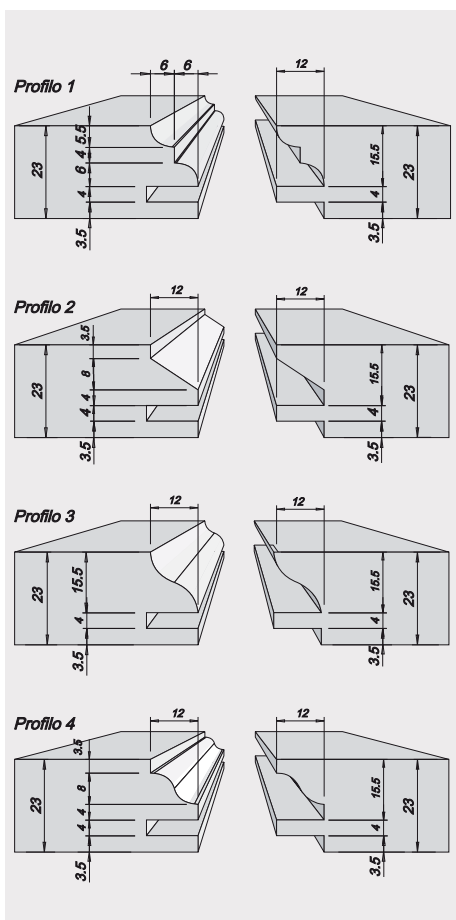
I Gruppi frese composti da quattro elementi montati su mozzo. Per eseguire profili e controprofili di antine sagomate. I profili sono intercambiabili mediante la sostituzione degli inserti. Il gruppo viene fornito, salvo diversa specifica, con il profilo N°4.

F Jeu de fraises compose par quatre elements montes sur manchon. Pour exécuter profils et contreprofils de portes profilées. Les profils sont interchangeables grace au remplacement des plaquettes. Sauf autres indication, le jeu est prevu avec le profil no. 4.

E El juego de fresas se compone de cuatro elementos montados sobre manguito. Su funcion es la de trabajar las molduras y contramolduras de puertas perfiladas. Los perfiles se pueden cambiar reemplazando las cuchillas. Salvo otra indicacion el juego se ofrece con el perfil no. 4.

UK The tool set is composed of four elements on a sleeve. They execute the profile and the counterprofile of profiled doors. The profiles are interchangeable thanks the substitution of the knives. Unless other indications, the tool set is supplied with profile no. 4.

D Die Frasergarnitur besteht aus vier Elementen auf Buchse. Zur Bearbeitung des Profils und Konterprofils der profilierten Türen. Die Profile sind auswechselbar. Wenn nicht anders angegeben wird die Garnitur mit Profil Nr. 4 geliefert.



D	B	B 1	Z	Cod.	COD. P.
130	23 - 37	4 - 8	2	B2935.130C3	A 3014
130	33 - 47	8 - 16	2	B2935.130C4	A 2692
130	23 - 37	4 - 8	4	B2935.130C5	A 3932
130	33 - 47	8 - 16	4	B2935.130C6	A 3610
160	23 - 37	4 - 8	4	B2935.160C1	A 4006
160	33 - 47	8 - 16	4	B2935.160C2	A 3640

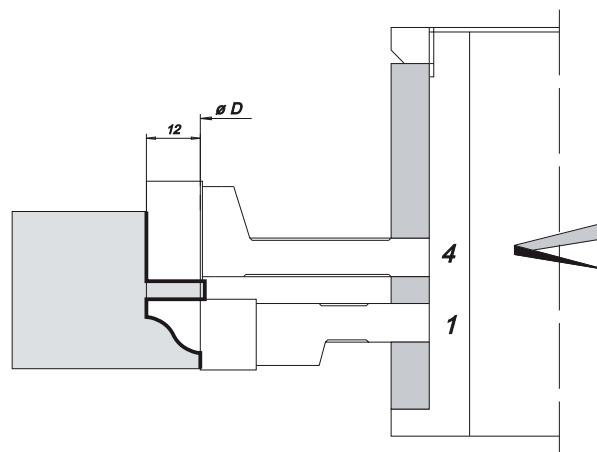
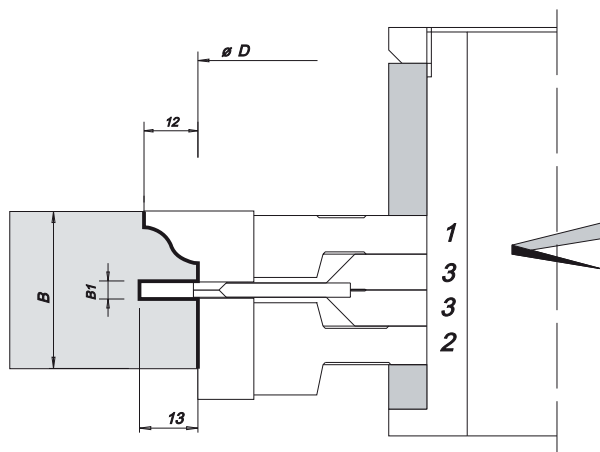
Inserti di ricambio

B	Cod.	COD. P.
Prof. 1	F2.16.1027	B 616
Prof. 2	F2.16.1029	B 616
Prof. 3	F2.16.1031	B 616
Prof. 4	F2.16.1033	B 616
7.5 x 12 x 1.5	F0.75.12.15 ●	B 860
18 x 18 x 1.9	F0.18.18.19 ●	B 2600

Inserti di ricambio

B	Cod.	COD. P.
18 x 18 x 2.5	F0.18.18.25 ●	B 3240
18 x 18 x 2.9	F0.18.18.29 ●	B 4380
20 x 12 x 1.5	F0.20.12.15 ●	B 800
14 x 14 x 2	F3.14.20.10 ●	B 860
14 x 14 x 1.2	F3.14.12.10 ●	B 1134

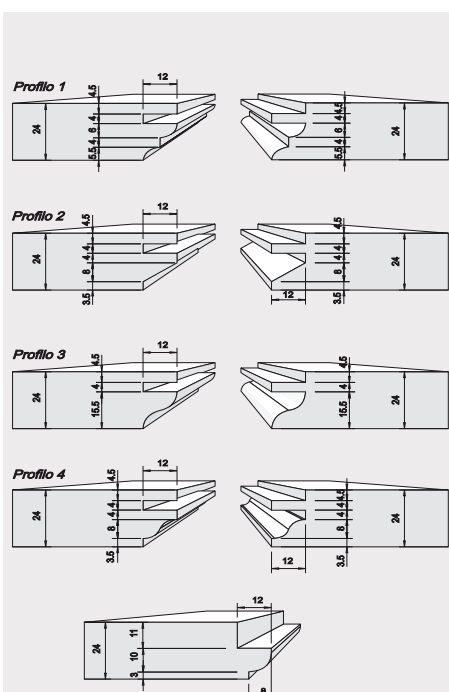
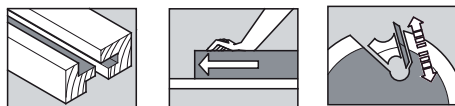
● confezione da 10 pezzi





Gruppo antine programmato
Jeu de fraises pour plafonds
Juego de fresas para plafones
Tool set for door frames stile and rail
cutterhead
Fräsergarnitur für Möbelflügel

B 2957



I Il gruppo è studiato in modo che variando solamente l'altezza dell'albero si esegue la profilatura, l'intestatura e la squadratura senza dover intervenire sugli utensili. Sono disponibili quattro tipi di sagoma intercambiabili sullo stesso corpo fresa. Il gruppo viene fornito, salvo diversa specifica, con il profilo 4. Gruppo frese corpo in acciaio montato su mozzo.

F En changeant seulement la hauteur de l'arbre l'on peut exécuter: le profilage, le tenonnage et le calibrage sans changer les porte-outils. Quatre différents profils interchangeables peuvent être montés sur le même porte-outils. Sauf autres indications, le jeu de fraises est fourni avec le profil no. 4. Corps en acier, fraises montées sur manchon.

E Cambiando solamente la altura del árbol pueden trabajar: la moldura, la contramoldura y l'esquadria con los mismos cabezales. Hay cuatro perfiles intercambiables para el mismo cabezal. Salvo cualquier otra indicación, el juego de fresas es ofrecido con el perfil no. 4. Cuerpo en acero, fresas montadas sobre mango.

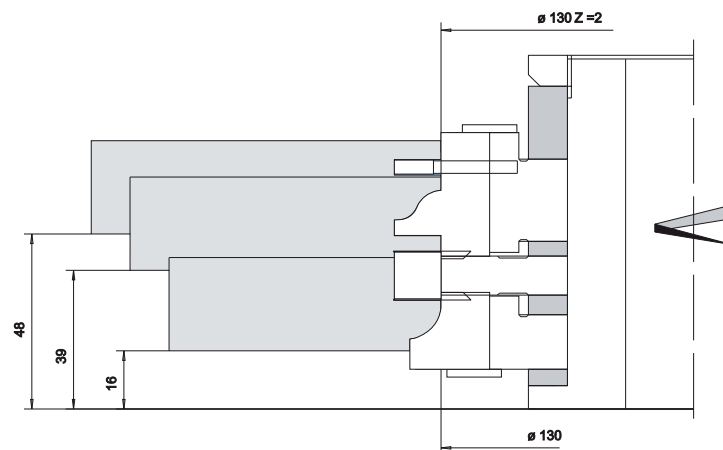
UK If you change the height of the spindle, you can execute: the profiling, the tenoning and the squaring with the same tool. There are four different interchangeable profiles, you can use on the same tool. Unless other instructions, the tool set is supplied with profile no. 4. Steel tool set on sleeve.

D Man braucht nur die Spindelhöhe zu ändern um folgende Bearbeitungen mit demselben Werkzeug auszuführen: Profil, Zapfen-Schlitzen und Flügelaußenprofil. Man kann vier verschiedene Profile auf demselben Werkzeug befestigen. Wenn nicht anders angegeben, wird die Fräsergarnitur mit Profil Nr. 4 geliefert. Stahl-Ausführung auf Büchse.

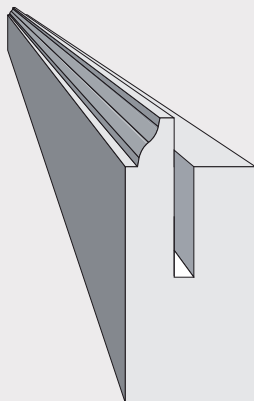
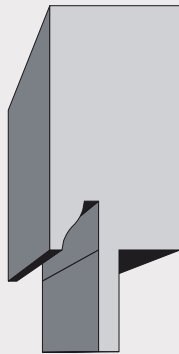
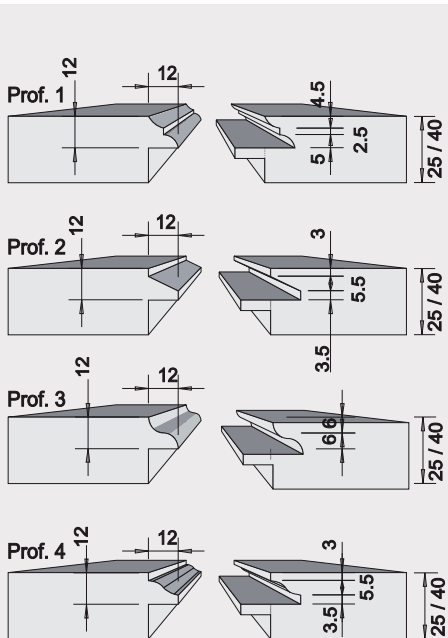
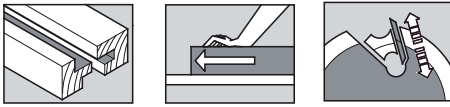
ØD	B	Ø d	Z	Cod.	COD. P.
130	24	35 / 40	2	B2957.130C2	A 2456

Inserti di ricambio

B	Cod.	COD. P.
Prof. 1	F2.35.1393	B 972
Prof. 2	F2.35.1392	B 972
Prof. 3	F2.35.1391	B 972
Prof. 4	F2.35.1390	B 972



B 2958



1 Antine con listello riportato. Il gruppo è studiato in modo che variando solamente l'altezza dell'albero si eseguono: la profilatura, l'intestatura e la squadratura senza intervenire sugli utensili. Sono disponibili quattro tipi di sagoma intercambiabili sullo stesso corpo fresa. Gruppo frese corpo in acciaio montato su mozzo. Il gruppo viene fornito, salvo diversa specifica, con il profilo 4.

F Avec pare-close récupérée. En changeant seulement la hauteur de l'arbre l'on peut exécuter: le profilage, le tenonnage et le calibrage sans changer les porte-outils. Quatre différents profils interchangeables peuvent être montés sur le même porte-outils. Sauf autres indications, le jeu de fraises est prévu avec le profil no. 4. Corps en acier, fraises montées sur manchon.

E Con junquillo divisorio. Cambiando solamente la altura del árbol pueden trabajar: la moldura, la contramoldura y l'esquadreria con los mismos cabezales. Hay cuatro perfiles intercambiables para el mismo cabezal. Salvo otra indicación, el juego de fresas es ofrecido con el perfil no. 4. Cuerpo en acero, fresas montadas sobre manguito.

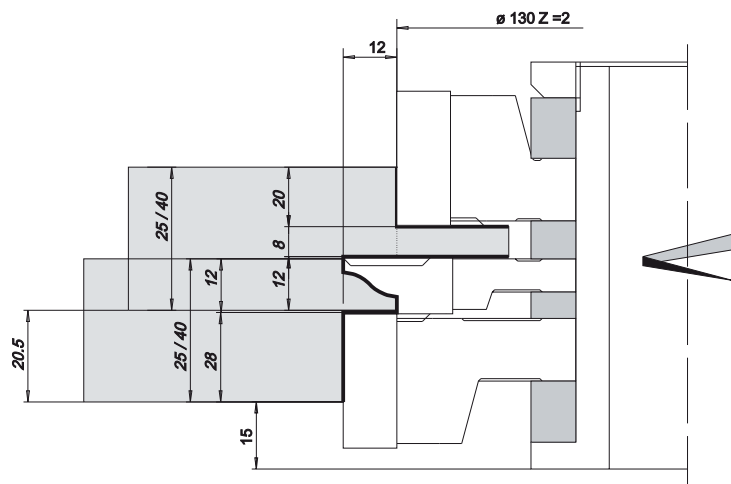
UK With glazing bead recovery. If you change the height of the spindle, you can execute: the profiling, the tenoning and the squaring with the same tool. There are four different interchangeable profiles, you can use on the same tool. Unless other instructions, the tool set is supplied with profile no. 4. Steel tool set on sleeve.

D Mit Glasleiste-Austrennung. Man braucht nur die Spindelhöhe zu ändern um folgende Bearbeitungen mit demselben Werkzeug auszuführen: Profil, Zapfen-Schlitzen und Flügelaußenprofil. Man kann vier verschiedene Profile auf demselben Werkzeug befestigen. Wenn nicht anders angegeben, wird die Fräsergarnitur mit Profil Nr. 4 geliefert. Stahl-Ausführung auf Büchse.

ØD	B	Ø d	Z	Cod.	COD. P.
130	25 / 40	35 / 40	2	B2958.130C2	A 2090

Inserti di ricambio

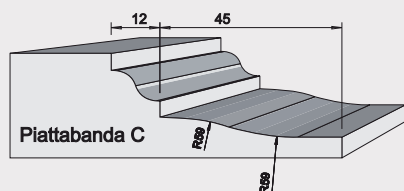
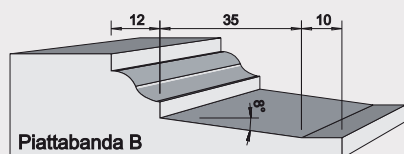
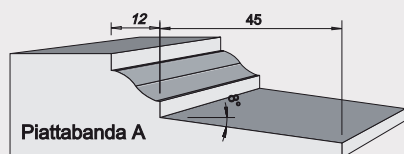
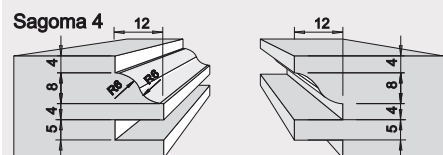
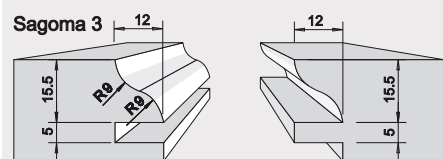
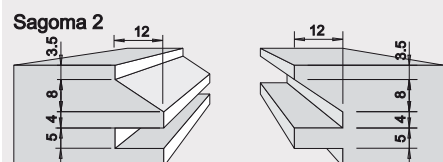
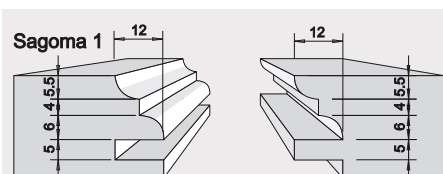
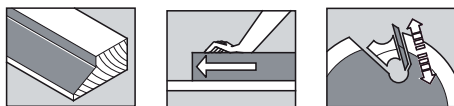
B	Cod.	COD. P
Prof. 1	F2.14.1312	B 680
Prof. 2	F2.14.1313	B 680
Prof. 3	F2.14.1314	B 680
Prof. 4	F2.14.1315	B 680





Gruppi per antine "Magic"
Jeu de fraises pour panneaux "Magic"
Juego de fresas para paneles "Magic"
Profile and counterprofile
cutter set "Magic"
Fräsergarnitur "Magic"

B 2940



I Gruppo frese composto da due pezzi per eseguire sagoma, controsagoma e relativa piattabanda. È possibile intercambiare quattro profili diversi e tre profili piani per piattabanda. Il gruppo viene fornito, salvo diversa specifica, con la sagoma N°4 e la piattabanda C.

F Jeu de fraises composé par deux pièces pour exécuter profilage, contreprofilage et plate-bande. Il est possible de changer quatre profils différents et trois profils plans pour plate-bande. Sauf autres indications, le jeu de fraises est fourni avec le profil no. 4 et le plan C.

E El juego de fresas se compone de dos partes para trabajar la moldura, la contramoldura y el plafón. Pueden cambiar cuatro perfiles distintos y tres perfiles planos para plafón. Salvo otras indicaciones, el juego de fresas es ofrecido con el perfil núm.4 y el plano C.

UK The tool set is composed by two elements for carrying out profile, counterprofile and raised panel profile. It is possible to change 4 different profiles and three raised panel profiles. Unless other instructions, the tool set is supplied with profile no. 4 and raised panel profile C.

D Die Fräsergarnitur besteht aus zwei Elementen zur Bearbeitung von Profil, Konterprofil und Abplattung. Man kann vier verschiedene Profile und drei Abplattungsprofile auswechseln. Wenn nicht anders angegeben, wird die Fräsergarnitur mit Profil 4 und Abplattungsprofil C geliefert.

ØD max	B	Ø d	Z	Cod.	COD. P.
190	25	35 / 40	2 + 2	B2940.190C2 ▲	A 2868

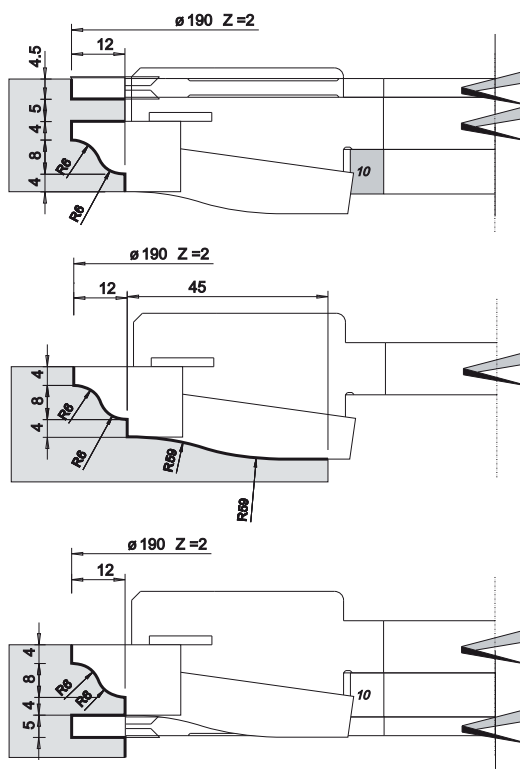
▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio

B	Cod.	COD. P.
Sagoma 1	F2.16.1027	B 616
Sagoma 2	F2.16.1029	B 616
Sagoma 3	F2.16.1031	B 616
Sagoma 4	F2.16.1033	B 616

Inserti di ricambio

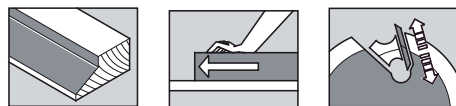
B	Cod.	COD. P.
Piattabanda A	F2.50.1062	B 244
Piattabanda B	F2.50.1063	B 508
Piattabanda C	F2.50.1064	B 586





Fresa per piattabanda Z 3+3
Fraise pour plate-bande Z 3+3
Fresa para plafones Z 3+3
Raised panel cutter Z 3+3
Abplattfräser Z 3+3

CP 035



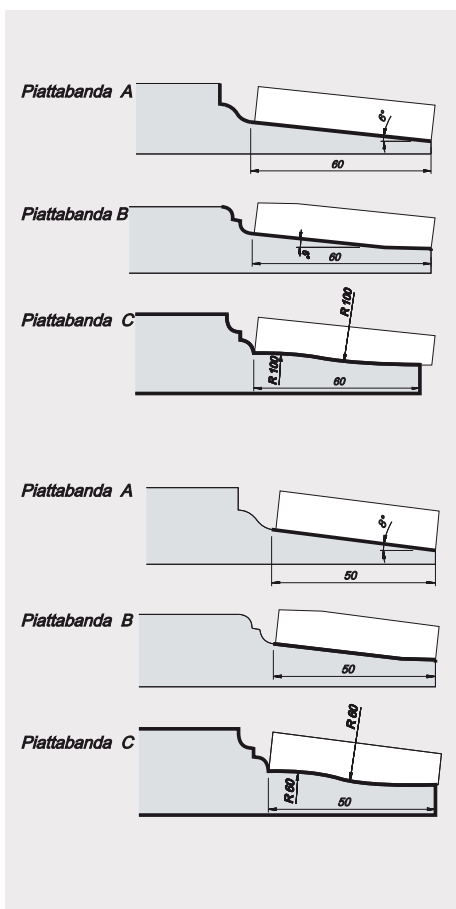
I Utensile composto da un corpo in acciaio con tre taglienti verticali e tre orizzontali. Su tutti i taglienti si possono montare diversi tipi di inserti sagomati scelti tra quelli sotto riportati. L'utensile viene prodotto in due versioni: Ø 180 mm e Ø 220 mm. Il gruppo viene fornito, salvo diversa specifica, con la piattabanda A e la sagoma 6.

F Corps en acier avec trois plaquettes verticales et trois plaquettes horizontales. Sur tous les logements on peut monter diverses plaquettes profilées, choisies parmi celles qui se trouvent dans cette page. Le porte-outils est produit en deux versions: Ø180 mm et Ø220 mm. Sauf autres indications, le jeu est fourni avec profil no. 6 et plate-bande A.

E Cuerpo en acero con tres cuchillas verticales y tres cuchillas horizontales. En los cabezales pueden montar distintas cuchillas perfiladas, elegidas entre las que encuentran en esta hoja. Hay dos modelos de cabezal: Ø 180 mm y Ø 220 mm. Salvo otras indicaciones, el juego de fresas es ofrecido con el perfil 6 y el perfil para plafones A.

UK Steel tool-set with three vertical and three horizontal knives. On the tools you can set different profiled knives, which you have to choose in this page. There are two models: Ø180mm and Ø220mm. Unless other instructions, the tool-set is supplied with profile no. 6 and raised panel profile A.

D Stahl-Ausführung mit drei senkrechten und drei waagerechten Messern. Auf allen Sätzen kann man verschiedene Sorten von profilierten Messern, die Sie hier unten herausuchen können. Das Werkzeug wird in zwei Versionen hergestellt: Ø180mm und Ø220mm. Wenn nicht anders angegeben, wird die Fräsergarnitur mit Profil 6 und Abplattungsprofil A geliefert.



ØD max	B	Ø d	Z	L	Cod.	COD. P.
180	20	35 /40	3+3	50	CP035.180.3221	A 1620
220	20	35 /40 /50	3+3	60	CP035.220.3221 ▲	A 1748

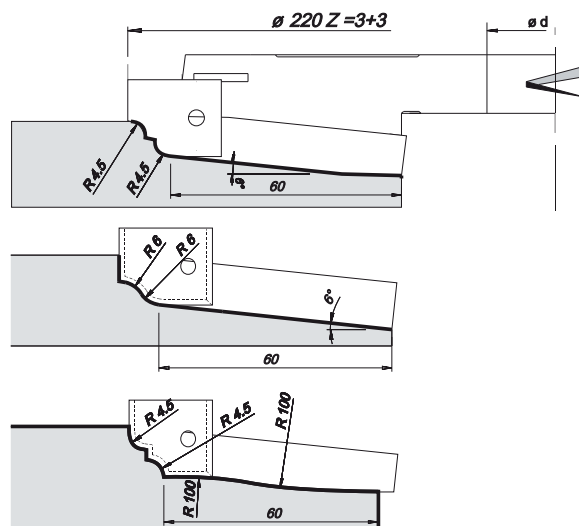
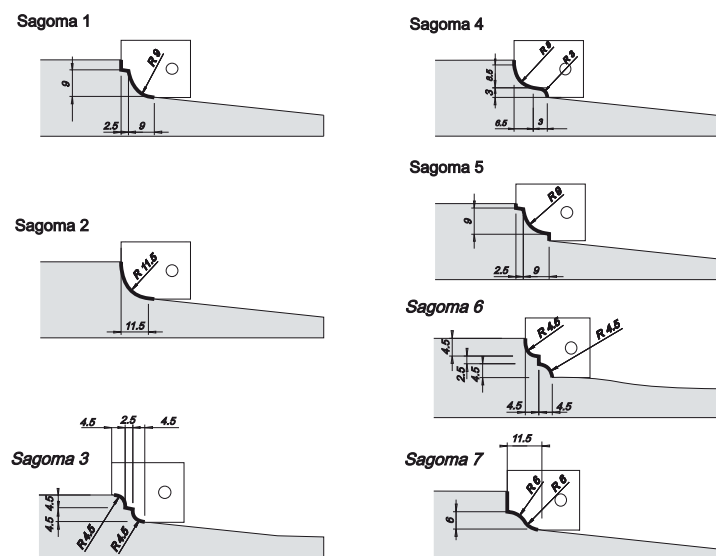
▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio

B	Cod.	COD. P.
Sagoma 1	F2.19.1055	B 864
Sagoma 2	F2.20.1378	B 864
Sagoma 3	F2.19.1057	B 864
Sagoma 4	F2.19.1058	B 864
Sagoma 5	F2.19.1059	B 864
Sagoma 6	F2.19.1060	B 864
Sagoma 7	F2.20.1379	B 864

Inserti di ricambio

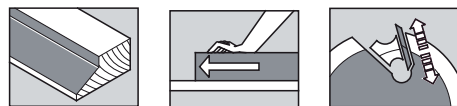
B	Cod.	COD. P.
L = 60		
Piattabanda A	F2.60.1049	B 292
Piattabanda B	F2.60.1047	B 680
Piattabanda C	F2.60.1045	B 740
L = 50		
Piattabanda A	F2.50.1062	B 244
Piattabanda B	F2.50.1063	B 508
Piattabanda C	F2.50.1064	B 680





Fresa per piattabanda Z 3+3
Fraise pour plate-bande Z 3+3
Fresa para plafones Z 3+3
Raised panel cutter Z 3+3
Abplattfräser Z 3+3

CP035



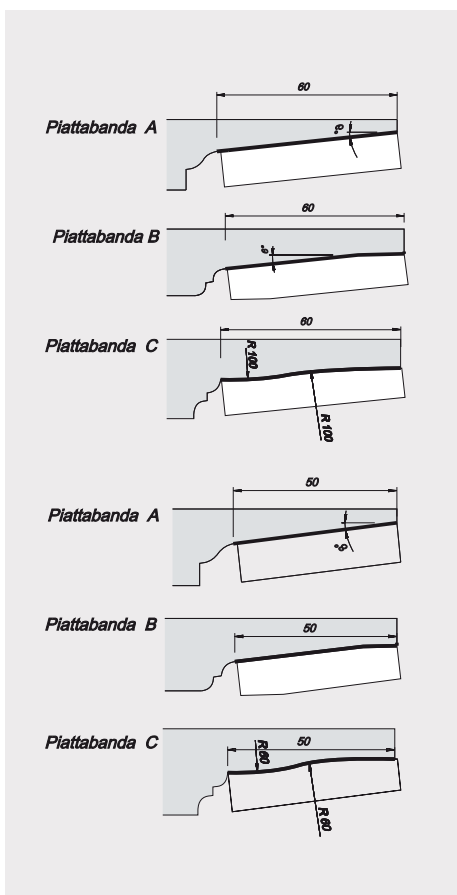
I Utensile composto da un corpo in acciaio con tre taglienti verticali e tre orizzontali. Su tutti i taglienti si possono montare diversi tipi di inserti sagomati scelti tra quelli sotto riportati. L'utensile viene prodotto in due versioni : Ø 180 mm e Ø 220 mm. Il gruppo viene fornito, salvo diversa specifica, con la piattabanda A e la sagoma 6.

F Corps en acier avec trois plaquettes verticales et trois plaquettes horizontales. Sur toutes les sièges on peut monter diverses plaquettes profilées, choisies parmi celles qui se trouvent dans cette page. Le porte-outils est produit en deux versions: Ø180mm et Ø220mm. Sauf autre indication, le jeu est fourni avec profil no. 6 et plate-bande A.

E Cuerpo en acero con tres cuchillas verticales y tres cuchillas horizontales. Sobre los cabezales se pueden montar distintas cuchillas perfiladas, entre las que hay en esta página. Hay dos modelos de cabezal: Ø180mm y Ø220mm. Salvo otra indicación, el juego de fresas es vendido con el perfil 6 y el perfil para plafones A.

UK Steel tool-set with three vertical and three horizontal knives. On the tools you can set different profiled knives, which you have to choose in this page. There are two models: Ø180mm and Ø220mm. Unless other instructions, the tool-set is supplied with profile no. 6 and raised panel profile A.

D Stahl-Ausführung mit drei senkrechten und drei waagerechten Messern. Auf allen Sitzen kann man verschiedene Sorten von profilierten Messern, die Sie hier unten herausuchen können. Das Werkzeug wird in zwei Versionen hergestellt: Ø180mm und Ø220mm. Wenn nicht anders angegeben, wird die Fräsegarmitur mit Profil 6 und Abplattungsprofil A geliefert.



ØD max	B	Ø d	Z	L	Cod.	COD. P.
180	20	35 /40	3+3	50	CP035.180.3222	A 1620
220	20	35 /40 /50	3+3	60	CP035.220.3222 ▲	A 1748

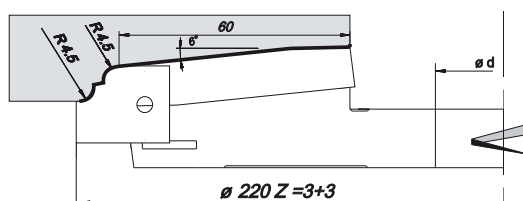
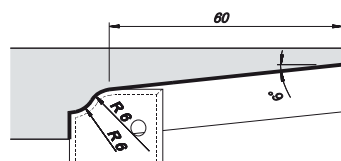
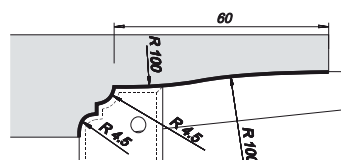
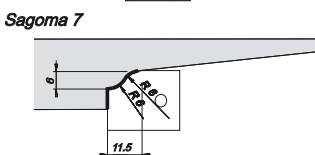
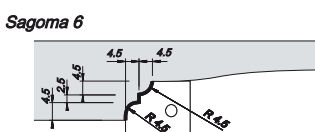
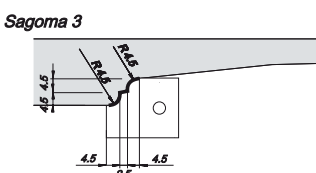
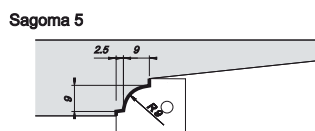
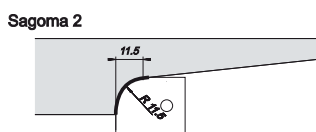
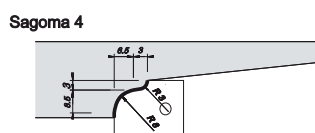
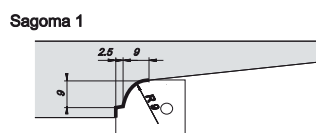
▲ disponibilità immediata con sconto maggiore

Inserti di ricambio

B	Cod.	COD. P.
Sagoma 1	F2.19.1272	B 864
Sagoma 2	F2.20.1378.2	B 864
Sagoma 3	F2.19.1274	B 864
Sagoma 4	F2.19.1275	B 864
Sagoma 5	F2.19.1276	B 864
Sagoma 6	F2.19.1271	B 864
Sagoma 7	F2.20.1379.2	B 864

Inserti di ricambio

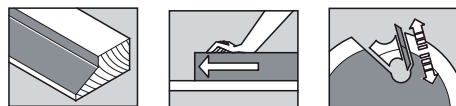
B	Cod.	COD. P.
L = 60		
Piattabanda A	F2.60.1049	B 292
Piattabanda B	F2.60.1048	B 740
Piattabanda C	F2.60.1046	B 680
L = 50		
Piattabanda A	F2.50.1062	B 292
Piattabanda B	F2.50.1278	B 740
Piattabanda C	F2.50.1279	B 680





Fresa per piattabanda Z 2+2
Fraise pour plate-bande Z 2+2
Fresa para plafones Z 2+2
Raised panel cutter Z 2+2
Abplattfräser Z 2+2

CP 945



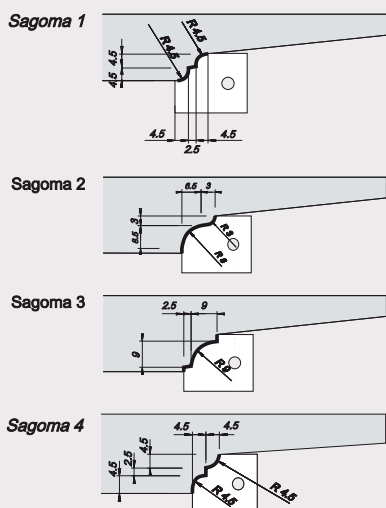
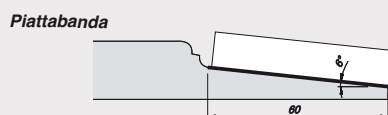
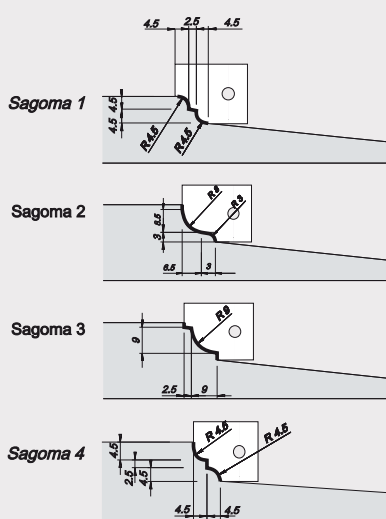
I Utensile composto da un corpo in acciaio con due taglienti verticali e due orizzontali. I taglienti verticali possono montare quattro sagome diverse. I taglienti orizzontali, grazie alla nuova inclinazione assiale e agli inserti in micrograno con spoglia a 45° permettono di ottenere delle ottime finiture su ogni tipo di legno. Il gruppo viene fornito, salvo diversa specifica, con la sagoma 4.

F Corps en acier avec deux plaquettes verticales et deux plaquettes horizontales. Les plaquettes verticales peuvent monter quatre profils différents. Les plaquettes horizontales, grâce à la nouvelle inclinaison axiale et aux couteaux en micrograin avec angle de dépouille à 45° permettent d'obtenir des finitions optimales sur tout type de bois. Le jeu est livré, sauf autre indication supplémentaire, avec le profil 4.

E Cuerpo en acero con dos cuchillas verticales y dos cuchillas horizontales. Las cuchillas verticales pueden tener cuatro perfiles distintos. Las cuchillas horizontales, gracias a la nueva inclinación axial y a los insertos en micrograno con ángulo de salida de 45° permiten obtener un acabado óptimo en toda tipología de madera. El grupo se entrega, salvo otra indicación, con el perfil núm.4.

UK Steel tool-set with two vertical and two horizontal knives. On the two vertical knives you can mount four different profiles. Thanks to the axle inclination and to the microcorn inserts with 45° angle of the horizontal knives you can work every kind of wood obtaining the best results. Unless other indications, the tool-set is supplied with profile no. 4.

D Stahl-Ausführung mit zwei senkrechten und zwei waagerechten Messern. Auf den zwei senkrechten Messern kann man vier verschiedene Profile befestigen. Dank dem ziehenden Schnitt der waagerechten Messer und den Mikrokorn-Vorschneidern mit 45° Winkel kann man jede Holzsorte bestens bearbeiten. Wenn nicht anders gesagt, wird die Garnitur mit Profil Nr. 4 geliefert.



ØD max	B	Ø d	Z	L	Cod.	COD. P.
220	20	35 / 40 / 50	2 + 2	60	CP945.220.2221 ▲	A 1580
220	20	35 / 40 / 50	2 + 2	60	CP945.220.2222 ▲	A 1580

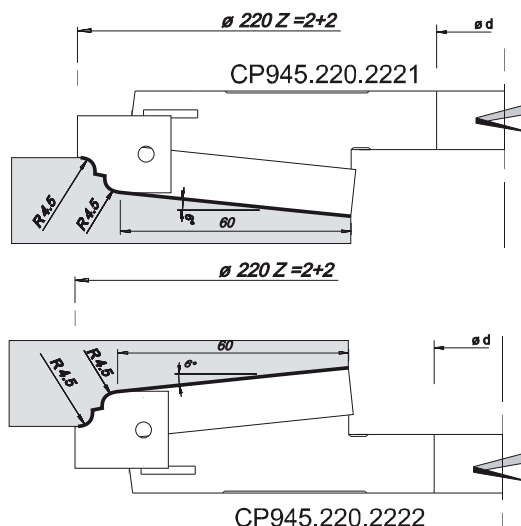
▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio Dx da sopra

B	Cod.	COD. P.
Sagoma 1	F2.19.1057	B 864
Sagoma 2	F2.19.1058	B 864
Sagoma 3	F2.19.1059	B 864
Sagoma 4	F2.19.1060	B 864
Piattabanda	F2.60P6093.0	B 292

Inserti di ricambio Dx da sotto

B	Cod.	COD. P.
Sagoma 1	F2.19.1274	B 864
Sagoma 2	F2.19.1275	B 864
Sagoma 3	F2.19.1276	B 864
Sagoma 4	F2.19.1271	B 864
Piattabanda	F2.60P6093.0	B 292





Piattabanda Z2 x 4 "Multiprofil"

Fraise pour plate-bande Z2 x 4

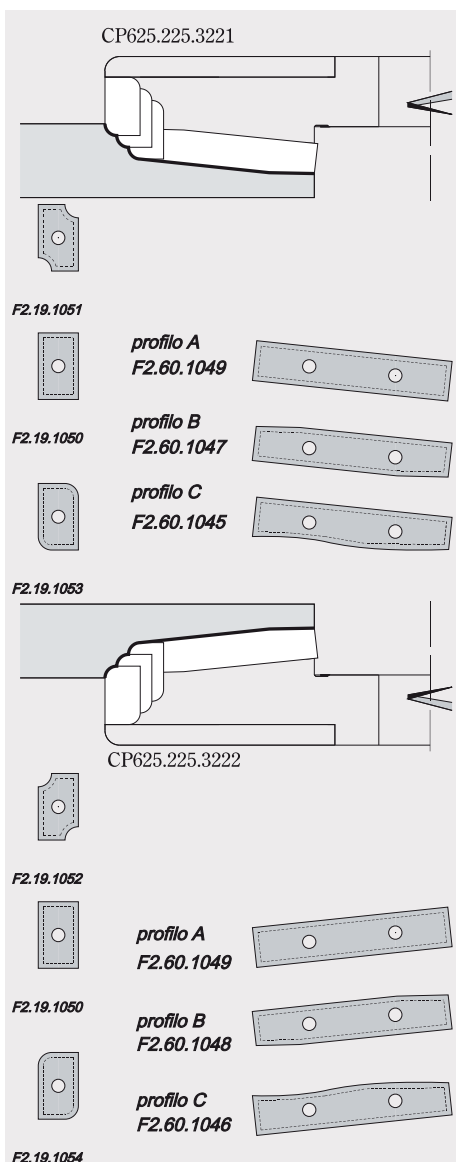
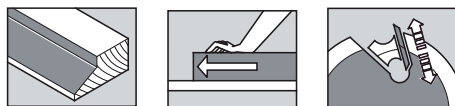
"Multiprofil"

Fresa para plafones Z2 x 4 "Multiprofil"

Raised panel cutter Z2 x 4 "Multiprofil"

Abplattfräser Z2 x 4 "Multiprofil"

CP 625



I Le cave taglienti sul diametro max possono montare il coltello diritto concavo o convesso. Fornito a corredo, mentre sul piano inclinato sono previsti altri tre tipi di profilo. A, B e C la combinazione di tutti questi inserti consente di ottenere più di 170 profili diversi. Il gruppo viene fornito, salvo diversa specifica, con il profilo A.

F Sur le Ø maxi on peut monter la plaquette droite concave ou convexe fournie, tandis que sur la partie inclinée autres trois profils sont prévus. A, B et C et la combinaison de toutes ces plaquettes permettent d'obtenir plus de 170 profils différents. Sauf autres indications, le jeu de fraises est fourni avec le profil A.

E Sobre el Ø máx. pueden montar la cuchilla derecha cóncava o convexe, en la parte inclinada otros tres perfiles. A, B y C y la combinación de todas estas cuchillas permiten obtener más de 170 perfiles distintos. Salvo otra indicación, el juego de fresas es ofrecido con el perfil A.

UK On the max. Ø you can put the straight concave or convex knife, on the inclined side other three knives. A, B, C and their combinations enable to obtain more than 170 different profiles. Unless other instructions, the tool set is supplied with profile A.

D Auf dem max.Ø kann man das gerade, konkave bzw. konvexe Messer befestigen, auf der schrägen Seite kann man drei andere Messer befestigen. A, B, C und ihre Kombinationen gestatten die Ausführung von über 170 verschiedenen Profilen. Wenn nicht anders angegeben, wird die Fräsgarnitur mit Profil A geliefert.

ØD max	B	Ø d	Z	Cod.	COD. P.
225	30	35 / 40 / 50	2+2+2+2	CP625.225.3221 ▲	A 1836
225	30	35 / 40 / 50	2+2+2+2	CP625.225.3222 ▲	A 1836

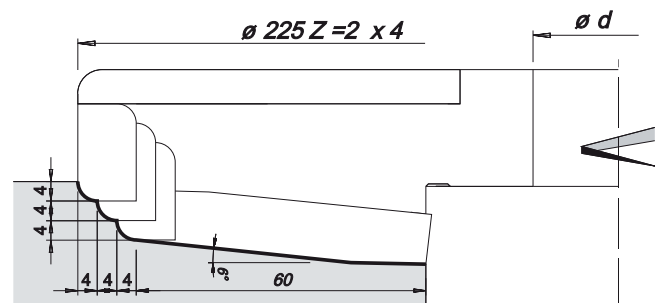
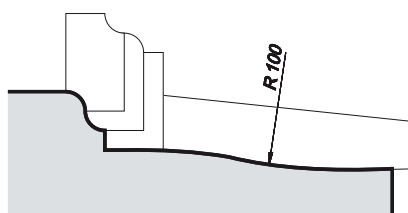
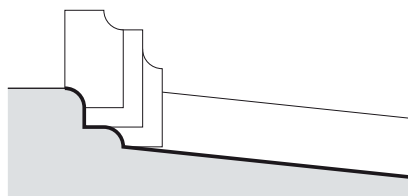
▲ disponibilità immediata con sconto maggiorato

Inserti di ricambio

B	Cod.	COD. P.
20x12x1.5	F2.19.1051	B 520
20x12x1.5	F2.19.1050	B 260
20x12x1.5	F2.19.1053	B 520
Piattabanda A	F2.60.1049	B 292
Piattabanda B	F2.60.1047	B 680
Piattabanda C	F2.60.1045	B 740

Inserti di ricambio

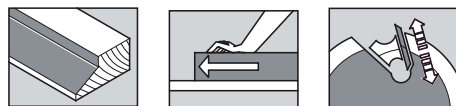
B	Cod.	COD. P.
20x12x1.5	F2.19.1052	B 520
20x12x1.5	F2.19.1050	B 260
20x12x1.5	F2.19.1054	B 520
Piattabanda A	F2.60.1049	B 292
Piattabanda B	F2.60.1048	B 680
Piattabanda C	F2.60.1046	B 740





Piattabanda
Fraise pour plate-bande
Fresa para plafones
Raised panel cutter
Abplattfräser

CP 839



I Piattabanda profilata a profilo concavo. Il profilo è ottenuto con un unico coltello sagomato. Corpo in acciaio foro diretto.

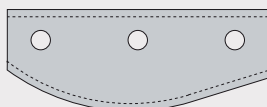
F Fraise pour plate-bande avec profil concave. Le profil est obtenu par une seule plaquette profilée. Corps en acier, sans manchon.

E Fresa para plafones con perfil cóncavo. La moldura es obtenida con una cuchilla perfilada. Cuerpo en acero, sin manguito.

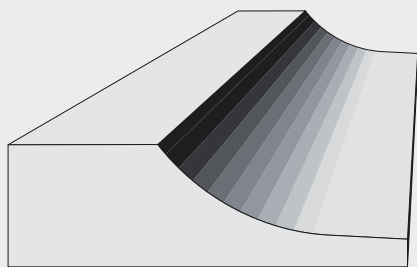
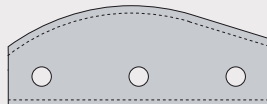
UK Raised panel cutter with concave profile. The profile is executed by one profiled knife. Steel tool, without sleeve.

D Abplattfräser mit konkavem Profil. Das Profil wird durch ein profiliertes Messer bearbeitet. Stahl-Ausführung, ohne Büchse.

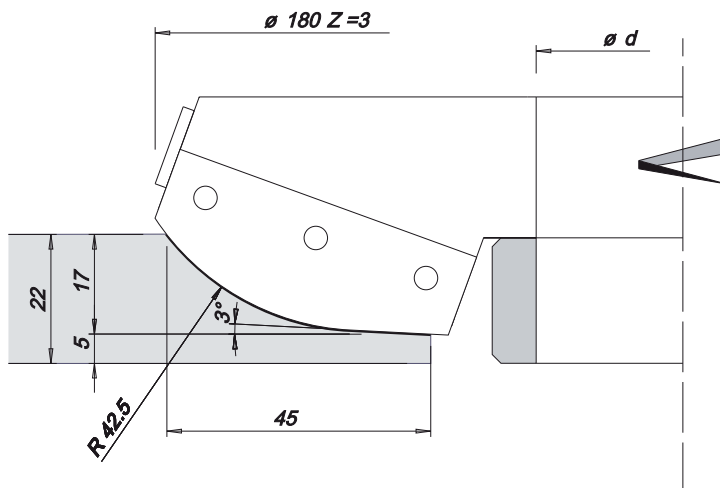
F2.54P3948.1



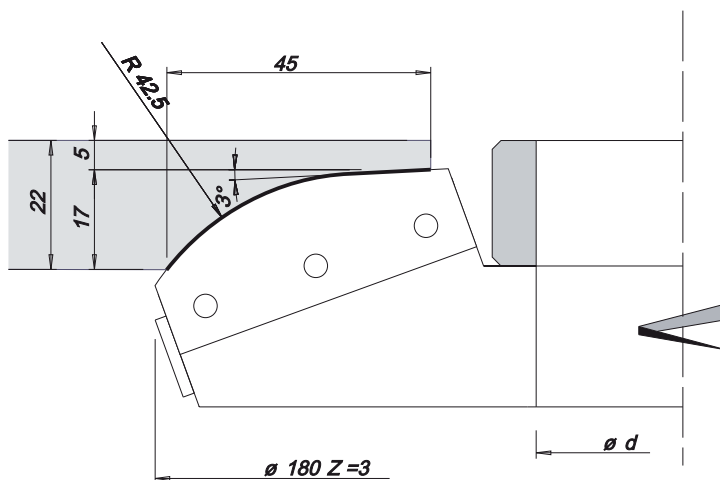
F2.54P3948.2



ØD max	B	Ø d	Z	L	Cod.	COD. P.
180	18	35/40/50	3	45	CP839.180.3181	A 1722



ØD max	B	Ø d	Z	L	Cod.	COD. P.
180	18	35/40/50	3	45	CP839.180.3182	A 1722



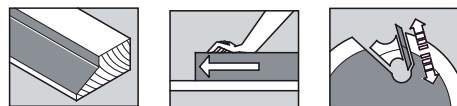
Inserti di ricambio

B	Cod.	COD. P.
Sagoma	F2.54P3948.1	B 1478
Sagoma	F2.54P3948.2	B 1478



Piattabanda
Fraise pour plate-bande
Fresa para plafones
Raised panel cutter
Abplattfräser

CP 037



I La sagoma è realizzata con due coltelli per avere su tutto il profilo le migliori impostazioni di taglio. Corpo in acciaio foro diretto.

F Le profil est effectué par deux plaquettes pour obtenir une coupe meilleure. Corps en acier, sans manchon.

E La moldura se hace con dos cuchillas para obtener un acabado mejor. Cuerpo en acero, sin mango.

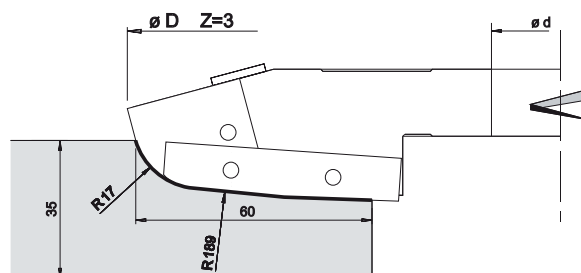
UK The profile is executed by two knives, in order to obtain a better product. Steel tool, without sleeve.

D Die Profilierung wird von zwei Messern durchgeführt, so wird eine feinere Bearbeitung gewährleistet. Stahl-Ausführung, ohne Büchse.

ØD max	B	Ø d	Z	L	Cod.	COD. P.
190	24	35/40	3+3	50	CP037.190.3001	A 1970
220	24	35/40	3+3	60	CP037.220.3001	A 2092

Inserti di ricambio

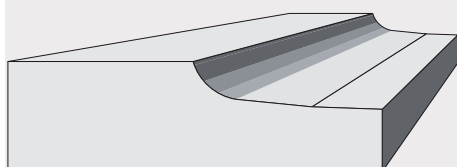
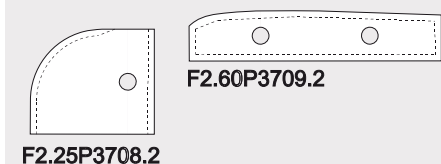
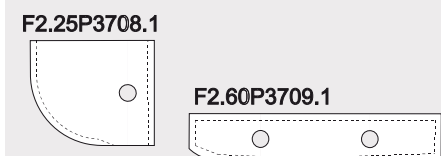
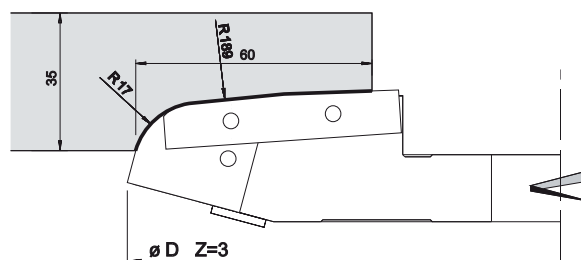
B	Cod.	COD. P.
Sagoma	F2.25P3708.1	B 864
Piattabanda	F2.60P3709.1	B 740



ØD max	B	Ø d	Z	L	Cod.	COD. P.
190	24	35/40	3+3	50	CP037.190.3002	A 1970
220	24	35/40	3+3	60	CP037.220.3002	A 2092

Inserti di ricambio

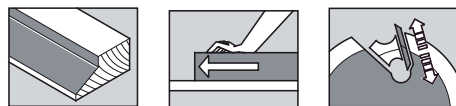
B	Cod.	COD. P.
Sagoma	F2.25P3708.2	B 864
Piattabanda	F2.60P3709.2	B 740





Piattabanda "Best Cut"
Fraise pour plate-bande "Best Cut"
Fresa para plafones "Best Cut"
Raised panel cutter "Best Cut"
Abplattfräser "Best Cut"

CP 640

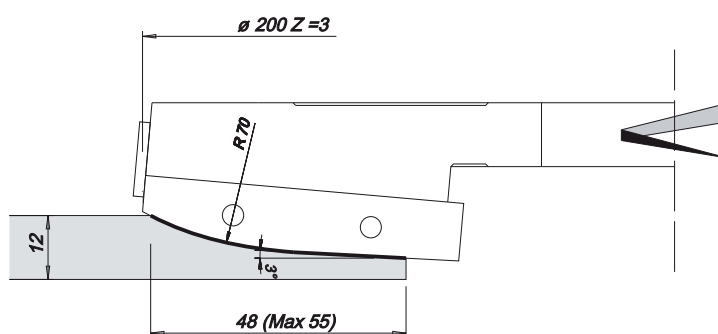


- I Fresa per piattabanda sagomata. Piattabanda specifica per la lavorazione di legno duro e MDF.
- F Fraise pour plate-bande profilée. Surtout pour l'usinage de bois dur et MDF.
- E Fresa para plafones perfilada. Para trabajar madera dura y MDF
- UK Profiled raised panel cutter. Especially for hard wood and MDF.
- D Profiliertes Abplattfräser. Speziell für die Bearbeitung von hartem Holz und MDF.

F2.60P5618.1



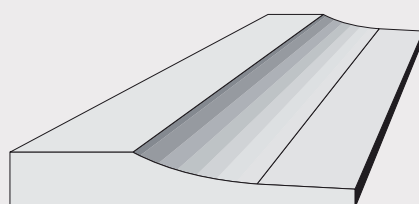
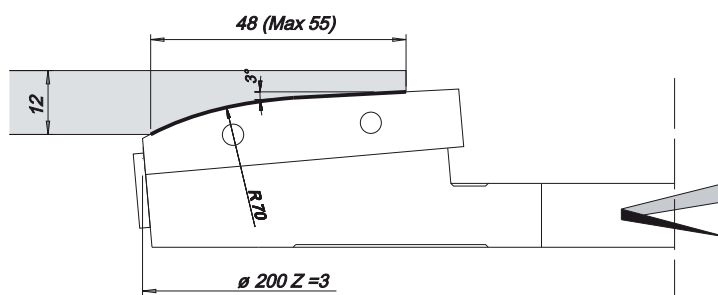
ØD max	B	Ø d	Z	L	Cod.	COD. P.
200	8	35/40/50	3	55	CP640.200.3081	A 1660



F2.60P5618.2



ØD max	B	Ø d	Z	L	Cod.	COD. P.
200	8	35/40/50	3	55	CP640.200.3082	A 1660

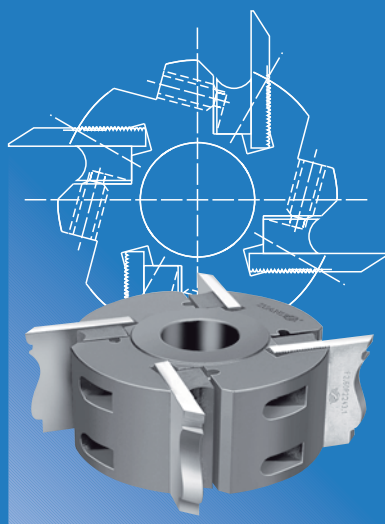


Inserti di ricambio

B	Cod.	COD. P.
Piattabanda	F2.60P5618.1	B 740
Piattabanda	F2.60P5618.2	B 740



Frese sagomate Fraises profil Fresas para moldura Profiled tools Profilfräser

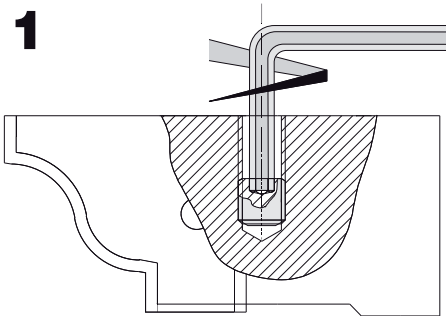


Regolazione per inserti sagomati Réglage pour plaquettes profilées Reglaje para cuchillas perfiladas Adjustment for profiled knives Regulierung der profilierten Messer	7-2
Testa multiraggio Fraises profilées spéciales Fresas perfiladas especiales Special profile cutterhead Spezieller, profilierter Messerkopf	CS 041 7-3
Fresa per 1/4 di raggio Fraises pour 1/4 de rond Fresas 1/4 de radio Cutterhead for 1/4 radius Messerkopf für 1/4 Radius	CS056 7-4
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Regolazione per inserti sagomati
Réglage pour plaquettes profilées
Reglaje para cuchillas perfiladas
Adjustment for profiled knives
Regulierung der profilierten Messer



1



- I**
1. Inserire il grano ed avvitarlo fino in fondo.
 2. Avvitare il fermo fino a toccare la placchetta o il corpo fresa.
 3. Svitare il grano fino al suo bloccaggio contro il fermo.

Per successive regolazioni:

- a) Avvitare il grano come al punto (1).
- b) Posizionare il fermo.
- c) Svitare il grano come al punto (3).

- F**
1. Insérez la vis et serrez-la complètement.
 2. Serrez l'arrêt jusqu'à quand vous toucherez la plaquette ou le porte-outils.
 3. Deserrez la vis jusqu'à son blocage contre l'arrêt.

Pour toute réglage successif:

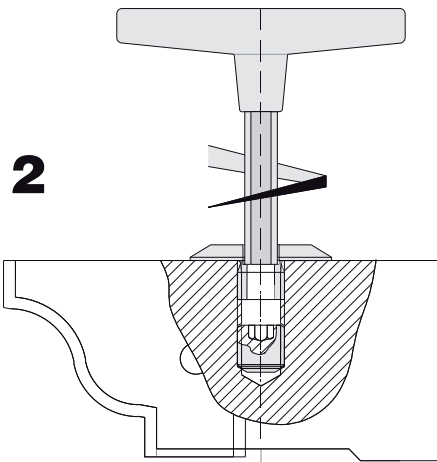
- a) Répétez le point (1).
- b) Positionnez l'arrêt.
- c) Répétez le point (3).

- E**
1. Insertar el tornillo y cerrarlo completamente.
 2. Cerrar el afirmador hasta que toque la cuchilla o el cabezal.
 3. Destornillar el tornillo hasta su bloqueo contra el afirmador.

Para los reglajes sucesivos:

- a) Repetir el punto (1).
- b) Posicionar el afirmador.
- c) Repetir el punto (3).

2



- UK**
1. Insert the screw and screw it down totally.
 2. Screw down the clamp till it touches the knife or the cutter-head.
 3. Unscrew the screw till its locking against the clamp.

For the next adjustments:

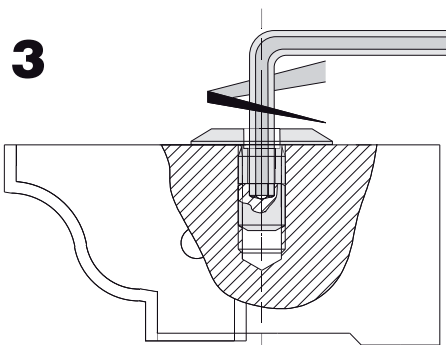
- a) Repeat point (1).
- b) Set the clamp.
- c) Repeat point (3).

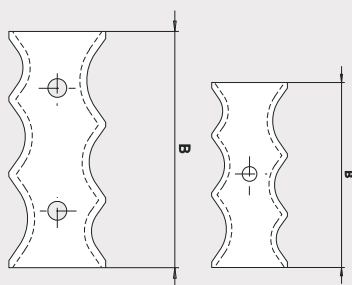
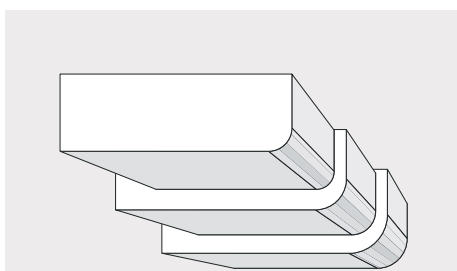
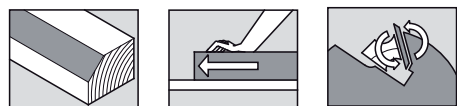
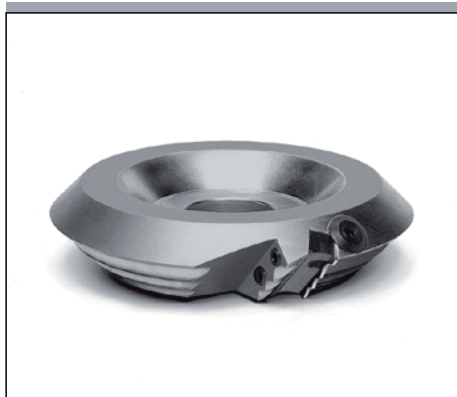
- D**
1. Schraube einführen und sie vollständig drehen.
 2. Haltevorrichtung anschrauben, bis sie gegen das Messer bzw. den Messerkopf stößt
 3. Schraube lösen, bis sie gegen die Haltevorrichtung festklemmt

Für die weiteren Regulierungen:

- a) Punkt 1 wiederholen.
- b) Haltevorrichtung positionieren.
- c) Punkt 3 wiederholen.

3





Testa multiraggio **Fraises profilées spéciales** **Fresas perfiladas especiales** **Special profile cutterhead** **Spezieller, profilierter Messerkopf**

CS 041



I Sono due frese per fare le spigolature rotonde, ogni fresa può eseguire più raggi. Fresa con B=30 esegue i raggi R2 - R3 - R5. Fresa con B=50 esegue i raggi R6 - R8 - R10. Corpo in acciaio ad alta resistenza con auto posizionamento.

F Il s'agit de deux fraises pour arrondir, chaque fraise peut faire plusieurs rayons. Fraise avec B=30 exécute les rayon R2 -R3 - R5. Fraise avec B=50 exécute les rayons R6 - R8 - R10. Corps en acier à haute résistance avec auto-positionnement.

E Se trata de dos fresas para redondear; cada fresa puede hacer distintos radios. La fresa con B=30 hace los radios R2 - R3 - R5. La fresa con B=50 hace los radios R6 - R8 - R10. Cuerpo en acero a elevada resistencia con auto-posicionamiento.

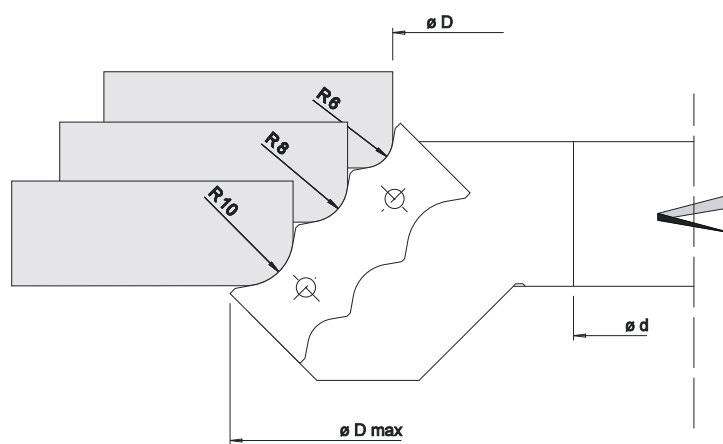
UK It is composed of two rounding tools; every tool can execute different radii. The tool with B=30 executes radius R2 - R3 - R5. The tool with B=50 executes radius R6 - R8 - R10. High grade steel tool with self-positioning.

D Der Messerkopf besteht aus zwei Fräsern zum Abrunden; jeder Fräser kann verschiedene Radien ausführen. Der Fräser mit B=30 führt R2 - R3 - R5 aus. Der Fräser mit B=50 führt R6 - R8 - R10 aus. Stahl-Messerkopf mit hoher Festigkeit und Selbstpositionierung.

D	B	D max	d max	Z	Cod.	COD. P.
125	30	168	50	2	CS041.125.2030	A 960
125	50	202	50	2	CS041.125.2050	A 1220

Inserti sagomati

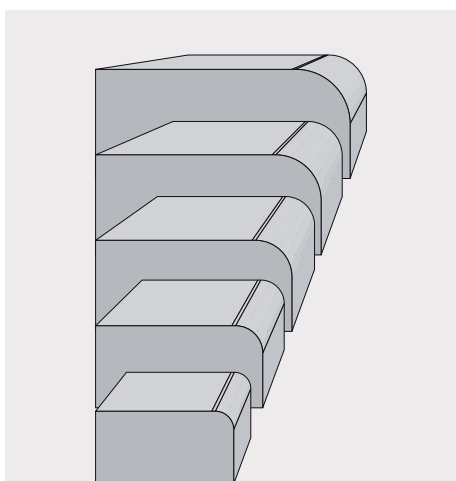
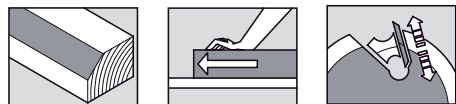
Bx12x1.5	R	Cod.	COD. P.
30	2 - 3 - 5	F2.30.1407	B 430
60	6 - 8 - 10	F2.60.1376	B 544





Fresa per 1/4 di raggio
Fraises pour 1/4 de rond
Fresas 1/4 de radio
Cutterhead for 1/4 radius
Messerkopf für 1/4 Radius

CS056



I Fresa per eseguire raccordi raggiati di 1/4 di raggio. Sullo stesso corpo è possibile intercambiare 5 inserti, in dotazione, di raggio 5 - 7.5 - 10 - 12.5 - 15.

F Fraises pour aboutages arrondis 1/4 de rayon. Sur le même corps on peut changer 4 plaquettes, fournies avec les fraises: rayon 5 - 7,5 - 10 - 12,5 et 15.

E Fresas para ensambles redondeados 1/4 de radio. Sobre el mismo cabezal pueden intercambiar 4 cuchillas, ofrecidas con las fresas: R 5 - 7,5 - 10 - 12,5 y 15.

UK 1/4 radius rounded jointing tool. On the same tool you can change 4 knives, which are supplied with the tool: R 5 - 7,5 - 10 - 12,5 and 15.

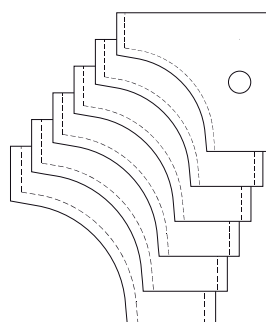
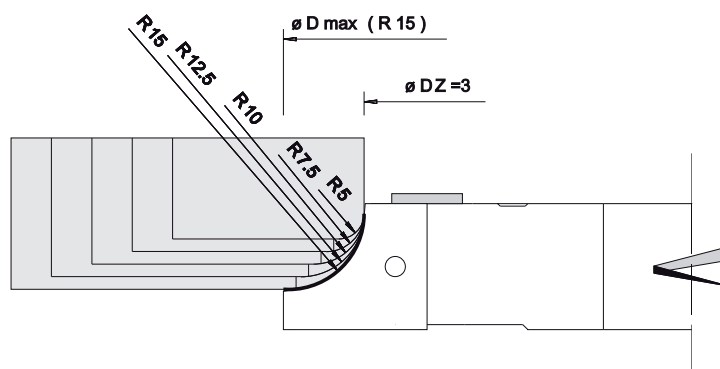
D Fräser für abgerundete Verbindungen 1/4 Radius. Auf demselben Kopf kann man 4 Messer austauschen; sie sind zusammen mit dem Fräser geliefert: R 5 - 7,5 - 10 - 12,5 und 15.

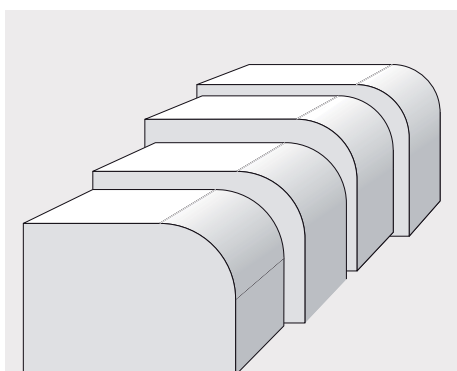
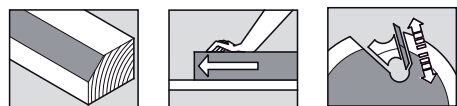
D	B	d max	Z	Cod.	COD. P.
130	25	40	3	CS056.130.3001 ▲	A 2220

▲ disponibilità immediata con sconto maggiorato

Inserti

R	Cod.	COD. P.
5	F2.25P3317.1	B 780
7.5	F2.25P3318.1	B 780
10	F2.25P3319.1	B 780
12.5	F2.25P3320.1	B 780
15	F2.25P3321.1	B 780





Fresa per 1/4 di raggio
Fraises pour 1/4 de rond
Fresas 1/4 de radio
Cutterhead for 1/4 radius
Messerkopf für 1/4 Radius

CS 056



I Fresa per eseguire raccordi raggiati di 1/4 di raggio. Sullo stesso corpo è possibile intercambiare 4 inserti, in dotazione, di raggio 17.5 - 20 - 22.5 - e 25.

F Fraises pour aboutages arrondis 1/4 de rayon. Sur le même corps on peut changer 4 plaquettes, fournies avec les fraises: rayon 17,5 - 20 - 22,5 et 25.

E Fresas para ensambles redondeados 1/4 de radio. Sobre el mismo cabezal pueden intercambiar 4 cuchillas, ofrecidas con las fresas: R 17,5 - 20 - 22,5 y 25.

UK 1/4 radius rounded jointing tool. On the same tool you can change 4 knives, which are supplied with the tool: R 17,5 - 20 - 22,5 and 25.

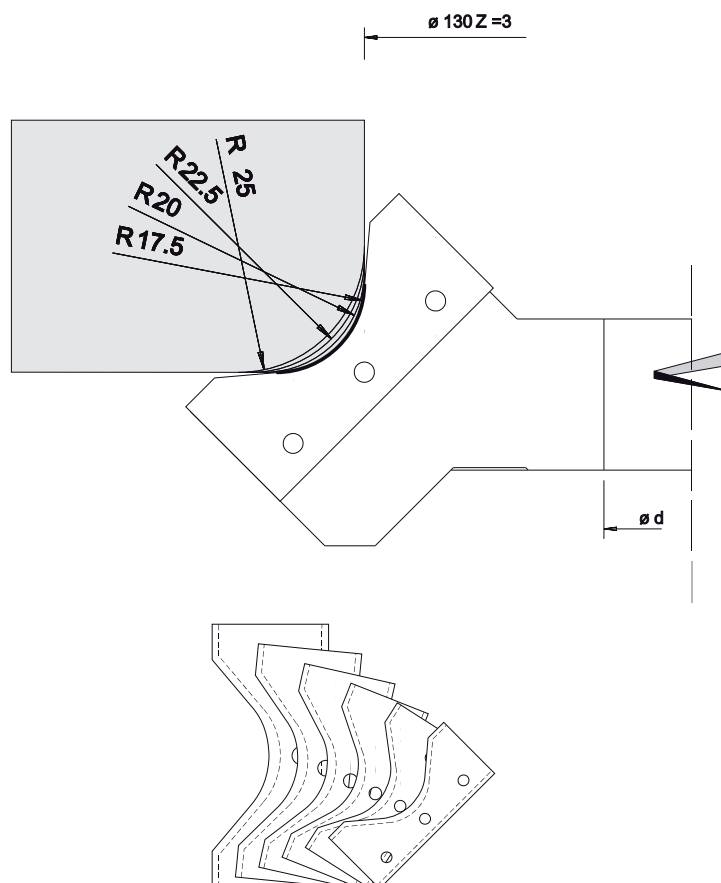
D Fräser für abgerundete Verbindungen 1/4 Radius. Auf demselben Kopf kann man 4 Messer austauschen; sie sind zusammen mit dem Fräser geliefert: R 17,5 - 20 - 22,5 und 25.

D	B	d max	Z	Cod.	COD. P.
130	60	40	3	CS056.130.3002 ▲	A 2878

▲ disponibilità immediata con sconto maggiorato

Inserti

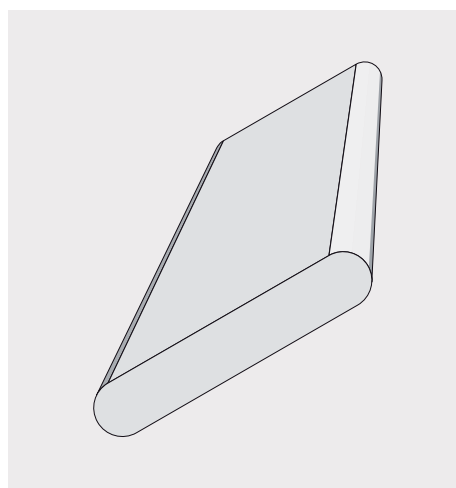
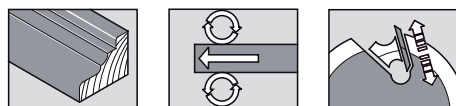
R	Cod.	COD. P.
17.5	F2.60P3322.0	B 1480
20	F2.60P3323.0	B 1480
22.5	F2.60P3324.0	B 1480
25	F2.60P3325.0	B 1480





Fresa per palette
Porte-outils "demi rond"
Cabezal "medio radio"
Profile cutterhead "radius"
Fillstabmesserkopf

CS 032



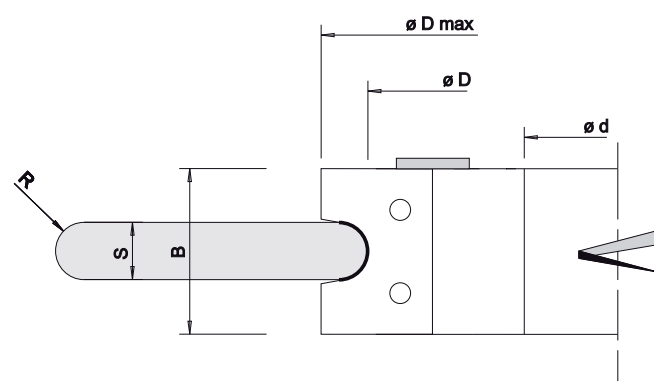
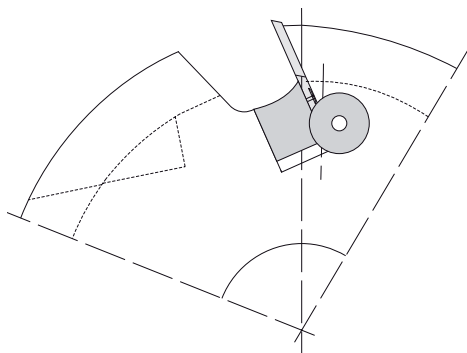
I Fresa per palette raggiate. Ogni fresa può eseguire più spessori compresi nel S min./max della tabella sostituendo solo l'inserto sagomato. I coltelli sono reversibili ed a richiesta è possibile realizzare raggi diversi da quelli indicati. La fresa è fornita, salvo diversa specifica, **con il raggio evidenziato in tabella.**

F Porte-outils pour arrondir. Chaque porte-outil peut exécuter plusieurs épaisseurs compris dans le S min./max. du tableau en changeant seulement la plaquette profilée. Les plaquettes sont réversibles et sur demande, on peut réaliser des rayons différents parmi ceux indiqués. Sauf autres indications, le porte-outils est fourni **avec le rayon mis en évidence dans le tableau.**

E Cabezal para redondear. Cada fresa puede hacer distintos espesores dentro del S min./max. del cuadro, cambiando solamente la cuchilla perfilada. Las cuchillas son reversibles y bajo pedido pueden realizar radios distintos de aquellos indicados. Salvo otras indicaciones, el cabezal es ofrecido **con el radio evidenciado.**

UK Profile cutterhead "radius". Every cutterhead can execute different thicknesses, if they are contained in the S min./max. of the table, by changing only the profiled knife. The knives are reversible and, on request, we can execute a different radius from the ones, which are indicated in the table. Unless other instructions, the cutterhead is supplied **with the radius as pointed out.**

D Fillstabmesserkopf. Durch die einfache Auswechslung des profilierten Messers kann jeder Messerkopf verschiedene Stärken ausführen, die im S min./max. der Tafel eingeschlossen sind. Die Messer sind umkehrbar und, auf Wunsch, kann man einen anderen Radius adoptieren als diejenigen, die in der Tafel angegeben sind. Wenn nicht anders angegeben, wird der Messerkopf **mit dem hervorgehobenen Radius geliefert.**



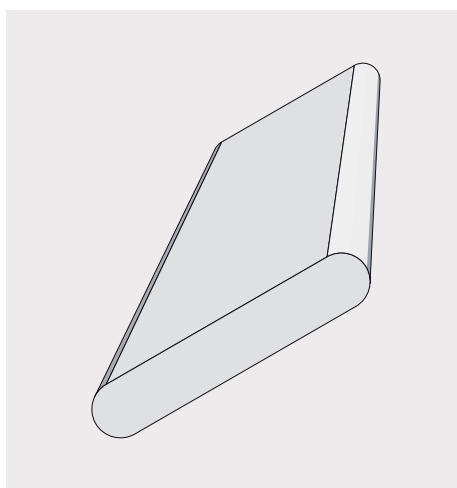
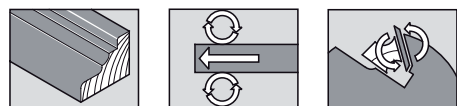
D	D max	B	S min/max	d max	Z	Cod.	COD. P.
100	112	20	8 / 10	40	2	CS032.100.2020	A 592
100	118	30	11 / 16	40	2	CS032.100.2030	A 714
100	126	40	17 / 24	40	2	CS032.100.2040	A 844

B	S	R	Cod.	COD. P.
20	8	4	F2.20.1395	B 480
20	10	5	F2.20.1396	B 480
30	11	5,5	F2.30.1397	B 580
30	12	6	F2.30.1398	B 580
30	13	6,5	F2.30.1399	B 580
30	14	7	F2.30.1400	B 580
30	15	7,5	F2.30.1401	B 580
30	16	8	F2.30.1402	B 580
40	20	10	F2.40.1403	B 720
40	22	10,5	F2.40.1404	B 720
40	24	12	F2.40.1405	B 720



Fresa per palette
Porte-outils "demi rond"
Cabezal "medio radio"
Profile cutterhead "radius"
Fillstabmesserkopf

CS 035



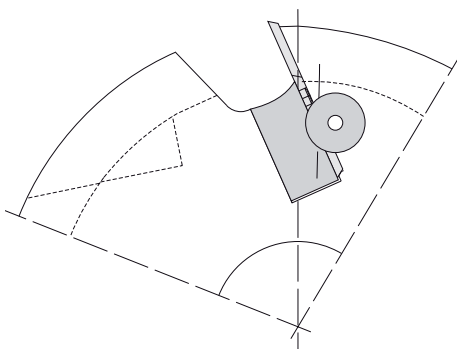
I Fresa per palette raggiate. Ogni fresa può eseguire più spessori compresi nel S min./max della tabella sostituendo solo l'inserto sagomato. I coltelli sono reversibili e a richiesta è possibile realizzare raggi diversi da quelli indicati. La fresa è fornita, salvo diversa specifica, **con il raggio evidenziato in tabella.**

F Porte-outils pour arrondir. Chaque porte-outil peut exécuter plusieurs épaisseurs compris dans le S min./max. du tableau, en changeant seulement la plaquette profilée. Les plaquettes sont réversibles et sur demande, on peut réaliser des rayons différents de ceux indiqués. Sauf autres indications, le porte-outils est fourni **avec le rayon mis en évidence dans le tableau.**

E Cabezal para redondear. Cada fresa puede hacer distintos espesores dentro del S min./max. del cuadro, cambiando solamente la cuchilla perfilada. Las cuchillas son reversibles y bajo pedido pueden realizar radios distintos de aquellos indicados. Salvo otras indicaciones, el cabezal es ofrecido **con el radio evidenciado.**

UK Profile cutterhead "radius". Every cutterhead can execute different thicknesses, if they are contained in the S min./max. of the table, by changing only the profiled knife. The knives are reversible and, on request, we can execute a different radius from the ones, which are indicated in the table. Unless other instructions, the cutterhead is supplied **with the radius as pointed out.**

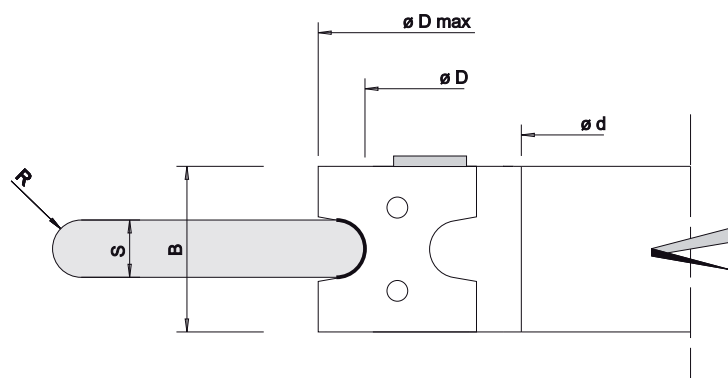
D Fillstabmesserkopf. Durch die einfache Auswechslung des profilierten Messers kann jeder Messerkopf verschiedene Stärken ausführen, die im S min./max. der Tafel eingeschlossen sind. Die Messer sind umkehrbar und, auf Wunsch, kann man einen anderen Radius adoptieren als diejenigen, die in der Tafel angegeben sind. Wenn nicht anders angegeben, wird der Messerkopf **mit dem hervorgehobenen Radius geliefert.**



D	D max	B	S min/max	d max	Z	Cod.	COD. P.
125	137	20	8 / 10	40	2	CS035.125.2020	A 634
125	143	30	11 / 16	40	2	CS035.125.2030 ▲	A 768
125	151	40	17 / 24	40	2	CS035.125.2040	A 904
130	143	20	8 / 10	50	3	CS035.130.3020	A 898
130	147	30	11 / 16	50	3	CS035.130.3030	A 1070
130	156	40	17 / 24	50	3	CS035.130.3040	A 1254
160	172	20	8 / 10	50	4	CS035.160.4020	A 1198
160	177	30	11 / 16	50	4	CS035.160.4030	A 1442
160	186	40	17 / 24	50	4	CS035.160.4040	A 1682

▲ disponibilità immediata con sconto maggiorato

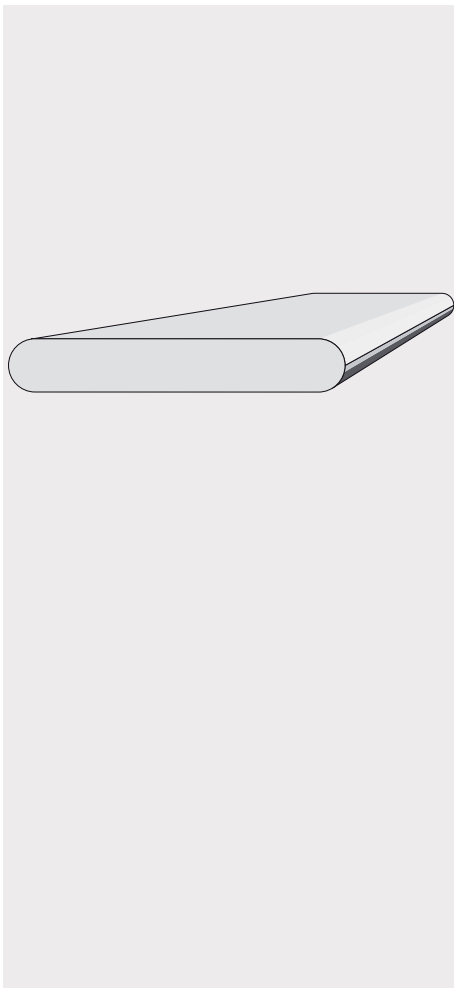
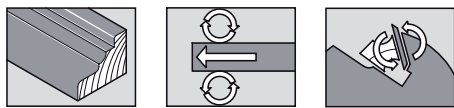
Inserti sagomati



B	S	R	Cod.	COD. P.
20	8	4	F2.20.1364	B 582
20	10	5	F2.20.1365	B 582
30	11	5,5	F2.30.1366	B 732
30	12	6	F2.30.1367	B 732
30	13	6,5	F2.30.1368	B 732
30	14	7	F2.30.1369	B 732
30	15	7,5	F2.30.1370	B 732
30	16	8	F2.30.1371	B 732
40	20	10	F2.40.1372	B 860
40	22	10,5	F2.40.1373	B 860
40	24	12	F2.40.1374	B 860

Fresa per palette
Porte-outils "demi rond"
Cabezal "medio radio"
Profile cutterhead "radius"
Fillstabmesserkopf

B 2736



I Fresa per palette raggiate. Ogni fresa può eseguire più spessori compresi nel S min./max della tabella sostituendo solo l'inserto sagomato. I coltelli sono reversibili e a richiesta è possibile realizzare raggi diversi da quelli indicati. La fresa è fornita, salvo diversa specifica, con il raggio R 5.

F Porte-outils pour arrondir. Chaque porte-outil peut exécuter plusieurs épaisseurs compris dans le S min./max. du tableau, en changeant seulement la plaquette profilée. Les plaquettes sont réversibles et sur demande, on peut réaliser des rayons différents parmi ceux indiqués. Sauf autres indications, le porte-outils est fourni avec le rayon R 5.

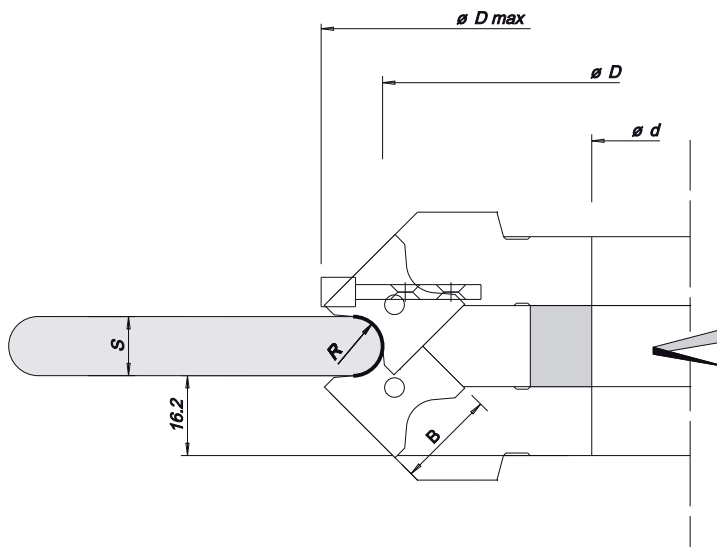
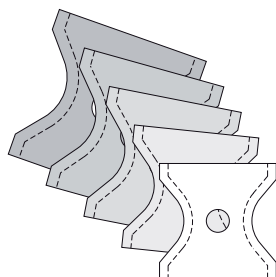
E Cabezal para redondear. Cada fresa puede hacer distintos espesores dentro del S min./max. del cuadro, cambiando solamente la cuchilla perfilada. Las cuchillas son reversibles y bajo pedido pueden realizar radios distintos entre aquellos indicados. Salvo otras indicaciones, el cabezal es ofrecido con el radio R 5.

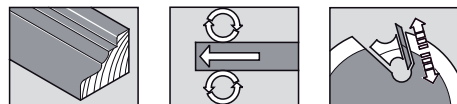
UK Profile cutterhead "radius". Every cutterhead can execute different thicknesses, if they are contained in the Smin./max. of the table, by changing only the profiled knife. The knives are reversible and, on request, we can execute a different radius from the ones, which are indicated in the table. Unless other instructions, the cutterhead is supplied with the radius R 5.

D Fillstabmesserkopf. Durch die einfache Auswechslung des profilierten Messers kann jeder Messerkopf verschiedene Stärken ausführen, die im S min./max. der Tafel eingeschlossen sind. Die Messer sind umkehrbar und, auf Wunsch, kann man einen anderen Radius adoptieren als diejenigen, die in der Tafel angegeben sind. Wenn nicht anders angegeben, wird der Messerkopf mit Radius R 5 geliefert.

D	D max	B	S min/max	d max	Z	Cod.	COD. P.
125	150	20	10 / 16	50	3	B2736.125D3	A 1826
160	185	20	10 / 16	50	4	B2736.160D4	A 2188

B	S	R	Cod.	COD. P.
20	10	5	F2.20.1014	B 646
20	11	5,5	F2.20.1406	B 646
20	12	6	F2.20.1015	B 646
20	14	7	F2.20.1016	B 646
20	16	8	F2.20.1017	B 646





Porta-coltelli "Profil"
Porte-outils "Profil"
Cabezal porta-cuchillas "Profil"
"Profil" Cutterhead
Messerkopf "Profil"

CS 033



I Il particolare sistema costruttivo di questa testa permette di produrre profili diversi cambiando solo il coltello sagomato e il suo controferro. I coltelli in HW (HM), profilati su un solo lato, consentono di produrre una sagoma alta fino a 16 mm. Le teste vengono fornite complete di una serie di coltelli e controferri profilati a piacere. Corpo in acciaio.

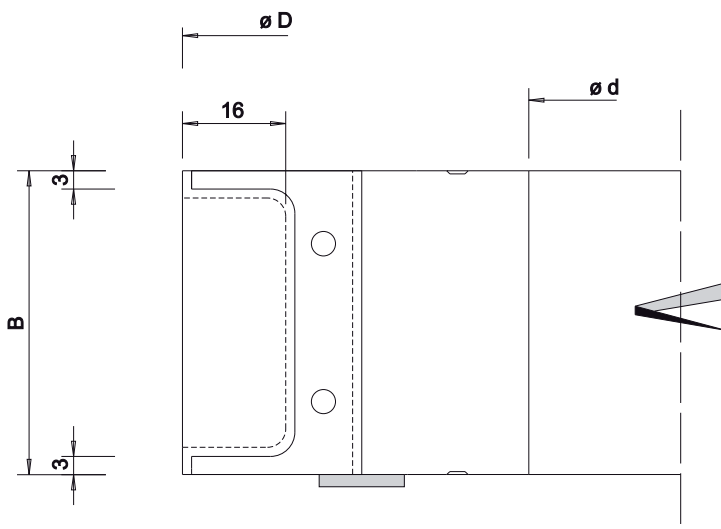
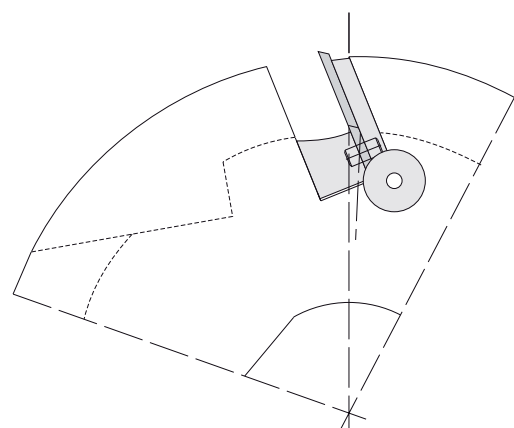
F La conformation particulière de ce porte-outils permet de produire plusieurs profils en changeant seulement la plaquette profilée et son support postérieur. Les plaquettes en HW (HM), profilées seulement d'une côté permettent de produire un profil jusqu'à 16 mm en hauteur. Les porte-outils sont fournis avec une série de plaquettes et supports postérieurs profilés sur demande. Corps en acier.

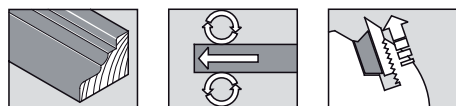
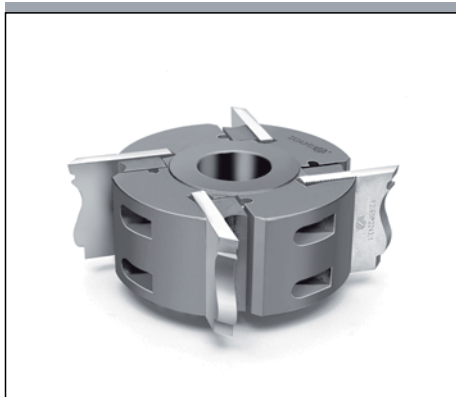
E La forma particular de este cabezal permite la producción de varios perfiles cambiando solamente la cuchilla perfilada y su soporte posterior. Las cuchillas en HW (HM), perfiladas en un lado solo permiten producir un perfil hasta 16 mm de ancho. Los cabezales son ofrecidos con una serie de cuchillas y soportes posteriores moldurados bajo pedido. Cuerpo en acero.

UK The particular structure of the tool enables the production of various profiles changing only the profiled knife and its back-plate. The HW (HM) knives, which are profiled only on one side, enable the production of a up to 16mm high profile. The cutterheads are supplied together with a profiled knives and back-plates set on request. Steel tool.

D Durch die einfache Auswechslung des profilierten Messers und seines hinteren Träger gestattet die spezielle Form des Werkzeugs die Ausführung von verschiedenen Profilen. Die einseitig profilierten Messer aus HW (HM) gestatten die Ausführung von einem bis 16mm hohen Profil. Die Messerköpfe werden zusammen mit einer Reihe profilierter Messer und hinterer Träger geliefert, derer Profile Sie angeben werden. Stahl-Ausführung.

D	B	d	Z	Cod.	COD. P.
152	30	40	2	CS033.150.2030	A 872
152	50	40	2	CS033.150.2050	A 958
152	60	40	2	CS033.150.2060	A 1076
164	30	40	3	CS033.160.3030	A 1336
164	50	40	3	CS033.160.3050	A 1378
164	60	40	3	CS033.160.3060	A 1506
194	30	40	4	CS033.190.4030	A 1918
194	50	40	4	CS033.190.4050	A 1984
194	60	40	4	CS033.190.4060	A 2104





Testa porta-coltelli "Zigo" Porte-outils "Zigo" Cabezal porta-cuchillas "Zigo" "Zigo" cutterhead Messerkopf "Zigo"

CS 012



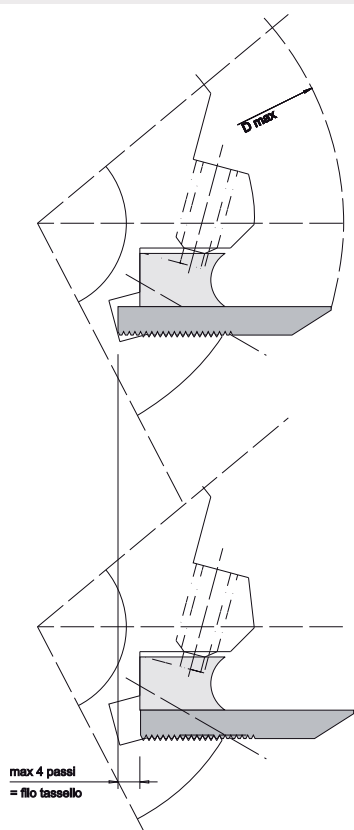
I Corpo in acciaio ad alta resistenza con auto posizionamento per 2 o 4 coltelli. In funzione della profondità di sagoma si usano diverse altezze di coltelli, vedi tabella, avendo cura di non spostarli oltre i 4 passi di dentatura. Per non superare i limiti di sicurezza non si deve montare un coltello con un B superiore alla larghezza della fresa. Per evitare deformazioni del lardone di bloccaggio evitare di montare coltelli con B inferiore alla larghezza della fresa. L'utensile viene fornito senza coltelli, questi devono essere ordinati espressamente.

F Corps en acier à haute résistance, avec auto-positionnement pour 2 ou 4 plaquettes. Selon la profondeur du profil on utilise plaquettes avec différentes hauteurs (tableau 1) faisant attention de ne pas les déplacer au-delà de 4 pas de denture. Pour ne pas dépasser les limites de sécurité on ne doit pas monter une plaquette avec B supérieur à la largeur du porte-outil. Pour éviter les déformations de la vis de blocage on ne doit pas monter de plaquettes avec B inférieur à la largeur du porte-outils. Le porte-outils est fourni sans plaquettes, elles doivent être commandées expressément.

E Cuerpo en acero a elevada resistencia con auto-posicionamiento para 2 o 4 cuchillas. Según la profundidad del perfil se utilizan cuchillas con alturas distintas (cuadro 1) cuidando que no sobrepasen los cuatro pasos de dentadura. Para no sobrepasar los límites de seguridad eviten de montar cuchillas con B superior al ancho del cabezal. Para evitar las deformaciones del tornillo de fijación no monten cuchillas con B inferior al ancho del cabezal. El cabezal es ofrecido sin cuchillas, que tienen que ser pedidas expresamente.

UK High grade steel tool with self-positioning for 2 or 4 knives. Knives with different height have to be used, according to the profile depth (table 1); do not set them beyond the four steps of the toothing. In order not to surpass the security limits you must not set up knives if their B is bigger than the width of the cutterhead. In order to avoid any warping of the fixing wedge, you must not set up knives, if their B is smaller than the width of the cutterhead. The cutter-head is supplied without knives, they must be ordered expressly.

D Stahl-Messerkopf mit hoher Festigkeit und Selbstpositionierung für 2 oder 4 Messer. Je nach der Tiefe des Profils werden Messer mit verschiedener Höhe benutzt (s. Tafel 1); bitte befestigen Sie sie nicht jenseits der 4 Schritte der Verzahnung. Um die Sicherheitsgrenzen nicht zu überschreiten, bitte keine Wendepplatten montieren, deren B größer ist als die Breite des Messerkopfes. Um jegliche Verbiegung der Befestigungsschraube zu vermeiden, bitte keine Wendepplatten montieren, deren B kleiner ist als die Breite des Messerkopfes. Der Messerkopf wird ohne Messer geliefert. Die Messer müssen ausdrücklich extra bestellt werden.



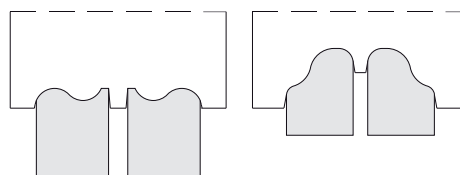
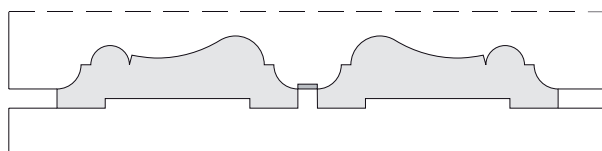
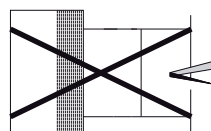
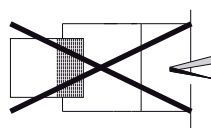
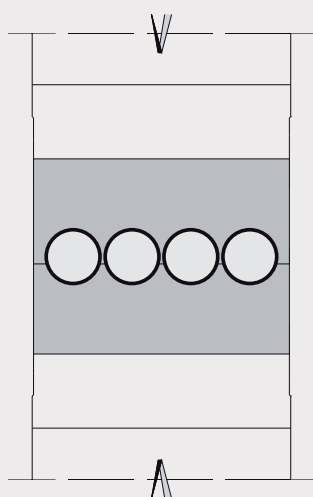
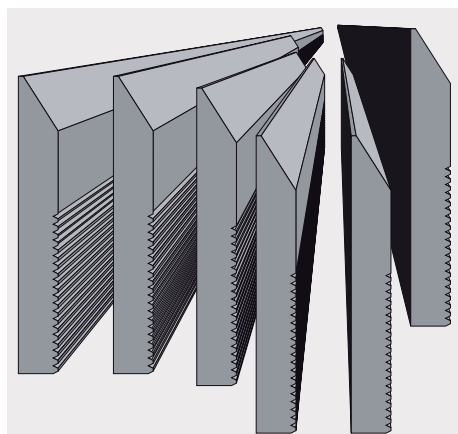
D	B	d max	Z	Cod.	COD. P.
122	40	40	2	CS012.122.2040	A 652
122	60	40	2	CS012.122.2060	A 656
122	80	40	2	CS012.122.2080	A 722
122	100	40	2	CS012.122.2100	A 742
122	130	40	2	CS012.122.2130	A 912
122	40	40	4	CS012.122.4040	A 810
122	60	40	4	CS012.122.4060	A 828
122	80	40	4	CS012.122.4080	A 912
122	100	40	4	CS012.122.4100	A 924
122	130	40	4	CS012.122.4130	A 1154
122	150	40	4	CS012.122.4150	A 1300
122	180	40	4	CS012.122.4180	A 1466
122	230	40	4	CS012.122.4230	A 1898

D	B	d max	Z	Cod.	COD. P.
137	40	50	2	CS012.137.2040	A 850
137	60	50	2	CS012.137.2060	A 874
137	80	50	2	CS012.137.2080	A 848
137	100	50	2	CS012.137.2100	A 1128
137	130	50	2	CS012.137.2130	A 1180
137	40	50	4	CS012.137.4040	A 1062
137	60	50	4	CS012.137.4060	A 1098
137	80	50	4	CS012.137.4080	A 1306
137	100	50	4	CS012.137.4100	A 1414
137	130	50	4	CS012.137.4130	A 1502
137	150	50	4	CS012.137.4150	A 1650
137	180	50	4	CS012.137.4180	A 1954
137	230	50	4	CS012.137.4230	A 2408

Altezza coltelli	Prof. sagoma	D max per Ø122	D max per Ø137
60	20	180	195
70	30	200	215

Coltelli profilati per teste "Zigro" F6.HS
Plaquettes profilées pour porte-outils "Zigro" F6.HS
Cuchillas perfiladas para cabezal "Zigro" F6.HS
Profiled knives for "Zigro" F6.HS cutterhead
Profilierte Messer für Messerkopf "Zigro" F6.HS

Zigro



I Coltelli in HS spessore 8 mm rettificati e zigrinati per un perfetto fissaggio. Per non superare i limiti di sicurezza non si deve montare un coltello con un B superiore alla larghezza della fresa. Per evitare deformazioni del lardone di bloccaggio evitare di montare coltelli con B inferiore alla larghezza della fresa. È importante che la sagoma non presenti profili troppo sottili.

F Couteaux rectifiés et crenelés en HS avec une épaisseur de 8 mm pour une meilleure fixation. Pour ne pas dépasser les limites de sécurité on ne doit pas monter une plaquette avec B supérieur à la largeur du porte-outil. Pour éviter les déformations de la vis de blocage on ne doit pas monter des plaquettes avec B inférieur à la largeur du porte-outils. Il est important, que le profil ne soit pas trop mince.

E Cuchillas rectificadas y graneadas en HS para una fijación perfecta con espesor 8mm. Para no sobrepasar los límites de seguridad no monten cuchillas con B superior al ancho del cabezal. Para evitar deformaciones del tornillo de fijación no monten cuchillas con B inferior al ancho del cabezal. Es muy importante que el perfil no sea demasiado delgado.

UK HS rectified and knurled knives for a perfect fixing; thickness 8 mm. In order not to surpass the security limits you must not set up knives if their B is bigger than the width of the cutterhead. In order to avoid any warping of the fixing wedge, you must not set up knives, if their B is smaller than the width of the cutterhead. It is very important, that the profile is not too thin.

D Regulierte, gerändelte HS-Wendeplatten mit 8mm Starke, die eine perfekte Befestigung gewährleisten. Um die Sicherheitsgrenzen nicht zu überschreiten, bitte keine Wendeplatten montieren, deren B größer ist als die Breite des Messerkopfes. Um jegliche Verbiegung der Befestigungsschraube zu vermeiden, bitte keine Wendeplatten montieren, deren B kleiner ist als die Breite des Messerkopfes. Es ist sehr wichtig, daß das Profil nicht zu dünn sei.

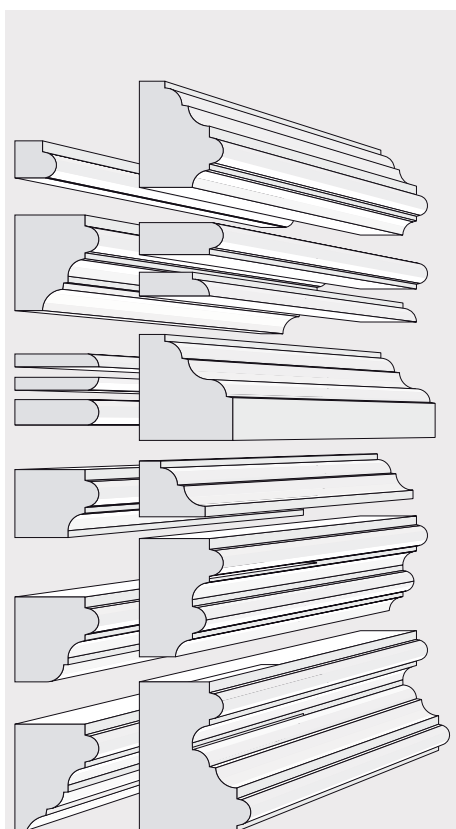
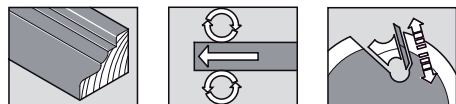
H	B	Peso g	Cod.	COD. P.
70	40	164	F6.HS.040.7	B 920
70	60	246	F6.HS.060.7	B 1220
70	80	328	F6.HS.080.7	B 1440
70	100	410	F6.HS.100.7	B 1660
70	130	533	F6.HS.130.7	B 2180
70	150	615	F6.HS.150.7	B 2500
70	180	738	F6.HS.180.7	B 3020
70	230	943	F6.HS.230.7	B 3840

H	B	Peso g	Cod.	COD. P.
60	40	144	F6.HS.040.6	B 846
60	60	216	F6.HS.060.6	B 1080
60	80	288	F6.HS.080.6	B 1280
60	100	360	F6.HS.100.6	B 1500
60	130	468	F6.HS.130.6	B 1920
60	150	540	F6.HS.150.6	B 2234
60	180	648	F6.HS.180.6	B 2660
60	230	828	F6.HS.230.6	B 3440



Fresa per sagomare
Fraises à profiler
Fresas para moldura
Profiling cutter-head
Messerkopf zum Profilieren

CS 060



I Fresa multi profilo con limitatore di truciolo per avanzamento manuale. La forma del profilo permette di ottenere particolari sagome con una o più passate.

F Fraise "multiprofil" avec surface de dégagement pour avancement manuel. La forme du profil permet d'obtenir des particuliers avec une ou plusieurs passes.

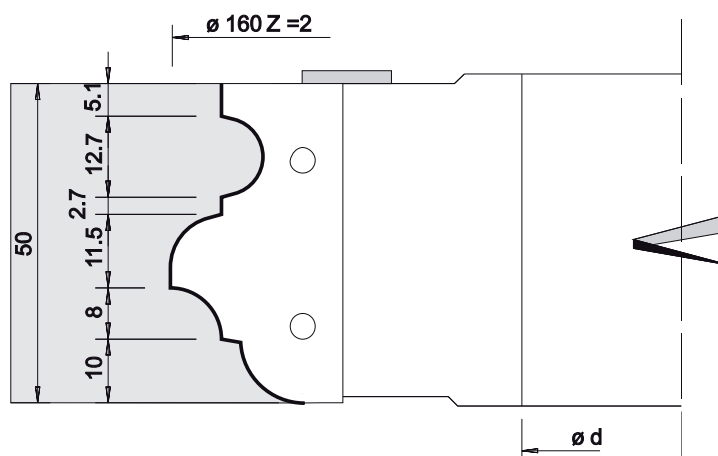
E Fresa "multiprofil" con superficie de descarga para avance manual. La forma del perfil permite obtener particulares con uno o más repasos.

D "Multiprofile" tool with unloading surface for hand motion. The form of the profile permits to obtain particulars with one or more rebating.

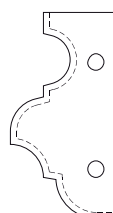
UK "Multiprofil-Fräser" mit Spanraum für Handvorschub. Die Form des Profils gestattet die Bearbeitung der Details mit einer oder mehreren Wiederholungen.

D	B	d max	Z	Cod.	COD. P.
160	50	50	2	CS060.160.2050	A 1400

B	Cod.	COD. P.
50	F2.50.1377	B 1526

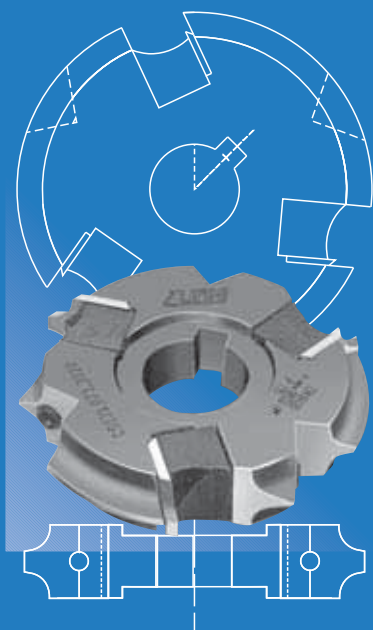


F2.50.1377





Frese per bordatrici
Fraises pour plaqueuses de chants
Cabezales para canteadoras
Tools for beading machine
Werkzeuge für Kantenanleimmaschine

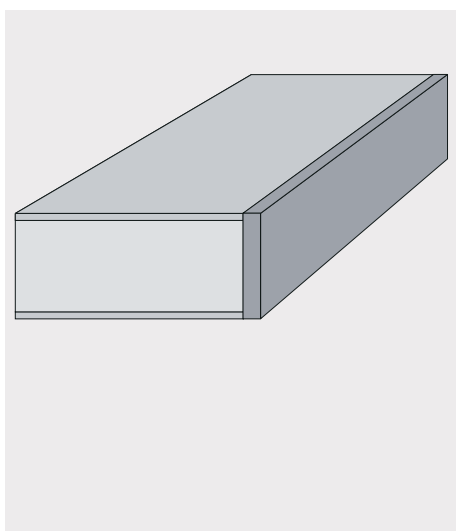
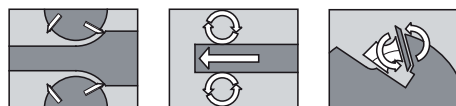


Frese per bordatrice	CR 615
Fraises pour bordeuse	8-2
Fresas para maquina a ribetear	
Beading machines tools	
Fräser für Kantenanleinmaschine	
Frese per bordatrice	CR 610
Fraises pour bordeuse	8-3
Fresas para maquina a ribetear	
Beading machines tools	
Fräser für Kantenanleinmaschine	
Frese per raggare	CR 620
Fraises pour chanfreiner	8-4
Fresas a chanflear	
Radius tools	
Radius-Fräser	
Frese per raggare con mozzo laterale	CS 039
Fraises pour chanfreiner avec bague latérale	8-5
Fresas a chanflear con anillo lateral	
Radius tools with side-sleeve	
Radius-Fräser mit seitlicher Büchse	
Frese per raggare con mozzo laterale	CS 040
Fraises pour chanfreiner avec bague latérale	8-6
Fresas a chanflear con anillo lateral	
Radius tools with side-sleeve	
Radius-Fräser mit seitlicher Büchse	



Frese per bordatrice
Fraises pour bordeuse
Fresas para maquina a ribetear
Beading machines tools
Fräser für Kantenanleim maschine

CR 615



I Frese in acciaio con inserti standard per rifilatura di bordi su macchine automatiche. La forma del corpo con mozzo laterale permette di incassare il dado di bloccaggio. La lavorazione superiore ed inferiore richiede un utensile Dx ed uno Sx.

F Fraises en acier avec couteaux standards pour repases les rebords montées sur machines automatiques. La forme du porte-outils avec bague latérale permet d'encaisser l'écrou de fixation. Pour le travail supérieur et inférieur il faut un porte-outils droite et un porte-outils gauche.

E Fresas en acero con cuchillas estándar para repasar los bordes montadas en máquinas automáticas. La forma del cabezal con anillo lateral permite encerrar la tuerca de fijación. Para la moldura superior e inferior hacen falta un cabezal derecho y otro izquierdo.

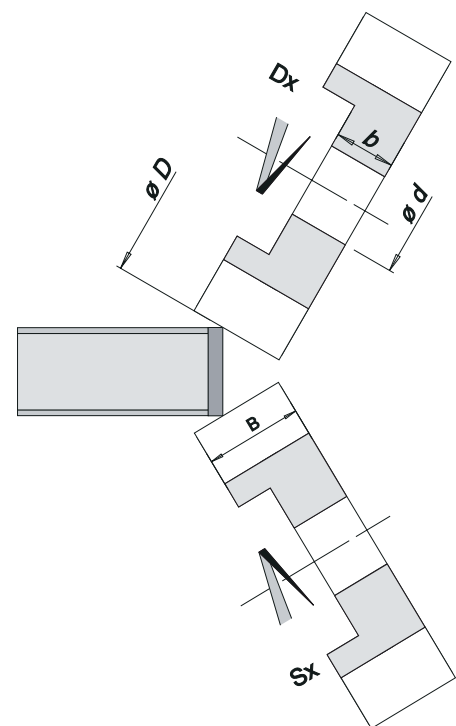
UK Steel tools with standard knives for border trimming on automatic machines; the form of the tool body with side-sleeve allows the fitting of the fixing nut; in order to work the upper and the lower part of the wood, you need a right and a left tool.

D Stahlwerkzeug mit Standard-Messern zum Bördeln auf automatischen Maschinen; die Form des Werkzeugs mit seitlicher Büchse gestattet die Einspannung der Befestigungsmutter; um die obere und untere Seite des Holzes zu bearbeiten, braucht man ein rechtes und ein linkes Werkzeug.

D	B	d	KN	DKN	b	Z	Cod. Dx	Cod. Sx	COD. P.
70	20	16			12,5	4	CR615.070.4017	CR615.070.4018	A 346
70	20	20	6x3,5		12,5	4	CR615.070.4019	CR615.070.4020	A 366
70	20	20		6x3,5	12,5	6	CR615.070.6021	CR615.070.6022	A 384
100	30	25	8x3,2		12	4	CR615.100.4023	CR615.100.4024	A 460

B	Bxhxs	Cod.	COD. P.
12	Bx12x1,5	F0.12.12.15	B 860 ●
20	Bx12x1,5	F0.20.12.15	B 800 ●
30	Bx12x1,5	F0.30.12.15	B 880 ●
40	Bx12x1,5	F0.40.12.15	B 1260 ●

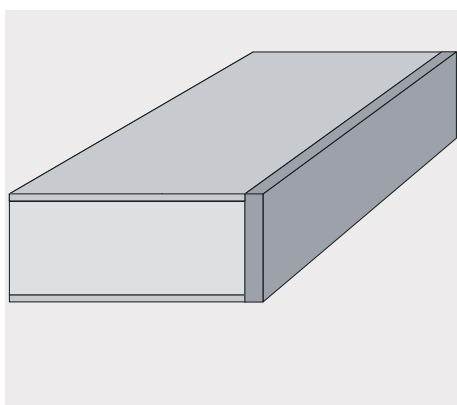
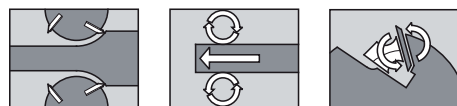
● confezione da 10 pezzi





Frese per bordatrice
Fraises pour bordeuse
Fresas para maquina a ribetear
Beading machines tools
Fräser für Kantenanleim maschine

CR 610



I Frese in acciaio per rifilatura di bordi su macchine automatiche. La forma simmetrica del corpo base consente di lavorare con l'utensile indifferente sia sotto che sopra il pannello da rifilare.

F Fraises en acier pour repaser les rebords montées sur machines automatiques. La forme symétrique du porte-outils permet d'utiliser le porte-outils indifféremment au-dessous et au-dessus du bois.

E Cabezal en acero para repasar los bordes montado en máquina automática. La forma simétrica del cabezal permite su empleo por encima o por debajo de la madera.

UK Steel tools for border trimming on automatic machines. The symmetric form of the tool body allows to work both on the top and on the bottom of the panel.

D Stahlwerkzeug zum Bördeln auf automatischen Maschinen; die symmetrische Form des Werkzeugs gestattet die Bearbeitung aus beiden Seiten oben bzw. unten dem Paneel.

Mini coltelli Bx5,5x1,1

D	B	d	DKN	b	Z	Cod.	COD. P.
50	12	16	5x2,3	10	2	CR010.050.2001	A 236
50	15	16	5x2,3	10	2	CR010.050.2002	A 250
50	12	16	5x2,3	10	4	CR010.050.4001	A 330
50	15	16	5x2,3	10	4	CR010.050.4002	A 344

Inserti standard Bx12x1,5 Z=4

D	B	d	DKN	b	Z	Cod.	COD. P.
70	12	16	5x2,3	10	4	CR610.070.4003	A 306
70	20	16	5x2,4	20	4	CR610.070.4006	A 366
70	20	16	5x2,5	11	4	CR610.070.4007	A 366
70	20	20		10	4	CR610.070.4010	A 346
70	30	16		12	4	CR010.070.4012	A 412
70	40	16		20	4	CR610.070.4013	A 484
80	20	14	5x2,5	10	4	CR610.080.4014	A 368
80	40	30		25	4	CR610.080.4015	A 490
100	50	30	8x3	35	2	CR610.100.2016	A 378

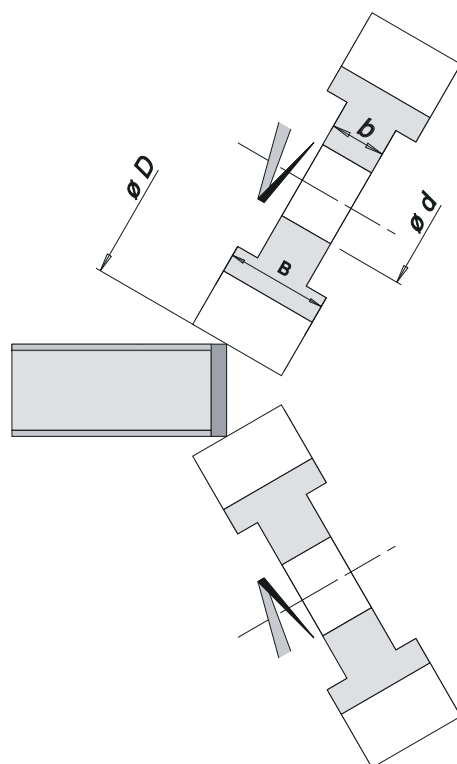
Inserti standard Bx12x1,5 Z=6

D	B	d	DKN	b	Z	Cod.	COD. P.
70	12	16	5x2,3	10	6	CR010.070.6004	A 468
70	20	12		14	6	CR010.070.6005	A 504
70	20	16		10	6	CR010.070.6008	A 504
70	20	16	5x2,3	11	6	CR010.070.6009	A 538
70	20	20	6x2,3	10	6	CR010.070.6011	A 538

Mini coltelli Bx5,5x1,1

B	Bxhxs	Cod.	COD. P.
12	Bx5,5x1,1	F0.120.05.11	B 212
15	Bx5,5x1,1	F0.150.05.11	B 266
12	Bx12x1,5	F0.12.12.15 ●	B 860
20	Bx12x1,5	F0.20.12.15 ●	B 800
30	Bx12x1,5	F0.30.12.15 ●	B 880
40	Bx12x1,5	F0.40.12.15 ●	B 1260

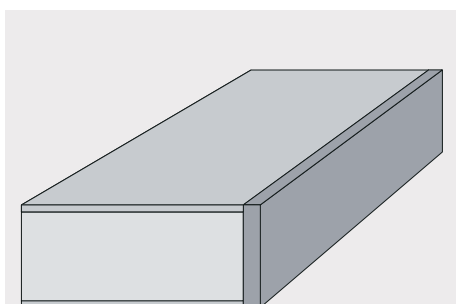
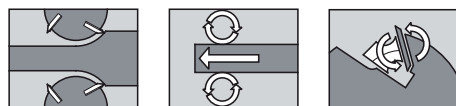
● confezioni da 10 pezzi





Frese per bordatrice
Fraises pour bordeuse
Fresas para maquina a ribetear
Beading machines tools
Fräser für Kantenanleim maschine

CR 620



I Frese in acciaio con inserti smussati per rifilatura di bordi su macchine automatiche con alberi orizzontali. La lavorazione superiore ed inferiore richiede un utensile Dx ed uno Sx.

F Fraises en acier avec couteaux arrondis pour repaser les rebords montées sur machines automatiques avec arbres horizontaux. Pour le travail supérieur et inférieur il faut un porte-outils droite et un porte-outils gauche.

E Fresas en acero con cuchillas redondeadas para el repaso de los bordes montadas en máquinas automáticas con ejes horizontales. Para la moldura superior e inferior hacen falta un cabezal derecho y otro izquierdo.

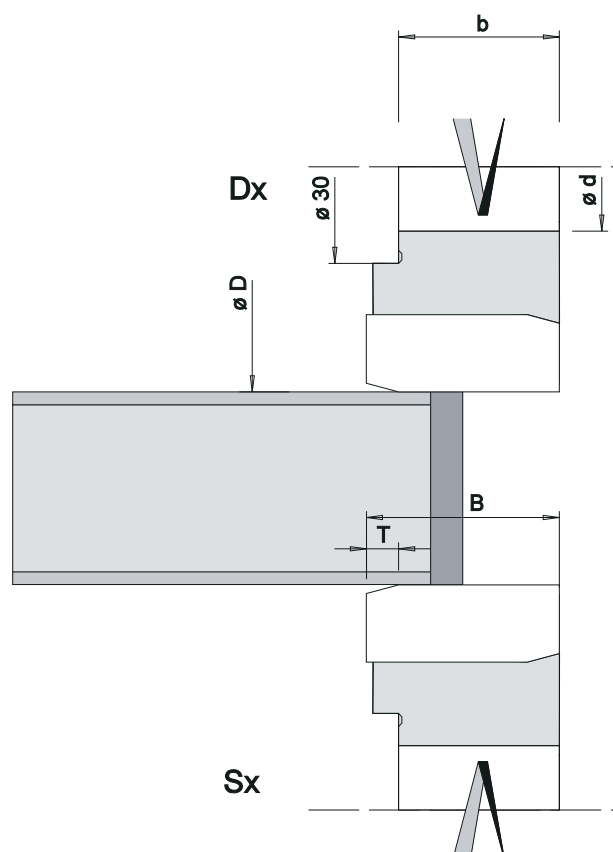
UK Steel tools with rounded knives for border trimming on automatic machines with horizontal spindles; in order to work the upper and the lower part of the wood, you need a right and a left tool.

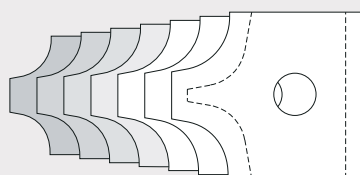
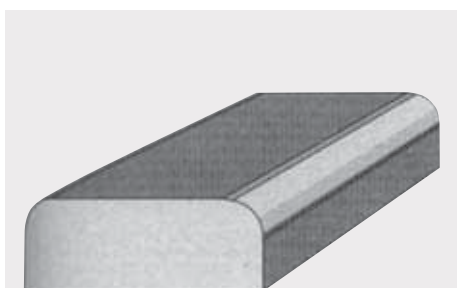
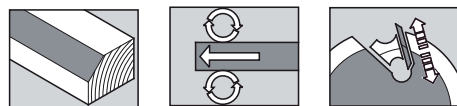
D Stahlwerkzeug mit abgerundeten Messern zum Bördeln auf automatischen Maschinen mit senkrechten Spindeln; um die obere und untere Seite des Holzes zu bearbeiten, braucht man ein rechtes und ein linkes Werkzeug.

D	B	d	T	b	Z	Cod. Dx	Cod. Sx	COD. P.
70	30	20	5	17	4	CR620.070.4025	CR620.070.4026	A 412
80	30	20	5	25	4	CR620.080.4027	CR620.080.4028	A 418

B	Bxhxs	Cod. Dx	Cod. Sx	COD. P.
30	Bx12x1,5	F0.30.12.RS	F0.30.12.LS	B 2040 ●

● confezione da 10 pezzi





Frese per raggiare
Fraises pour chanfreiner
Fresas a chanflear
Radius tools
Radius-Fräser

CS 039



I Frese in acciaio con inserti sagomati con doppio raggio per poter lavorare sopra, sotto, a Dx o a Sx. La forma simmetrica del corpo base consente di lavorare con l'utensile indifferente sia sotto che sopra il pannello da rifilare. Lo stesso corpo può montare una serie di inserti che va dal raggio 2 al 5 mm. La fresa viene fornita, salvo diversa specifica, con il raggio 5 mm.

F Fraises en acier avec couteaux profilés avec double rayon pour travailler au-dessus, au-dessous, à droite ou à gauche. La forme symétrique du porte-outils permet de travailler indifféremment au-dessous et au-dessus du bois à repaser. Sur le même porte-outils on peut monter des couteaux avec rayon de 2 à 5 mm. Sauf autres indications, le porte-outils est livré avec le rayon 5 mm.

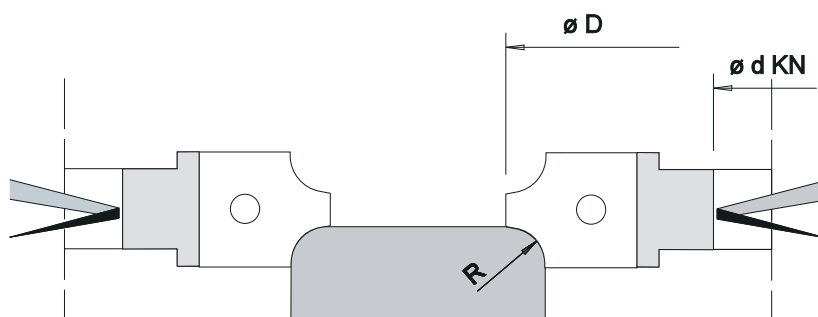
E Fresa en acero con cuchillas perfiladas con doble radio para una elaboración por debajo, por encima, a la derecha, a la izquierda de la madera. La forma simétrica del cabezal permite elaborar la madera indistintamente por debajo y por encima de la madera a repasar. En el mismo cabezal pueden montar cuchillas con radio de 2 a 5 mm. Salvo otras indicaciones, el cabezal se entrega con el radio 5 mm.

UK Steel tools with double radius profiled knives in order to work from all directions; the symmetric form of the tool body allows to work both on the top and on the bottom of the panel; on the same tool you can put a range of knives with radius from 2 to 5; unless other indication, the tool is supplied with radius 5.

D Stahlwerkzeug mit Doppel-Radius profilierten Messern, zur vielseitigen Bearbeitung des Holzes; die symmetrische Form des Werkzeugs gestattet die Bearbeitung aus beiden Seiten oben bzw. unter dem Paneel; auf demselben Körper kann man Messer mit Radius 2-5 montieren; wenn nicht anders angegeben, wird der Fräser mit Radius 5 geliefert.

D	B	d	KN	Z	Cod.	COD. P.
73	16	16	5X3,5	3	CS039.073.3016	A 544
73	16	20	5X3,5	3	CS039.073.3020	A 544
82	16	20	5X3,5	3	CS039.082.3020	A 560

R	Bxhxs	Cod.	COD. P.
2	16x17,5x2	F2.16.1087	B 616
2,5	16x17,5x2	F2.16P3278.0	B 616
3	16x17,5x2	F2.16.1088	B 616
4	16x17,5x2	F2.16.1089	B 616
5	16x17,5x2	F2.16.1090	B 616

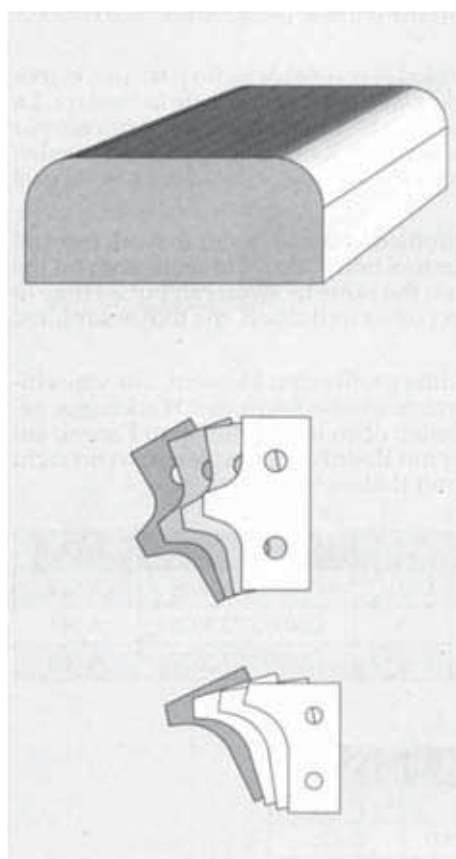
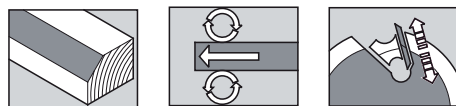




Frese per raggiare con mozzo laterale
Fraises pour chanfreiner avec bague
latérale

Fresas a chanflear con anillo lateral
Radius tools with side-sleeve
Radius-Fräser mit seitlicher Büchse

CS 040



I Frese in acciaio con inserti sagomati per raggiare su bordatrici. La fresa viene fornita, salvo diversa specifica, con il raggio più piccolo.

F Fraises en acier avec couteaux profilés pour chanfreiner sur bordeuses. Le porte-outils est livré, sauf autres indications, avec le rayon le plus petit.

E Fresas en acero con cuchillas perfiladas para chanflear en máquinas a ribetear. Salvo otras indicaciones, el cabezal se entrega con el radio más pequeño.

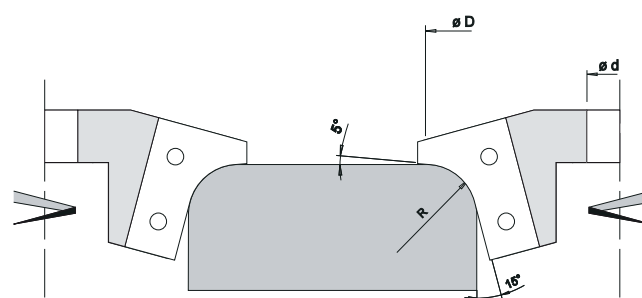
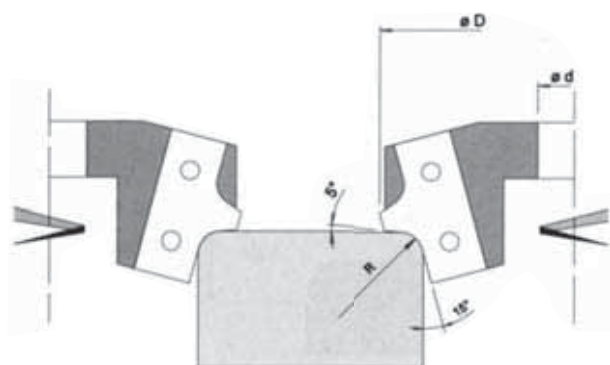
UK Steel tools with profiled knives execute radii on beading machines; unless other indications, the tool is supplied with the smallest radius.

D Stahlwerkzeug mit profilierten Messern zum Abrunden auf Kantenanleinmaschinen; wenn nicht anders angegeben, wird der Fräser mit dem kleinsten Radius geliefert.

D	B	d	R min	R max	Z	Cod.	Cod.	COD. P.
80	20	16	2	4	3	CS040.080.3029	CS040.080.3030	A 612
85	32	16	5	8	3	CS040.085.3031	CS040.085.3032	A 702
90	24	16	9	12	3	CS040.090.3033	CS040.090.3034	A 656

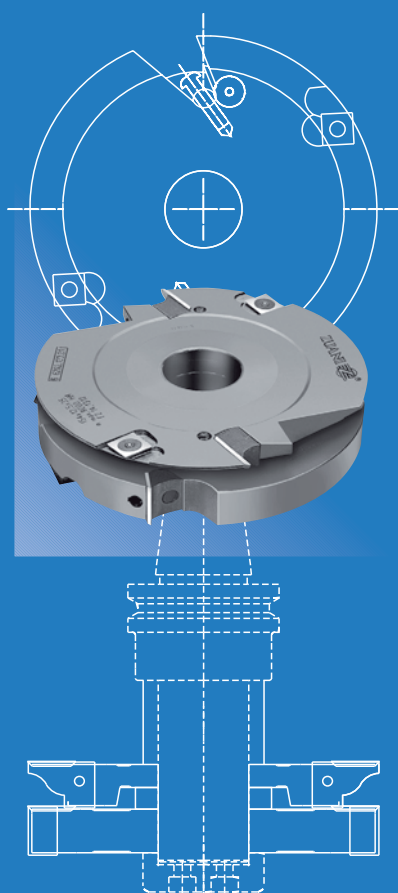
R	Bxhxs	Cod.	COD. P.
2	20X15X2	F2.20.1067	B 740
3	20X15X2	F2.20.1068	B 740
4	20X15X2	F2.20.1069	B 740
5	32X17X2	F2.32.1070	B 864
6	32X17X2	F2.32.1071	B 864
7	32X17X2	F2.32.1072	B 864
8	32X17X2	F2.32.1073	B 864

R	Bxhxs	Cod. Dx	Cod. Sx	COD. P.
9	24X20X2	F2.24.1075	F2.24.1076	B 740
10	24X20X2	F2.24.1077	F2.24.1078	B 740
11	24X20X2	F2.24.1079	F2.24.1080	B 740
12	24X20X2	F2.24.1081	F2.24.1082	B 740





Gruppi per finestre ad arco. Jeux pour fenêtre à arc Juegos para ventana a arco Tool-sets for curved windows Werkzeug-Garnituren für Rundbogenfenster



Finestra ad arco eseguita con fresatrice manuale e toupie Fenêtre à arc exécutée avec fraiseuse manuelle et toupie Ventana a arco elaborada con fresadora manual y tupí Curved window, executed with manual moulding-machine and toupie Rundbogenfenster für Fräsmaschine mit Handvorschub und Toupie	9-2
Gruppi per pantografo in Ergal Garnitures pour défonceuse en Ergal Juegos para pantógrafo en Ergal Tool-sets for Ergal-router Werkzeug-Garnituren für Ergal-Oberfräsmaschine	9-6
Porte e portoncino sagomato Portes et portes d'entrée avec moulure Puertas y portales con moldura Profiled doors and profiled main doors Profilierte Balkontür und Haustür	9-9
Antine sagomate Fraises pour cuisine rustique Fresas para puertas de muebles Tools for profiled furniture doors Werkzeuge für profilierte Möbel	B 6201 9-10
Piattabanda per pantografo Platebande pour défonceuse Fresa para plafones en pantógrafo Raised panel cutter for router machine Abplattfräser für Oberfräsmaschine	9-11
Porta utensili ISO30 Arbres porte-outils ISO30 Portafresas ISO30 Shank for tools ISO30 Schaft ISO30	9-12

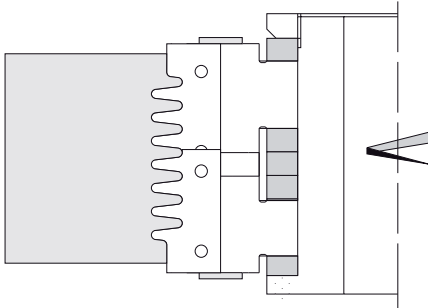
Finestra ad arco eseguita con fresatrice manuale e toupie

Fenêtre à arc exécutée avec fraiseuse manuelle et toupie

Ventana a arco elaborada con fresadora manual y tupí

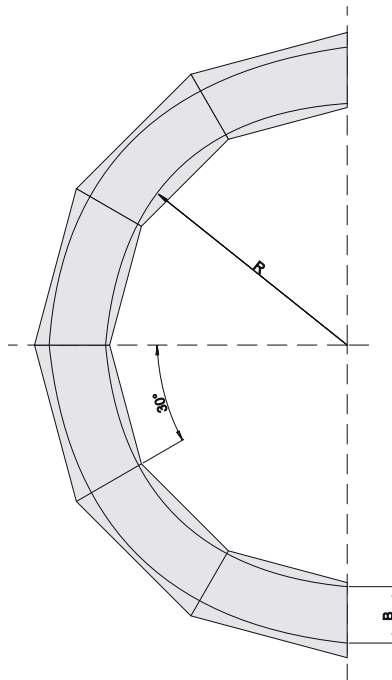
Curved window, executed with manual moulding-machine and toupie

Rundbogenfenster für Fräsmaschine mit Handvorschub und Toupie



- I Giunzione eseguita con fresa a pettine.
- E Bouvetage à peigne.
- E Ensamble hecho con fresa a peine.
- UK The jointing is executed with a "comb"-tool.
- D Die Verbindung wird durch einen "Kammfräser bearbeitet.

Ø D	Z	CODICE Dx	COD. P.
130	2	B2860.130D2	A 2496



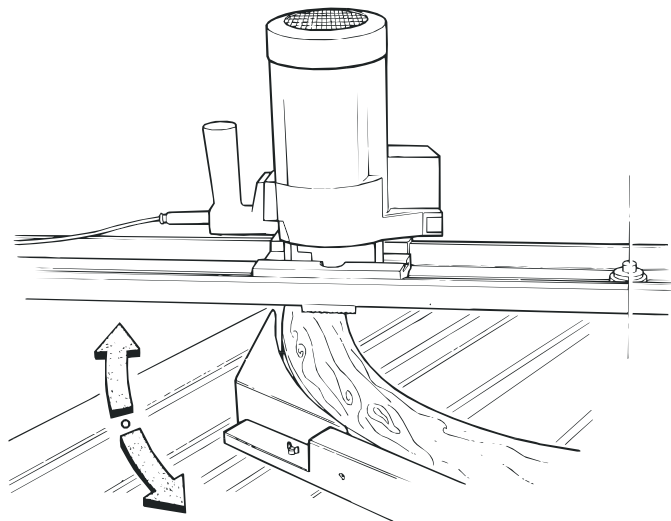
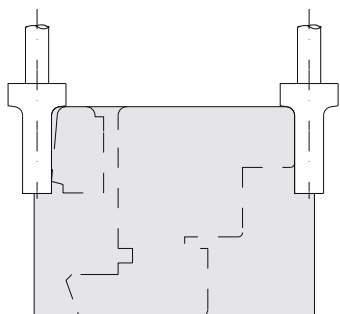
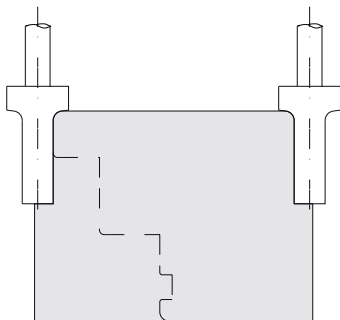
I Comporre il poligono. Eseguire le fresature di contorno interno ed esterno del telaio e dell'anta.

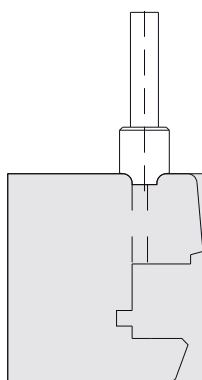
F Composez le polygone. Exécutez les fraisages intérieurs et extérieurs du dormant et de l'ouvrant.

E Compongan el polígono. Ejecuten el perfilado interior y exterior del marco y de la hoja.

UK Fit the polygon together. Execute the frame and sash external & internal contour moulding

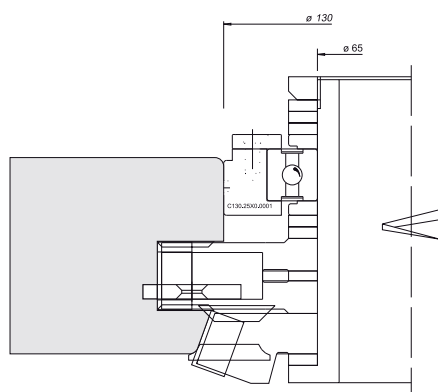
D Setzen Sie das Polygon zusammen. Führen Sie die innere und äußere Rahmen- und Flügel Kontourfräsung aus.





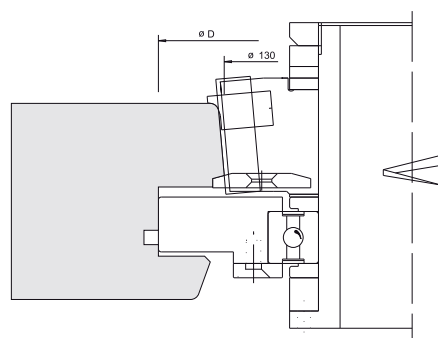
I Eseguire il canale del listello ferma vetro. F Exécutez le canal de la parclose. E Ejecuten el canal del junquillo. UK Execute the groove for the bead recovery. D Bearbeiten Sie die Glasleiste-Nute.

Ø D	Z	CODICE Dx	COD. P.
18	2	CF046.018.2001	A 506



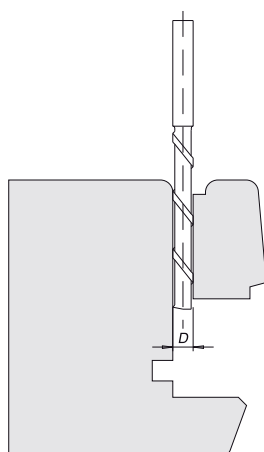
I Eseguire la prima profilatura dell'anta F Exécutez le premier profilage de l'ouvrant. E Ejecuten el primer perfilado de la hoja. UK Execute the first sash profiling. D Führen Sie die erste Flügel-Profilierung aus.

Ø D	Z	CODICE Dx	COD. P.
130	2	B2261.130C2	A 3488



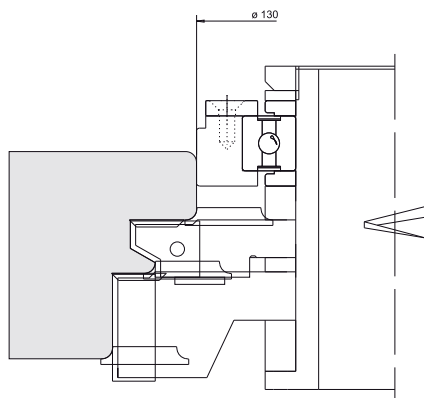
I Completare della profilatura interna dell'anta. F Achèvement du profilage intérieur de l'ouvrant. E Acabado del perfilado interior de la hoja. UK Finish the sash internal profiling. D Vollenden Sie die Flügel-Innenprofilierung.

Ø D	Z	CODICE Dx	COD. P.
130	2	B2262.130C2	A 2106



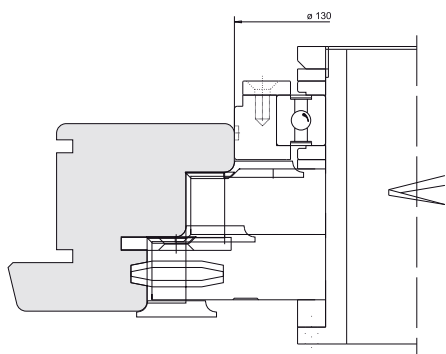
I Eseguire recupero del listello ferma vetro con punta Ø 8 mm. F Récupération de la parclose - mèche Ø 8 mm. E Recuperación del junquillo - mecha Ø 8 mm. UK Execute glazing-bead recovery with shank-tool Ø 8 mm. D Führen Sie die Glasleiste-Austrennung mit einem Schaftwerkzeug Ø 8 mm aus.

Ø D	Z	CODICE Dx	COD. P.
8	2	CF046.008.2070	A 218



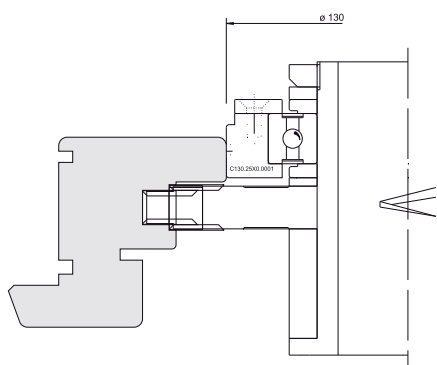
I Eseguire la profilatura del telaio. F Exécutez le profilage du dormant.
 E Ejecuten el perfilado del marco. UK Execute the frame profiling.
 D Führen Sie die Rahmen-Profilierung aus.

Ø D	Z	CODICE Dx	COD. P.
130	2	B2238.130C2	A 3218



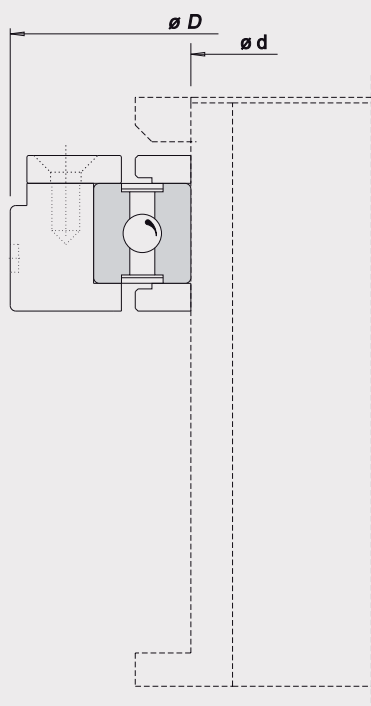
I Eseguire profilatura esterna anta. F Exécutez le profilage extérieur de l'ouvrant.
 E Ejecuten el perfilado exterior de la hoja. UK Execute sash outer profile.
 D Führen Sie die Flügel-Außenprofilierung.

Ø D	Z	CODICE Dx	COD. P.
130	2	B3207.130C2	A 4112



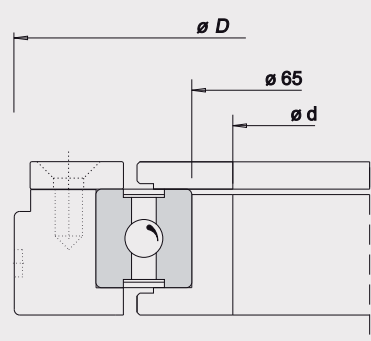
I Eseguire la sede ferramenta. F Exécutez le fraisage pour la cré-mone.
 E Ejecuten el alojamiento para la herramienta. UK Execute the sash hardware-groove.
 D Führen Sie die Getriebe-nute aus.

Ø D	Z	CODICE Dx	COD. P.
130	2	B3528.130C2	A 1536



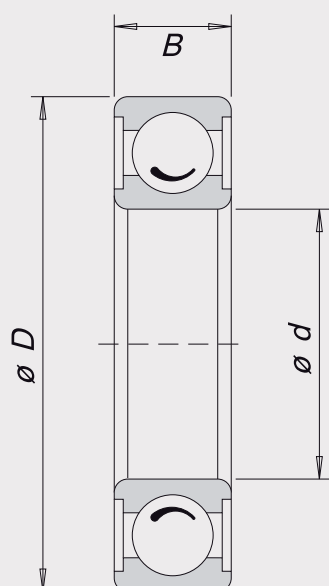
I Cuscinetto con flangia per canotto. F Guide à billes pour manchon. E Brida con rodamento para manguito. UK Ball bearings and butting rings to put onto a sleeve. D Anlauftring und Flansch für Büchse-Ausführung.

D	d	CODICE	COD. P.
130	65	G62.65.28.130	B 3820
176	65	G62.65.28.176	B 4580



I Cuscinetto con flangia e boccia per foro diretto. F Guide à billes avec bague pour alésage direct. E Brida con rodamento y anillo para eje directo. UK Ball bearing and butting ring to put directly onto the machine. D Anlauftring und Flansch für die Ausführung "ohne Büchse".

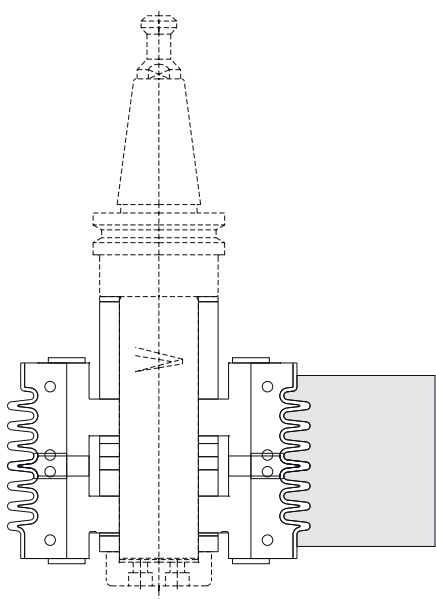
D	d	CODICE	COD. P.
130	30	G62.30.28.130	B 3820
130	35	G62.35.28.130	B 3820
130	40	G62.40.28.130	B 3820
130	50	G62.50.28.130	B 3820
176	30	G62.30.28.160	B 4580
176	35	G62.35.28.160	B 4580
176	40	G62.40.28.160	B 4580
176	50	G62.50.28.160	B 4580



I Cuscinetto radiale a sfere con due schermi. F Roulements avec deux écrans. E Rodamiento de bolas. UK Ball bearing with two anti-dust seals. D Anlauftring mit zwei Sicherungen.

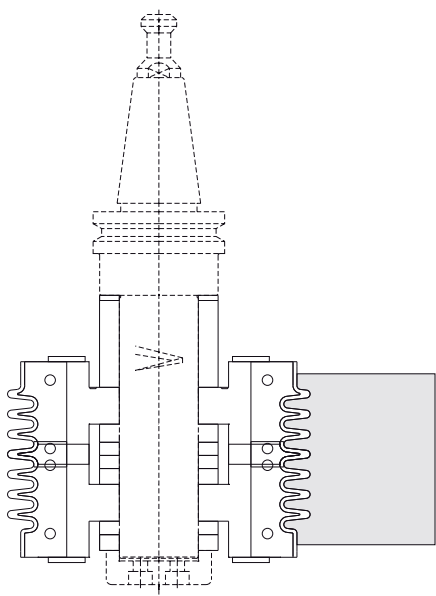
d	D	B	CODICE	COD. P.
65	100	18	G60.65.10.2RS	B 2680

**Gruppi per pantografo in Ergal / Garnitures pour défonceuse en Ergal /
Juegos para pantógrafo en Ergal / Tool-sets for Ergal-router /
Werkzeug-Garnituren für Ergal-Oberfräsmaschine**



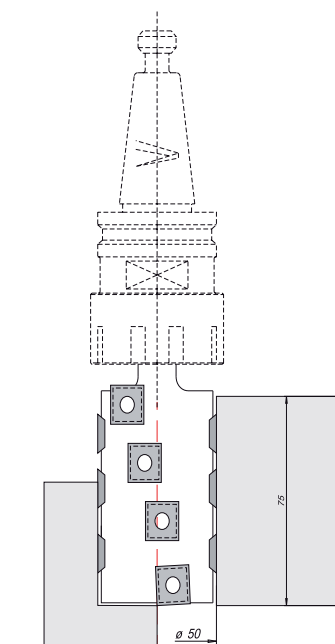
- I Giunzione a pettine maschio. F Bouvetage à peigne - mâle.
 E Ensamble a peine - macho. UK "Comb"jointing (male).
 D "Kamm-Verbindung" Nr. eins.

Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
110	2	B2860.110D2	B2860.110S2	A 2348



- I Giunzione a pettine femmina. F Bouvetage à peigne - femelle.
 E Ensamble a peine - hembra. UK "Comb"jointing (female).
 D "Kamm-Verbindung" Nr. zwei.

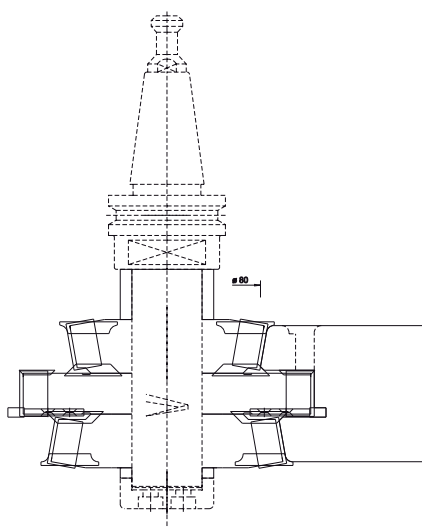
Ø D	Z	CODICE Dx	CODICE Sx	COD. P.
110	2	B2861.110D2	B2861.110S2	A 2348



- I Contornatura arco e sgrossatura battute. F Profilage de l'arc et ébauchage des feuillures. E Moldura del arco y cepillado de los galces.
 UK Curve jointing and rebates roughing. D Rundbogen-Fügen und Vorzerspannung der Fälze

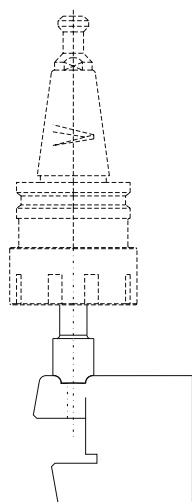
Ø D	B	Z	CODICE Dx	CODICE Sx	COD. P.
20	85	3		CF036.020.3085	A 1222
50	76	14	CF036.050.4002	CF036.050.4003	A 1468

- I Il porta utensili non è compreso nel prezzo.
 F Le porte-outil n'est pas inclus dans le prix.
 E El portafresas no está incluido en el precio.
 UK The shaft is not included in the price.
 D Die Aufnahme ist nicht im Preis inbegriffen.



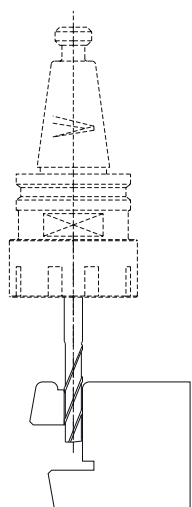
I Gruppo cornice interna vetro. F Garnitures pour chambranle intérieur verre. E Perfilado hoja interior cristal. UK Tool-set for internal glass-frame. D Garnitur für Glas-Innenrahmen.

Ø D	Z	CODICE Dx	COD. P.
80	2	B2261.080C2	A 4112



I Punta per profilare il listello fermavetro. F Mèche pour profilage de la parclose. E Mecha para perfilar el junquillo. UK Shank-tool executing the glazing bead profile. D Schaftwerkzeug zur Profilierung der Glasleiste.

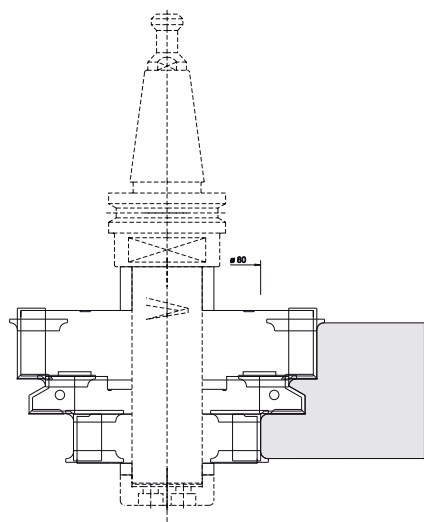
Ø D	Z	CODICE Dx	COD. P.
15	2	CF046.015.2001	A 468
18	2	CF046.018.2001	A 506



I Punta per separare il listello fermavetro. F Mèche pour séparer la parclose. E Mecha para separar el junquillo. UK Shank-tool for glazing-bead recovery. D Schaftwerkzeug zue Glasleiste-Austrennung

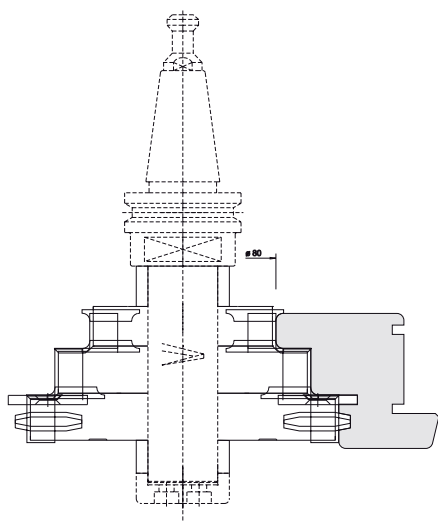
Ø D	Z	CODICE Dx	COD. P.
8	1	CF046.008.1080	A 218
8	2	CF046.008.2070	A 218

- I Il porta utensili non è compreso nel prezzo.
- F Le porte-outil n'est pas inclus dans le prix.
- E El portafresas no está incluido en el precio.
- UK The shaft is not included in the price.
- D Die Aufnahme ist nicht im Preis inbegriffen.



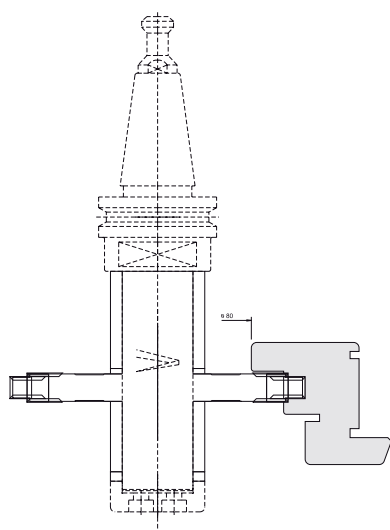
I Profilatura telaio. F Profilage du dormant.
 E Perfilado del marco. UK Frame profiling. D Rahmen-Profilierung.

Ø D	Z	CODICE Dx	COD. P.
80	2	B2238.080C2	A 3418



I Squadatura battente. F Calibrage de l'ouvrant. E Escuadrado de la hoja. UK Sash-squaring. D Flügel-Außenprofilierung.

Ø D	Z	CODICE Dx	COD. P.
80	2	B3207.080C2	A 4526



I Sede ferramenta. F Fraisage pour la crémonne. E Fresa para alojamiento herramienta. UK Sash hardware-groove. D Getriebe-nut.

Ø D	Z	CODICE Dx	COD. P.
80	2	B3528.080C2	A 1166

I Il porta utensili non è compreso nel prezzo.
 F Le porte-outil n'est pas inclus dans le prix.
 E El portafresas no está incluido en el precio.
 UK The shaft is not included in the price.
 D Die Aufnahme ist nicht im Preis begriffen.

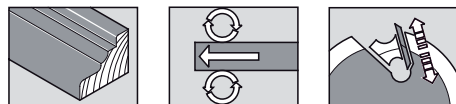


- I** Profilatura interna porta.
- F** Profilage intérieur porte.
- E** Perfilado interior puerta.
- UK** Door internal profile.
- D** Tür Innenprofile.

- I** Profilatura interna porta.
- F** Profilage intérieur porte.
- E** Perfilado interior puerta.
- UK** Door internal profile.
- D** Tür Innenprofile.

- I** Profilatura Interna portoncino.
- F** Profilage intérieur porte d'entrée.
- E** Perfilado interior portal.
- UK** Main door internal profile.
- D** Haustür - Innenprofil

- I** Il porta utensili non è compreso nel prezzo.
- F** Le porte-outil n'est pas inclus dans le prix.
- E** El portafresas no está incluido en el precio.
- UK** The shaft is not included in the price.
- D** Die Aufnahme ist nicht im Preis inbegriffen

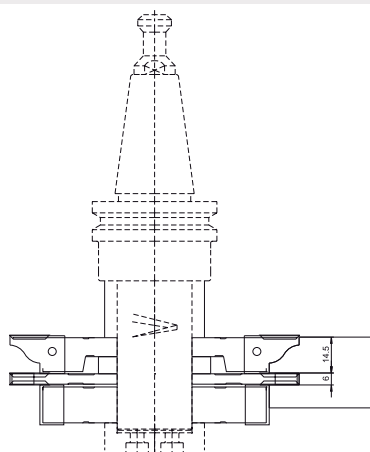


Antine sagomate
Fraises pour cuisine rustique
Fresas para puertas de muebles
Tools for profiled furniture doors
Werkzeuge für profilierte Möbel

B 6201

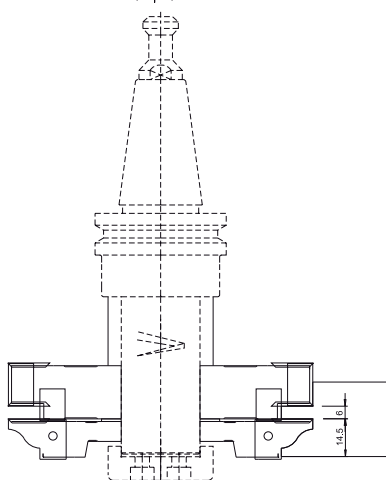


- I** Per profili legno e inserti di ricambio vedi art.B6201, pag.6/4
- F** Pour modèles bois et pièces de rechange voir art.B6201, page 6/4
- E** Para muestras de madera y repuestos vean el art.B6201, pág.6/4
- UK** For Wooden Profile and spare parts please see item B6201, page 6/4
- D** Für Holzprofile und Ersatzteile s. Artikel B6201, Seite 6/4



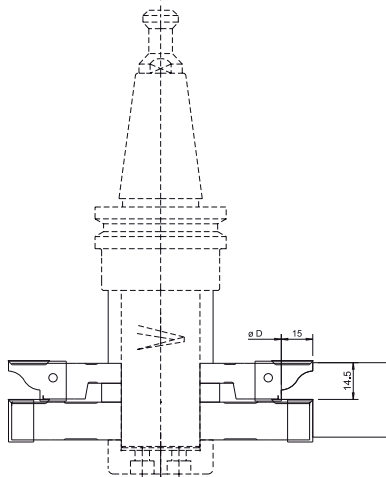
- I** Profilatura **F** Profilage **E** Moldura **UK** Profiling
- D** Innenprofil

Ø D	Z	CODICE	COD. P.
130	2	B2964.100C2	A 2218



- I** Controsagoma **F** Contreprofilage **E** Contramoldura
- UK** Counterprofiling **D** Konterprofil

Ø D	Z	CODICE	COD. P.
130	2	B2965.100C2	A 1844



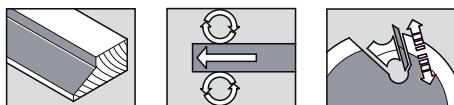
- I** Squadratura **F** Calibrage **E** Escuadrado **UK** Squaring
- D** Außenprofil

Ø D	Z	CODICE	COD. P.
130	2	B3902.100C2	A 1562

- I** Il porta utensili non è compreso nel prezzo.
- F** Le porte-outil n'est pas inclus dans le prix.
- E** El portafresas no está incluido en el precio.
- UK** The shaft is not included in the price.
- D** Die Aufnahme ist nicht im Preis inbegriffen.

Piattabanda per pantografo
Platebande pour défonceuse
Fresa para plafones en pantógrafo
Raised panel cutter for router machine
Abplattfräser für Oberfräsmaschine

CF 010



I Piattabanda per pantografo a profili intercambiabili. Viene fornita, salvo diversa specifica, con il profilo N°4.

F Platebande pour défonceuse avec profils interchangeables. Sauf toute indication supplémentaire, on fournit le profil nr.4.

E Fresa para plafones en pantógrafo con molduras intercambiables. Salvo otras indicaciones, la fresa se entrega con el perfil nr.4.

UK Raised panel cutter for router machine with interchangeable profiles. Unless other indications it is supplied with profile no. 4.

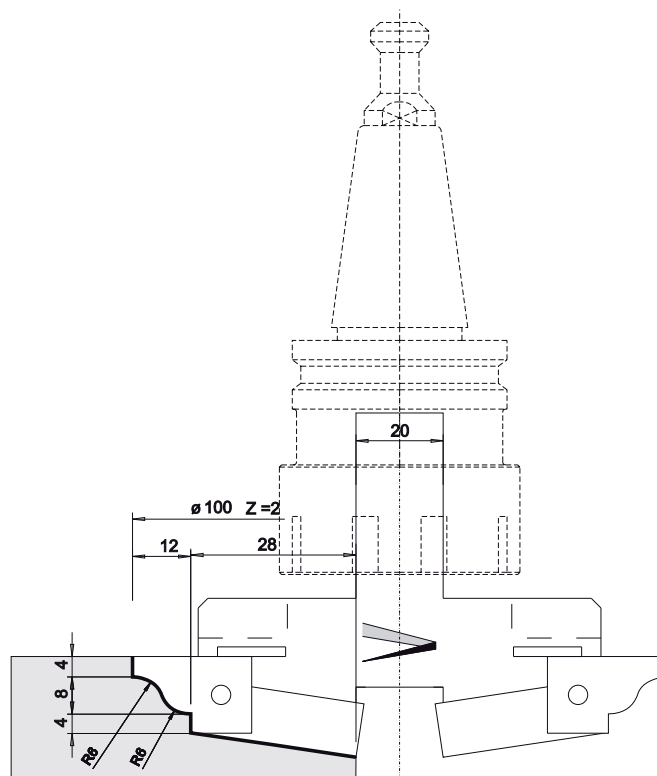
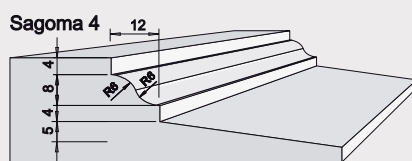
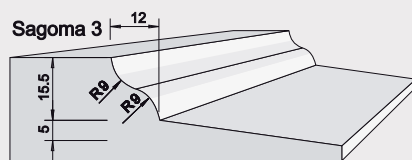
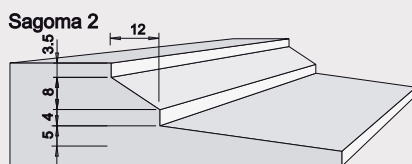
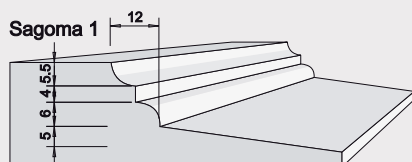
D Abplattfräser für Oberfräsmaschine mit auswechselbaren Profilen. Wenn nicht anders angegeben, wird er mit Profil Nr. 4 geliefert.

Ø D	Z	CODICE	COD. P.
100	2	CF010.100.2205	A 1716

Inserti di ricambio

B	Cod.	COD. P.
Sagoma 1	F2.16.1028	B 616
Sagoma 2	F2.16.1030	B 616
Sagoma 3	F2.16.1032	B 616
Sagoma 4	F2.16.1034	B 616
Piattabanda	F0.30.12.15 λ	B 880

• Confezione da 10 pezzi



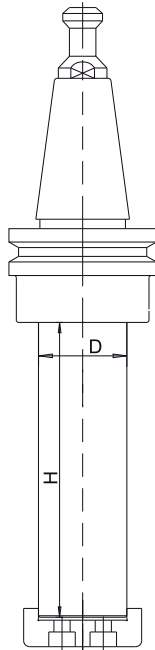
I Il porta utensili non è compreso nel prezzo.

F Le porte-outil n'est pas inclus dans le prix.

E El portafresas no está incluido en el precio.

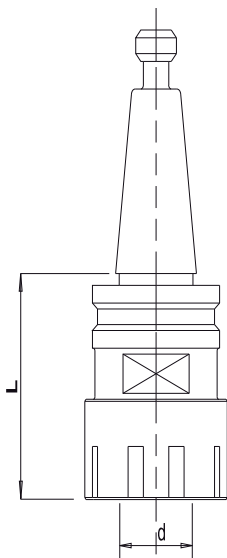
UK The shaft is not included in the price.

D Die Aufnahme ist nicht im Preis inbegriffen.



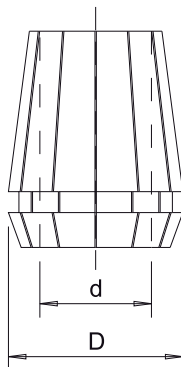
I Albero porta utensili completo di tirante e cappello. F Arbre porte-outils complet de tirant et chape. E Eje portafresas completo de tirantes y tapa. UK Shank for tools with pin and ring nut. D Schaft mit Stiften und Mutter.

TIPO	D	H	CODICE	COD. P.
ISO 30	30	100	G19.30.31.100	B 7840
ISO 30 SCM	30	100	G19.30.32.100	B 7840
ISO 40	30	100	G19.30.40.100	B 8400
HSK 63-F	30	100	G19.30.63.100	B 11600
HSK 63-E CMS	30	100	G19.30.62.100	B 11600



I Porta pinza completo. F Porte-outil complet. E Portapinzas completo. UK Collet fixing for tool shank. D Schelle für die Befestigung für die Schaftwerkzeuge.

TIPO	d pinza	L	CODICE	COD. P.
ISO 30	3/20	50	G19.33.31.050	B 7600
ISO 30	3/20	67	G19.33.30.067	B 7600
ISO 30	3/25	60	G19.41.30.060	B 7600
ISO 30 SCM	3/20	50	G19.33.32.050	B 7600
ISO 30 SCM	3/25	60	G19.41.32.060	B 7600
ISO 40	3/20	70	G19.33.40.070	B 7600
ISO 40	3/25	75	G19.41.40.075	B 8160
HSK 63-F	3/20	70	G19.33.63.070	B 8400
HSK 63-F	3/25	70	G19.41.63.070	B 10240
HSK 63-E CMS	3/20	70	G19.33.62.070	B 8400
HSK 63-E CMS	3/25	70	G19.41.62.070	B 10240

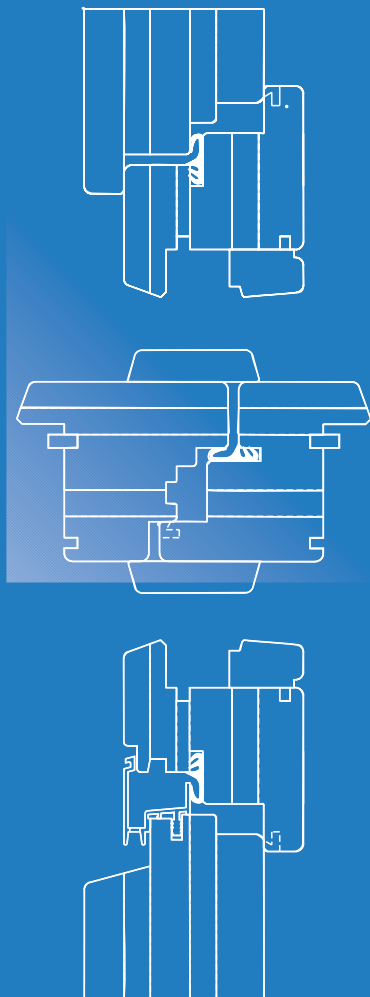


I Pinza porta utensili. F Détail du porte-outil. E Pinzas portafresas. UK Collet for tool shank. D Befestigung für Schaftwerkzeuge.

D	d	CODICE	COD. P.
32	8	G44.32.008.01	B 1160
32	12	G44.32.012.01	B 1160
32	18	G44.32.018.01	B 1160
32	20	G44.32.020.01	B 1160
40	25	G44.40.025.01	B 1160



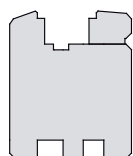
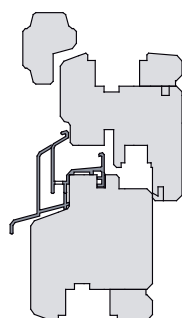
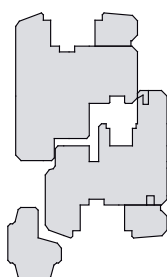
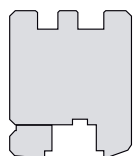
Sezioni finestre
Sections de fenêtre
Secciones de ventanas
Window cross-sections
Fensterschnitte



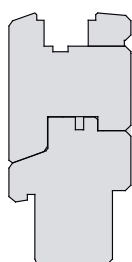
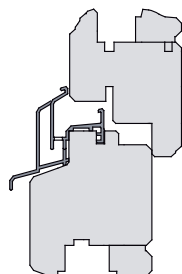
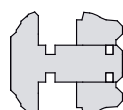
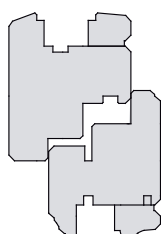
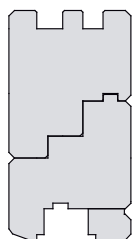
Windows	10-3
Italian windows	10-4
German windows	10-14
Belgian windows	10-20
Swiss windows	10-23
Danish windows	10-24
Icelandic windows	10-26
Spanish windows	10-28
French windows	10-30
English windows	10-32
Greek windows	10-33
Polish, Czech & Slovak windows	10-34
Hungarian windows	10-35
Telaio riportato in stile inglese Dormant à l'anglaise Marco de stilo inglés English frame Rahmen-Sprossen	10-36
Telaio riportato in stile inglese Dormant à l'anglaise Marco de stilo inglés English frame Rahmen-sprossen	B 6020 10-37
Alzante scorrevole Fenetre coulissante Ventana oscilobatiente Sliding raiser Schiebe-Fensteraufheber	10-38
Alzante scorrevole Fenetre coulissante Ventana oscilobatiente Sliding raiser Schiebe- fensteraufheber	B 3161 10-39
Fresa per finestra scorrevole Fraise pour fenêtre coulissante Fresa para ventana corredera Tool-set for sliding window Garnitur für Schiebefenster	B 6301 10-40
Fresa per sede ferramenta Fraise pour emplacement de crémones Fresa para falleba Hardware grooving cutter Getriebenutfräser	CI 647 10-41



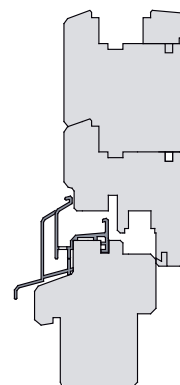
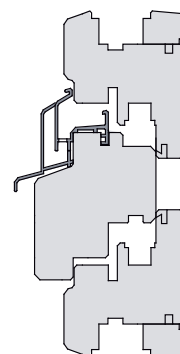
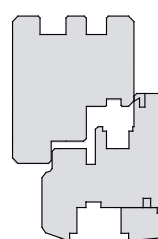
A-A

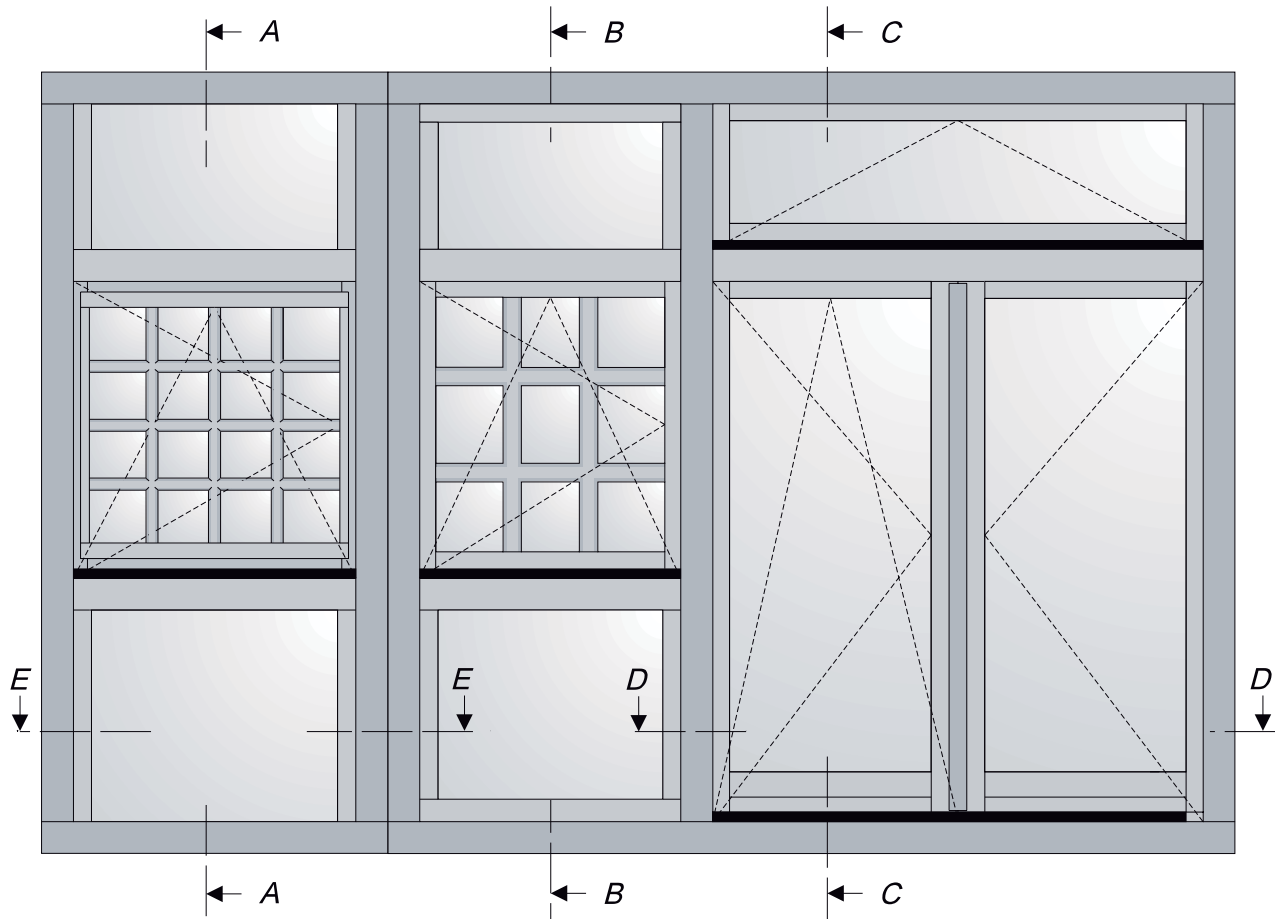


B-B

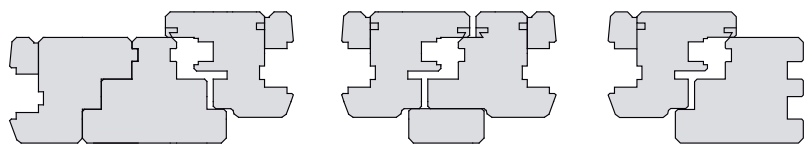


C-C

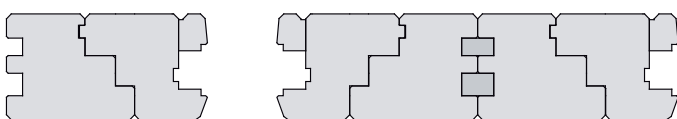


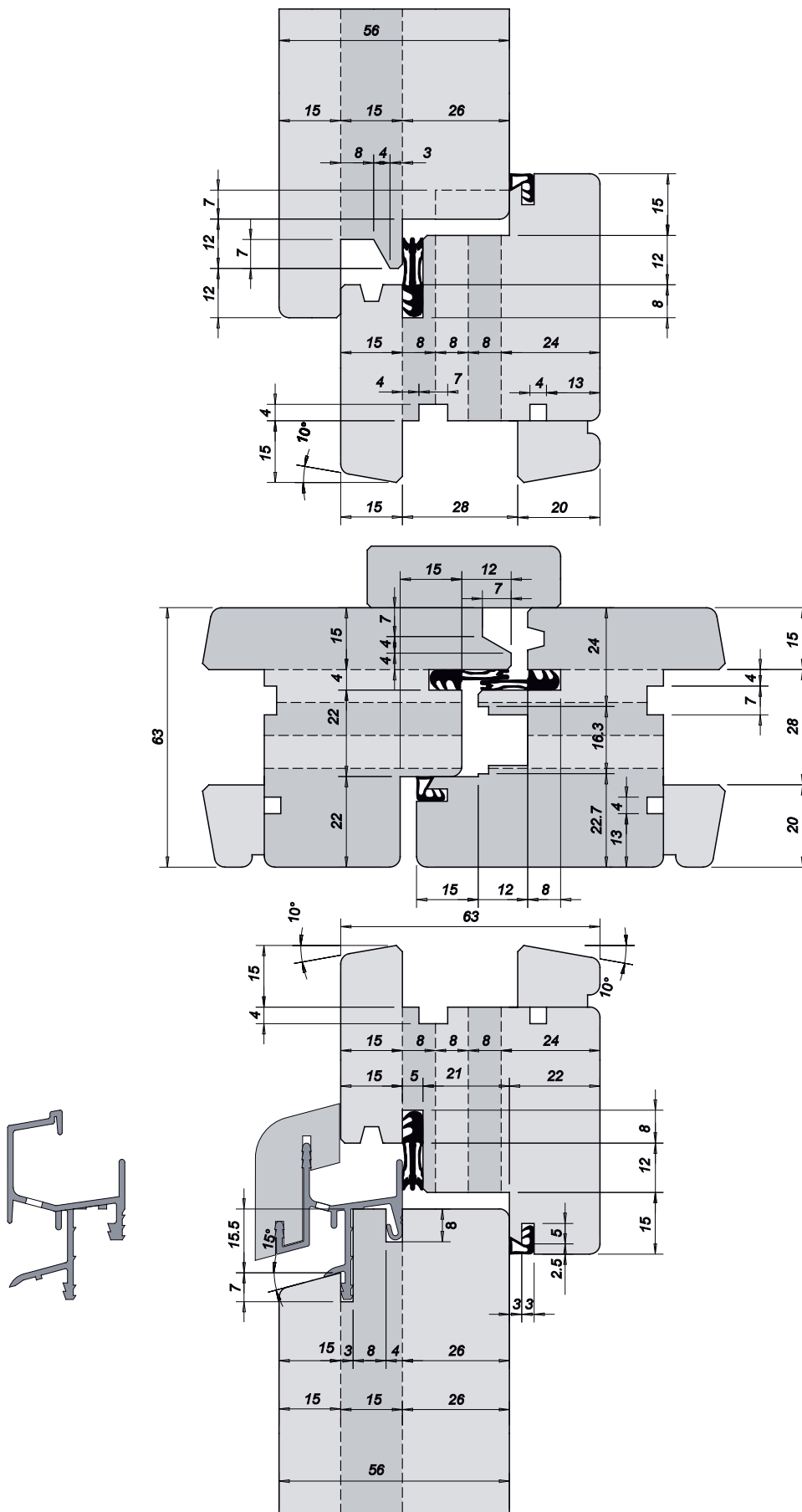


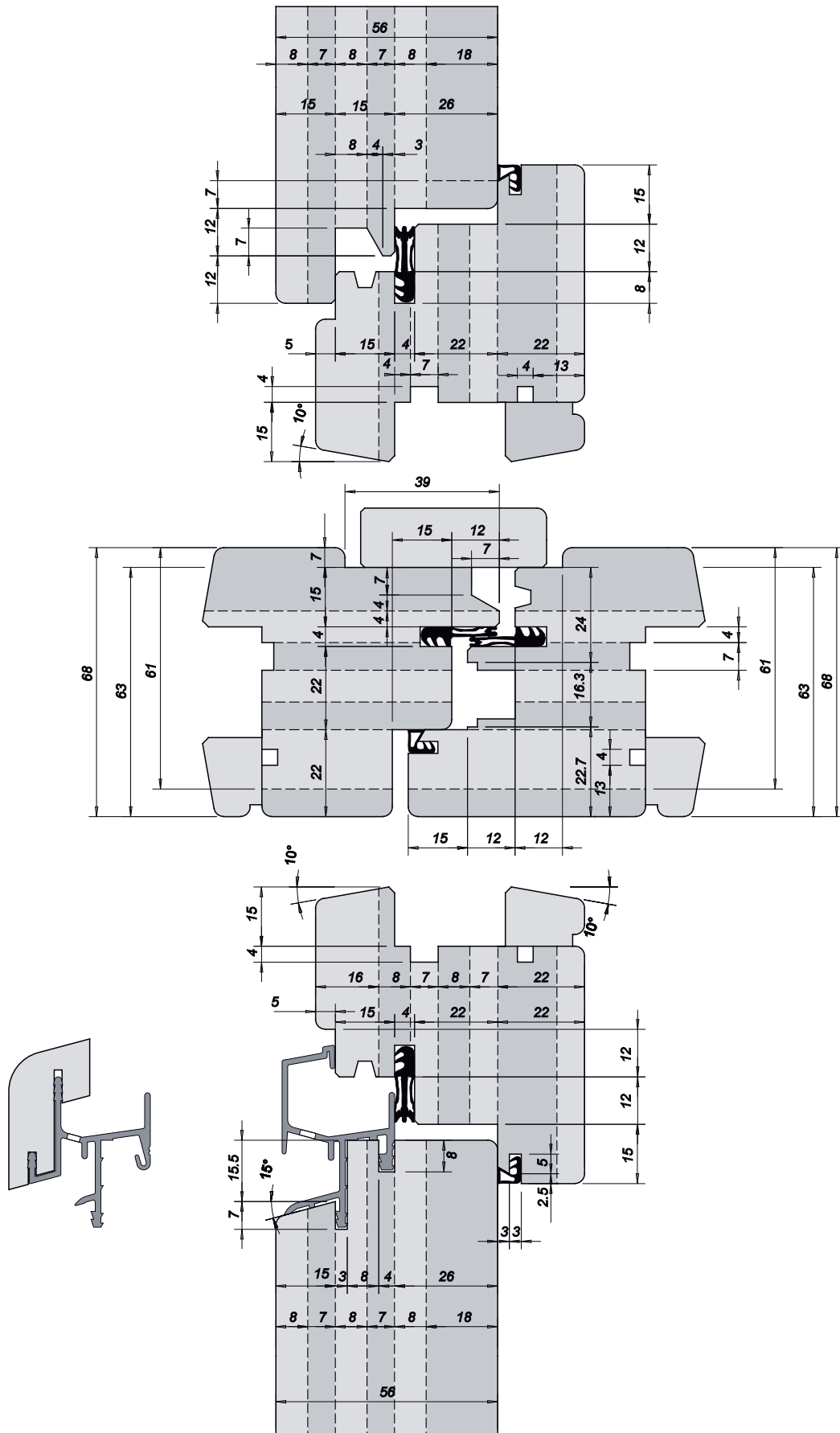
D-D

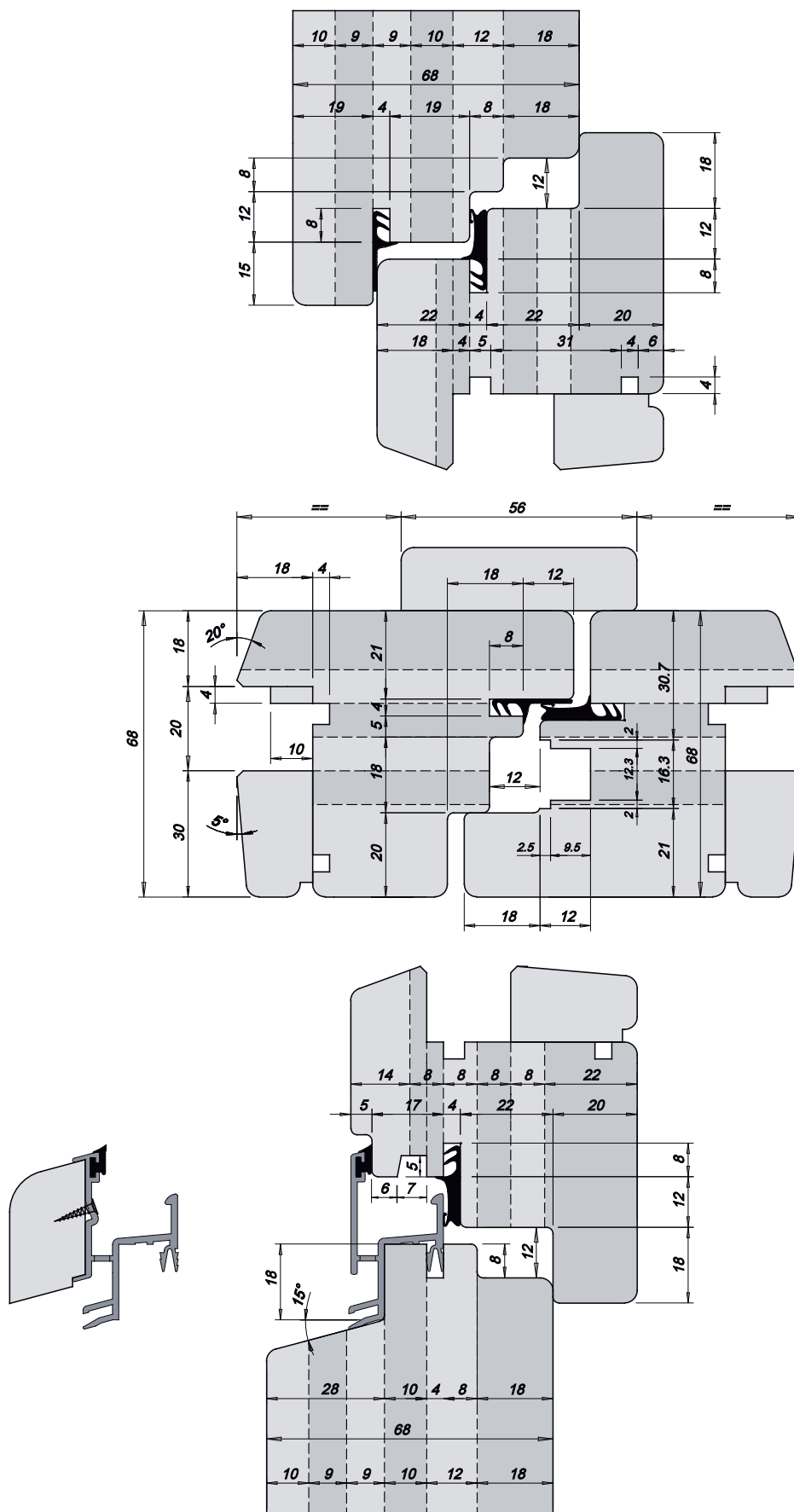


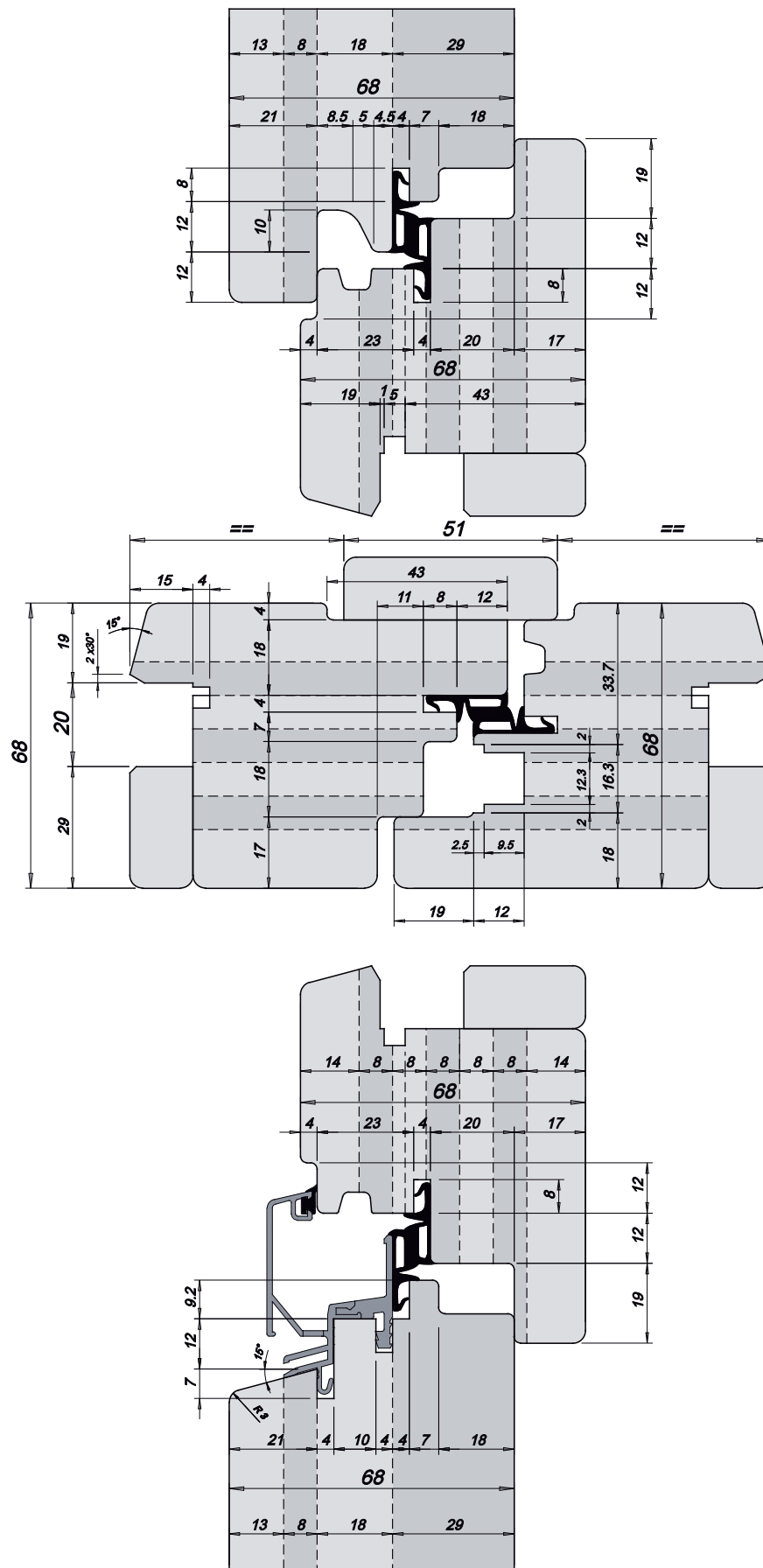
E-E

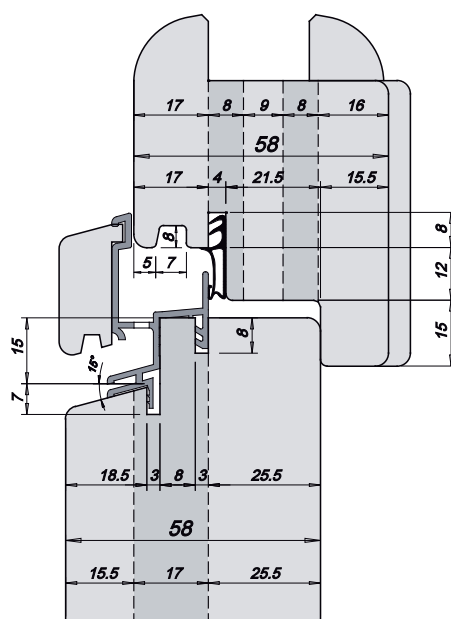
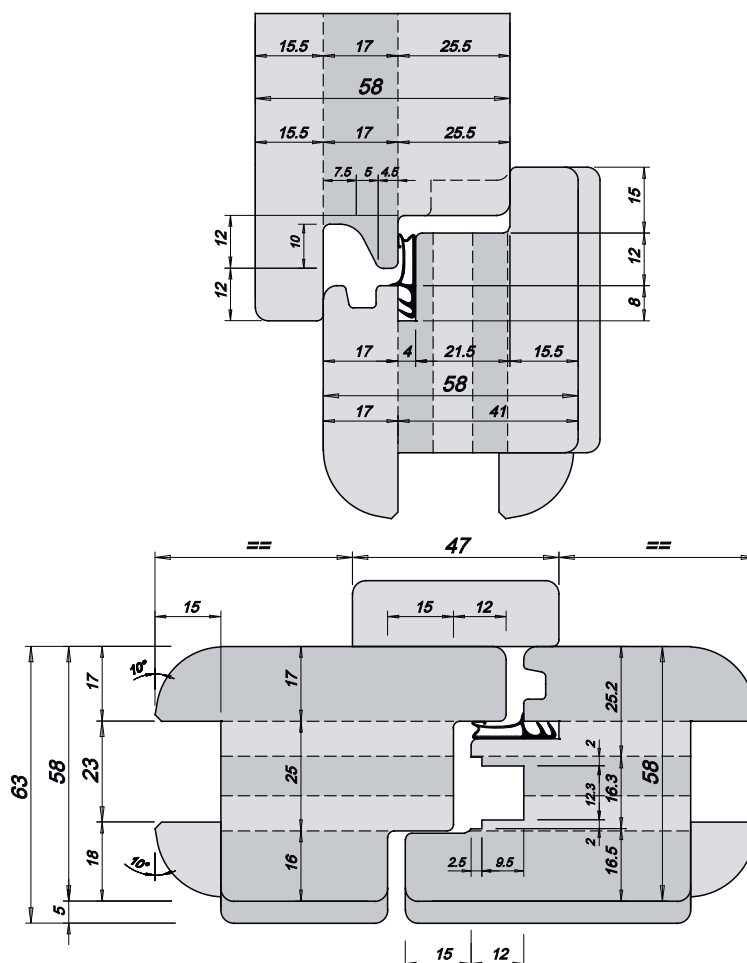


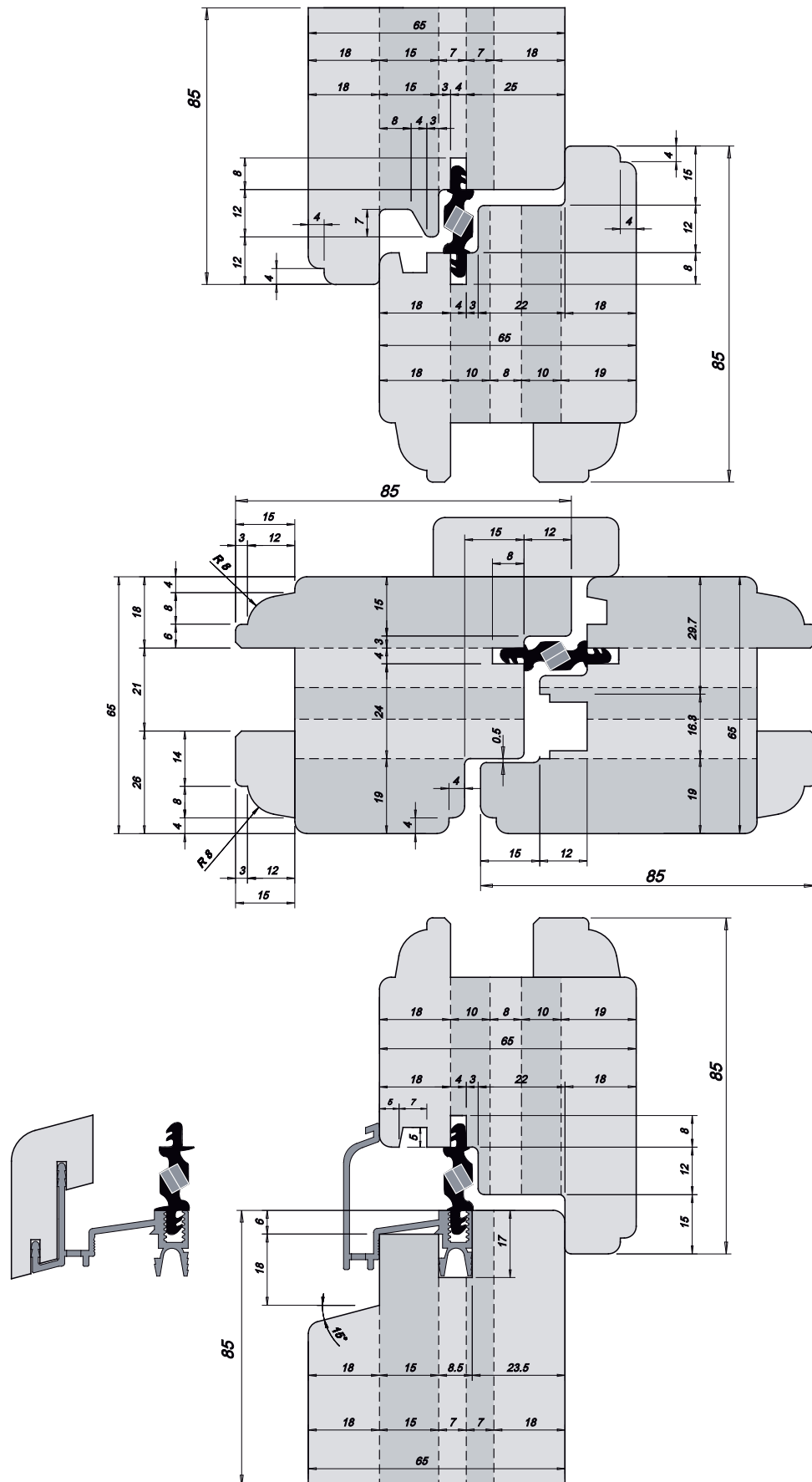


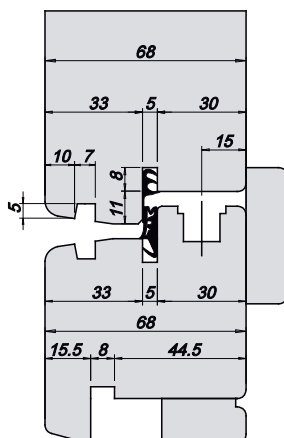




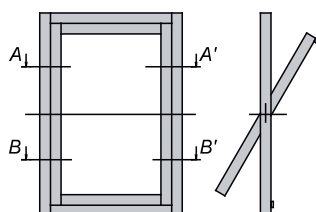
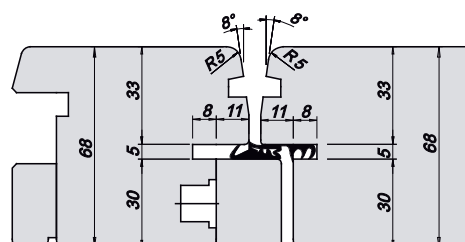
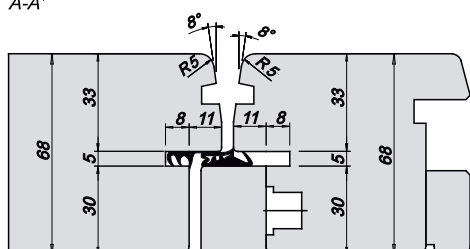




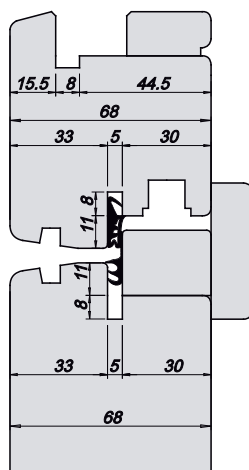
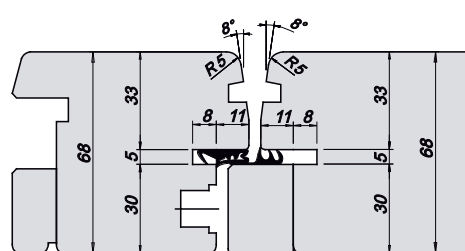
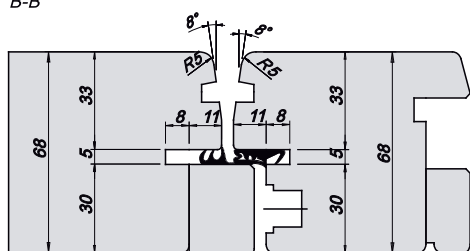


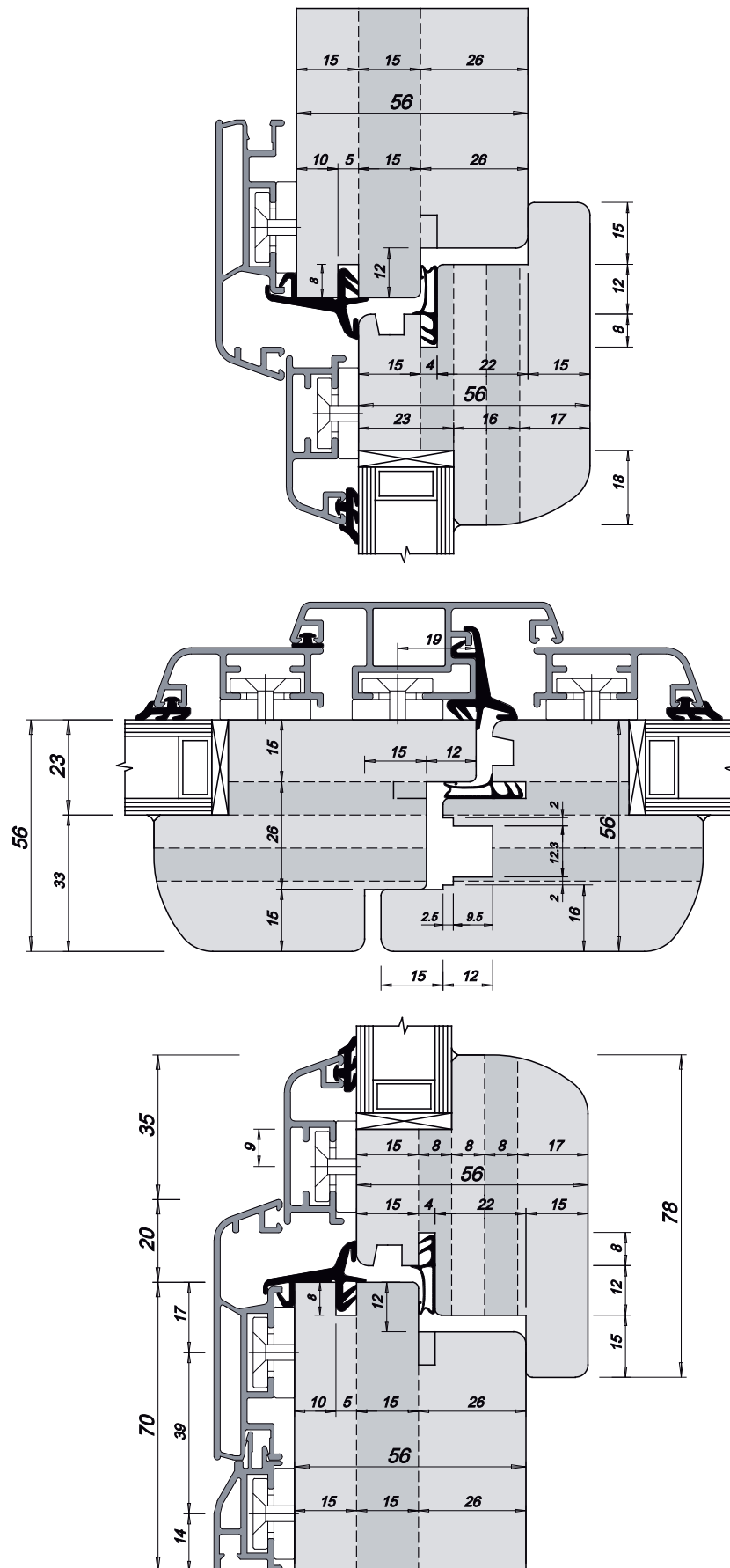


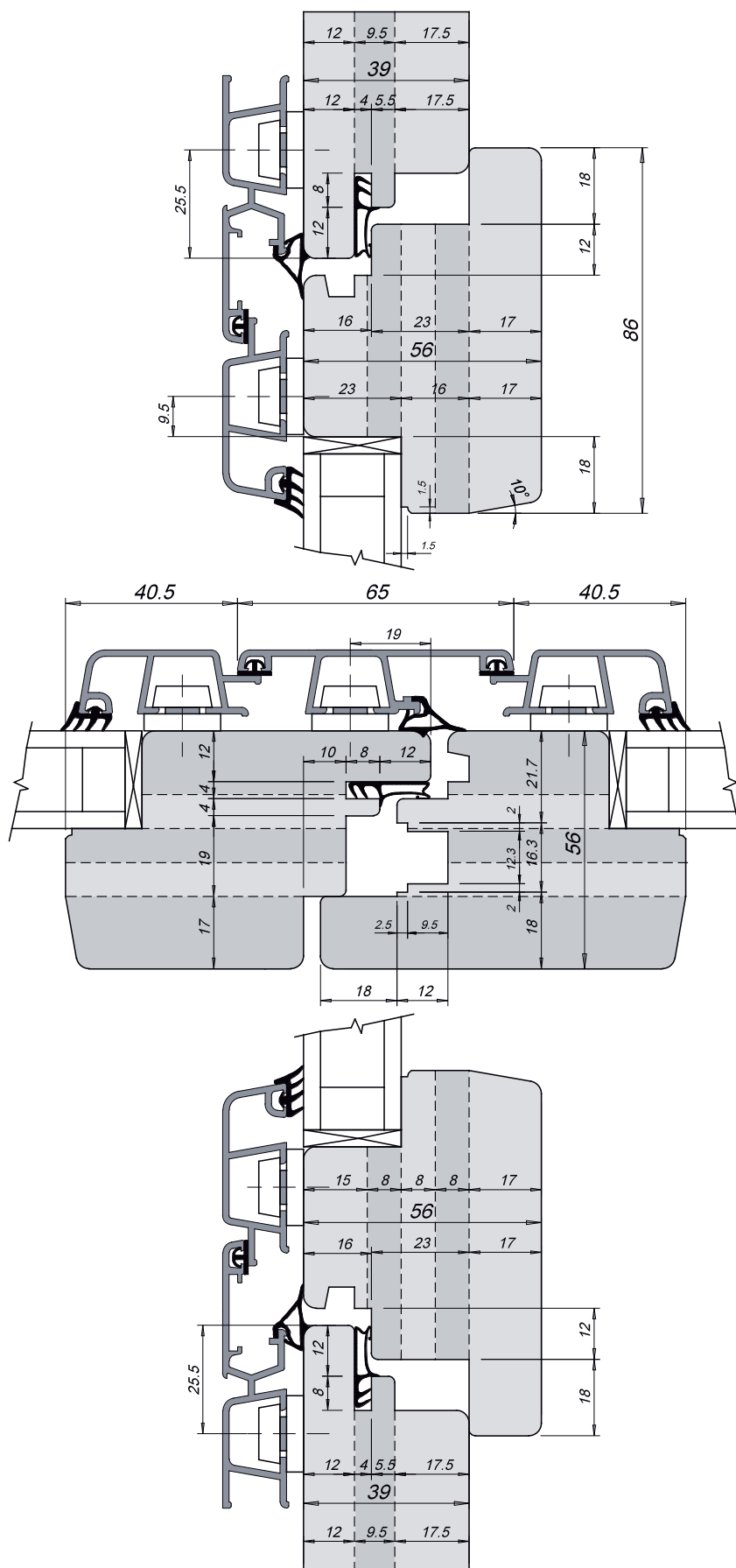
A-A'

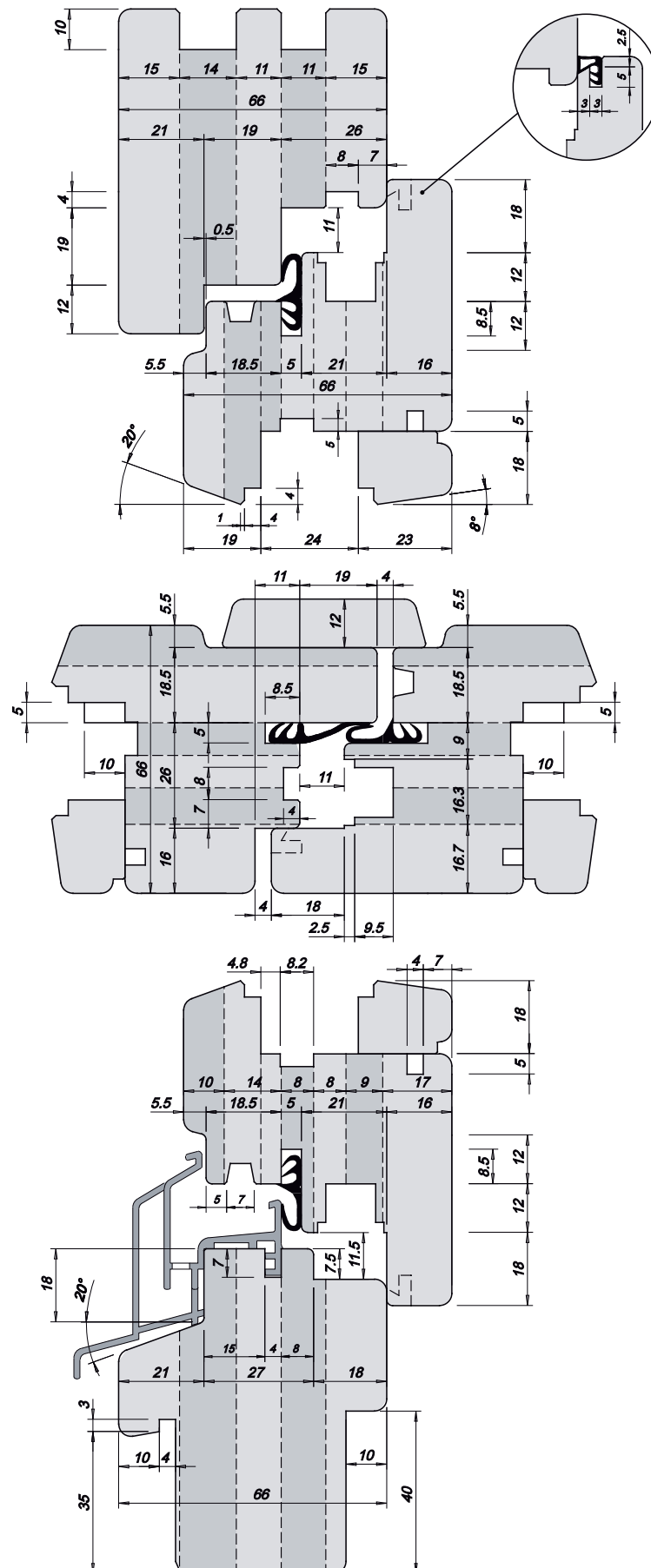


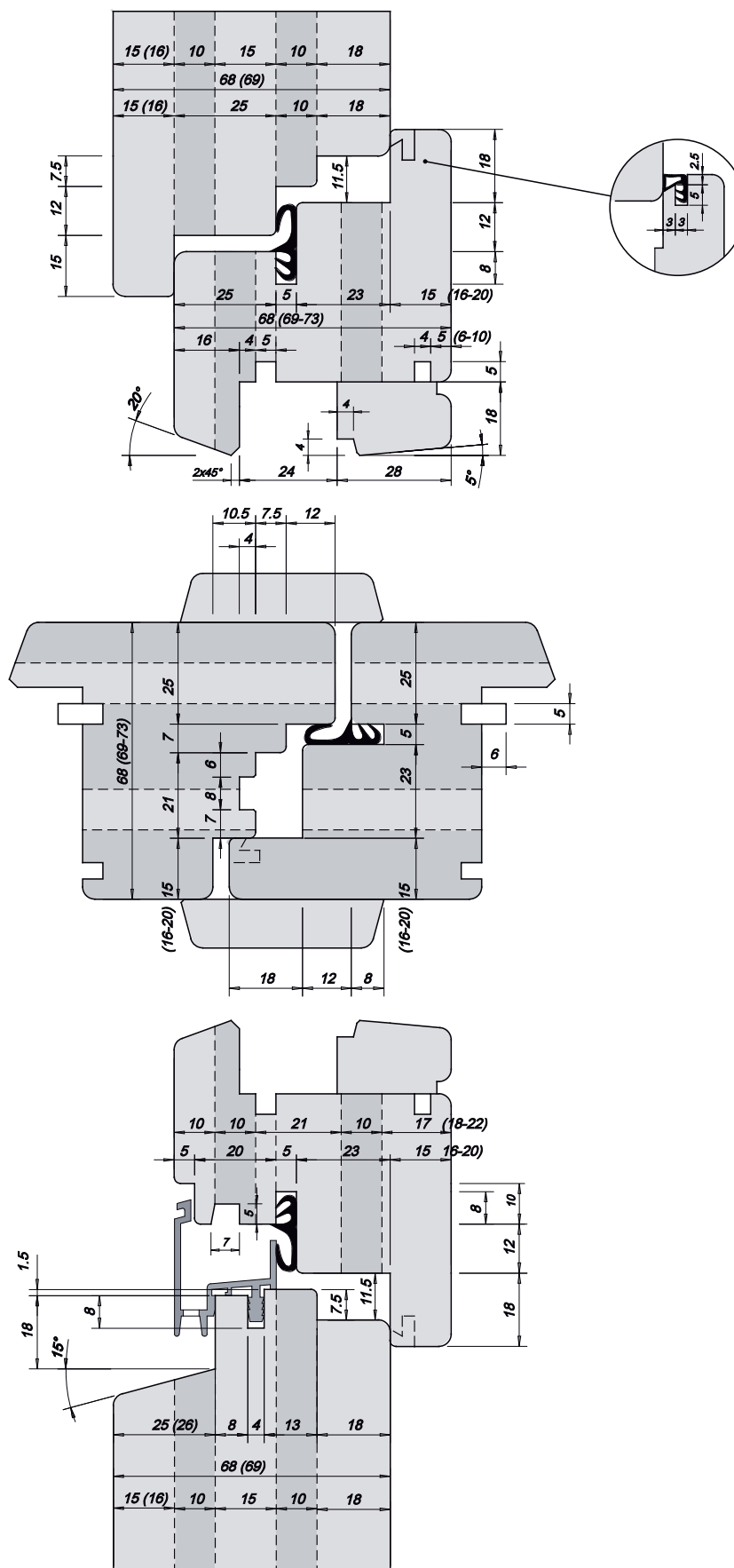
B-B'

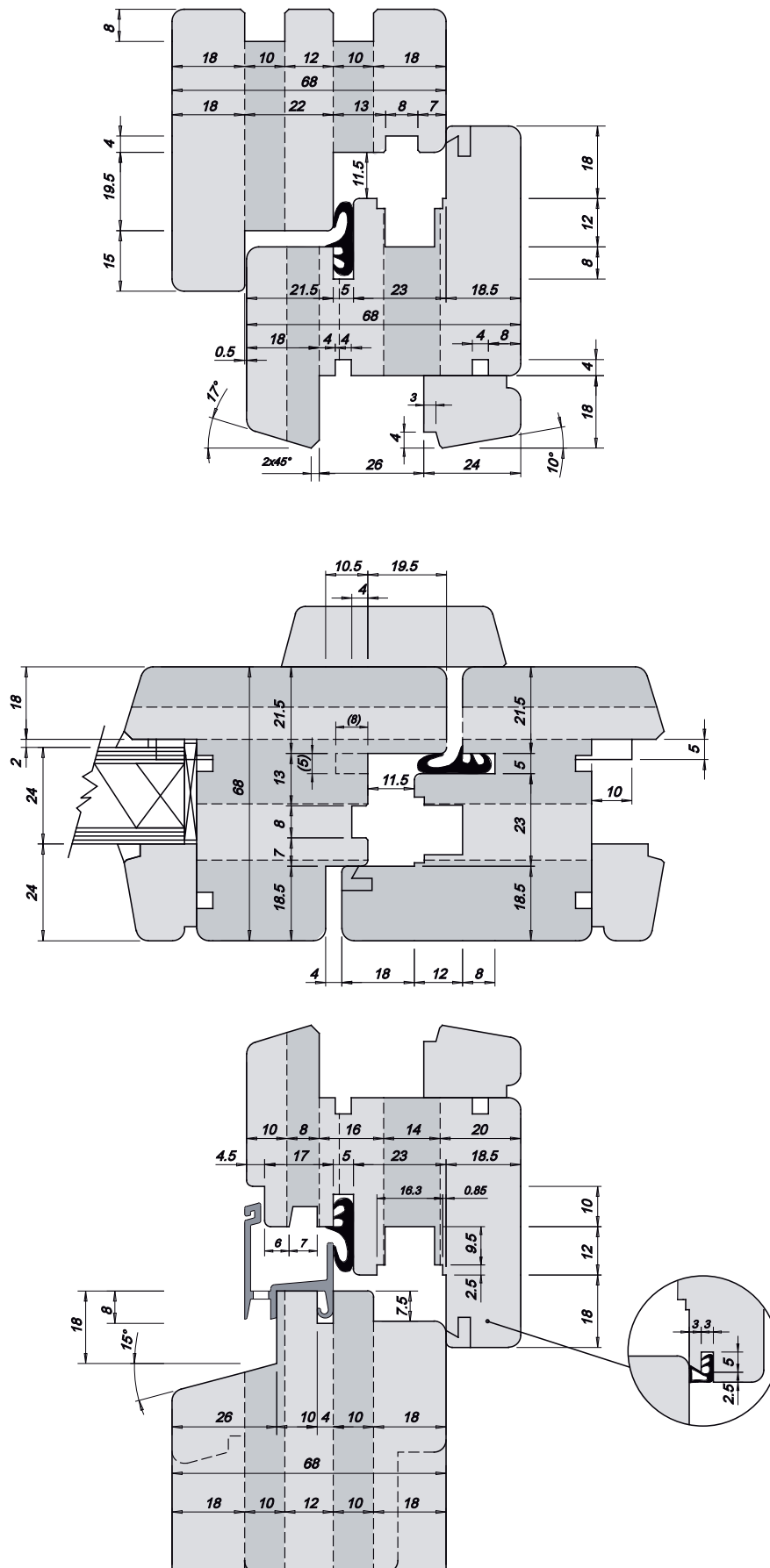


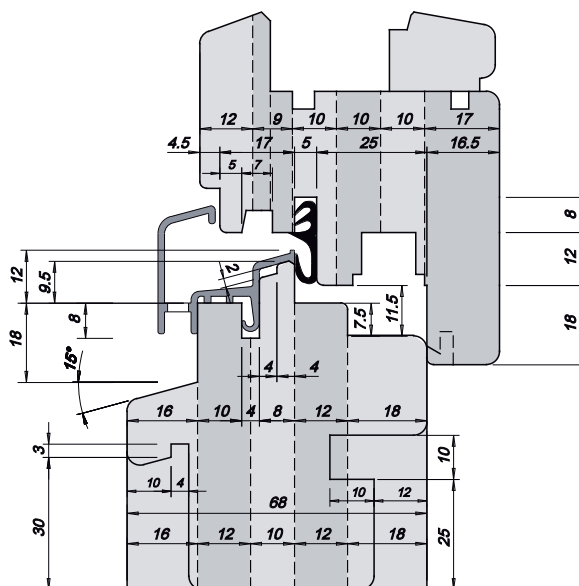
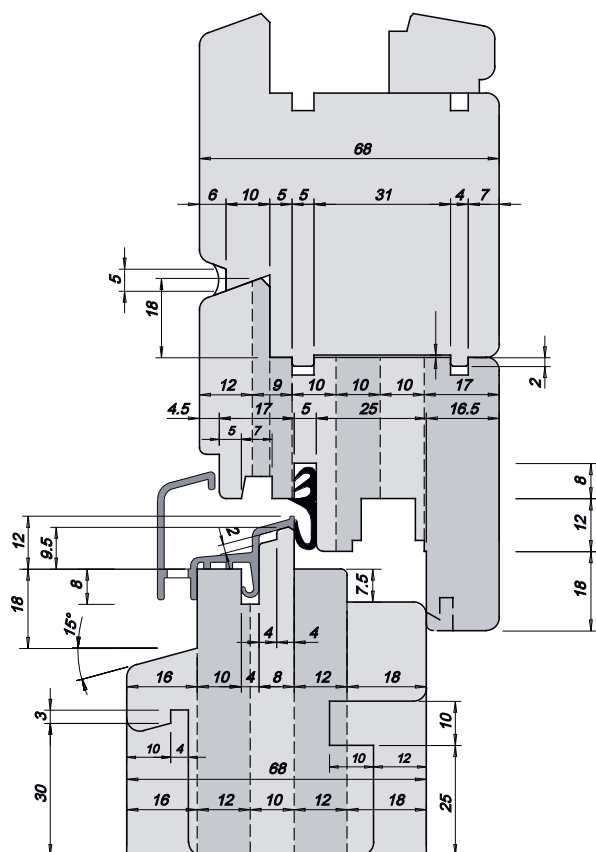
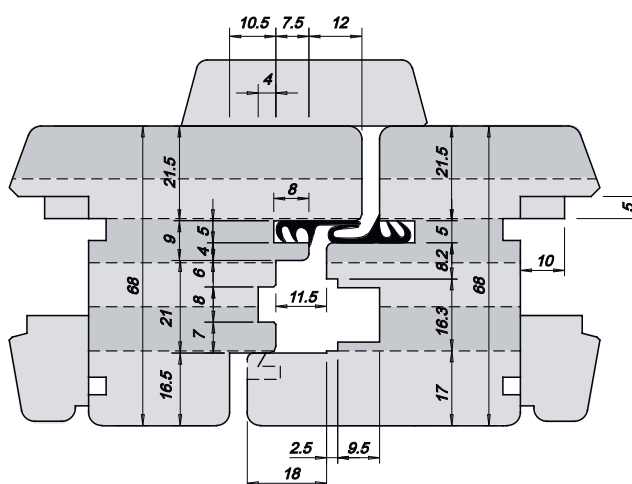
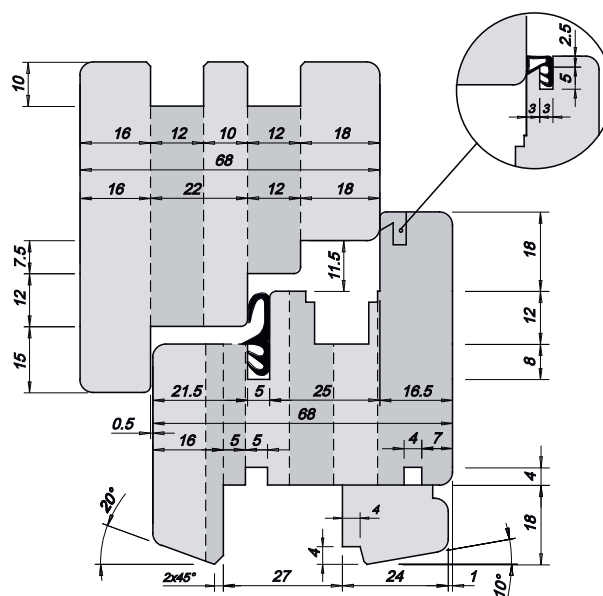


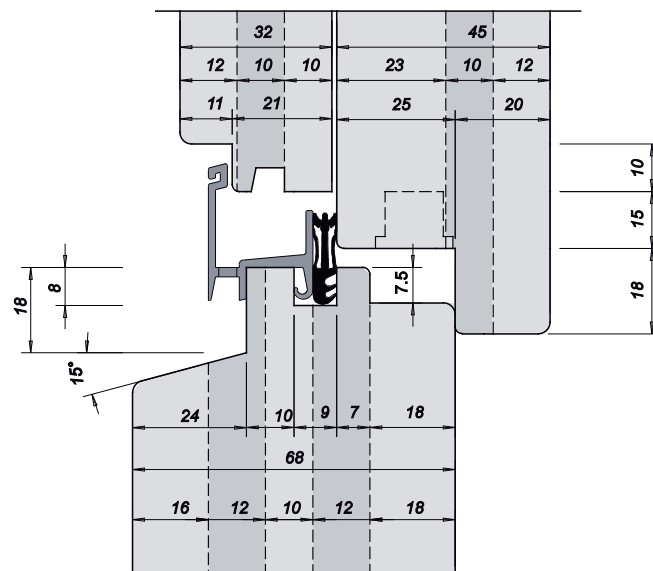
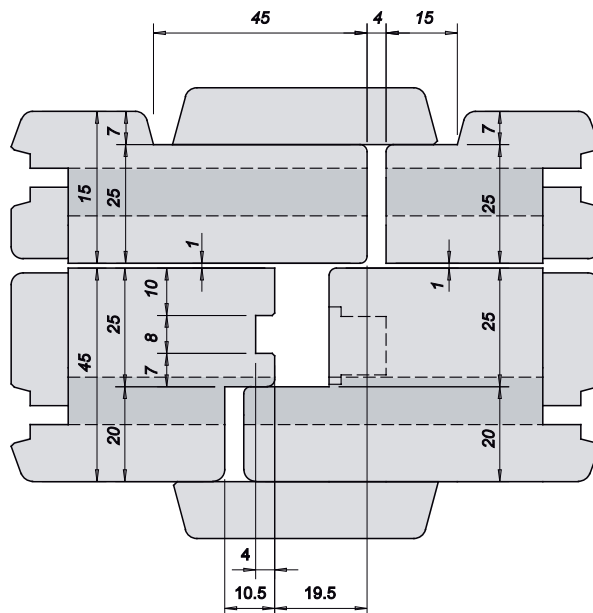
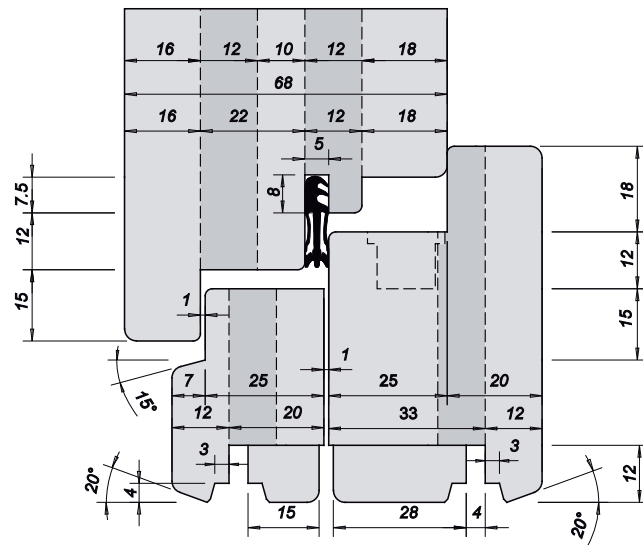


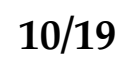


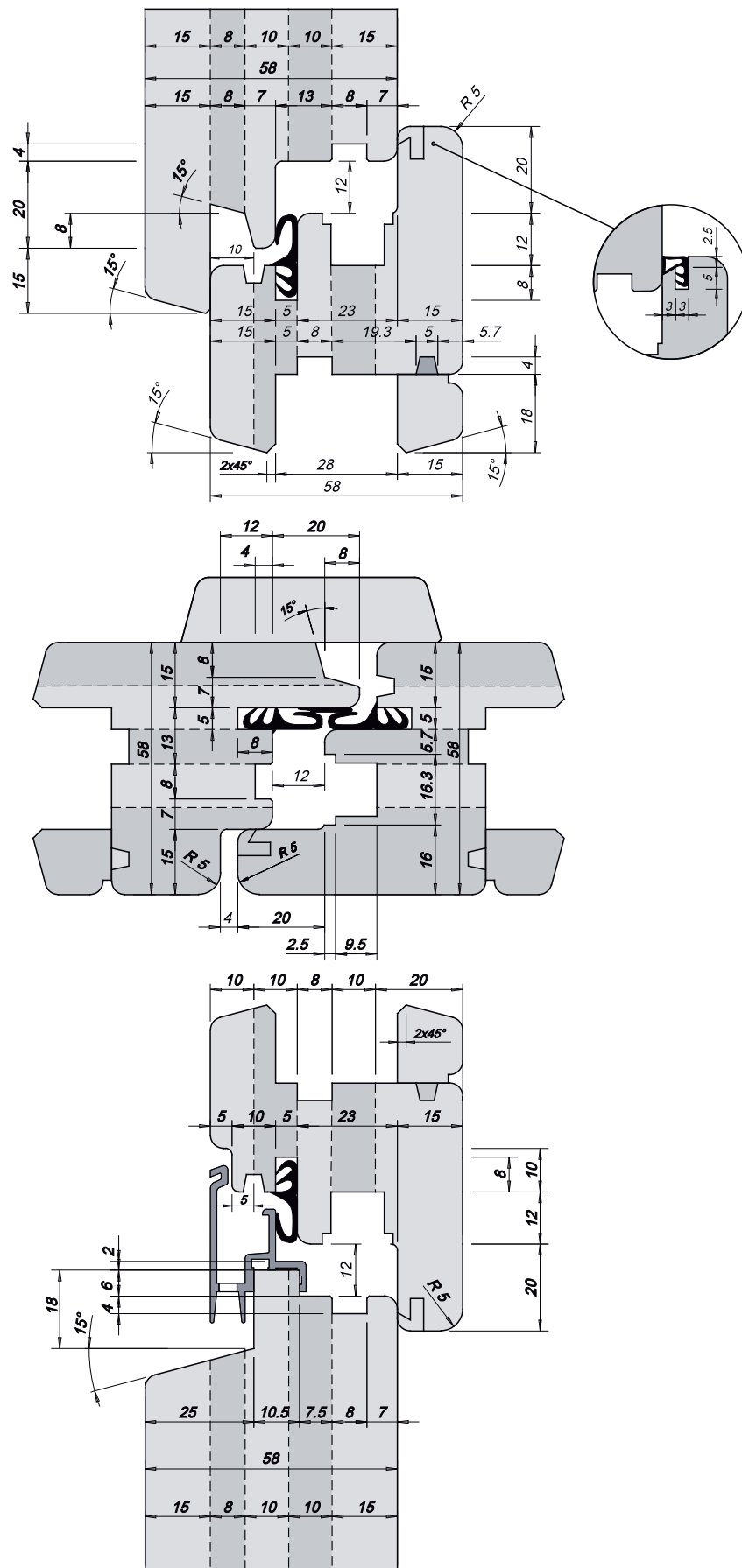


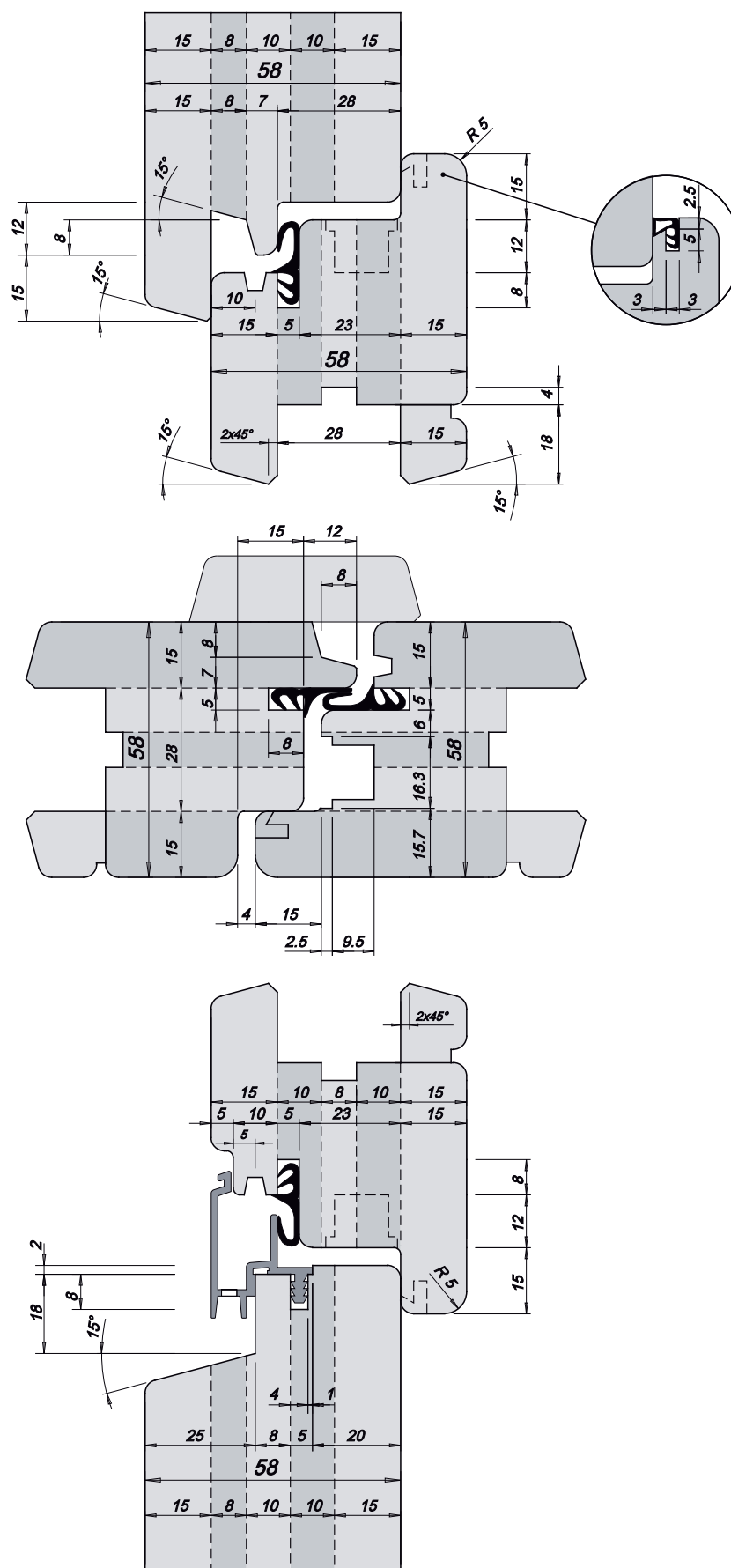


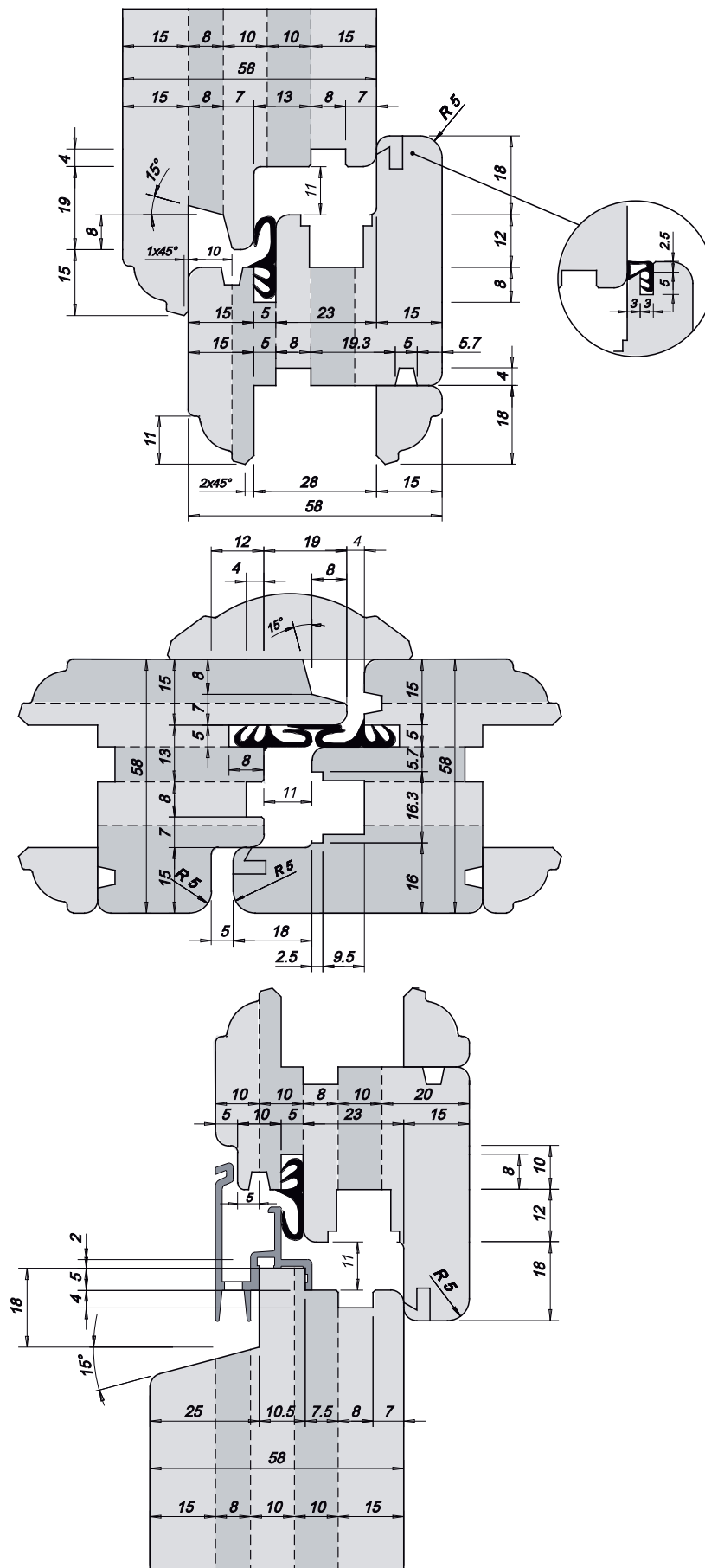


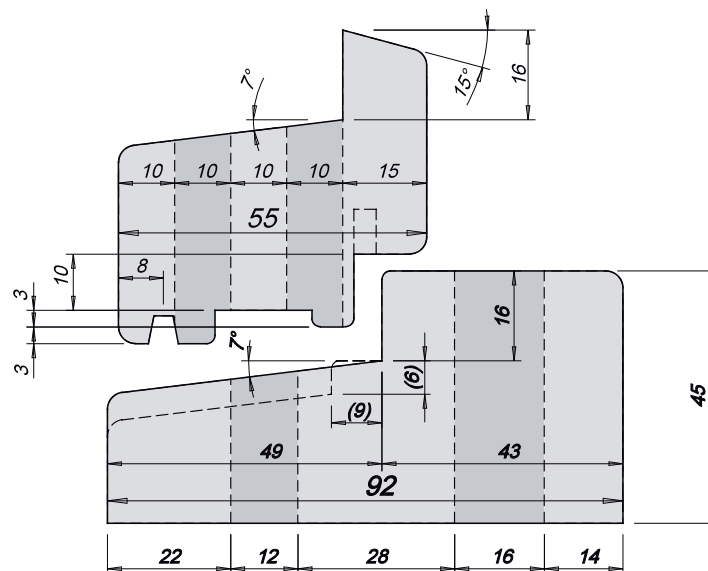
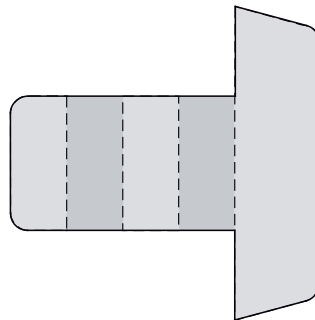
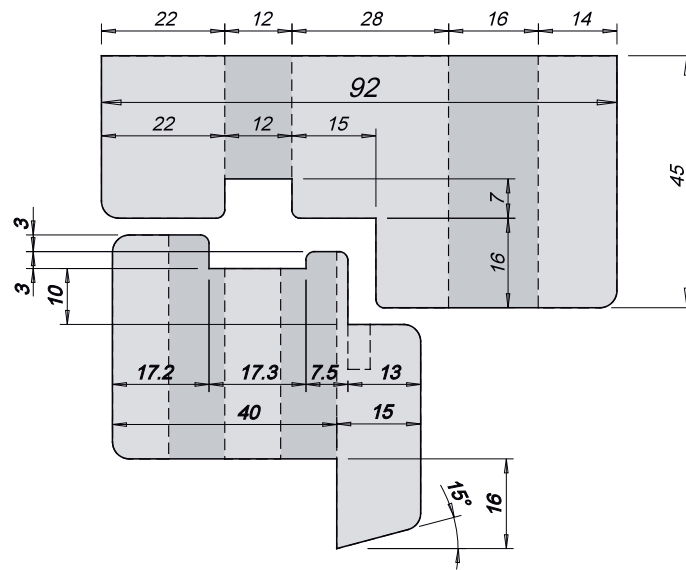


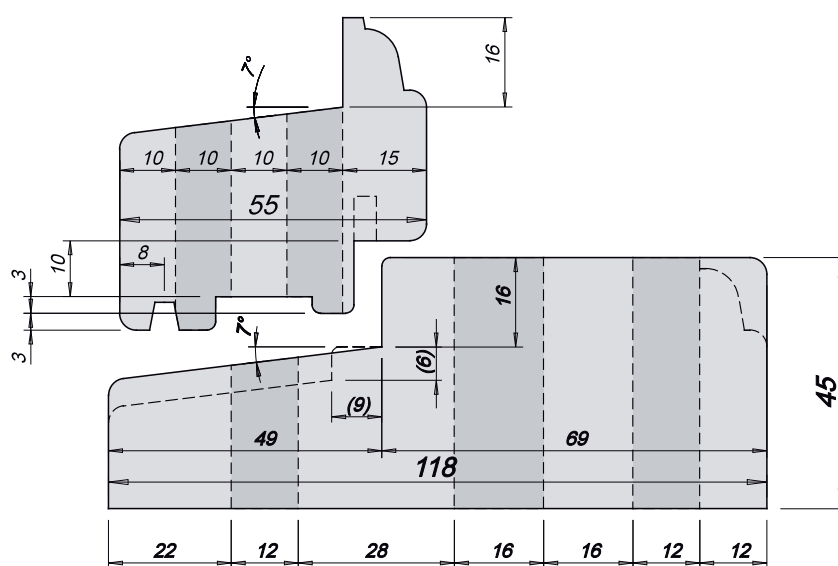
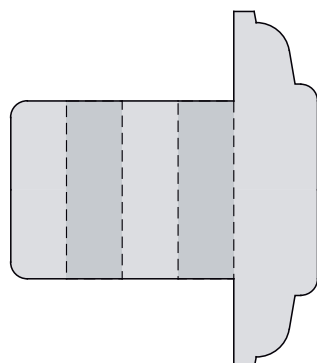
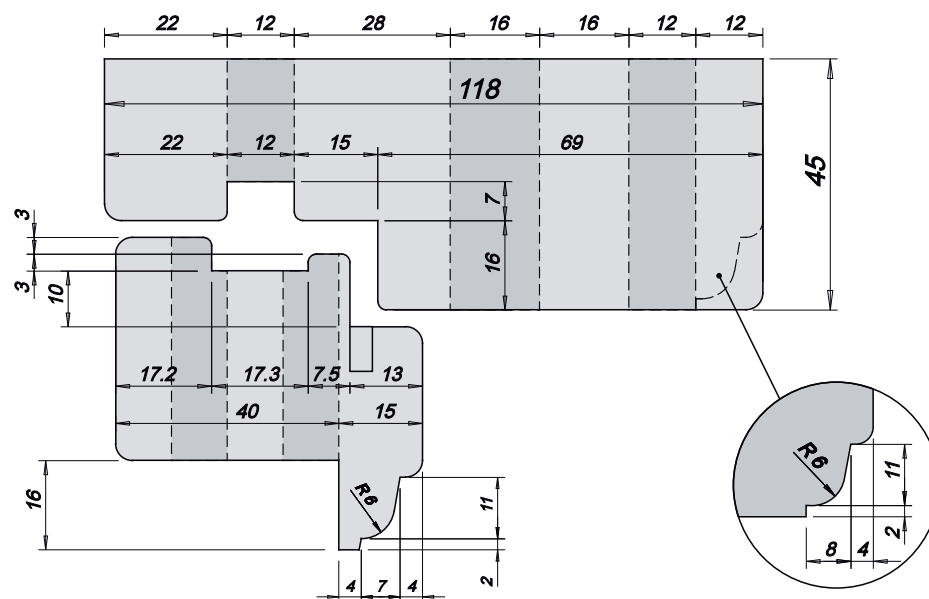


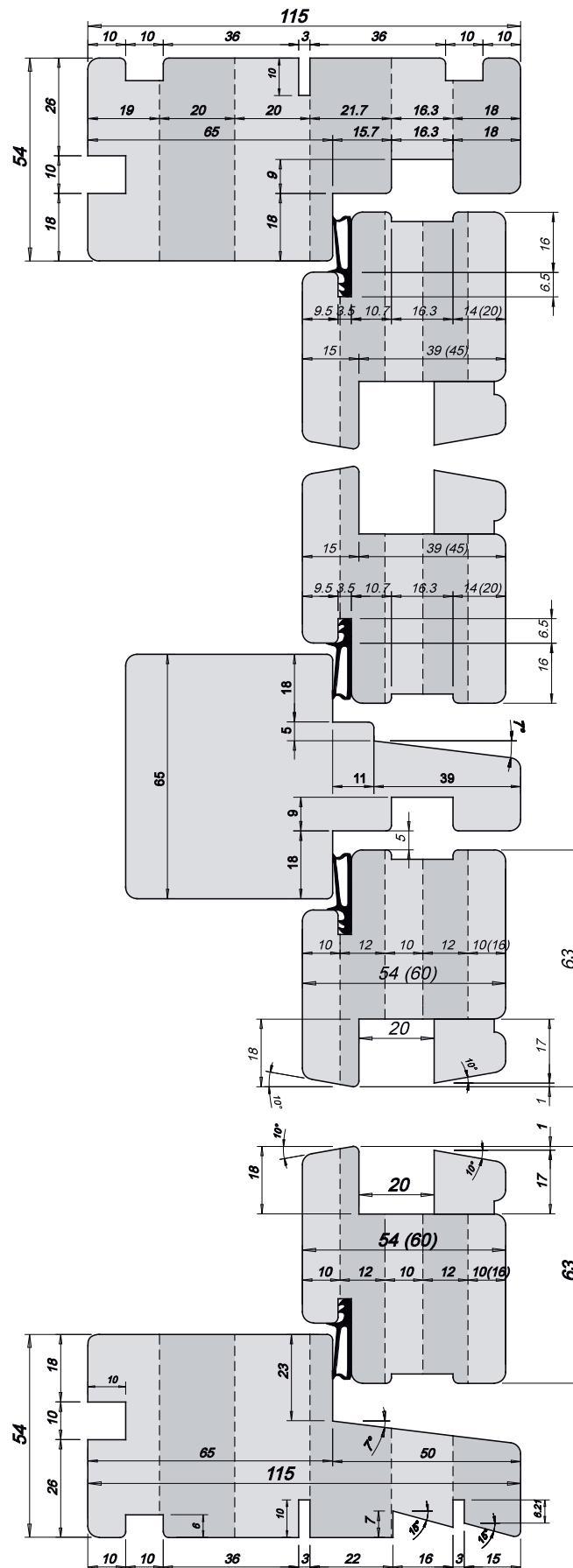


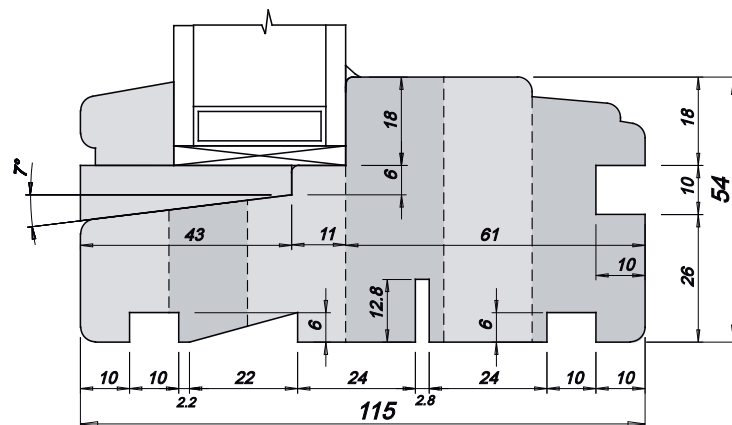
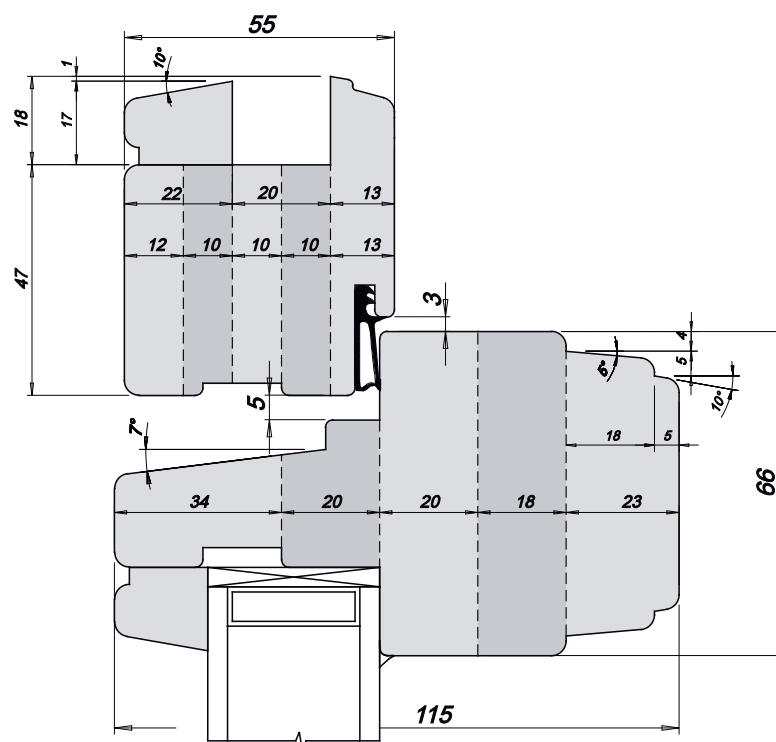
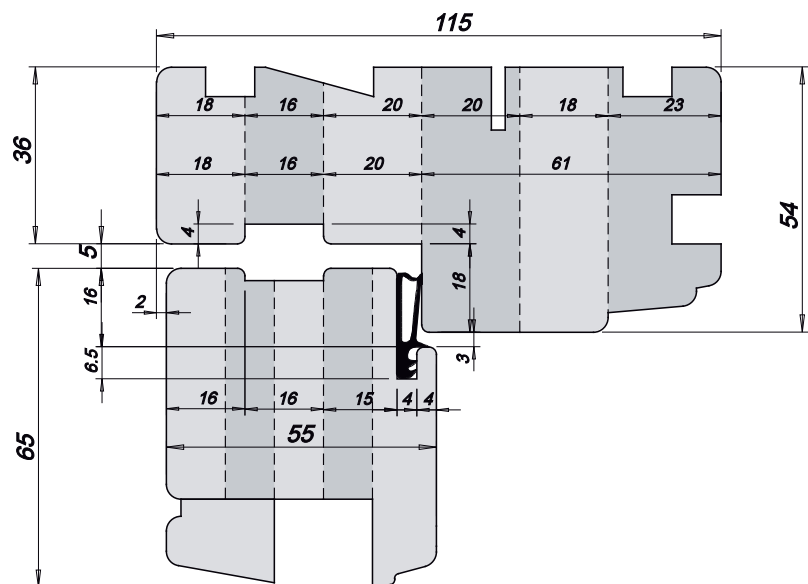


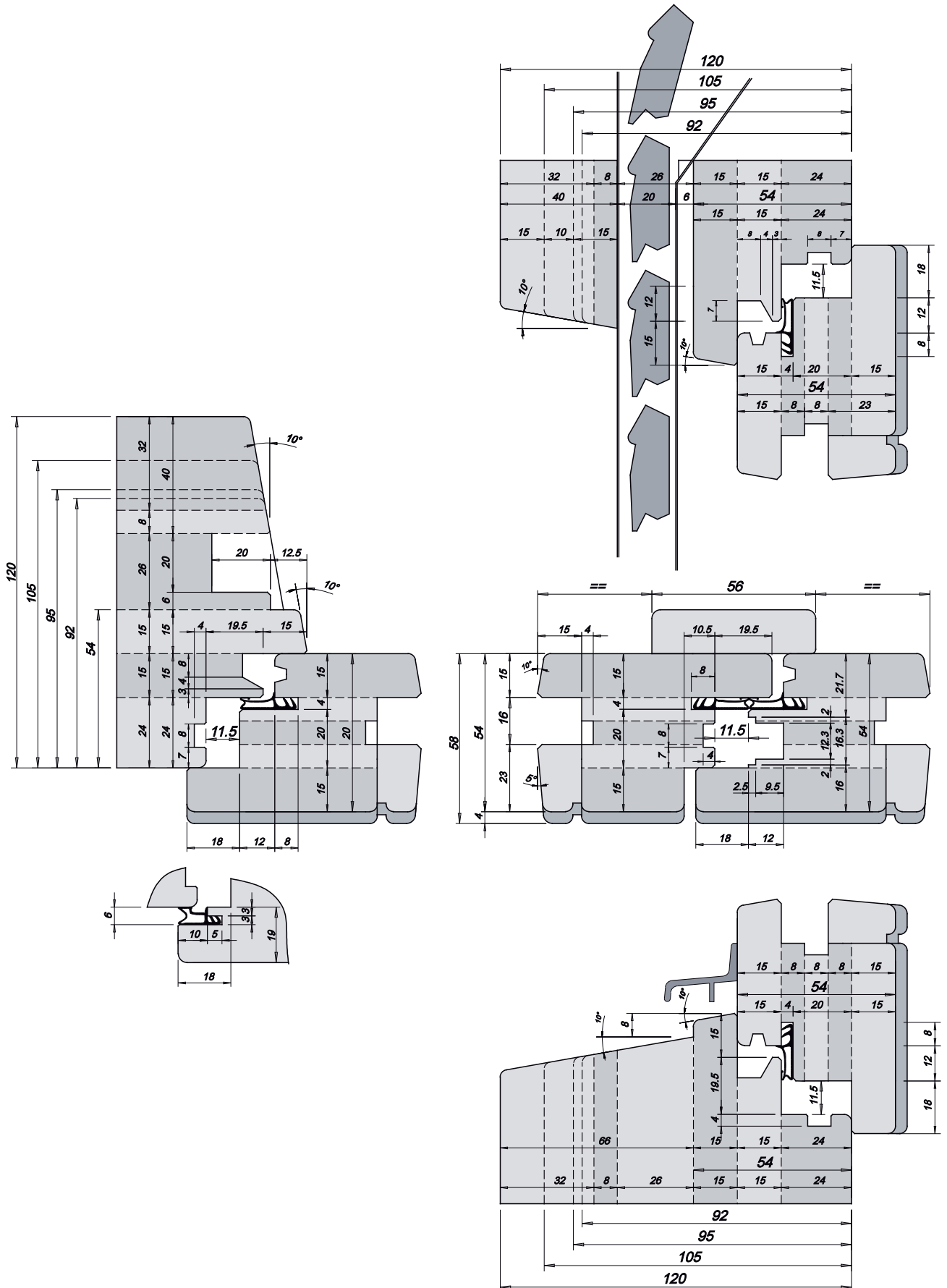


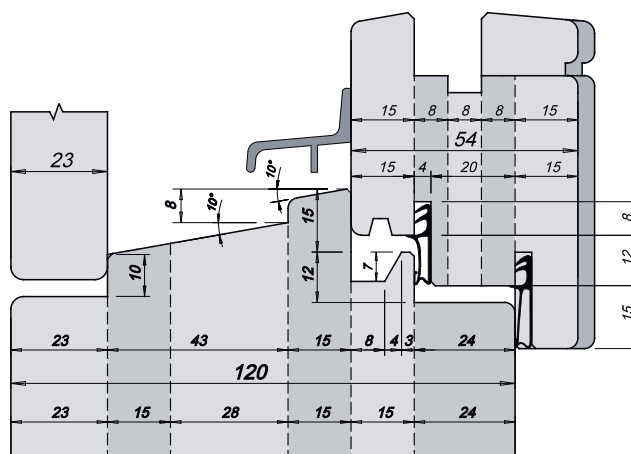
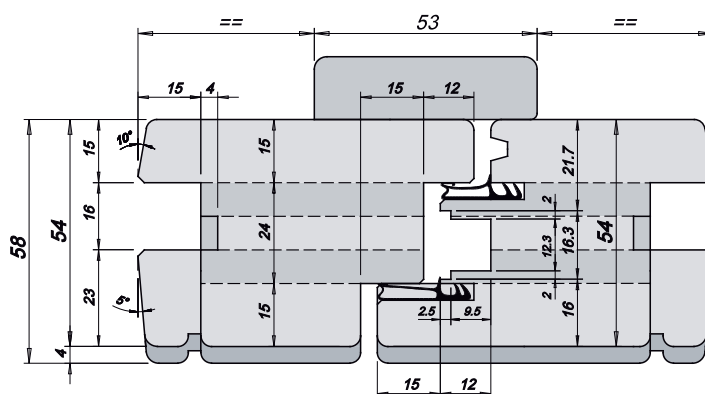
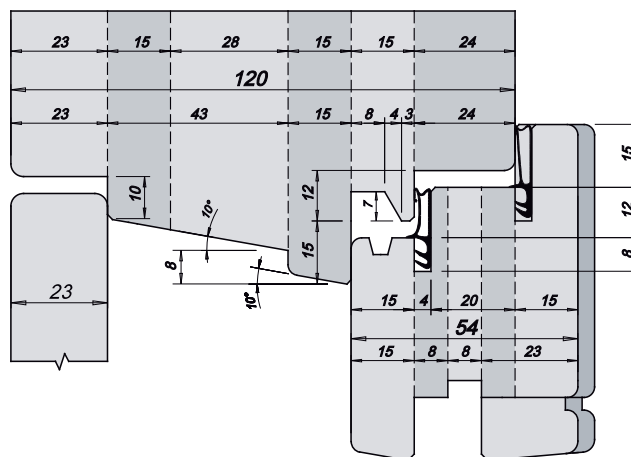


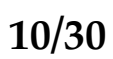


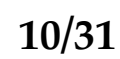


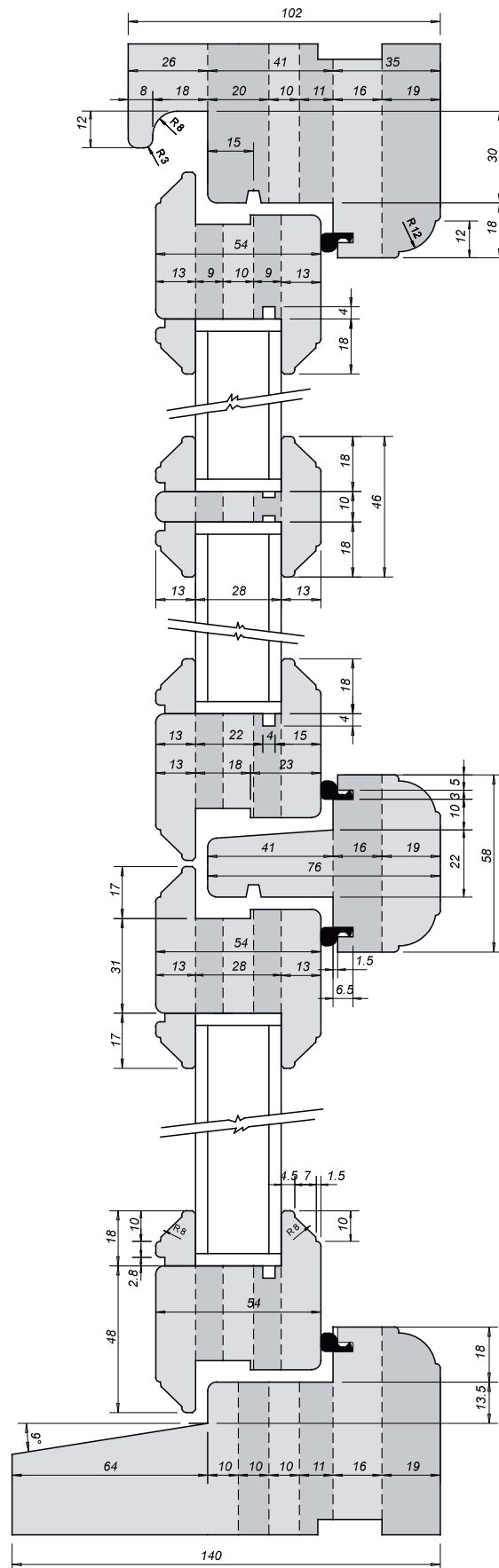


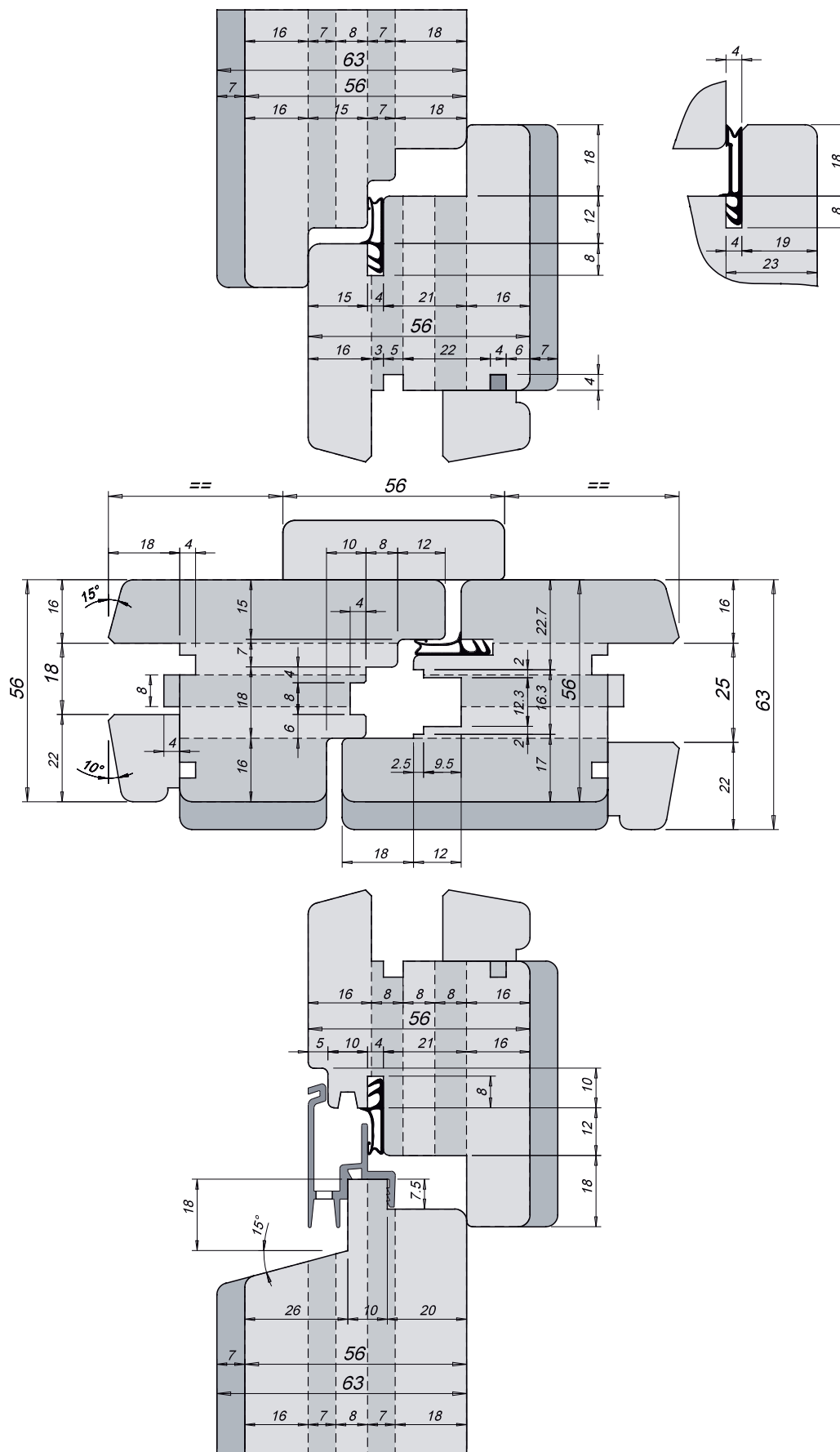


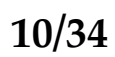


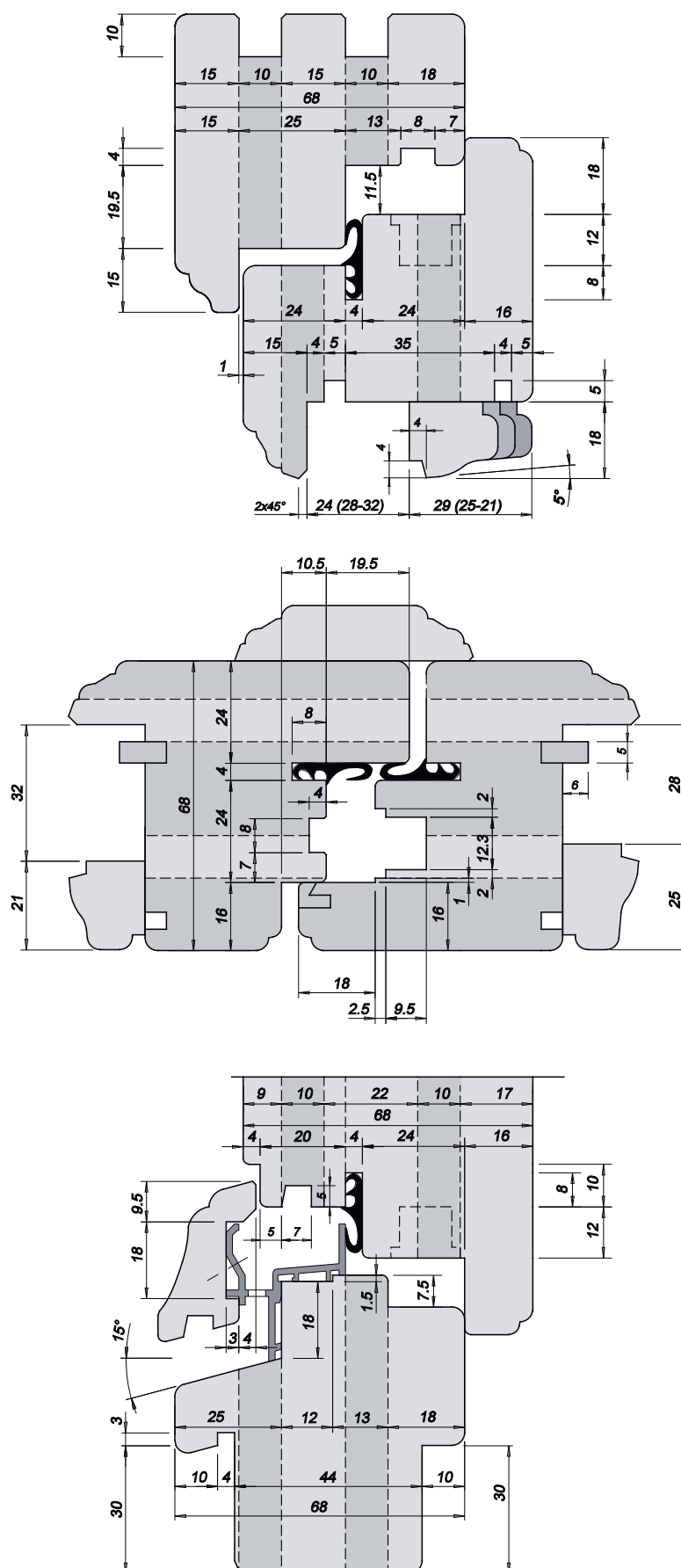


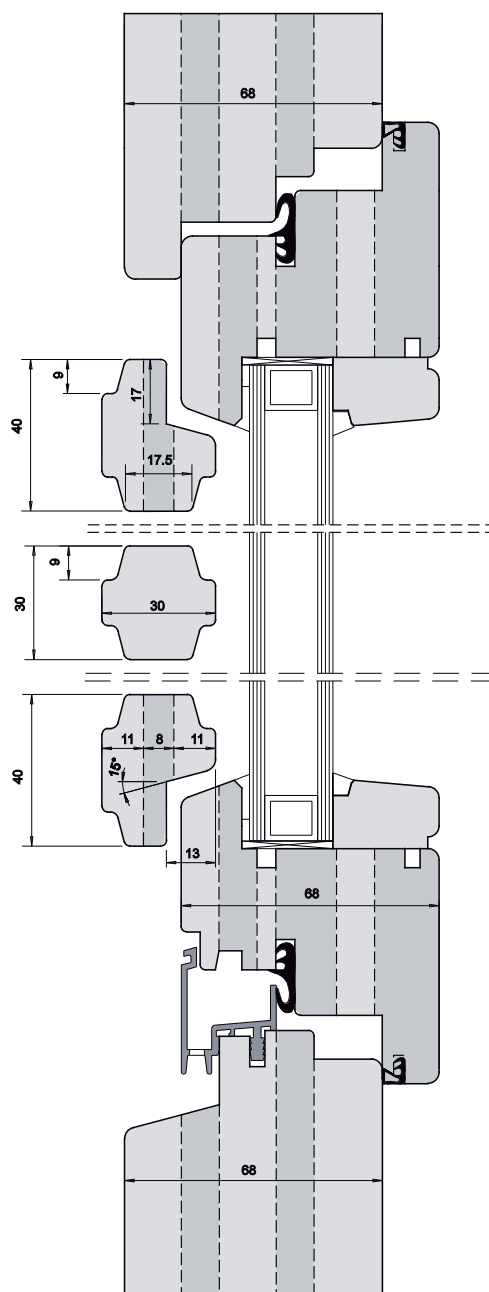
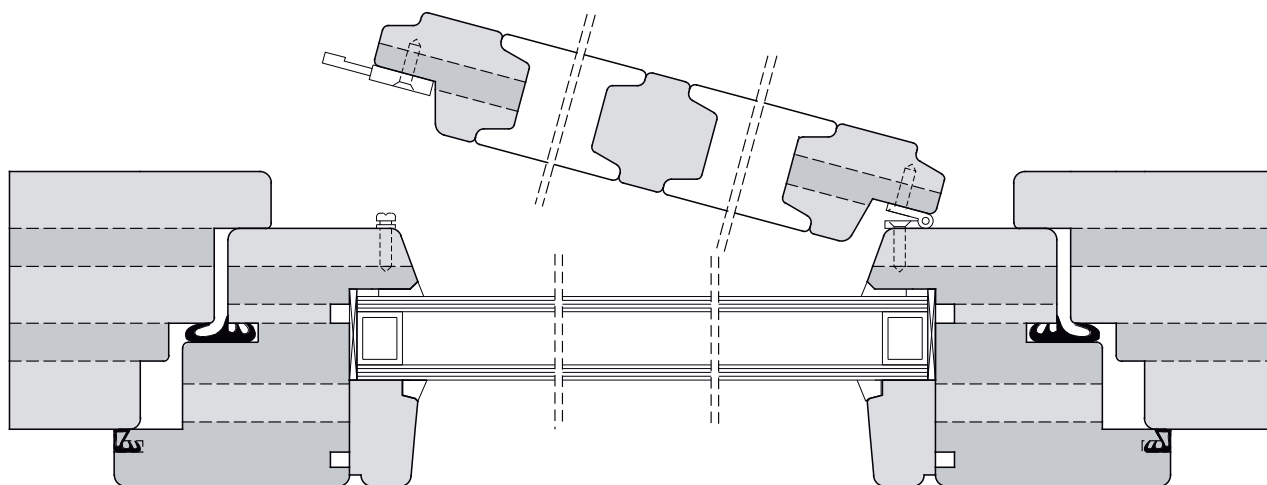












Telaio riportato in stile inglese
Dormant à l'anglaise
Marco de stilo inglés
English frame
Rahmen-sprossen

B 6020



I Cassetta composta da sei elementi componibili, foro diretto, per eseguire la profilatura interna, squadratura esterna, contro profilo, tenonatura montanti e traversi. Frese Ø130 Z=2 Tenoni Ø320 Z=3.

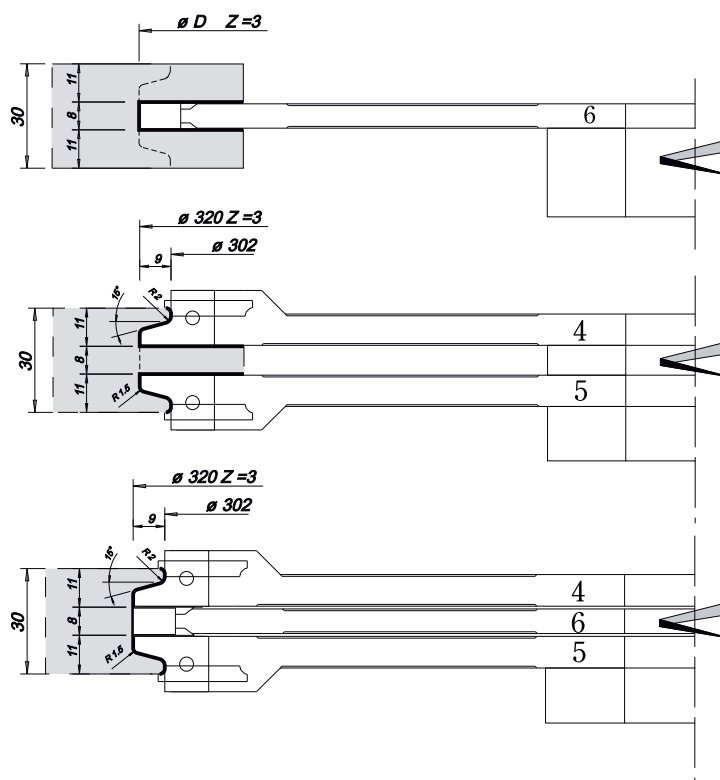
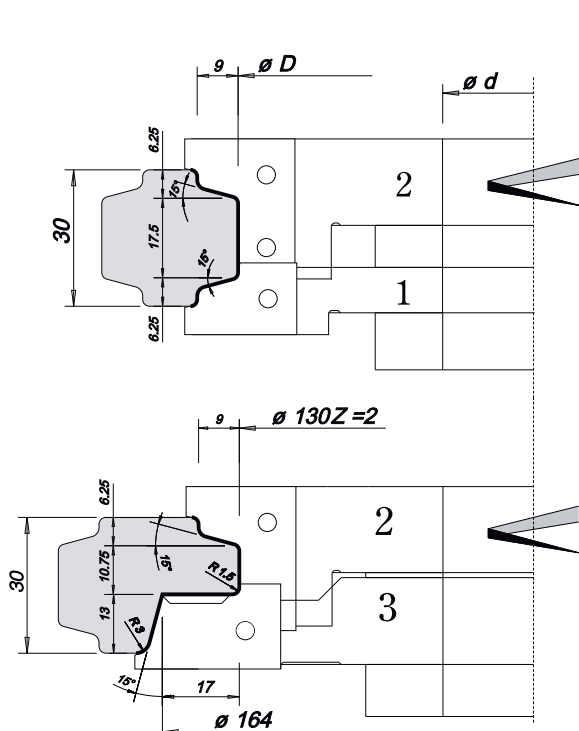
F Coffrêt composé par six éléments, alésage direct, pour exécuter le profilage intérieur, le calibrage extérieur, le contre-profilage, le tenonnage des montants et des travers. Fraises en Ø130 Z=2 Tenons Ø320 Z=3.

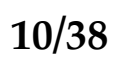
E La caja se compone de seis elementos, eje directo, para hacer el perfilado interior, el escuadrado exterior, la contramoldura, el espigado de los montantes y de los travesaños. Fresas en Ø130 Z=2 Discos a espigar Ø320 Z=3.

UK The box is made up of six tools without sleeve in order to execute the internal profile, the outer profile, the counterprofile and the tenoning of jambs and cills. Moulding tools Ø130, Z=2, Tenoning tools Ø320, Z=3.

D Das Kästchen besteht aus sechs Scheiben ohne Büchse, um sowohl das Innen-Außen- und Konterprofil als auch das Zapfen und Schlitz zu bearbeiten. Längsbearbeitung: Ø130, Z=2, Querbearbeitung: Ø320, Z=3.

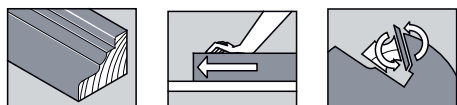
D	d max	Z	Cod.	COD. P.
130 / 320	50	2 / 3	B6020	A 5428





Alzante scorrevole
Fenetre coulissante
Ventana oscilobatiente
Sliding raiser
Schiebe- fensteraufheber

B 3161



I Gruppi frese canottati per eseguire la sede per la ferramenta alzante scorrevole. Consentono di eseguire la sede dei carrelli sui traversi ed anche la sede dell'anta basculante.

F Jeux d'outils sur manchon pour emplacements de crémones sur des fenêtres coulissantes. Ces jeux permettent de faire les emplacements des guides sur les travers et celui pour l'ouverture à renversement.

E Grupos de fresas sobre manguito para hacer el alojamiento de la herramienta en ventanas oscilobatientes. Estos grupos permiten practicar los alojamientos de las guías en los travesaños y aquél para la hoja oscilobatiente.

UK Tool-sets on sleeve executing the hardware groove for sliding raiser. They execute the seat for the trolleys on the stiles and the seat for the basculant sash.

D Fräsergarnitur auf Büchse zur Bearbeitung der Getriebenut für den Schiebefenster-Aufheber. Zur Bearbeitung sowohl des Sitzes für die Wagen auf dem Setzholz als auch desjenigen für den Baskulantflügel.

B3161 Squadratura alzante scorrevole

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3161.130C2	B3161.130E2	A 2718
130	4	B3161.130C4	B3161.130E4	A 3942
160	4	B3161.160C4	B3161.160E4	A 4106

B3611 Ripasso per GU 936 e GU956

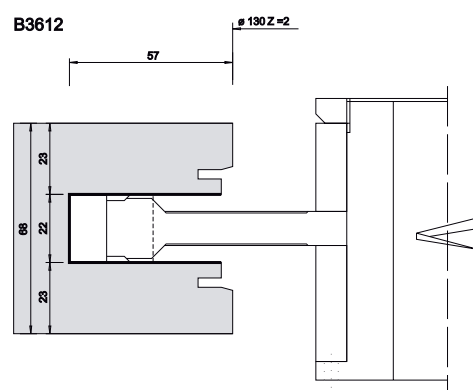
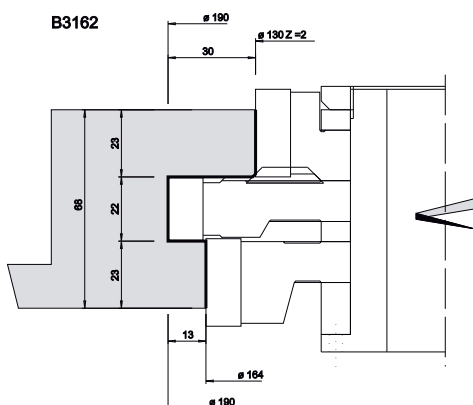
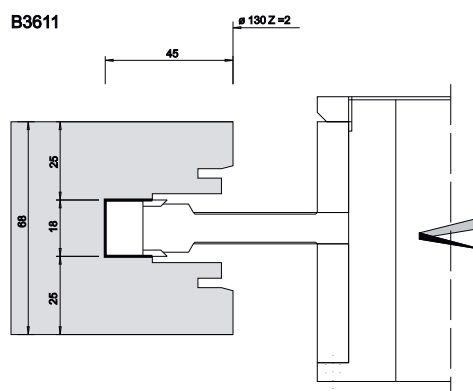
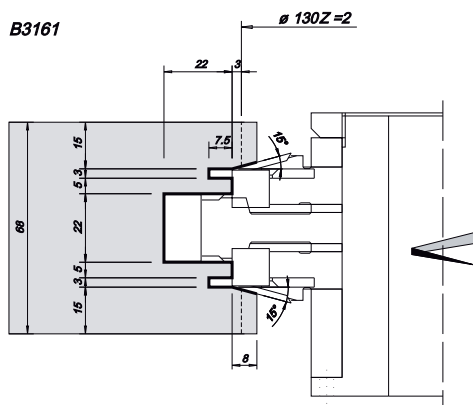
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3611.130C2	B3611.130E2	A 852
130	4	B3611.130C4	B3611.130E4	A 1122
160	4	B3611.160C4	B3611.160E4	A 1170

B3162 Squadratura superiore anta basculante

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3162.130C2	B3162.130E2	A 2542
130	4	B3162.130C4	B3162.130E4	A 3042
160	4	B3162.160C4	B3162.160E4	A 3188

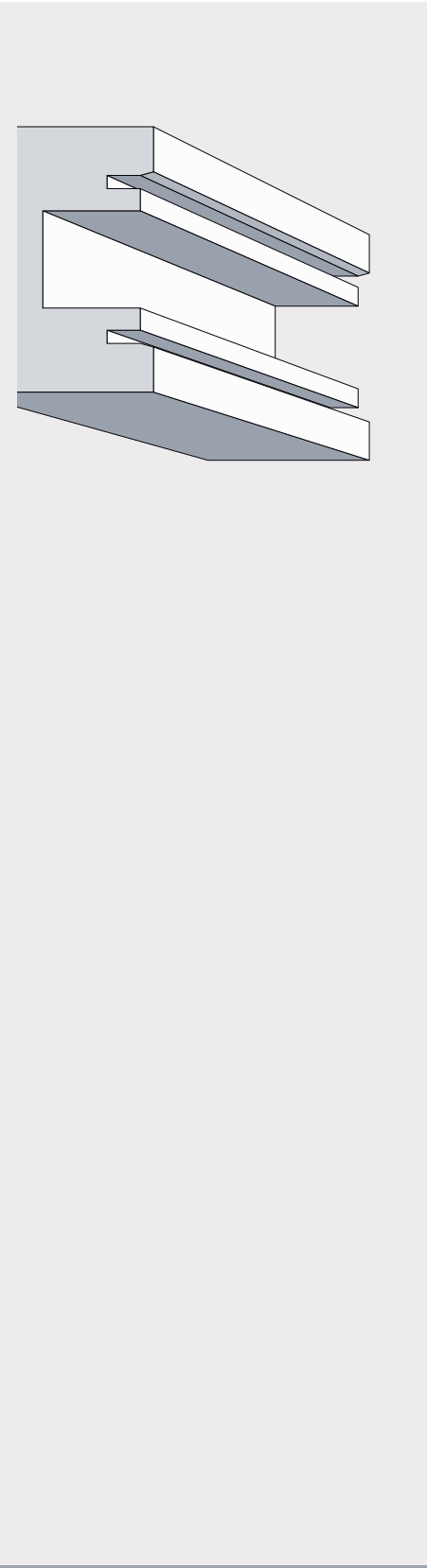
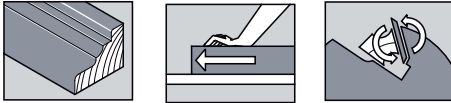
B3612 Ripasso per GU 933 e GU953

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3612.130C2	B3612.130E2	A 924
130	4	B3612.130C4	B3612.130E4	A 1224
160	4	B3612.160C4	B3612.160E4	A 1282



Fresa per finestra scorrevole
Fraise pour fenêtre coulissante
Fresa para ventana corredera
Tool-set for sliding window
Garnitur für Schiebefenster

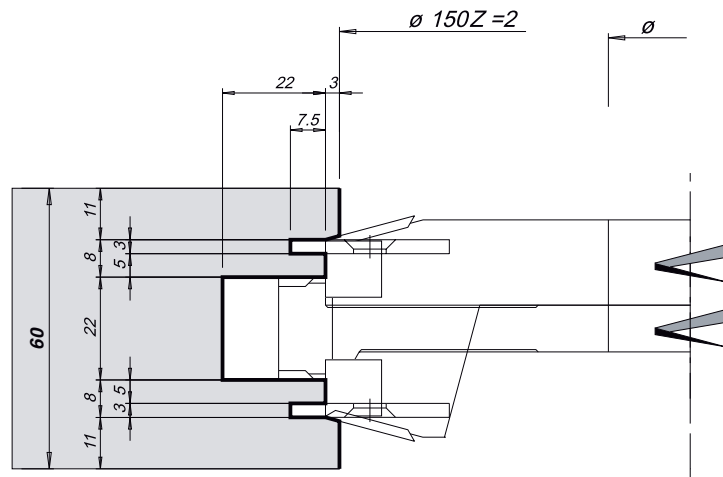
B 6301



- I Set di frese per eseguire la sede della ferramenta alzante scorrevole.
- F Jeu de fraises pour exécuter les rainurages des crémones des fenêtres coulissantes.
- E Juego de fresas para practicar el alojamiento de la herramienta en ventanas correderas.
- UK Tool-set executing the hardware groove of the sliding window.
- D Garnitur zur Bearbeitung der Getriebe für Schiebefenster.

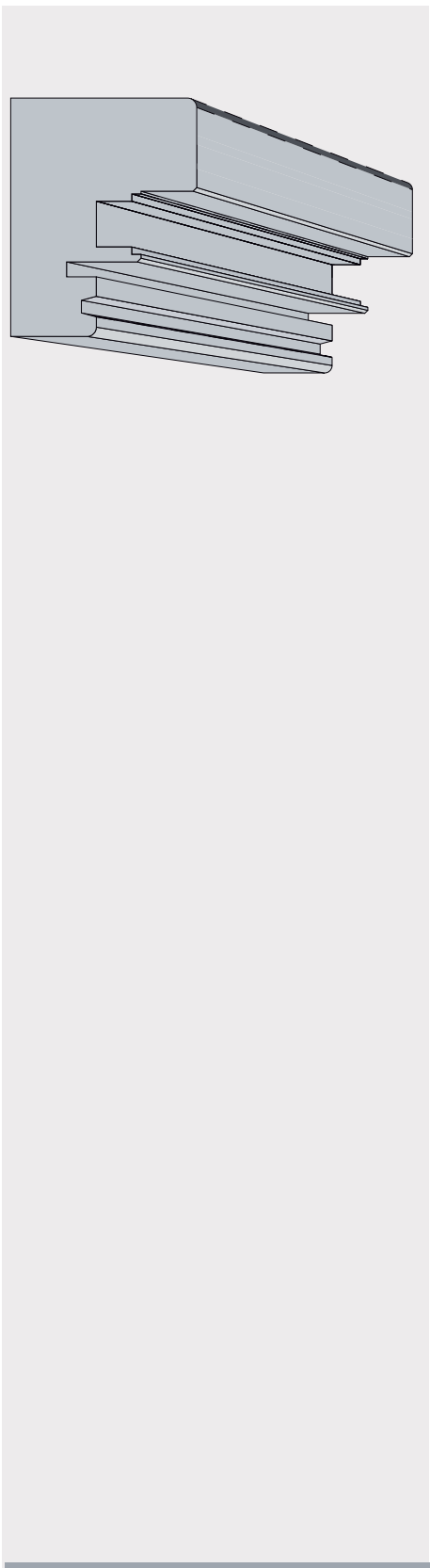
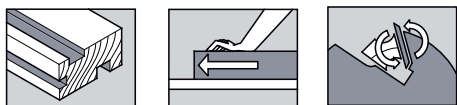
D	d	Z	Cod.	COD. P.
150	35 - 40	2	B6301.150C2 ▲	A 2142

▲ disponibilità immediata con sconto maggiorato



Fresa per sede ferramenta
Fraise pour emplacement de crémones
Fresa para falleba
Hardware grooving cutter
Getriebeutfräser

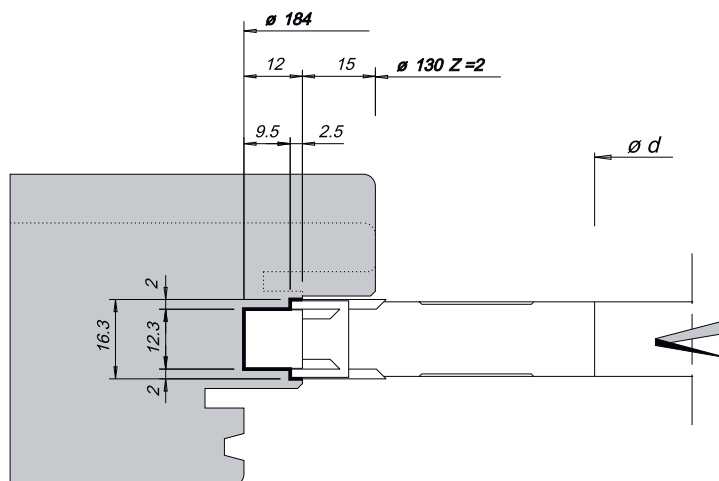
CI 647



- I Fresa per eseguire la sede della ferramenta anta-ribalta.
- F Fraise pour emplacements des crémones dans l'ouverture à renversement.
- E Fresa para poner la herramienta en ventanas oscilobatientes.
- UK Cutter executing the hardware groove for tilt and turn-window / door
- D Fräser zur Bearbeitung der Getriebeut für Dreh-Kipp Fenster

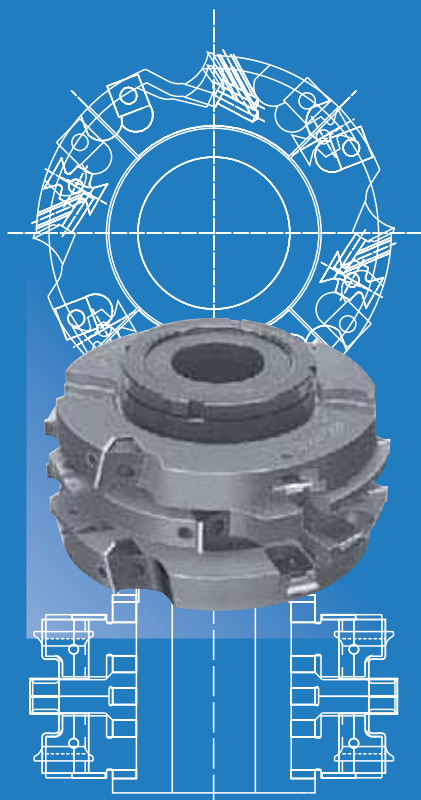
D	d	Z	V	Cod.	COD. P.
184	35 - 40 -50	2	2+2+2+2	CI647.184.2001 ▲	A 806
184	35 - 40 -50	2	0	CI947.184.2001 ▲	A 624

▲ disponibilità immediata con sconto maggiorato





**Persiane
Persiennes
Persianas
Tools for shutters
Werkzeuge für Rollos**

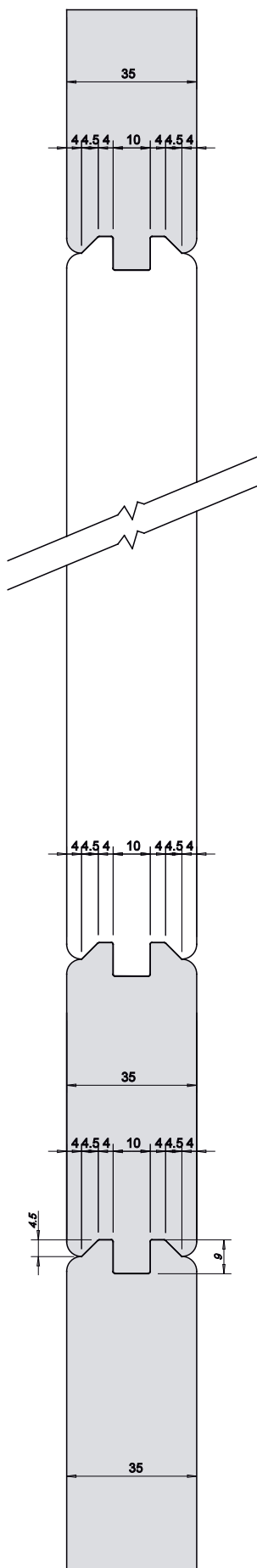


Antoni perlinati	B 2482
Battants avec revêtement en panneaux de bois	11-2
Porticones con listeles de madera	
Tongue and groove window-shutter	
Fensterblende "Nut und Feder System"	
Gruppi balconi trevigiani	B 2482
Fraises pour portes - balcon "de Trévisé"	11-3
Fresas para puertas-balconeras "de Treviso"	
Tool set for "Treviso doors"	
Fräser für "Trevisaner Balkontüren"	
Antone con telaio	B 2507
Battant avec chassis	11-4
Porticon con marco	
Window-shutter with frame	
Fensterblende mit Rahmen	
Persiana con liste a doppia vista / Persiana con liste fisse	B 2555
Persienne a lamelles double-face / Persienne avec lames fixes	11-6
Persiana con listeles dobles / Persiana con listeles fijos	
Window-shutter with double strips / Window shutter with fixed wooden strips	
Fensterblende mit beweglichen Leisten / Fensterblende mit unbeweglichen Leisten	
Persiana con liste fisse	B 2508
Persienne avec lames fixes	11-8
Persiana con listeles fijos	
Window shutter with fixed wooden strips	
Fensterblende mit unbeweglichen Leisten	
Squadratura persiana	B 3114 / B 2951
Calibrage persienne	11-10
Escuadrado persiana	
Window-shutter squaring	
Fensterblende Aussenprofil	
Sbattentatura scuretti a libro	B 3478
Calibrage des petits volets	11-13
Escuadrado postigos	
Squaring of "accordion" little shutters	
Aussenprofilierung der kleinen "Akkordeon-Fensterblenden"	
Accessori per persiane	B 2951
Accessoires pour persiennes	11-14
Accesorios para persianas	
Accessories for shutters	
Rollo-Zubehör	
Gruppi balconi a doghe	B 2480
Fraises pour porte-balcon à la vénitienne	11-15
Fresas para puertas-balconeras a la veneciana	
Tool set for "Venetian doors"	
Fräser für "venezianische Balkontüren"	
Balconi alla veneta	B 2494
Balcons "alla veneta"	11-16
balcones "alla veneta"	
Venetian window-shutters	
Venezianische Fensterblenden	

Antoni perlinati
Battants avec revêtement en panneaux de bois

Porticones con listeles de madera
Tongue and groove window-shutter
Fensterblende "Nut und Feder System"

B 2482



I Soluzione per chiusure esterne di protezione e sicurezza. La geometria dei profili si presta a molteplici soluzioni estetiche. I gruppi sono regolabili per eseguire lo spessore da 35 mm a 44.

F Solution adaptée aux fermetures extérieures de protection et de sécurité. La géométrie des profils permet de choisir plusieurs versions esthétiques. Les groupes sont réglables pour l'exécution d'épaisseurs de 34 à 45 mm.

E Solución ideal para cierres exteriores de protección y seguridad. La geometría de los perfiles permite elegir dentro de una amplia gama de modelos. Los juegos son regulables para hacer el espesor de 35 a 45 mm.

UK Solution for security and protective external shutting. The geometry of the profiles permits to choose many versions. The tool-sets are adjustable, in order to execute thicknesses from 34 to 45mm.

D Lösung für die Herstellung von Sicherheits- und Schutzblenden. Die Geometrie der Profile gestattet die Bearbeitung von mehreren Versionen. Die Garnituren sind verstellbar, um Stärken von 34 bis 45mm bearbeiten zu können.

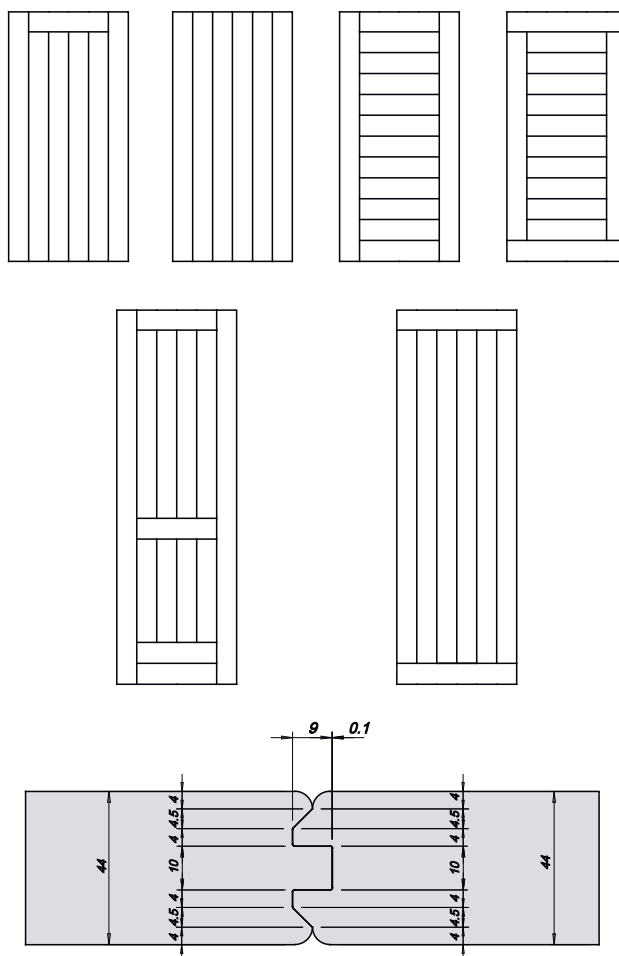
Esempi di assemblaggio:

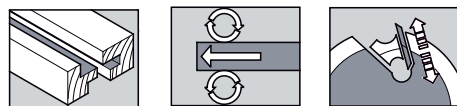
Exemples d'assemblage:

Ejemplos de ensamblaje:

Exemples of assembly:

Beispiele für die Zusammensetzung:





Gruppi balconi trevigiani
Fraises pour portes - balcon "de Trévisé"
Fresas para puertas-balconeras "de Treviso"
Tool set for "Treviso doors"
Fräser für "Trevisaner Balkontüren"

B 2482



I Gruppi formati da due frese sagomate registrabili fra loro. La registrazione si ottiene allargando l'incastro centrale da 10 a 19 mm. Diametro di programmazione Ø 130 mm uguale per maschio e femmina. Diametro Ø 295 mm Z=2 per il tenone della controsagoma.

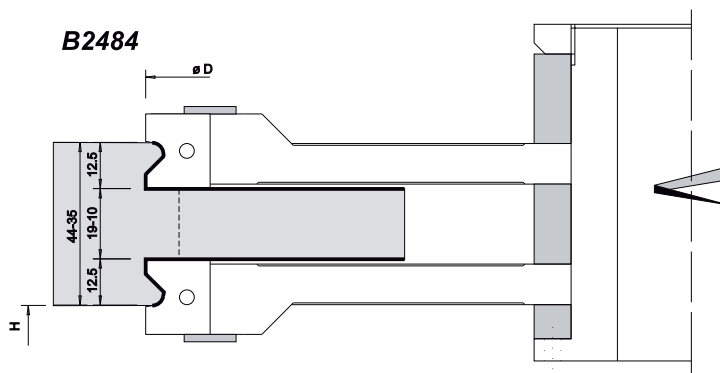
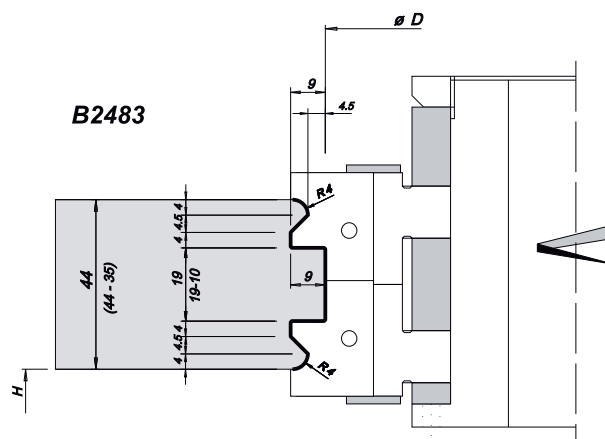
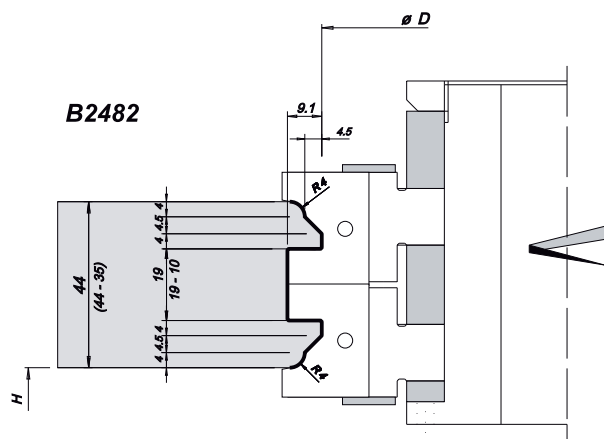
F Jeu composé par deux fraises profilées extensibles entre eux. L'extension est obtenue en élargissant la partie centrale de 10 à 19 mm. Diamètre de base Ø 130 mm pour le profilage et le contreprofilage. Diamètre Ø 295 mm Z=2 pour le tenonage.

E Cada juego se compone de dos fresas perfiladas extensibles. L'extensión se obtiene ampliando la parte central de 10 a 19 mm. Diámetro de base Ø 130 mm para el perfilado. Diámetro Ø 295 mm Z=2 para el espigado.

UK Every tool set is composed of two profiled tools. The adjustability is obtained by extending the central part from 10 to 19. Basis diameter Ø125 for the profile, Z=2. Ø 295 mm Z=2 for tenoning.

D Jede Garnitur besteht aus zwei profilierten Fräsern. Die Verstellbarkeit schafft man, indem man den Zentralteil von 10 bis 19 rückt. Ø130 Basisdurchmesser für die Längsbearbeitung. Ø295 Durchmesser, Z=2 für die Querbearbeitung.

Ø D	Z	H	Cod.	COD. P.
130	2	15	B2482.130C2	A 1870
130	2	15	B2483.130C2	A 1870
295	2	15	B2484.300C2	A 2204





I Antone di particolare pregio A5656P00.10.

Assemblato con perlinato, può essere costruito in varie composizioni pur mantenendo inalterate nel tempo le caratteristiche meccaniche di eccezionale robustezza.

F Battant de haute qualité A5656P00.10. Assemblé avec des panneaux en bois; il peut avoir des configurations différentes qui n'altèrent pas, au fil des années, sa solidité exceptionnelle.

E Persiana de calidad A5656P00.10. Ensamblada con paneles de madera; hay más modelos distintos que logran mantener inalterada la calidad y la robustez durante muchos años.

UK High quality window-shutter A5656P0010. It is made up of wooden panels. There are many different models, which do not change the quality and solidity through the years.

D Hochwertige Fensterblende A5656P0010. Sie besteht aus Holzpaneelen. Es gibt mehrere Variationen, die weder die Qualität noch die Stabilität auch im Laufe der Jahre ändern.

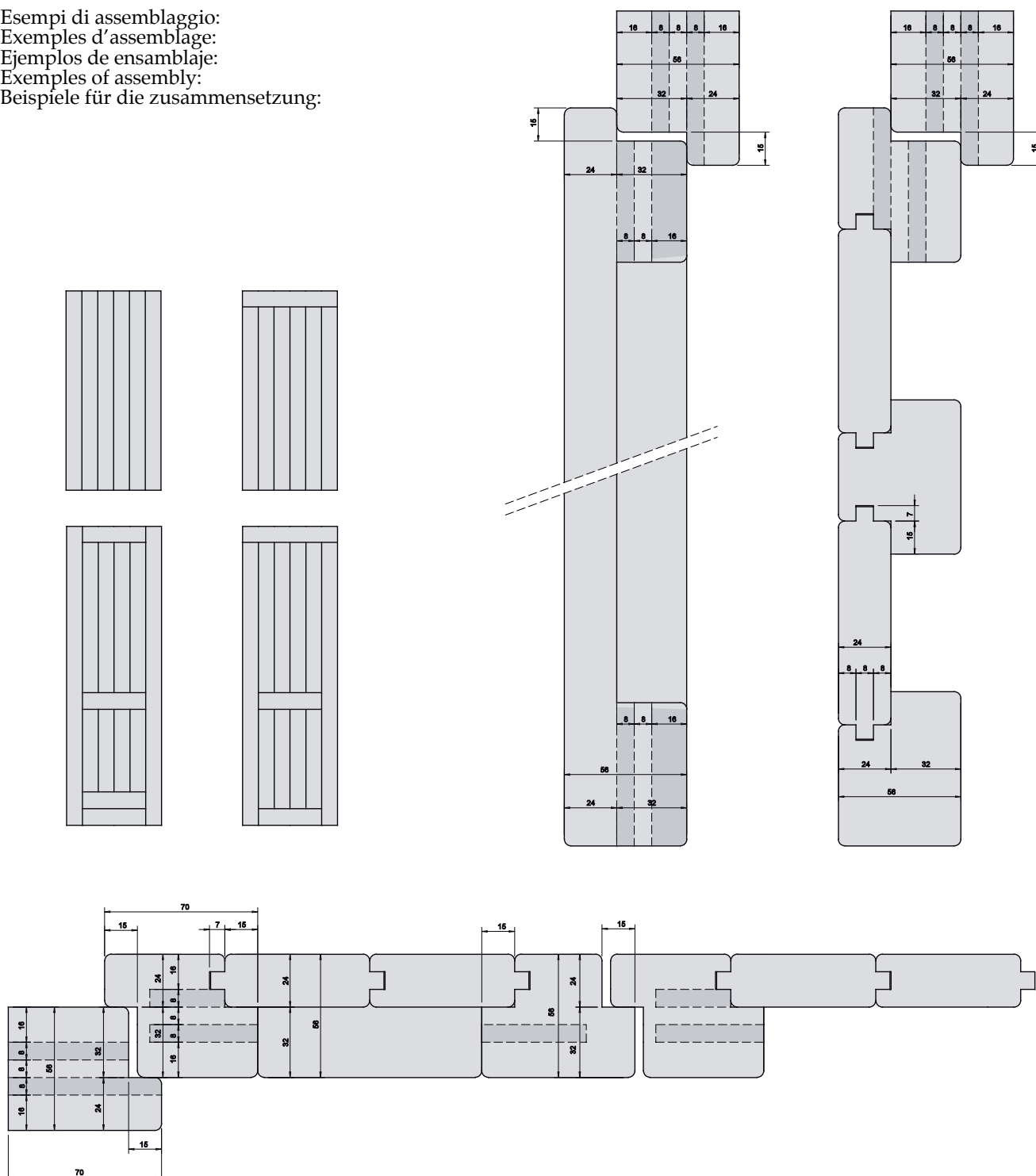
Esempi di assemblaggio:

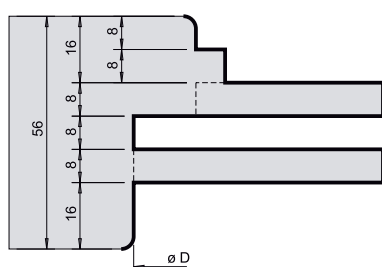
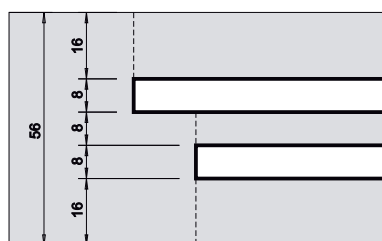
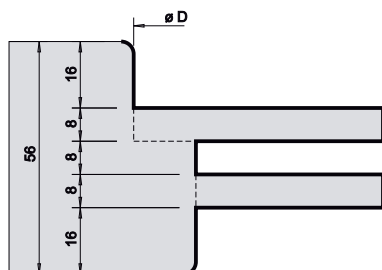
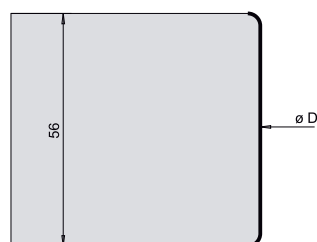
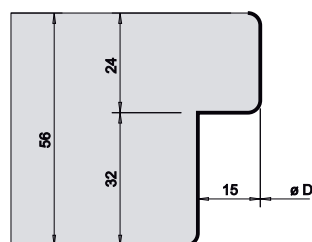
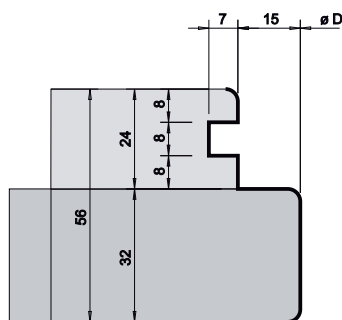
Exemples d'assemblage:

Ejemplos de ensamblaje:

Exemples of assembly:

Beispiele für die zusammensetzung:



**B 2507**

ⓘ Profilatura montanti, profilatura traversi, squadratura centrale sinistra. ⓘ Profil montants et travers, calibrage du montant central de l'ouvrant gauche. ⓘ Perfilado montantes y travesaños, escuadrado del montante central de la hoja izquierda. ⓘ Jamb and cills profiling, left middle stile squaring. ⓘ Profilierung der Kämpfer und Setzhölzer, Außenprofilierung des linken Mittelfalzes.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2507.130C2	B2507.130E2	A 2408
130	4	B2507.130C4	B2507.130E4	A 2982
160	4	B2507.160C4	B2507.160E4	A 3114

B 2209

ⓘ Profilatura telaio e squadratura anta. ⓘ Profil du dormant et calibrage de l'ouvrant. ⓘ Perfilado del marco y escuadrado de la hoja. ⓘ Frame profiling and sash squaring. ⓘ Rahmen Innenprofil und Flügel Außenprofil.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2209.130C2	B2209.130E2	A 2148
130	4	B2209.130C4	B2209.130E4	A 2718
160	4	B2209.160C4	B2209.160E4	A 2856

B 3308

ⓘ Squadratura inferiore anta. ⓘ Calibrage inférieur de l'ouvrant. ⓘ Escuadrado inferior de la hoja. ⓘ Sash bottom squaring. ⓘ Flügel Außenprofil unten.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3308.130C2	B3308.130E2	A 1018
130	4	B3308.130C4	B3308.130E4	A 1384
160	4	B3308.160C4	B3308.160E4	A 1492

B 1414

ⓘ Tenonatura traversi telaio. ⓘ Contre-profilage des travers du dormant. ⓘ Espigado travesaños marco. ⓘ Frame cill tenoning. ⓘ Rahmen Zapfen.

D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1414.300C2	B1414.300E2	A 2756
300	3	B1414.300C3	B1414.300E3	A 3644

B 1109

ⓘ Tenonatura superiore montanti telaio. ⓘ Enfournement supérieur des montants du dormant. ⓘ Espigado parte superior montantes del marco. ⓘ Frame jambs slots. ⓘ Rahmen Schlitz.

D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1109.300C2	B1109.300E2	A 1218
300	3	B1109.300C3	B1109.300E3	A 1588

B 1413

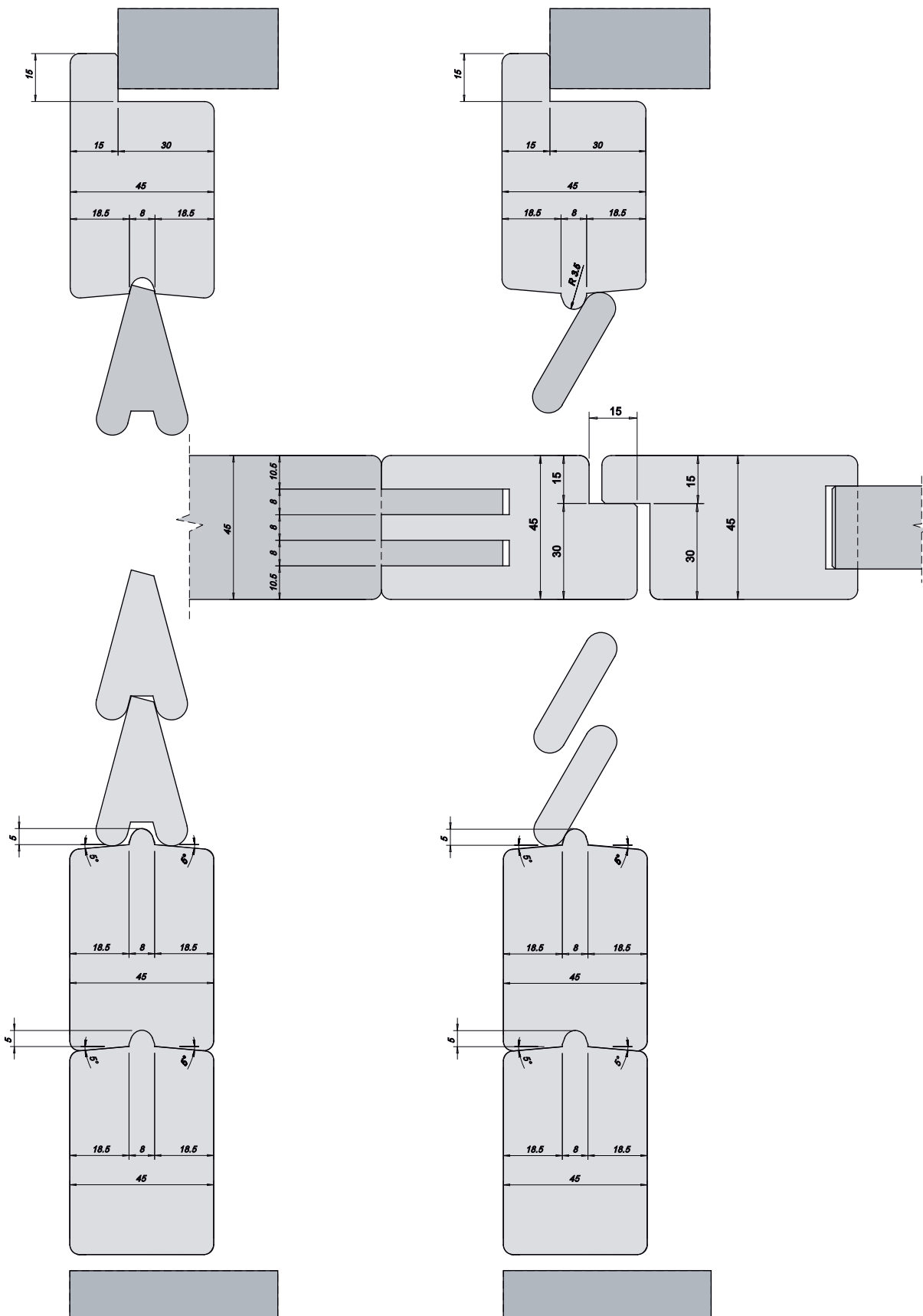
ⓘ Tenonatura traversi anta. ⓘ Contre-profilage des travers de l'ouvrant. ⓘ Espigado travesaños hoja. ⓘ Sash rail tenoning. ⓘ Flügel Zapfen.

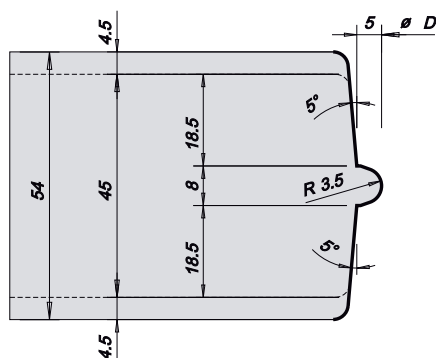
D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1413.300C2	B1413.300E2	A 3192
300	3	B1413.300C3	B1413.300E3	A 4268

Persiana con liste a doppia vista
Persienne a lamelles double-face
Persiana con listeles dobles
Window-shutter with double strips
Fensterblende mit beweglichen
Leisten

Persiana con liste fisse
Persienne avec lames fixes
Persiana con listeles fijos
Window shutter with fixed wooden strips
Fensterblende mit unbeweglichen Leisten

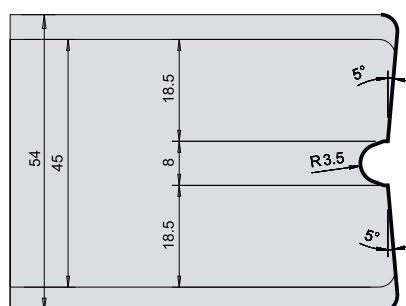
B 2555



**B 2555**

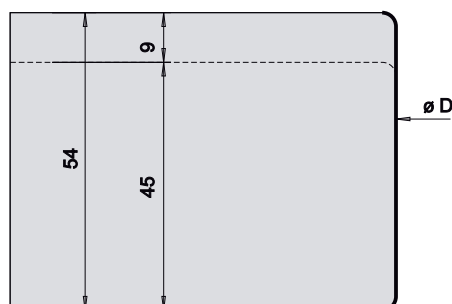
I Profilatura traversi. F Profilage des travers. E Perfilado travesaños. UK Jamb's profiling. D Profilierung der Setzhölzer.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2555.130C2	B2555.130E2	A 3098
130	4	B2555.130C4	B2555.130E4	A 3996
160	4	B2555.160C4	B2555.160E4	A 4274

**B 2960**

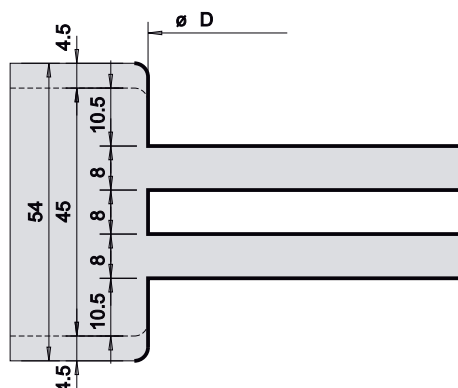
I Profilatura traversi aggiunti e traverso superiore. F Profilage des travers ajoutés et du travers supérieur. E Perfilado travesaños adjuntos y del travesaño superior. UK Profiling of added and top rail. D Profilierung des zusätzlichen und oberen Kämpfers.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2960.130C2	B2960.130E2	A 2952
130	4	B2960.130C4	B2960.130E4	A 3996
160	4	B2960.160C4	B2960.160E4	A 4274

**B 2508**

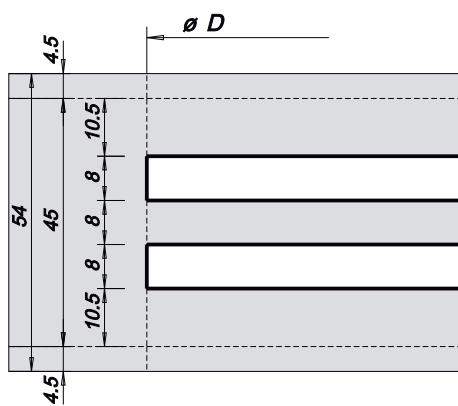
I Profilatura montanti e traversi. F Profilage montants et travers. E Perfilado montantes y travesaños. UK Rails and stiles profiling. D Profilierung der Kämpfer und Setzhölzer.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2508.130C2	B2508.130E2	A 1262
130	4	B2508.130C4	B2508.130E4	A 1628
160	4	B2508.160C4	B2508.160E4	A 1732

**B 1606**

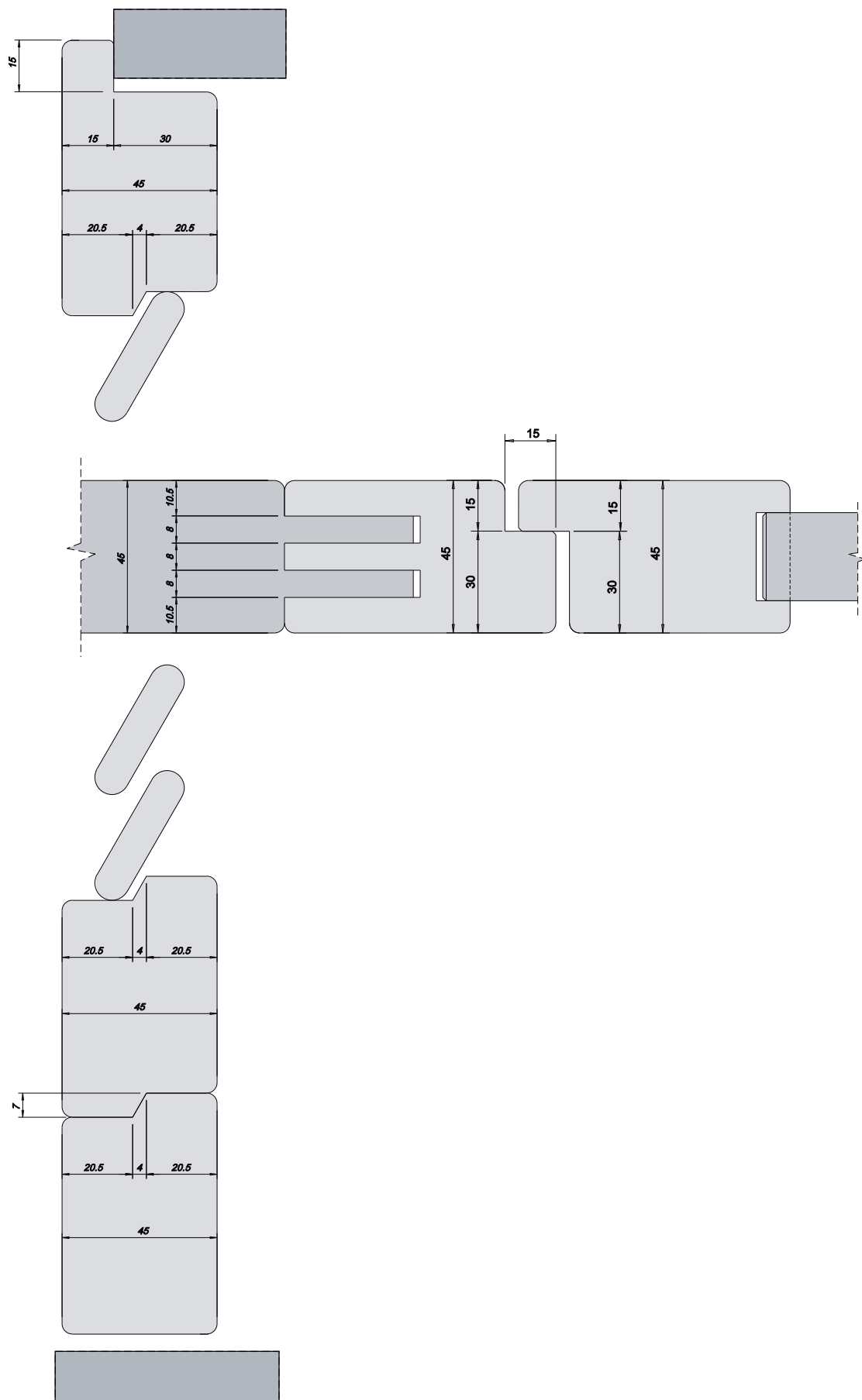
I Tenonatura traversi anta. F Contreprofilage des travers de l'ouvrant. E Espigado travesaños de la hoja. UK Sash rails tenoning. D Flügel Zapfen.

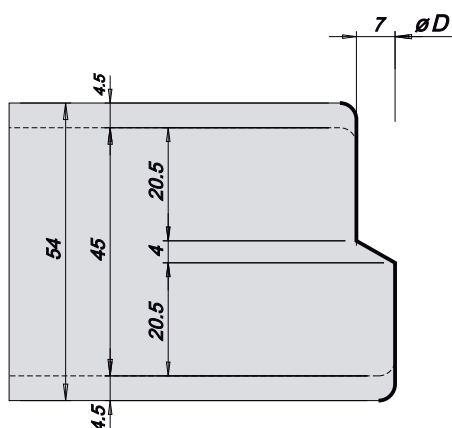
D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1606.300C2	B1606.300E2	A 3284
300	3	B1606.300C3	B1606.300E3	A 4242

**B 1504**

I Tenonatura montanti anta. F Enfourchement des montants de l'ouvrant. E Espigado montantes de la hoja. UK Sash stiles slots. D Flügel Schlitz.

D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1504.300C2	B1504.300E2	A 1282
300	3	B1504.300C3	B1504.300E3	A 1650

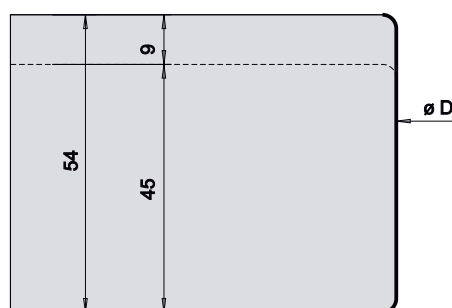




B8505

I Profilatura traversi. F Profilage des travers. E Perfilado travesaños. UK Cills profiling. D Profilierung der Kämpfer.

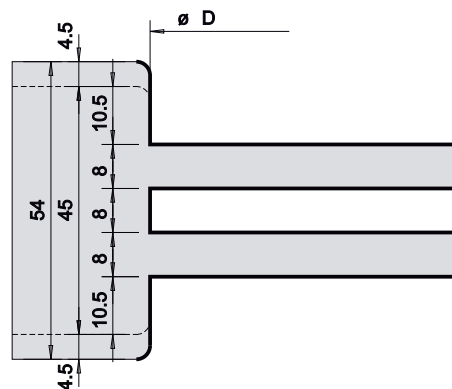
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B8505.130C2	B8505.130E2	A 2522
130	4	B8505.130C4	B8505.130E4	A 3088
160	4	B8505.160C4	B8505.160E4	A 3224



B 2508

I Profilatura montanti e traversi. F Profilage des montants et des travers. E Perfilado montantes y travesaños. UK Cills and jambs profiling. D Profilierung der Kämpfer und Setzhölzer.

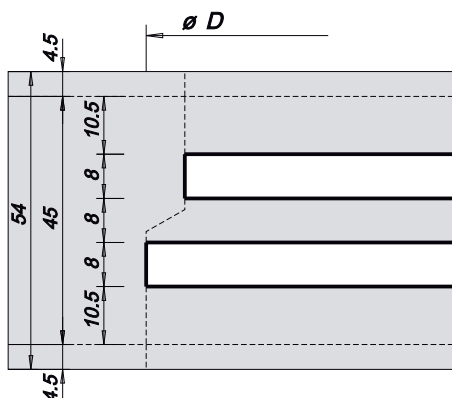
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2508.130C2	B2508.130E2	A 1262
130	4	B2508.130C4	B2508.130E4	A 1628
160	4	B2508.160C4	B2508.160E4	A 1732



B 1606

I Tenonatura traversi anta. F Contreprofilage des travers de l'ouvrant. E Espigado travesaños de la hoja. UK Sash rails tenoning. D Flügel Zapfen.

D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1606.300C2	B1606.300E2	A 3284
300	3	B1606.300C3	B1606.300E3	A 4242

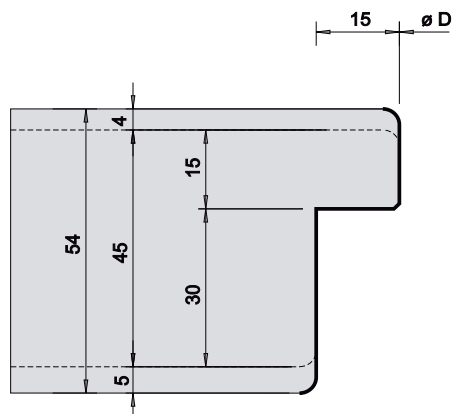


B 1505

I Tenonatura montanti anta. F Enfourchement des montants de l'ouvrant. E Espigado montantes de la hoja. UK Sash stiles slots. D Flügel Schlitz.

B 1505

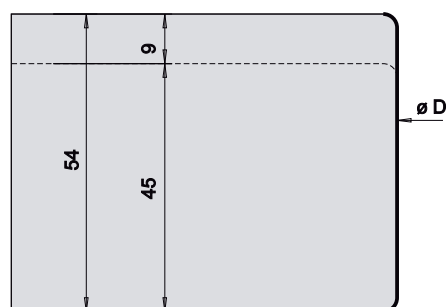
D	Z	Cod. Dx	Cod. Sx	COD. P.
300	2	B1505.300C2	B1505.300E2	A 1282
300	3	B1505.300C3	B1505.300E3	A 1650



B 3114

(I) Squadatura montanti e traverso superiore. (F) Calibrage des montants et du travers supérieur. (E) Escuadrado de los montantes y del travesaño superior. (UK) Top rail and stiles squaring. (D) Außenprofilierung des oberen Kämpfers und der Setzhölzer

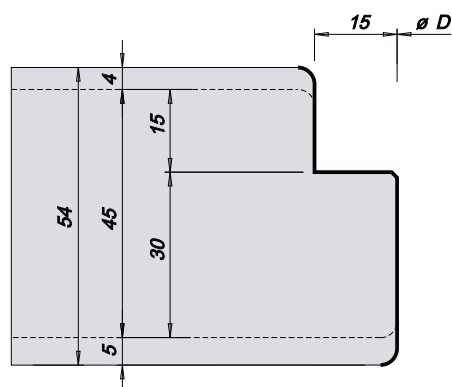
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3114.130C2	B3114.130E2	A 2972
130	4	B3114.130C4	B3114.130E4	A 3538
160	4	B3114.160C4	B3114.160E4	A 3682



B 2508

(I) Squadatura traverso inferiore. (F) Calibrage du travers inférieur. (E) Escuadrado del travesaño inferior. (UK) Bottom rail squaring. (F) Außenprofilierung des unteren Kämpfers.

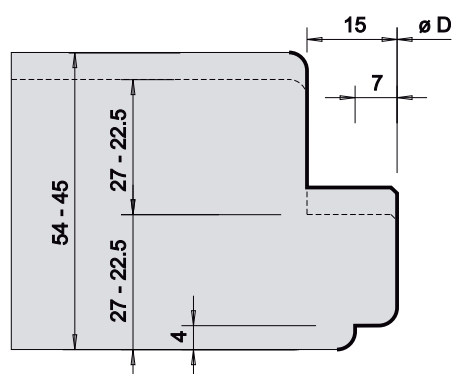
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2508.130C2	B2508.130E2	A 1262
130	4	B2508.130C4	B2508.130E4	A 1628
160	4	B2508.160C4	B2508.160E4	A 1732



B 3426

(I) Squadatura montante centrale sinistro. (F) Calibrage du montant central gauche. (E) Escuadrado del montante central izquierdo. (UK) Left middle stile outer profile. (D) Außenprofilierung des linken Mittelfalzes.

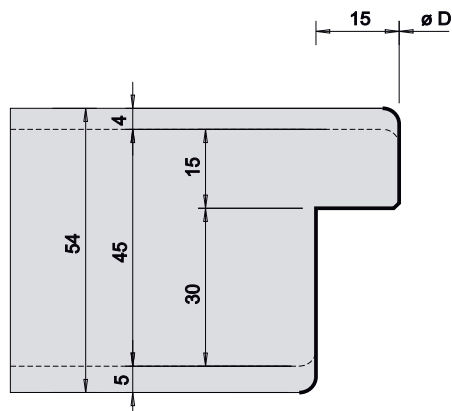
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3426.130C2	B3426.130E2	A 2930
130	4	B3426.130C4	B3426.130E4	A 3496
160	4	B3426.160C4	B3426.160E4	A 3630



B 3427

(I) Squadatura montanti centrali. (F) Calibrage des montants centraux. (E) Escuadrado de los montantes centrales. (UK) Middle stiles squaring. (D) Außenprofilierung der Mittelfälze.

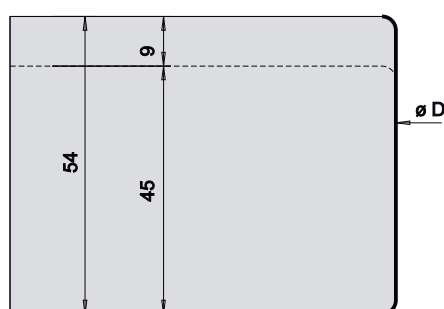
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3427.130C2	B3427.130E2	A 3492
130	4	B3427.130C4	B3427.130E4	A 4268
160	4	B3427.160C4	B3427.160E4	A 4436



B 3114

I Squadratura montanti e traverso superiore. F Calibrage des montants et du travers supérieur. E Escuadrado de los montantes y del travesaño superior. UK Top rail and stiles squaring. D Außenprofilierung des oberen Kämpfers und der Setzhölzer

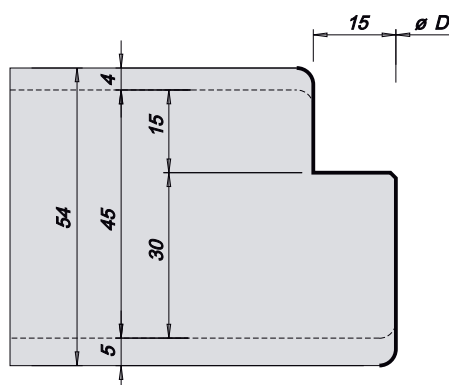
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3114.130C2	B3114.130E2	A 2972
130	4	B3114.130C4	B3114.130E4	A 3538
160	4	B3114.160C4	B3114.160E4	A 3682



B 2508

I Squadratura traverso inferiore. F Calibrage du travers inférieur. E Escuadrado del travesaño inferior. UK Bottom rail squaring. F Außenprofilierung des unteren Kämpfers.

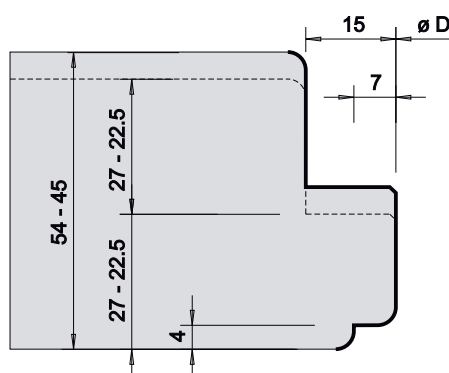
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2508.130C2	B2508.130E2	A 1262
130	4	B2508.130C4	B2508.130E4	A 1628
160	4	B2508.160C4	B2508.160E4	A 1732



B 3426

I Squadratura montante centrale sinistro. F Calibrage du montant central gauche. E Escuadrado del montante central izquierdo. UK Left middle stile outer profile. D Außenprofilierung des linken Mittelfalzes.

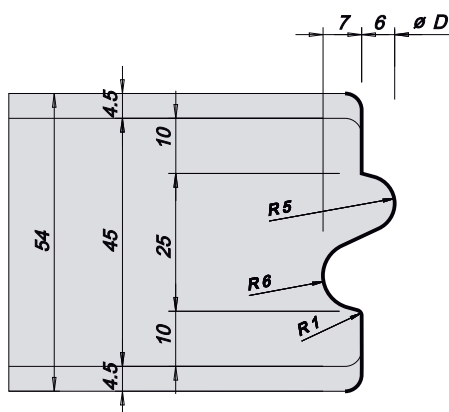
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3426.130C2	B3426.130E2	A 2930
130	4	B3426.130C4	B3426.130E4	A 3496
160	4	B3426.160C4	B3426.160E4	A 3630



B 3427

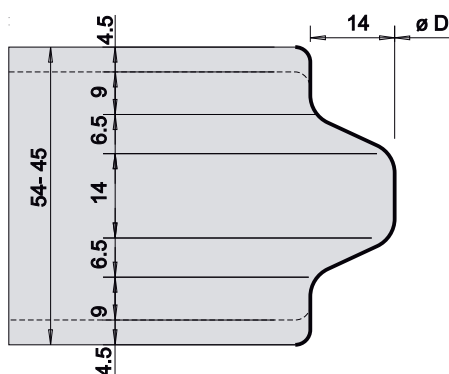
I Squadratura montanti centrali. F Calibrage des montants centraux. E Escuadrado de los montantes centrales. UK Middle stiles squaring. D Außenprofilierung der Mittelfälze.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3427.130C2	B3427.130E2	A 3492
130	4	B3427.130C4	B3427.130E4	A 4268
160	4	B3427.160C4	B3427.160E4	A 4436

**B 3476**

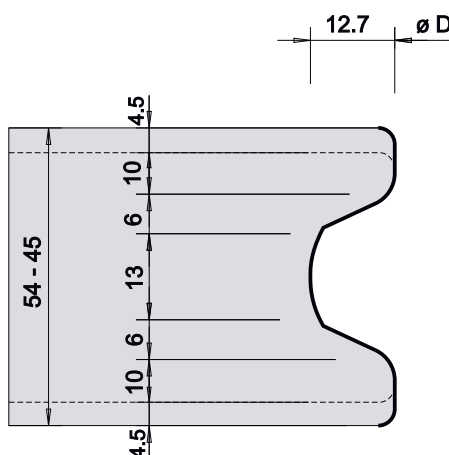
I Squadratura montanti centrali. F Calibrage des montants centraux. E Escuadrado de los montantes centrales. UK Middle stiles squaring. D Außenprofilierung der Mittelfälze

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3476.130C2	B3476.130E2	A 2276
130	4	B3476.130C4	B3476.130E4	A 2716
160	4	B3476.160C4	B3476.160E4	A 3636

**B 3429**

I Squadratura montante centrale destro. F Calibrage du montant central droite. E Escuadrado del montante central derecho. UK Right middle stile outer profile. D Außenprofilierung des rechten Mittelfalzes.

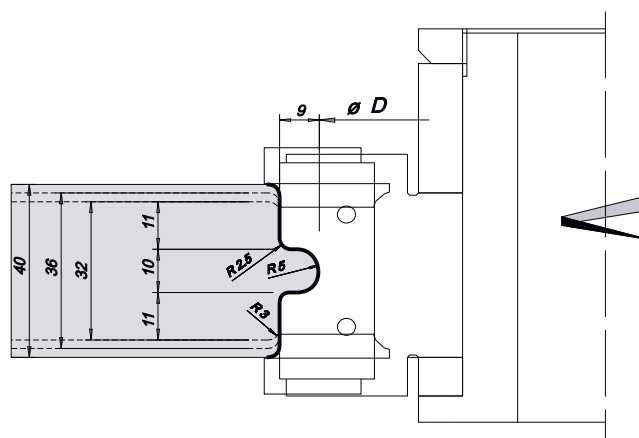
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3429.130C2	B3429.130E2	A 2084
130	4	B3429.130C4	B3429.130E4	A 2816
160	4	B3429.160C4	B3429.160E4	A 2932

**B 3428**

I Squadratura montante centrale sinistro. F Calibrage du montant central gauche. E Escuadrado del montante central izquierdo. UK Left middle stile outer profile. D Außenprofilierung des linken Mittelfalzes.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3428.130C2	B3428.130E2	A 2084
130	4	B3428.130C4	B3428.130E4	A 2816
160	4	B3428.160C4	B3428.160E4	A 2932

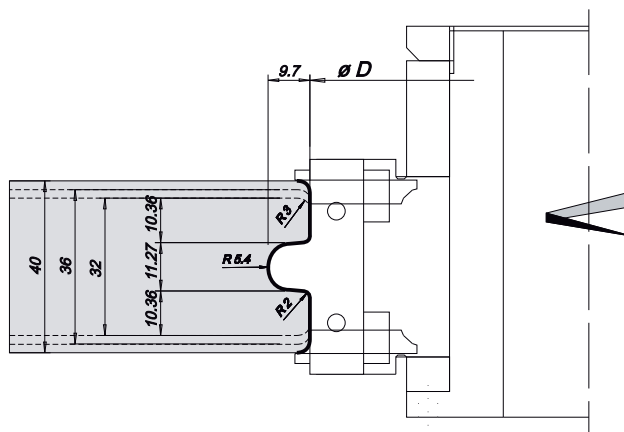
Aussenprofilierung der kleinen "Akkordeon-Fensterblenden"

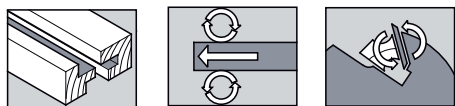


D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3478.130D2	B3478.130S2	A 2160
130	4	B3478.130D4	B3478.130S4	A 2870
160	4	B3478.160D4	B3478.160S4	A 3050

I Squadratura montante centrale sinistro. **F** Calibrage du montant central gauche. **E** Escuadrado del montante central izquierdo. **UK** Left middle stile outer profile. **D** Außenprofilierung des linken Mittelfalzes.

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B3477.130D2	B3477.130S2	A 2240
130	4	B3477.130D4	B3477.130S4	A 3020
160	4	B3477.160D4	B3477.160S4	A 3240



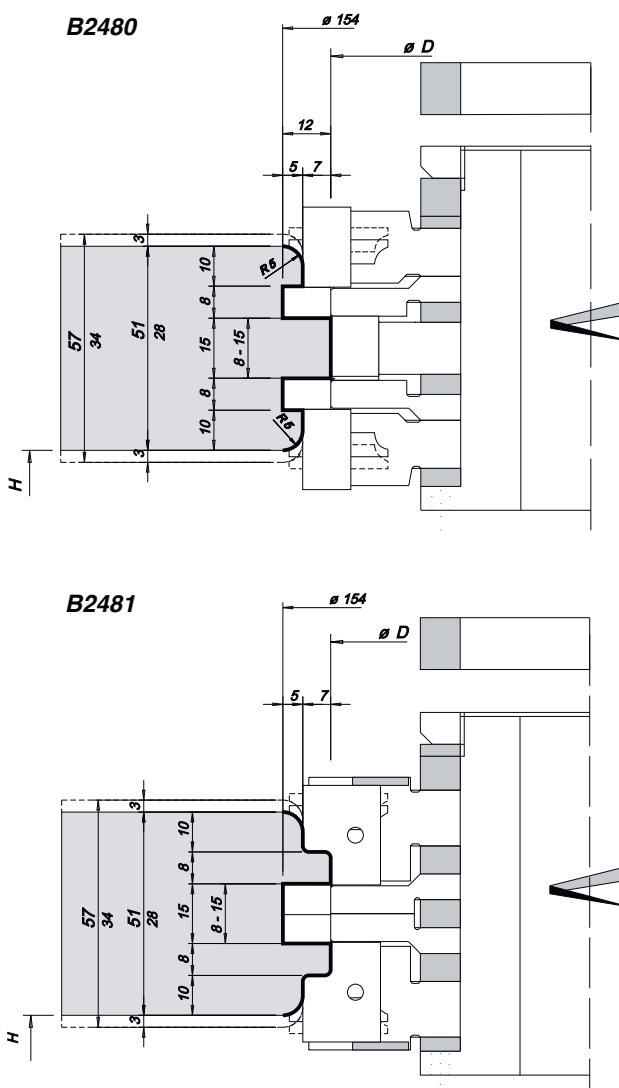
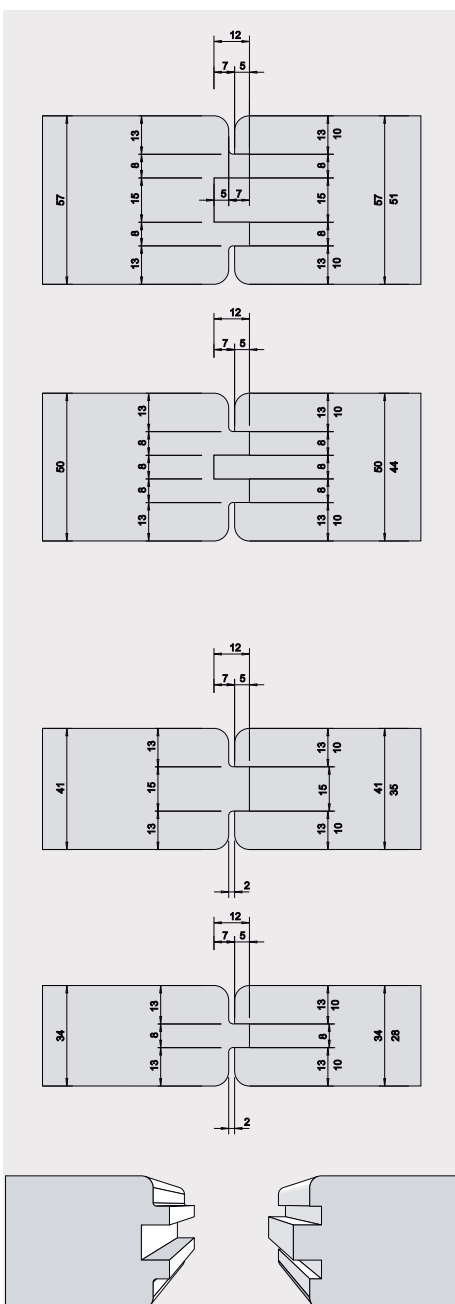


B 2480



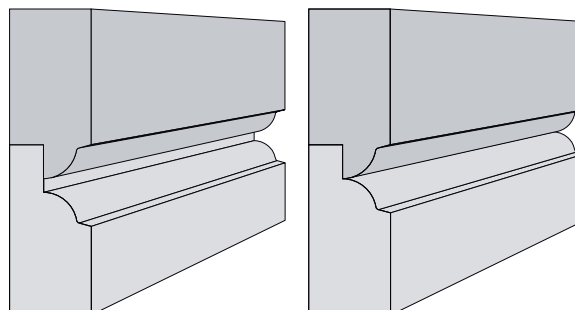
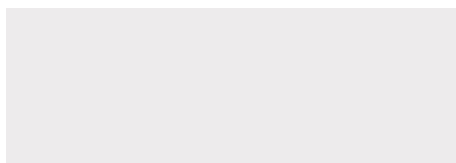
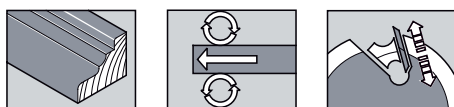
- I** Gruppo maschio e gruppo femmina registrabili da 28 a 57 mm togliendo gli elementi centrali. Diametro di programmazione Ø 130 mm uguale per maschio e femmina.
- F** Jeu de profil et jeu de contreprofil extensibles de 28 à 57 mm grâce aux bagues d'écartement. Diamètre de base Ø 130 mm pour le profilage et le contreprofilage.
- E** Juego a espigar y para almillas extensibles de 28 a 57 mm con anillos intermedios. Diámetro base Ø 130 mm para las espigas y las almillas.
- UK** Adjustable tenoning and slotting tool set from 28 to 57 thanks the spacer rings. Basis diameter Ø130 for both tenons and slots.
- D** Mittels Distanzringe 28-57mm verstellbare Zapfen- und Schlitzgarnituren. Basisdurchmesser Ø130 für Zapfen und Schlitz.

Ø D	Z	H	Cod.	COD. P.
130	2	15	B2480.130C2	A 3190
130	2	15	B2481.130C2	A 3460



Balconi alla veneta
Balcons "alla veneta"
balcones "alla veneta"
Venetian window-shutters
Venezianische Fensterblenden

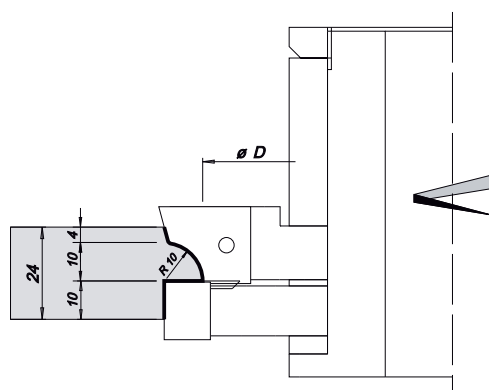
B 2494



B2494

Ⓘ Profilatura lista femmina. Ⓕ Profilage de la lame côté rainure. Ⓖ Perfilado de la lama en el lado hembra. Ⓢ Strip profiling (grooved side). Ⓓ Profilierung der Leiste (Schlitz-Seite).

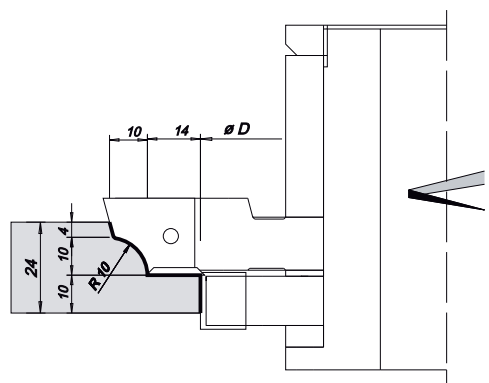
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2494.130C2	B2494.130E2	A 1490
130	4	B2494.130C4	B2494.130E4	A 1834
160	4	B2494.160C4	B2494.160E4	A 1970



B2493

Ⓘ Profilatura lista maschio per aria 4 mm. Ⓕ Profilage de la lame côté languette pour "aria 4 mm". Ⓖ Perfilado de la lama en el lado macho para "aria 4 mm". Ⓢ Strip profiling (tenoned side) for "air 4mm". Ⓓ Profilierung der Leiste (Zapfen-Seite) für "Luft 4mm".

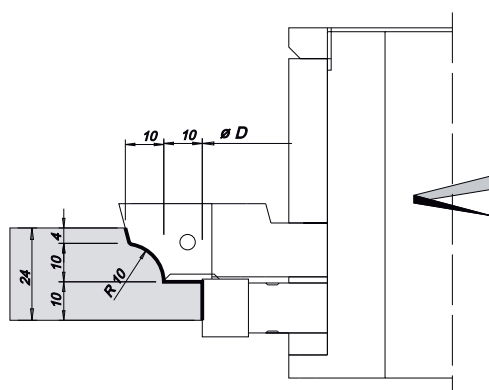
D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2493.130C2	B2493.130E2	A 1490
130	4	B2493.130C4	B2493.130E4	A 1834
160	4	B2493.160C4	B2493.160E4	A 1970



B2492

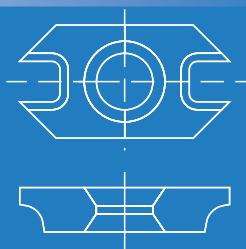
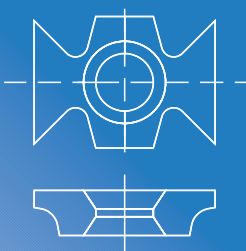
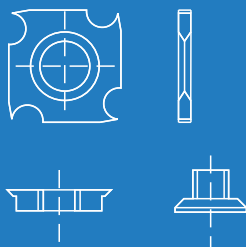
Ⓘ Profilatura lista maschio senza aria. Ⓕ Profilage de la lame côté languette sans "aria". Ⓖ Perfilado de la lama en el lado macho sin "aria". Ⓢ Strip profiling (tenoned side) without "air". Ⓓ Profilierung der Leiste (Zapfen-Seite) ohne "Luft".

D	Z	Cod. Dx	Cod. Sx	COD. P.
130	2	B2492.130C2	B2492.130E2	A 1490
130	4	B2492.130C4	B2492.130E4	A 1834
160	4	B2492.160C4	B2492.160E4	A 1970





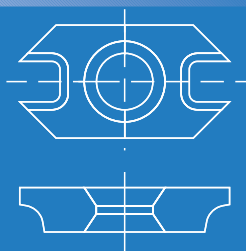
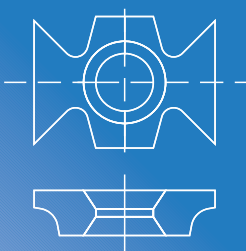
Ricambi
Pièces de rechange
Repuestos
Spare-parts
Ersatzteile



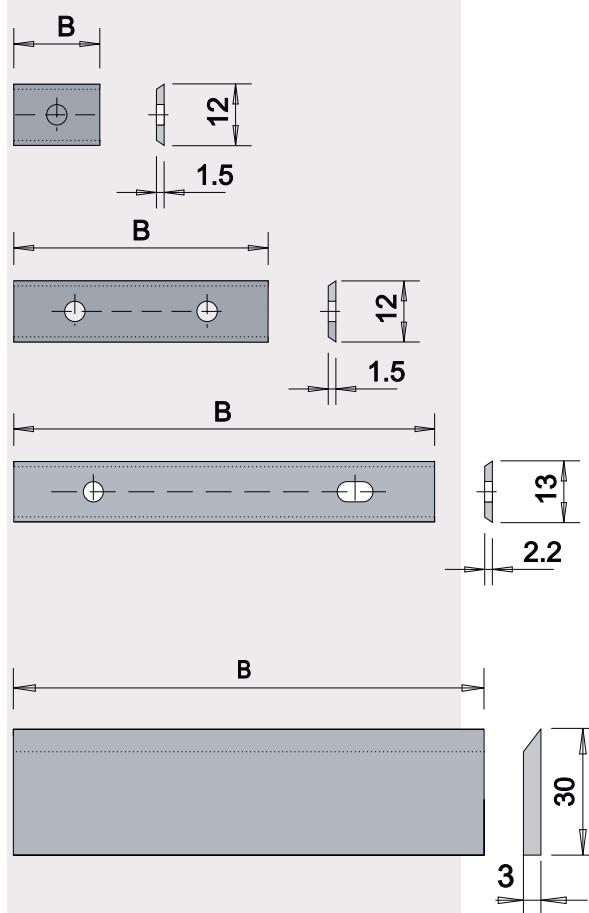
Ricambi: coltellini	F0 12-3
Ricambi: coltellini tagliati inclinati	F1 12-4
Ricambi: coltellini tagliati inclinati	F1 12-5
Ricambi: coltellini tagliati	F0 12-6
Inserti in HW (HM) Micrograno - Ricambi: coltellini spoglia 35° - 45°	F0 12-7
Ricambi: inserti per lame a fissaggio meccanico	F0 12-7
Ricambi: incisori	F3 12-8
Ricambi: incisori	F3 12-8
Ricambi: spigolatori	F4 12-9
Ricambi: spigolatori registrabili	F4 12-10
Ricambi: spigolatori registrabili	F4 12-11
Ricambi: settori dentati	F5 12-12
Ricambi: settori dentati speciali	F5 12-13
Ricambi: settori dentati saldati	F5 12-14
Ricambi: settori dentati saldati speciali	F5 12-15
Ricambi: settori dentati speciali	F5 12-16
Ricambi: settori dentati	F5 12-17
Ricambi: settori dentati doppia guarnizione	F5 12-18
Ricambi: settori dentati BG-Test	F5 12-19
Fissaggio Compact Fix e Auto Compact Fix senza inclinazione assiale - Ricambi: inserto / tassello / vite	G98 12-20
Fissaggio Compact Fix e Auto Compact Fix con inclinazione assiale - Ricambi: inserto / tassello / vite	G98 12-21
Fissaggio Euro Compact Fix e Auto Euro Compact Fix senza inclinazione assiale - Ricambi: inserto / tassello / vite	G08 12-22
Fissaggio Euro Compact Fix e Auto Euro Compact Fix con inclinazione assiale - Ricambi: inserto / tassello / vite	G08 12-23
Fissaggio Euro con e senza inclinazione assiale - Ricambi: inserto / tassello / vite	G01 12-24



Ricambi
Pièces de rechange
Repuestos
Spare-parts
Ersatzteile



Fissaggio BG con e senza inclinazione assiale - Ricambi: inserto / tassello / vite	G03 12-25
Fissaggio Frontale con e senza inclinazione assiale - Ricambi: inserto / tassello / vite	G04 12-26
Viti di fissaggio - Accessori: tiranti e viti	G30 12-27
Viti di fissaggio - Accessori: grani	G31 12-28
Viti di fissaggio - Accessori: viti, madreviti e fermi	G32 12-29
Viti di fissaggio - Accessori: chiavi	G36 12-30
Mozzi per gruppi frese - Accessori: mozzi filettati, ghiera con pioli e chiavi	G10 12-31
Mozzi per gruppi frese - Accessori: mozzi filettati, ghiera	G10 12-32
Mozzi per gruppi frese - Accessori: mozzi con tiranti e ghiera	G13 12-33
Anelli distanziatori - Accessori: distanziali	G20 12-34
Anelli distanziatori - Accessori: distanziali forati per assemblaggio con tiranti	G21 12-35
Riduzioni - Accessori: bussole di riduzione	G17 12-36



Inserti standard HW (HM) 2 taglienti

INSERTO	DIMENSIONI	COD. P.
F0.75.12.15 ●	7.5x12x1.5	B 860
F0.12.12.15 ●	12x12x1.5	B 860
F0.15.12.15 ●	15x12x1.5	B 940
F0.20.12.15 ●	20x12x1.5	B 800
F0.30.12.15 ●	30x12x1.5	B 880
F0.40.12.15 ●	40x12x1.5	B 1260
F0.50.12.15 ●	50x12x1.5	B 1220
F0.60.12.15 ●	60x12x1.5	B 2120
F0.80.13.22 ●	80x13x2.2	B 6960
F0.10.13.22 ●	100x13x2.2	B 8520
F0.12.13.22 ●	120x13x2.2	B 9740

● confezione da 10 pezzi

Coltelli per pialla in acciaio HS Bx30x3

INSERTO	B	COD. P.
F7.HS.100.3	100	B
F7.HS.130.3	130	B
F7.HS.150.3	150	B
F7.HS.180.3	180	B
F7.HS.230.3	230	B

Inserto standard HW (HM) 4 taglienti

INSERTO	DIMENSIONI	COD. P.
F0.12.12.15 ●	12x12x1.5	B 860

● confezione da 10 pezzi

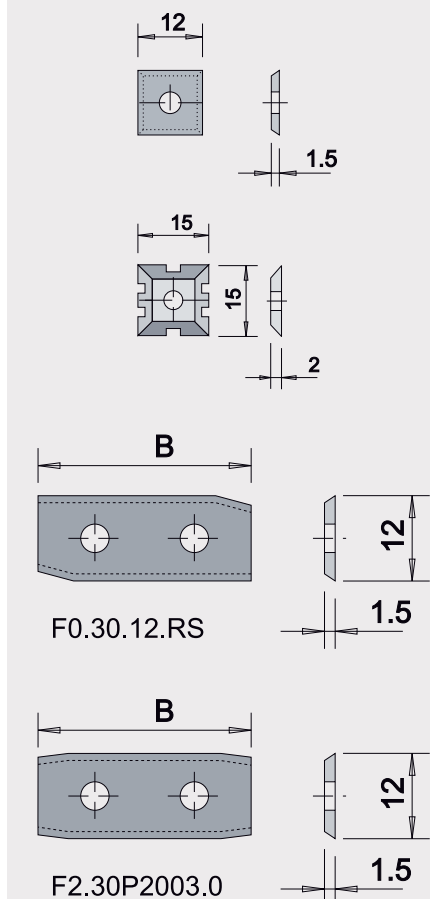
INSERTO	DIMENSIONI	COD. P.
F0.15.15.20 ●	15x15x1.5	B 2500

● confezione da 10 pezzi

Inserti smussati HW (HM)

INSERTO	DIMENSIONI	COD. P.
F0.30.12.RS ●	30x12x1.5	B 2040
F0.30.12.LS ●	30x12x1.5	B 2040
F2.30P2003.0 ●	30x12x1.5	B 1740

● confezione da 10 pezzi

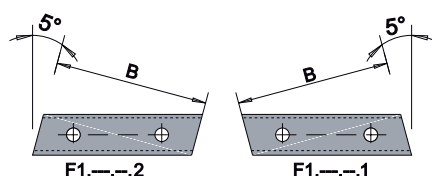




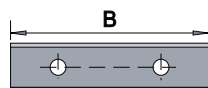
Chiave di lettura del codice

F1	065	10	1
Placchette tagliate inclinate	Lunghezza B	Angolo A	1 = DX 2 = SX

B	Inserto a 5°	B	Inserto a 9°	B	Inserto a 10°	B	Inserto a 15°	B	Inserto a 20°	COD. P.
6,4	F1.064.05.1									B 172
6,4	F1.064.05.2									B 172
7,5	F1.075.05.1	6,5	F1.065.09.1	6,5	F1.065.10.1	6,4	F1.064.15.1	6,4	F1.064.20.1	B 172
7,5	F1.075.05.2	6,5	F1.065.09.2	6,5	F1.065.10.2	6,4	F1.064.15.2	6,4	F1.064.20.2	B 172
8,4	F1.084.05.1	7,5	F1.075.09.1	7,5	F1.075.10.1	7,5	F1.075.15.1	7,1	F1.071.20.1	B 172
8,4	F1.084.05.2	7,5	F1.075.09.2	7,5	F1.075.10.2	7,5	F1.075.15.2	7,1	F1.071.20.2	B 172
9,5	F1.095.05.1	8,5	F1.085.09.1	8,5	F1.085.10.1	8,5	F1.085.15.1			B 172
9,5	F1.095.05.2	8,5	F1.085.09.2	8,5	F1.085.10.2	8,5	F1.085.15.2			B 172
10,4	F1.104.05.1	9	F1.090.09.1	9,3	F1.093.10.1					B 172
10,4	F1.104.05.2	9	F1.090.09.2	9,3	F1.093.10.2					B 172
10,9	F1.109.05.1	9,5	F1.095.09.1	9,5	F1.095.10.1					B 172
10,9	F1.109.05.2	9,5	F1.095.09.2	9,5	F1.095.10.2					B 172
				9,7	F1.097.10.1					B 172
				9,7	F1.097.10.2					B 172
11,4	F1.114.05.1	10,5	F1.105.09.1	10,4	F1.104.10.1	9,4	F1.094.15.1	7,5	F1.075.20.1	B 188
11,4	F1.114.05.2	10,5	F1.105.09.2	10,4	F1.104.10.2	9,4	F1.094.15.2	7,5	F1.075.20.2	B 188
11,5	F1.115.05.1	11,4	F1.114.09.1	11	F1.110.10.1	11	F1.110.15.1	8,5	F1.085.20.1	B 188
11,5	F1.115.05.2	11,4	F1.114.09.2	11	F1.110.10.2	11	F1.110.15.2	8,5	F1.085.20.2	B 188
13,4	F1.134.05.1	12,4	F1.124.09.1	11,4	F1.114.10.1	11,4	F1.114.15.1	9,5	F1.095.20.1	B 188
13,4	F1.134.05.2	12,4	F1.124.09.2	11,4	F1.114.10.2	11,4	F1.114.15.2	9,5	F1.095.20.2	B 188
13,8	F1.138.05.1	12,9	F1.129.09.1	11,7	F1.117.10.1					B 188
13,8	F1.138.05.2	12,9	F1.129.09.2	11,7	F1.117.10.2					B 188
				12,5	F1.125.10.1					B 188
				12,5	F1.125.10.2					B 188
				12,6	F1.126.10.1					B 188
				12,6	F1.126.10.2					B 188
				12,7	F1.127.10.1					B 188
				12,7	F1.127.10.2					B 188
14,3	F1.143.05.1	13,6	F1.136.09.1	13,4	F1.134.10.1	11,8	F1.118.15.1	10,6	F1.106.20.1	B 192
14,3	F1.143.05.2	13,6	F1.136.09.2	13,4	F1.134.10.2	11,8	F1.118.15.2	10,6	F1.106.20.2	B 192
14,5	F1.145.05.1	14,4	F1.144.09.1	14,4	F1.144.10.1	12	F1.120.15.1	11,6	F1.116.20.1	B 192
14,5	F1.145.05.2	14,4	F1.144.09.2	14,4	F1.144.10.2	12	F1.120.15.2	11,6	F1.116.20.2	B 192
15,4	F1.154.05.1	15	F1.150.09.1	14,9	F1.149.10.1	12,4	F1.124.15.1	13,4	F1.134.20.1	B 192
15,4	F1.154.05.2	15	F1.150.09.2	14,9	F1.149.10.2	12,4	F1.124.15.2	13,4	F1.134.20.2	B 192
16,2	F1.162.05.1	15,4	F1.154.09.1	15	F1.150.10.1	13,4	F1.134.15.1	14,4	F1.144.20.1	B 192
16,2	F1.162.05.2	15,4	F1.154.09.2	15	F1.150.10.2	13,4	F1.134.15.2	14,4	F1.144.20.2	B 192
16,4	F1.164.05.1	16	F1.160.09.1	15,4	F1.154.10.1	13,5	F1.135.15.1	14,7	F1.147.20.1	B 192
16,4	F1.164.05.2	16	F1.160.09.2	15,4	F1.154.10.2	13,5	F1.135.15.2	14,7	F1.147.20.2	B 192
17	F1.170.05.1	17,8	F1.178.09.1	16,6	F1.166.10.1	14	F1.140.15.1	18,2	F1.182.20.1	B 192
17	F1.170.05.2	17,8	F1.178.09.2	16,6	F1.166.10.2	14	F1.140.15.2	18,2	F1.182.20.2	B 192
17,9	F1.179.05.1			17	F1.170.10.1	14,2	F1.142.15.1			B 192
17,9	F1.179.05.2			17	F1.170.10.2	14,2	F1.142.15.2			B 192
18,4	F1.184.05.1			17,2	F1.172.10.1	14,4	F1.144.15.1			B 192
18,4	F1.184.05.2			17,2	F1.172.10.2	14,4	F1.144.15.2			B 192
18,8	F1.188.05.1			17,6	F1.176.10.1	14,5	F1.145.15.1			B 192
18,8	F1.188.05.2			17,6	F1.176.10.2	14,5	F1.145.15.2			B 192
						16,2	F1.162.15.1			B 192
						16,2	F1.162.15.2			B 192



B	Inserto a 5°	B	Inserto a 9°	B	Inserto a 10°	B	Inserto a 15°	B	Inserto a 20°	COD. P.
19	F1.190.05.1	19,4	F1.194.09.1	19,4	F1.194.10.1	18,4	F1.184.15.1			B 200
19	F1.190.05.2	19,4	F1.194.09.2	19,4	F1.194.10.2	18,4	F1.184.15.2			B 200
		21,6	F1.216.09.1	20,4	F1.204.10.1	18,8	F1.188.15.1			B 200
		21,6	F1.216.09.2	20,4	F1.204.10.2	18,8	F1.188.15.2			B 200
				21,4	F1.214.10.1					B 200
				21,4	F1.214.10.2					B 200
				21,7	F1.217.10.1	20,4	F1.204.15.1			B 292
				21,7	F1.217.10.2	20,4	F1.204.15.2			B 292
22,4	F1.224.05.1	23,4	F1.234.09.1	22,4	F1.224.10.1	20,9	F1.209.15.1	21	F1.210.20.1	B 180
22,4	F1.224.05.2	23,4	F1.234.09.2	22,4	F1.224.10.2	20,9	F1.209.15.2	21	F1.210.20.2	B 180
23,4	F1.234.05.1	27,7	F1.277.09.1	24,4	F1.244.10.1	22,4	F1.224.15.1	24,1	F1.241.20.1	B 180
23,4	F1.234.05.2	27,7	F1.277.09.2	24,4	F1.244.10.2	22,4	F1.224.15.2	24,1	F1.241.20.2	B 180
24	F1.240.05.1	23,7	F1.237.09.1	25,4	F1.254.10.1	22,9	F1.229.15.1			B 180
24	F1.240.05.2	23,7	F1.237.09.2	25,4	F1.254.10.2	22,9	F1.229.15.2			B 180
25,4	F1.254.05.1			27	F1.270.10.1	23	F1.230.15.1			B 180
25,4	F1.254.05.2			27	F1.270.10.2	23	F1.230.15.2			B 180
28,4	F1.284.05.1			27,4	F1.274.10.1	24,4	F1.244.15.1			B 180
28,4	F1.284.05.2			27,4	F1.274.10.2	24,4	F1.244.15.2			B 180
28,8	F1.288.05.1					25,9	F1.259.15.1			B 180
28,8	F1.288.05.2					25,9	F1.259.15.2			B 180
48,7	F1.487.05.1	34,4	F1.344.09.1	35,4	F1.354.10.1	35,5	F1.355.15.1	33,5	F1.335.20.1	B 244
48,7	F1.487.05.2	34,4	F1.344.09.2	35,4	F1.354.10.2	35,5	F1.355.15.2	33,5	F1.335.20.2	B 244
49,5	F1.495.05.1	37,6	F1.376.09.1	37,3	F1.373.10.1	39,4	F1.394.15.1			B 244
49,5	F1.495.05.2	37,6	F1.376.09.2	37,3	F1.373.10.2	39,4	F1.394.15.2			B 244
		39	F1.390.09.1	39	F1.390.10.1	44	F1.440.15.1			B 244
		39	F1.390.09.2	39	F1.390.10.2	44	F1.440.15.2			B 244
		47,5	F1.475.09.1	42,4	F1.424.10.1	45,2	F1.452.15.1			B 244
		47,5	F1.475.09.2	42,4	F1.424.10.2	45,2	F1.452.15.2			B 244
				47,1	F1.471.10.1					B 244
				47,1	F1.471.10.2					B 244
32,8	F1.328.05.1	31,4	F1.314.09.1	31	F1.310.10.1	29,4	F1.294.15.1	20	F1.200.20.1	B 292
32,8	F1.328.05.2	31,4	F1.314.09.2	31	F1.310.10.2	29,4	F1.294.15.2	20	F1.200.20.2	B 292
49	F1.490.05.1	49	F1.490.09.1	51	F1.510.10.1					B 292
49	F1.490.05.2	49	F1.490.09.2	51	F1.510.10.2					B 292
50,5	F1.505.05.1	51	F1.510.09.1	57	F1.570.10.1					B 292
50,5	F1.505.05.2	51	F1.510.09.2	57	F1.570.10.2					B 292
51	F1.510.05.1									B 292
51	F1.510.05.2									B 292
58,7	F1.587.05.1									B 292
58,7	F1.587.05.2									B 292
78,5	F1.785.05.1			70	F1.700.10.1					B 760
78,5	F1.785.05.2			70	F1.700.10.2					B 760
				74,2	F1.742.10.1					B 760
				74,2	F1.742.10.2					B 760
		96,7	F1.967.09.1	79,4	F1.794.10.1					B 1000
		96,7	F1.967.09.2	79,4	F1.794.10.2					B 1000
				95	F1.950.10.1					B 1000
				95	F1.950.10.2					B 1000



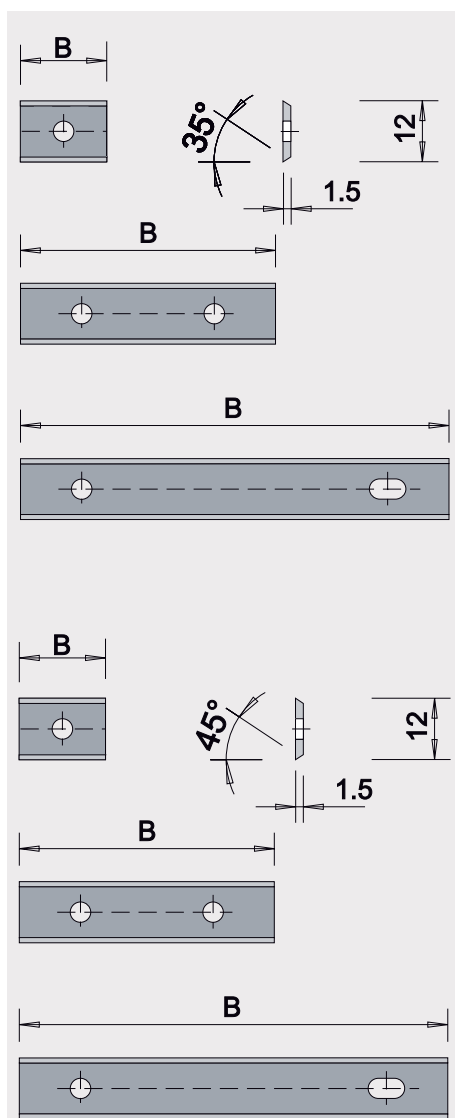
Chiave di lettura del codice

F0	.	079	.	12	.	15
Placchette tagliate diritte		Lunghezza B in 1/10 mm		Altezza in mm		Spessore in 1/10 mm



Inserto	B mm	COD. P.
F0.65.12.15	6,5	B 172
F0.70.12.15	7	B 172
F0.079.12.15	7,9	B 172
F0.080.12.15	8	B 172
F0.85.12.15	8,5	B 172
F0.087.12.15	8,7	B 172
F0.090.12.15	9	B 172
F0.95.12.15	9,5	B 172
F0.097.12.15	9,7	B 172
F0.100.12.15	10	B 172
F0.104.12.15	10,4	B 172
F0.105.12.15	10,5	B 172
F0.108.12.15	10,8	B 172
F0.11.12.15	11	B 172
F0.114.12.15	11,4	B 172
F0.124.12.15	12,4	B 188
F0.130.12.15	13	B 188
F0.133.12.15	13,3	B 188
F0.134.12.15	13,4	B 188
F0.135.12.15	13,5	B 188
F0.136.12.15	13,6	B 188
F0.139.12.15	13,9	B 188
F0.140.12.15	14	B 188
F0.144.12.15	14,4	B 188
F0.146.12.15	14,6	B 188
F0.154.12.15	15,4	B 192
F0.157.12.15	15,7	B 192
F0.159.12.15	15,9	B 192
F0.162.12.15	16,2	B 192
F0.164.12.15	16,4	B 192
F0.167.12.15	16,7	B 192
F0.169.12.15	16,9	B 192
F0.170.12.15	17	B 192
F0.173.12.15	17,3	B 192
F0.174.12.15	17,4	B 192
F0.180.12.15	18	B 192
F0.184.12.15	18,4	B 192
F0.186.12.15	18,6	B 192
F0.190.12.15	19	B 192
F0.194.12.15	19,4	B 192
F0.197.12.15	19,7	B 192
F0.204.12.15	20,4	B 200
F0.210.12.15	21	B 200
F0.214.12.15	21,4	B 200
F0.217.12.15	21,7	B 200
F0.219.12.15	21,9	B 200
F0.224.12.15	22,4	B 200
F0.226.12.15	22,6	B 200

Inserto	B mm	COD. P.
F0.230.12.15	23	B 200
F0.234.12.15	23,4	B 200
F0.235.12.15	23,5	B 180
F0.237.12.15	23,7	B 180
F0.240.12.15	24	B 180
F0.244.12.15	24,4	B 180
F0.245.12.15	24,5	B 180
F0.250.12.15	25	B 180
F0.254.12.15	25,4	B 180
F0.256.12.15	25,6	B 180
F0.260.12.15	26	B 180
F0.264.12.15	26,4	B 180
F0.270.12.15	27	B 180
F0.274.12.15	27,4	B 180
F0.279.12.15	27,9	B 180
F0.284.12.15	28,4	B 180
F0.290.12.15	29	B 180
F0.294.12.15	29,4	B 180
F0.319.12.15	31,9	B 244
F0.340.12.15	34	B 244
F0.350.12.15	35	B 244
F0.354.12.15	35,4	B 244
F0.364.12.15	36,4	B 244
F0.370.12.15	37	B 244
F0.374.12.15	37,4	B 244
F0.384.12.15	38,4	B 244
F0.390.12.15	39	B 244
F0.391.12.15	39,1	B 244
F0.394.12.15	39,4	B 244
F0.396.12.15	39,6	B 244
F0.414.12.15	41,4	B 244
F0.430.12.15	43	B 244
F0.444.12.15	44,4	B 244
F0.450.12.15	45	B 244
F0.460.12.15	46	B 244
F0.464.12.15	46,4	B 244
F0.470.12.15	47	B 244
F0.494.12.15	49,4	B 244
F0.514.12.15	51,4	B 292
F0.540.12.15	54	B 292
F0.580.12.15	58	B 292
F0.720.13.22	72	B 760
F0.740.13.22	74	B 760
F0.840.13.22	84	B 1000
F0.940.13.22	94	B 1000
F0.964.13.22	96,4	B 1000



Coltellini spoglia 35°

Inserti standard HW (HM) Micrograno 2 taglienti

INSERTO	DIMENSIONI	COD.P.
F0.075M12.15 ●	7.5x12x1.5	B 900
F0.120M12.15 ●	12x12x1.5	B 1030
F0.150M12.15 ●	15x12x1.5	B 1000
F0.200M12.15 ●	20x12x1.5	B 1090
F0.300M12.15 ●	30x12x1.5	B 1180
F0.400M12.15 ●	40x12x1.5	B 1590
F0.500M12.15 ●	50x12x1.5	B 1590
F0.600M12.15 ●	60x12x1.5	B 2440

● confezione da 10 pezzi

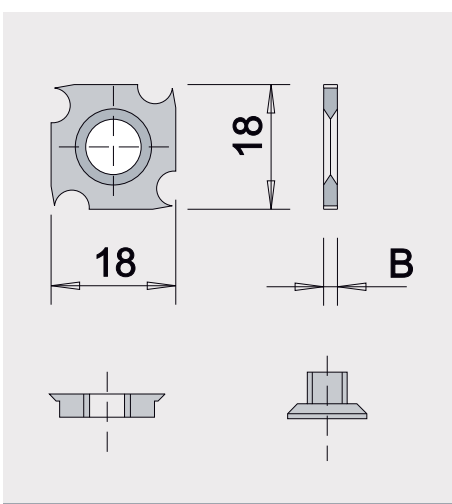
Coltellini spoglia 45°

Inserti standard HW (HM) Micrograno 2 taglienti

INSERTO	DIMENSIONI	COD.P.
F0.075C12.15 ●	7.5x12x1.5	B 990
F0.120C12.15 ●	12x12x1.5	B 1140
F0.150C12.15 ●	15x12x1.5	B 1090
F0.200C12.15 ●	20x12x1.5	B 1180
F0.300C12.15 ●	30x12x1.5	B 1300
F0.400C12.15 ●	40x12x1.5	B 1740
F0.500C12.15 ●	50x12x1.5	B 1740
F0.600C12.15 ●	60x12x1.5	B 2680

● confezione da 10 pezzi

**Inserti in HW (HM) Integrali - Ricambi:
inserti per lame a fissaggio meccanico**



Inserti standard HW (HM)

4 taglienti per lame a fissaggio meccanico

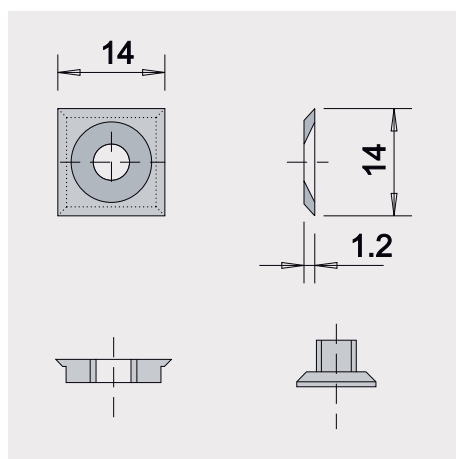
INSERTO	B	COD.P.	MADREVITE	COD.P.	VITE	COD.P.
F0.18.18.19 ●	1,95	B 2600	G34.04.017.01 ●	B 540	G32.04.032.11 ●	B 480
F0.18.18.25 ●	2,5	B 3240	G34.04.017.01 ●	B 540	G32.04.040.11 ●	B 680
F0.18.18.29 ●	2,9	B 4380	G34.04.017.01 ●	B 540	G32.04.040.11 ●	B 680

● confezione da 10 pezzi

Madreviti in uso fino al 01/09/95

INSERTO	B	COD.P.	MADREVITE	COD.P.	VITE	COD.P.
F0.18.18.19 ●	1,95	B 2600	G34.04.023.02 ●	B 540	G32.04.032.11 ●	B 480
F0.18.18.25 ●	2,5	B 3240	G34.04.027.03 ●	B 540	G32.04.040.11 ●	B 680
F0.18.18.29 ●	2,9	B 4380	G34.04.032.04 ●	B 540	G32.04.040.11 ●	B 680

● confezione da 10 pezzi



Incisore HW (HM) per lame a fissaggio meccanico

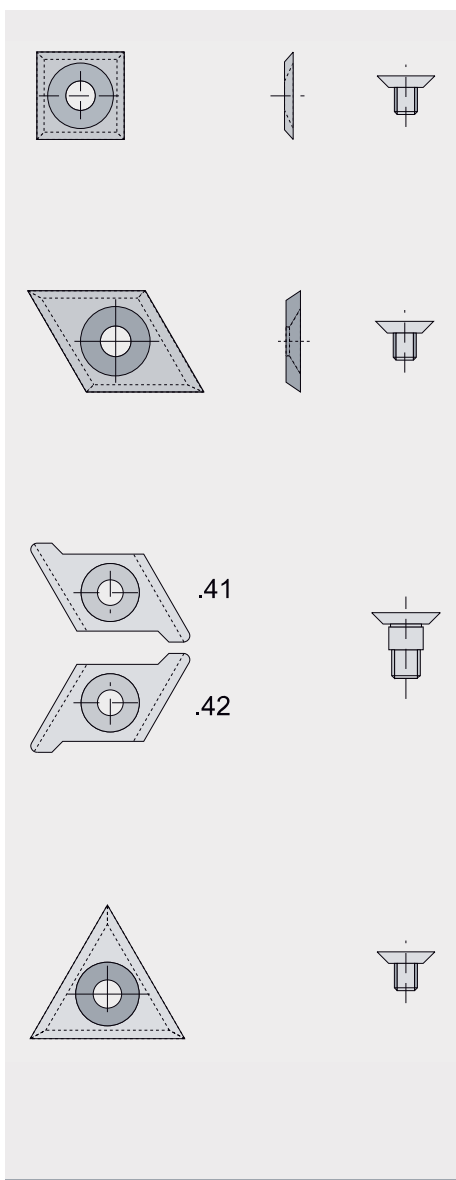
INSERTO	B	COD. P.	MADREVITE	COD. P.	VITE	COD. P.
F3.14.12.10 ●	1,2	B 1134	G34.04.011.01 ●	B 460	G32.04.032.11 ●	B 480

● confezione da 10 pezzi

Madreviti in uso fino al 01/09/95

INSERTO	B	COD. P.	MADREVITE	COD. P.	VITE	COD. P.
F3.14.12.10 ●	1,2	B 1134	G34.04.015.01 ●	B 460	G32.04.032.11 ●	B 480

● confezione da 10 pezzi



Incisore HW (HM) quadrato

INSERTO	DIM.	COD. P.	VITE	COD. P.
F3.14.20.10 ●	14x14x2	B 860	G32.04.067.01 x●	B 400
F3.12.30.10 ●	12x12x3	B 1940	G32.04.009.01 ●	B 540

● confezione da 10 pezzi

Incisore HW (HM) rombo

INSERTO	DIM.	COD. P.	VITE	COD. P.
F3.14.20.20 ●	14x14x2	B 1800	M4 G32.04.067.01 x●	B 400 dal 27-07-92
			M5 G32.05.007.03 ●	B 400 Øno 26-07-92

● confezione da 10 pezzi

x Sui fori con il Øletto riportato viene utilizzata la vite M5 G32.05.007.03

Incisore HW (HM) raggato

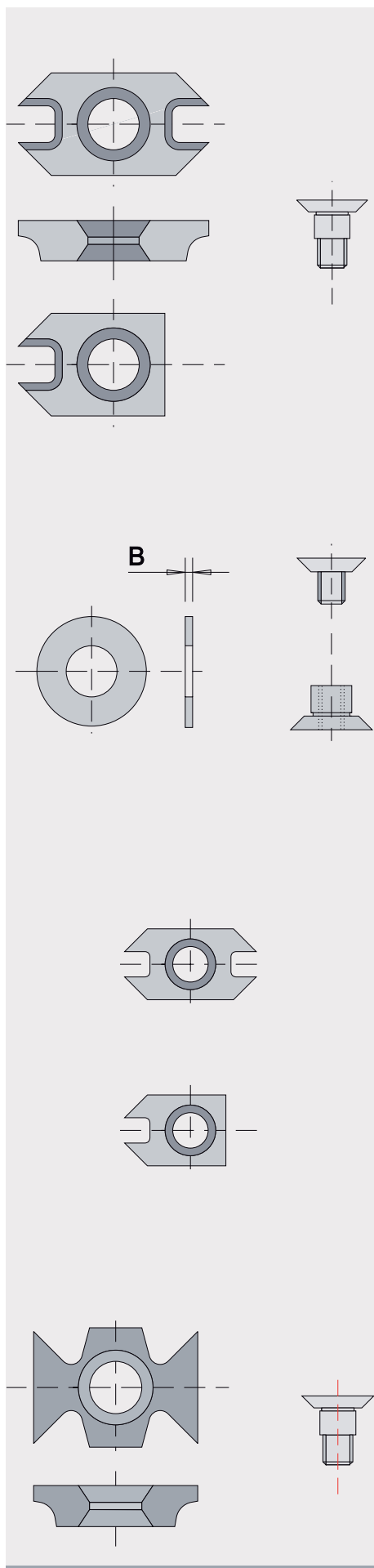
INSERTO	DIMENSIONI	COD. P.	VITE	COD. P.
F3.16.30.41	15x16x3	B 652	G32.05.012.04 ●	B 420
F3.16.30.42	15x16x3	B 652	G32.05.012.04 ●	B 420

● confezione da 10 pezzi

Incisore HW (HM) triangolare

INSERTO	DIM.	COD. P.	VITE	COD. P.
F3.22.20.30 ●	22x22x2	B 1740	M4 G32.04.067.01 ●	B 400 dal 27-07-92
			M5 G32.05.007.03 ●	B 400 Øno 26-07-92

● confezione da 10 pezzi



Spigolatore HW (HM) con taglio assiale

INSERTO	DIMENSIONI	COD. P.	VITE	COD. P.
F4.30.53.01	R 3	B 686	G32.06.015.01 ●	B 422
F4.30.63.01	R 3 20°	B 686	G32.06.015.01 ●	B 422
F4.15.53.01	R 1.5	B 686	G32.06.014.01 ●	B 440
F4.45.43.01	45°	B 582	G32.06.014.01 ●	B 440
F4.30.53.02	R 3	B 638	G32.06.015.01 ●	B 422
F4.30.63.02	R 3 20°	B 638	G32.06.015.01 ●	B 422
F4.15.53.02	R 1.5	B 638	G32.06.014.01 ●	B 440
F4.45.43.02	45°	B 496	G32.06.014.01 ●	B 440

● confezione da 10 pezzi

Distanziali per spigolatore

DISTANZIALE	B	COD. P.
G22.07.14.001 ●	0,1	B 60
G22.07.14.003 ●	0,3	B 60

Vite e madrevite per spigolatore

VITE	COD. P.
G32.04.090.01 ●	B 400
MADREVITE	
G34.04.070.05 ●	B 560

NB: Gli attuali spigolatori con taglio assiale hanno sostituito i vecchi a taglio diritto e sono tra loro intercambiabili.

**Spigolatore HW (HM) taglio diritto
assiale non più in produzione**

INSERTO	DIM.	OLD.COD.
F4.25.11.01	R 2.5	L1
F4.25.21.01	R 2.5 20°	L2
F4.15.11.01	R 1.5	L3
F4.45.41.01	45°	L4
F4.25.11.02	R 2.5	L7
F4.25.21.02	R 2.5 20°	L11
F4.15.11.02	R 1.5	L9
F4.45.41.02	45°	L8

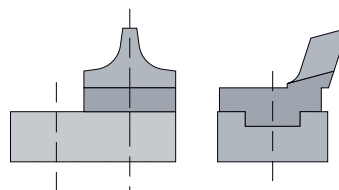
**Spigolatore HW (HM) taglio
attuale produzione**

INSERTO	DIM.
F4.30.53.01	R 3
F4.30.63.01	R 3 20°
F4.15.53.01	R 1.5
F4.45.43.01	45°
F4.30.53.02	R 3
F4.30.63.02	R 3 20°
F4.15.53.02	R 1.5
F4.45.43.02	45°

Spigolatore HW (HM)

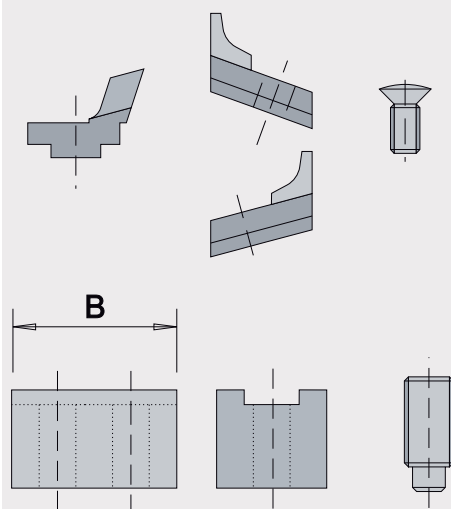
INSERTO	DIMENSIONI	COD. P.	VITE	COD. P.
F4.15.12.01	R 1.5	B 608	G32.05.014.05 ●	B 440
F4.20.22.01	R 2	B 608	G32.05.014.05 ●	B 440
F4.25.12.01	R 2.5	B 608	G32.05.014.05 ●	B 440
F4.30.22.01	R 3	B 608	G32.05.014.05 ●	B 440
F4.50.12.01	R 5	B 608	G32.05.014.05 ●	B 440
F4.45.42.01	45°	B 608	G32.05.014.05 ●	B 440

● confezione da 10 pezzi



Spigolatore raggiato registrabile
Inserto HW (HM) raggiatore

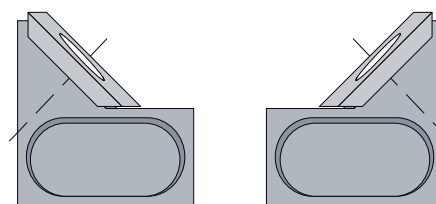
INSERTO	DIMENSIONI	COD. P.	VITE	COD. P.
F4.15.19.01	R 1.5	B 940	G32.04.010.09 ●	B 320
F4.30.19.01	R 3	B 940	G32.04.010.09 ●	B 320
F4.30.29.01	R 3 20°	B 1460	G32.04.010.09 ●	B 320
F4.30.59.01	R 3 15°	B 1460	G32.04.010.09 ●	B 320



Tassello registrabile

TASSELLO	DIMENSIONI	COD. P.	GRANO	COD. P.
G51.00S180.01	B 18	B 1038	G31.08.012.05 ●	B 60
G51.00S220.01	B 22	B 1038	G31.08.012.05 ●	B 60
G51.00S280.01	B 28	B 1038	G31.08.012.05 ●	B 60

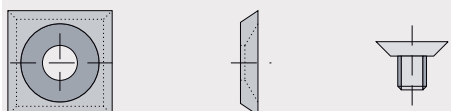
● confezione da 10 pezzi



Spigolatore registrabile 45°
Incisore HW (HM) quadrato

INSERTO	DIMENSIONI	COD. P.	VITE	COD. P.
F3.14.20.10 ●	14x14x2	B 860	G32.04.067.01 ●	B 400

● confezione da 10 pezzi



Tassello registrabile Dx

TASSELLO	DIMENSIONI	COD. P.	GRANO	COD. P.
G50.45R200.03	B 20x23.5	B 1194	G31.08.012.05 ●	B 60
G50.45R200.02	B 20x20	B 1194	G31.08.012.05 ●	B 60

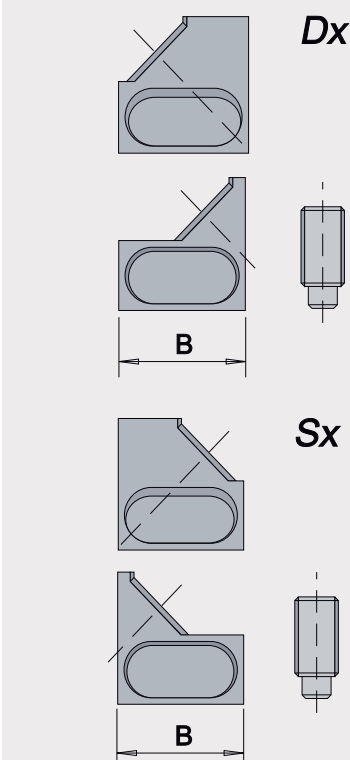
G50.45R200.01	B 20x20	B 1194	G31.08.012.05 ●	B 60
G50.45R220.01	B 22x20	B 1194	G31.08.012.05 ●	B 60
G50.45R280.01	B 28x20	B 1194	G31.08.012.05 ●	B 60
G50.45R320.01	B 32x20	B 1194	G31.08.012.05 ●	B 60

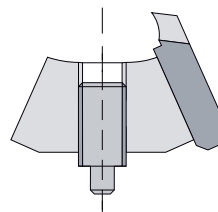
Tassello registrabile Sx

TASSELLO	DIMENSIONI	COD. P.	GRANO	COD. P.
G50.45L200.03	B 20x23.5	B 1194	G31.08.012.05 ●	B 60
G50.45L200.02	B 20x20	B 1194	G31.08.012.05 ●	B 60

G50.45L200.01	B 20x20	B 1194	G31.08.012.05 ●	B 60
G50.45L220.01	B 22x20	B 1194	G31.08.012.05 ●	B 60
G50.45L280.01	B 28x20	B 1194	G31.08.012.05 ●	B 60
G50.45L320.01	B 32x20	B 1194	G31.08.012.05 ●	B 60

● confezione da 10 pezzi





Spigolatore registrabile LSR-92
Inserto HW (HM) alto

INSERTO Dx	DIMENSIONI	INSERTO Sx	COD. P.
F4.15.57.01	R 1.5	F4.15.57.02	B 704
F4.30.57.01	R 3	F4.30.57.02	B 704
F4.30.67.01	R 3 30°	F4.30.67.02	B 704
F4.50.57.01	R 5	F4.50.57.02	B 796
F4.50.67.01	R 5 30°	F4.50.67.02	B 796
F4.45.47.01	45°	F4.45.47.02	B 704



Dx



Sx



Dx



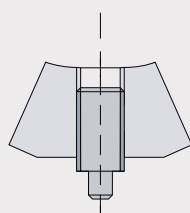
Sx

Inserto HW (HM) basso

INSERTO Dx	DIMENSIONI	INSERTO Sx	COD. P.
F4.30.57.03	R 3	F4.30.57.04	B 704
F4.30.67.03	R 3 30°	F4.30.67.04	B 704
F4.50.57.03	R 5	F4.50.57.04	B 796
F4.50.67.03	R 5 30°	F4.50.67.04	B 796
F4.45.47.03	45°	F4.45.47.04	B 704

Tassello registrabile con grano di fissaggio

Tassello	COD. P.
R11.120.NK01	B 1760



Posizioni nei fori
di riferimento



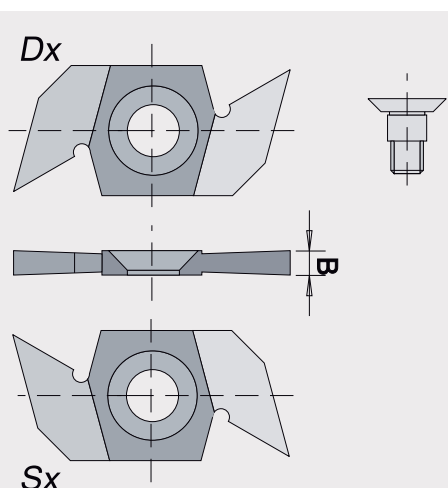
Posizioni diverse
dei fori



Grano di fissaggio

GRANO	COD. P.
G31.06.016.05 ●	B 140
G31.06.014.01 ●	B 60

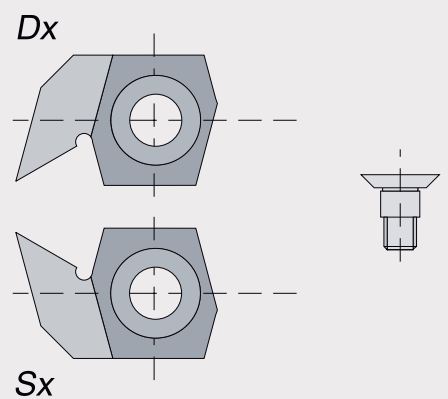
● confezione da 10 pezzi



Settore HW (HM) dentato

INSERTO	B	COD. P.	VITE	COD. P.
F5.30.19.03	3 Dx	B 648	G32.05.012.04 ●	B 400
F5.30.29.03	3 Sx	B 648	G32.05.012.04 ●	B 400
F5.40.09.03	4	B 694	G32.05.012.04 ●	B 400
F5.50.09.03	5	B 724	G32.05.014.05 ●	B 440
F5.60.09.03	6	B 786	G32.05.014.05 ●	B 440

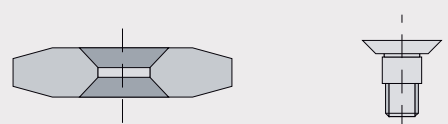
● confezione da 10 pezzi



Settore HW (HM) dentato corto

INSERTO	B	COD. P.	VITE	COD. P.
F5.30.19.04	3 Dx	B 648	G32.05.012.04 ●	B 400
F5.30.29.04	3 Sx	B 648	G32.05.012.04 ●	B 400
F5.40.09.04	4	B 694	G32.05.012.04 ●	B 400
F5.50.09.04	5	B 724	G32.05.014.05 ●	B 440
F5.60.09.04	6	B 786	G32.05.014.05 ●	B 440

● confezione da 10 pezzi



Rompigoccia HW (HM)

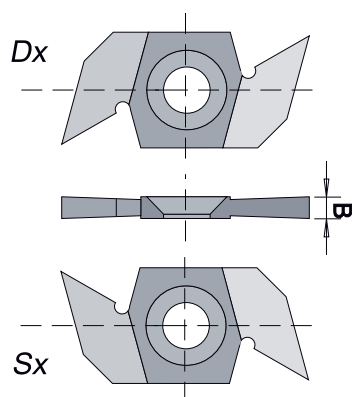
INSERTO	B	COD. P.	VITE	COD. P.
F5.68.09.06	6	B 786	G32.05.014.05 ●	B 440

● confezione da 10 pezzi

Vite e madrevite per settore dentato

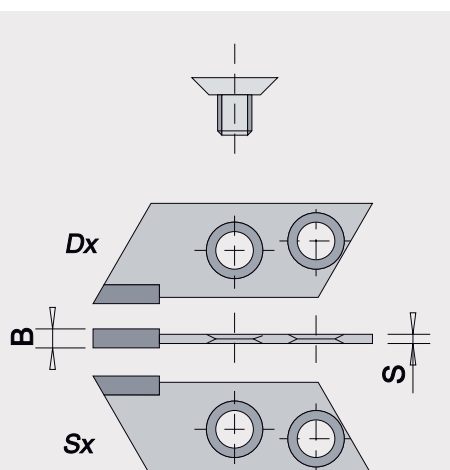
VITE	COD. P.	MADREVITE	COD. P.
G32.04.090.01 ●	B 400	G34.04.070.06 ●	B 560

● confezione da 10 pezzi



Inserto	B mm	COD.P.
F5.20.19.01	2,7	B 1006
F5.20.19.02	2,5	B 1006
F5.20.19.03	2	B 1006
F5.20.19.04	2,4	B 1006
F5.20.19.05	2,8	B 1006
F5.20.19.06	2,8	B 1006
F5.20.19.07	2	B 1006
F5.20.19.08	2,2	B 1006
F5.20.29.01	2,7	B 1006
F5.20.29.02	2,5	B 1006
F5.20.29.03	2	B 1006
F5.20.29.04	2,4	B 1006
F5.20.29.05	2,8	B 1006
F5.20.29.06	2,8	B 1006
F5.20.29.08	2,2	B 1006
F5.30.19.05	3,5	B 1052
F5.30.19.06	3,8	B 1052
F5.30.19.07	3,6	B 1052
F5.30.19.08	2	B 1006
F5.30.19.09	1,6	B 1006
F5.30.19.10	2	B 1006
F5.30.29.05	3,5	B 1052
F5.30.29.06	3,8	B 1052
F5.30.29.08	2	B 1006
F5.30.29.09	1,6	B 1006
F5.30.29.10	2	B 1006
F5.40.09.05	3,5	B 1052
F5.40.19.01	4,8	B 1082
F5.40.19.02	4,5	B 1082
F5.40.29.01	4,8	B 1082
F5.40.29.02	4,5	B 1082
F5.44.19.01	4/45	B 1052
F5.44.29.01	4/45	B 1052
F5.45.09.01	4	B 1052
F5.46.09.01	r 2	B 1052
F5.46.19.02	0,57	B 1052
F5.46.29.02	0,57	B 1052
F5.47.19.01	2,23	B 1052

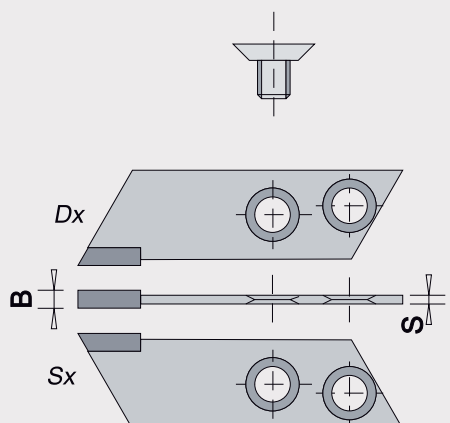
Inserto	B mm	COD.P.
F5.47.19.02	2,5	B 1052
F5.47.29.01	2,23	B 1052
F5.47.29.02	2,5	B 1052
F5.51.19.01	4,3	B 1082
F5.51.29.01	4,3	B 1082
F5.56.09.02	2,8	B 1082
F5.56.09.03	r 2,5	B 1082
F5.56.19.03	3	B 1082
F5.56.19.04	r 3	B 1082
F5.56.19.05	2,7	B 1082
F5.56.19.06	3,2	B 1082
F5.56.19.07	3,2	B 1082
F5.56.29.03	3	B 1082
F5.56.29.06	3,2	B 1082
F5.56.29.07	3,2	B 1082
F5.61.19.01	5,3	B 1144
F5.61.29.01	5,3	B 1144
F5.66.09.01	r 3	B 1144
F5.66.19.01	2,54	B 940
F5.66.19.02	4,5	B 1144
F5.66.19.03	4,5	B 1144
F5.66.29.01	2,54	B 1144
F5.69.19.01	6	B 1144
F5.69.29.01	6	B 1144



Settore dentato normale

INSERTO	B-S	COD. P.	VITE	COD. P.
F5.30.11.03	3-2 Dx	B 384	G32.04.067.01 ●	B 400
F5.30.21.03	3-2 Sx	B 384	G32.04.067.01 ●	B 400
F5.40.01.04	4-3	B 579	G32.04.090.01 ●	B 400
F5.50.01.05	5-3	B 579	G32.04.090.01 ●	B 400
F5.60.01.06	6-3	B 579	G32.04.090.01 ●	B 400
F5.80.01.01	8-6	B 655	G32.04.110.01 ●	B 400

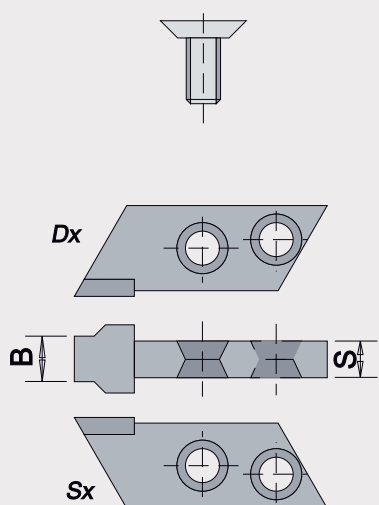
- confezione da 10 pezzi



Settore dentato lungo

INSERTO	B-S	COD. P.	VITE	COD. P.
F5.40.02.04	4-3	B 655	G32.04.090.01 ●	B 400
F5.50.02.05	5-4	B 696	G32.04.090.01 ●	B 400
F5.50.02.06	5-3	B 655	G32.04.090.01 ●	B 400
F5.60.02.06	6-4	B 696	G32.04.090.01 ●	B 400
F5.60.02.07	6-3	B 655	G32.04.090.01 ●	B 400

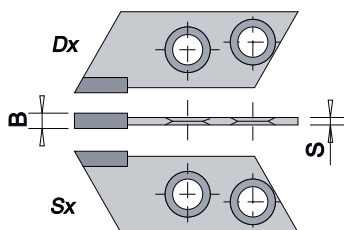
- confezione da 10 pezzi



Settore dentato per ferramenta "euro"

INSERTO	B-S	COD. P.	VITE	COD. P.
F5.86.01.01	8-6	B 982	G32.04.110.01 ●	B 400

- confezione da 10 pezzi



Inserto	B mm	COD. P.
F5.00.01.01	10	B 941
F5.06.11.02	4	B 941
F5.06.11.03	6,4	B 941
F5.06.21.02	4	B 941
F5.06.21.03	6,4	B 941
F5.20.10.01	2,8	B 880
F5.20.11.01	2,8	B 670
F5.20.11.02	2,6	B 670
F5.20.11.03	2,7	B 865
F5.20.11.04	2	B 670
F5.20.11.05	2	B 865
F5.20.11.06	2	B 670
F5.20.12.01	2,7	B 941
F5.20.12.02	2	B 941
F5.20.20.01	2,8	B 880
F5.20.21.01	2,8	B 670
F5.20.21.02	2,6	B 670
F5.20.21.03	2,7	B 865
F5.20.21.04	2	B 670
F5.20.21.05	2	B 865
F5.20.21.06	2	B 670
F5.20.22.01	2,7	B 941
F5.20.22.02	2	B 941
F5.26.31.01	2,5	B 670
F5.26.41.01	2,5	B 670
F5.30.01.01	3,5	B 865
F5.30.01.02	3,6	B 865
F5.30.02.01	3,5	B 941
F5.30.02.02	3,5	B 941
F5.30.11.04	2,5	B 670
F5.30.11.05	2,9	B 670
F5.30.11.06	3,2	B 865
F5.30.12.02	3	B 941
F5.30.21.04	2,5	B 670
F5.30.21.05	2,9	B 670
F5.30.21.06	3,2	B 865
F5.30.22.02	3	B 941
F5.32.11.01	3,5	B 865
F5.32.21.01	3,5	B 865
F5.33.11.01	3	B 670
F5.33.21.01	3	B 670
F5.34.11.01	2,8	B 670

Inserto	B mm	COD. P.
F5.34.21.01	2,8	B 670
F5.36.11.01	3,5	B 865
F5.36.21.01	3,5	B 865
F5.37.11.01	3	B 670
F5.37.21.01	3	B 670
F5.39.11.01	3	B 670
F5.39.11.02	3	B 670
F5.39.11.03	3	B 670
F5.39.21.01	3	B 670
F5.39.21.02	3	B 670
F5.39.21.03	3	B 670
F5.40.00.01	4	B 880
F5.40.00.02	4	B 880
F5.40.01.05	7,76	B 865
F5.40.02.05	4,5	B 941
F5.40.11.01	3,8	B 865
F5.40.21.01	3,8	B 865
F5.41.12.01	4	B 941
F5.41.22.01	4	B 941
F5.42.12.01	4	B 941
F5.42.22.01	4	B 941
F5.44.11.01	2,5	B 865
F5.44.11.02	0,5	B 865
F5.44.11.03	1,4	B 865
F5.44.21.01	2,5	B 865
F5.44.21.02	0,5	B 865
F5.44.21.03	1,4	B 865
F5.46.11.01	3,5	B 865
F5.46.11.02	3,5	B 865
F5.46.11.03	r 2,5	B 865
F5.46.11.04	r 1,5	B 865
F5.46.11.05	r 3	B 865
F5.46.12.01	4	B 865
F5.46.21.01	3,5	B 865
F5.46.21.02	3,5	B 865
F5.46.21.03	r 2,5	B 865
F5.46.21.04	r 1,5	B 865
F5.46.21.05	r 3	B 865
F5.46.22.01	4	B 865
F5.47.11.01	4	B 865
F5.47.12.01	4	B 941
F5.47.21.01	4	B 865
F5.47.22.01	4	B 941
F5.48.01.04	4	B 865
F5.48.11.01	r 4	B 865
F5.48.21.01	r 4	B 865

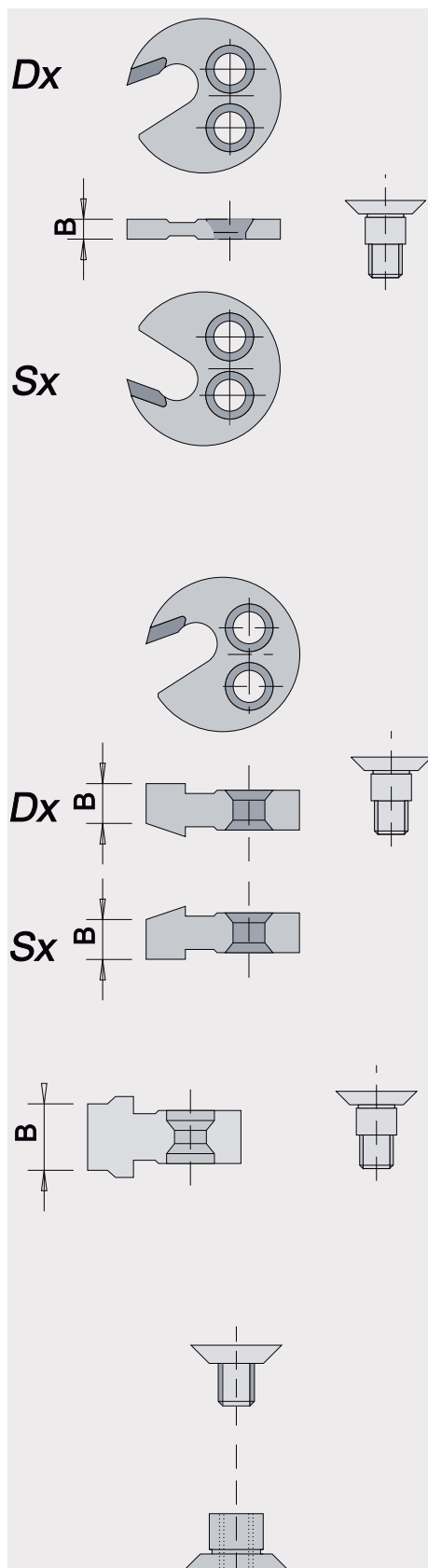
Inserto	B mm	COD. P.
F5.49.11.01	4	B 865
F5.49.11.02	4	B 865
F5.49.12.01	4	B 941
F5.49.21.01	4	B 865
F5.49.21.02	4	B 865
F5.49.22.01	4	B 941
F5.50.00.01	5	B 880
F5.50.00.02	5	B 880
F5.50.01.06	4,5	B 865
F5.50.01.07	4,6	B 865
F5.50.10.01	5	B 880
F5.50.20.01	5	B 880
F5.51.12.01	5	B 941
F5.51.22.01	5	B 941
F5.52.12.01	5	B 982
F5.52.22.01	5	B 982
F5.53.11.01	4,5	B 865
F5.53.11.02	5	B 865
F5.53.21.01	4,5	B 865
F5.53.21.02	5	B 865
F5.55.11.01	5	B 865
F5.55.12.01	5	B 941
F5.55.21.01	5	B 865
F5.55.22.01	5	B 941
F5.56.01.01	3,3	B 865
F5.56.11.01	2	B 865
F5.56.11.02	r 2,5	B 865
F5.56.11.03	r 5	B 865
F5.56.11.04	r 2	B 865
F5.56.11.05	3	B 865
F5.56.11.06	3,5	B 865
F5.56.11.07	2,4	B 865
F5.56.11.08	4,8	B 865
F5.56.11.09	4	B 865
F5.56.11.10	2,5	B 865
F5.56.11.11	2,1	B 865
F5.56.11.12	3,5	B 865
F5.56.12.01	5	B 982
F5.56.12.02	5	B 982
F5.56.12.03	5	B 941
F5.56.12.04	5	B 941
F5.56.12.05	5	B 941
F5.56.21.01	2	B 865
F5.56.21.02	r 2,5	B 865
F5.56.21.03	r 5	B 865
F5.56.21.04	r 2	B 865



Inserto	B mm	COD. P.
F5.56.21.05	3	B 865
F5.56.21.06	3,5	B 865
F5.56.21.07	2,4	B 865
F5.56.21.08	4,8	B 865
F5.56.21.09	4	B 865
F5.56.21.10	2,5	B 865
F5.56.21.11	2,1	B 865
F5.56.21.12	3,5	B 865
F5.56.22.01	5	B 982
F5.56.22.02	5	B 982
F5.56.22.03	5	B 941
F5.56.22.04	5	B 941
F5.56.22.05	5	B 941
F5.57.11.01	5	B 865
F5.57.12.01	5	B 982
F5.57.12.02	5	B 941
F5.57.21.01	5	B 865
F5.57.22.01	5	B 982
F5.57.22.02	5	B 941
F5.58.11.01	r 5	B 865
F5.58.11.02	r 4	B 865
F5.58.21.01	r 5	B 865
F5.58.21.02	r 4	B 865
F5.59.11.01	5	B 865
F5.59.11.02	5	B 865
F5.59.11.03	5	B 865
F5.59.21.01	5	B 865
F5.59.21.02	5	B 865
F5.59.21.03	5	B 865
F5.60.01.07	5,5	B 865
F5.60.02.08	5,5	B 982
F5.61.11.01	6	B 865
F5.61.21.01	6	B 865
F5.62.12.01	6	B 982
F5.62.22.01	6	B 982
F5.63.12.01	6	B 982
F5.63.22.01	6	B 982
F5.64.11.01	6	B 865
F5.64.21.01	6	B 865
F5.65.12.01	5,5	B 941
F5.65.22.01	5,5	B 941
F5.66.11.01	3	B 865
F5.66.11.02	5	B 865
F5.66.11.03	4	B 865
F5.66.11.04	4	B 865
F5.66.11.05	3	B 865

Inserto	B mm	COD. P.
F5.66.11.06	4	B 865
F5.66.11.07	3	B 865
F5.66.11.08	2,8	B 865
F5.66.11.09	4	B 865
F5.66.11.10	5	B 865
F5.66.12.01	5,5	B 941
F5.66.21.01	3	B 865
F5.66.21.02	5	B 865
F5.66.21.03	4	B 865
F5.66.21.04	4	B 865
F5.66.21.05	3	B 865
F5.66.21.06	4	B 865
F5.66.21.07	3	B 865
F5.66.21.08	2,8	B 865
F5.66.21.09	4	B 865
F5.66.21.10	5	B 865
F5.66.22.01	5,5	B 941
F5.67.11.01	6	B 865
F5.67.12.01	6	B 982
F5.67.21.01	6	B 865
F5.67.22.01	6	B 982
F5.68.01.01	3,4	B 865
F5.68.01.02	6	B 865
F5.68.01.03	3	B 865
F5.68.11.01	6	B 865
F5.68.21.01	6	B 865
F5.69.11.01	3,4	B 865
F5.69.11.02	6	B 865
F5.69.21.01	3,4	B 865
F5.69.21.02	6	B 865
F5.70.01.07	7	B 941
F5.70.01.08	7,5	B 820
F5.76.01.01	7	B 1268
F5.76.11.01	r 3,5	B 941
F5.76.21.01	r 3,6	B 941
F5.77.11.01	7	B 941
F5.77.21.01	7	B 941
F5.80.31.01	3,8	B 941
F5.80.41.01	3,8	B 941
F5.85.11.01	8	B 941
F5.85.21.01	8	B 941
F5.86.00.01	11	B 1040
F5.86.01.02	4,5	B 941
F5.86.01.03	8	B 941
F5.86.11.01	5,6	B 941
F5.86.11.02	6	B 941

Inserto	B mm	COD. P.
F5.86.11.03	5	B 941
F5.86.11.04	6	B 941
F5.86.11.05	5,34	B 941
F5.86.11.06	3,8	B 941
F5.86.11.07	5	B 941
F5.86.11.08	4,2	B 941
F5.86.11.09	r 8	B 941
F5.86.11.10	3	B 941
F5.86.11.11	5	B 941
F5.86.11.12	3,6	B 941
F5.86.11.13	r 4	B 941
F5.86.11.14	6	B 941
F5.86.11.15	6	B 941
F5.86.11.16	5	B 1268
F5.86.11.17	4,32	B 941
F5.86.21.01	5,6	B 941
F5.86.21.02	6	B 941
F5.86.21.03	5	B 941
F5.86.21.04	6	B 941
F5.86.21.05	5,34	B 941
F5.86.21.06	3,8	B 941
F5.86.21.07	5	B 941
F5.86.21.08	4,2	B 941
F5.86.21.09	r 8	B 941
F5.86.21.10	3	B 941
F5.86.21.11	5	B 941
F5.86.21.12	3,6	B 941
F5.86.21.13	r 4	B 941
F5.86.21.14	6	B 941
F5.86.21.15	6	B 941
F5.86.21.16	5	B 1268
F5.86.21.17	4,32	B 941



Settore dentato HW (HM)

INSERTO	B	COD. P.	VITE	COD. P.
F5.30.16.22	3 Dx	B 720	G32.05.013.01 ●	B 440
F5.30.26.23	3 Sx	B 720	G32.05.013.01 ●	B 440
F5.40.06.21	4	B 780	G32.05.013.01 ●	B 440
F5.50.06.24	5	B 940	G32.05.013.01 ●	B 440
F5.60.06.25	6	B 980	G32.05.015.01 ●	B 440

● confezione da 10 pezzi

Settore dentato HW (HM)

INSERTO	B	COD. P.	VITE	COD. P.
F5.88.16.27	6 Dx	B 1280	G32.05.015.01 ●	B 440
F5.88.26.28	6 Sx	B 1280	G32.05.015.01 ●	B 440

● confezione da 10 pezzi

Settore dentato per ferramenta "Euro"

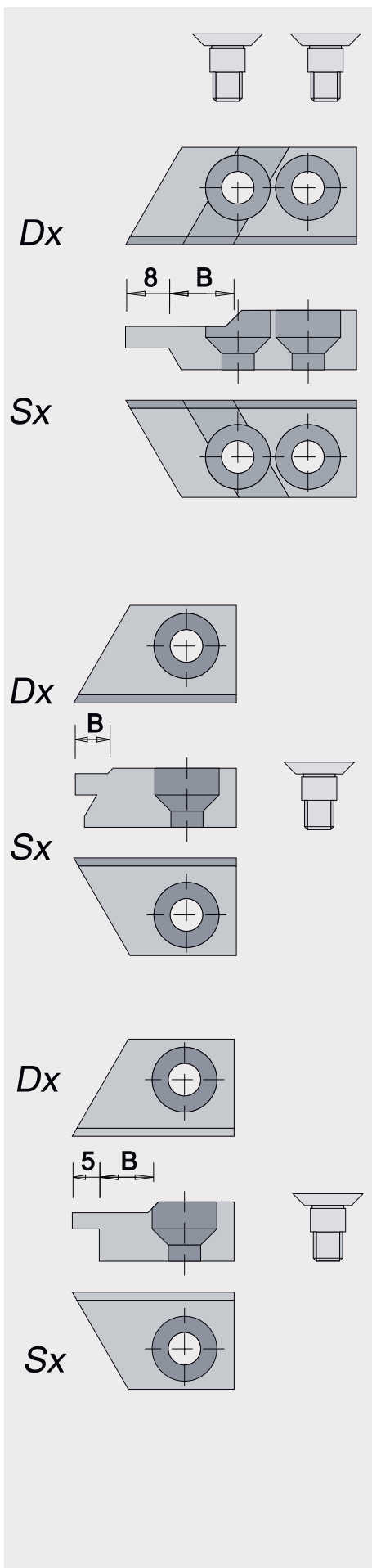
INSERTO	B	COD. P.	VITE	COD. P.
F5.86.06.26	8	B 1440	G32.05.015.01 ●	B 440

● confezione da 10 pezzi

Vite e madrevite per settore dentato

VITE	COD. P.	MADREVITE	COD. P.
G32.04.090.01 ●	B 400	G34.04.070.07 ●	B 560

● confezione da 10 pezzi



Settore dentato HW (HM)

INSERTO	B	COD. P.	VITE	COD. P.
F5.46.1001	12 Dx	B 2800	G32.06.015.01 ●	B 420
F5.46.2001	12 Sx	B 2800	G32.06.015.01 ●	B 420
F5.46.1002	15 Dx	B 2800	G32.06.015.01 ●	B 420
F5.46.2002	15 Sx	B 2800	G32.06.015.01 ●	B 420
F5.46.1003	18 Dx	B 2800	G32.06.015.01 ●	B 420
F5.46.2003	18 Sx	B 2800	G32.06.015.01 ●	B 420

- confezione da 10 pezzi

Settore dentato HW (HM)

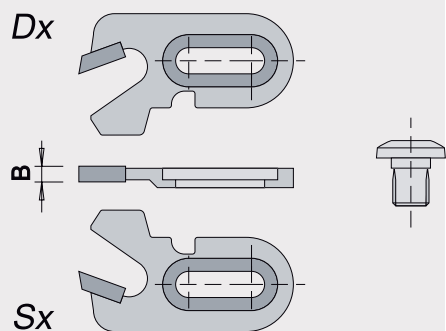
INSERTO	B	COD. P.	VITE	COD. P.
F5.36.1004	7.5 Dx	B 2600	G32.06.015.01 ●	B 420
F5.36.2004	7.5 Sx	B 2600	G32.06.015.01 ●	B 420

- confezione da 10 pezzi

Settore dentato HW (HM)

INSERTO	B	COD. P.	VITE	COD. P.
F5.46.1006	10 Dx	B 2600	G32.06.015.01 ●	B 420
F5.46.2006	10 Sx	B 2600	G32.06.015.01 ●	B 420

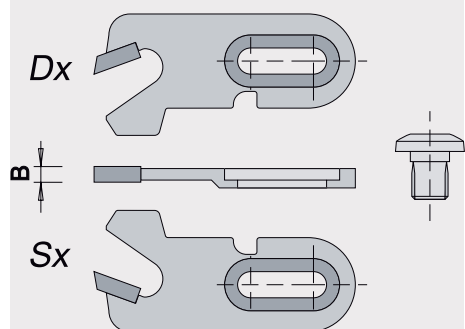
- confezione da 10 pezzi



Settore dentato normale

INSERTO	B	COD. P.	VITE	COD. P.
F5.30.13.03	3 Dx	B 846	G32.05.010.10 ●	B 400
F5.30.23.03	3 Sx	B 846	G32.05.010.10 ●	B 400
F5.40.13.04	4 Dx	B 846	G32.05.010.10 ●	B 400
F5.40.23.04	4 Sx	B 846	G32.05.010.10 ●	B 400
F5.50.13.05	5 Dx	B 846	G32.05.010.10 ●	B 400
F5.50.23.05	5 Sx	B 846	G32.05.010.10 ●	B 400
F5.60.13.06	6 Dx	B 846	G32.05.010.10 ●	B 400
F5.60.23.06	6 Sx	B 846	G32.05.010.10 ●	B 400

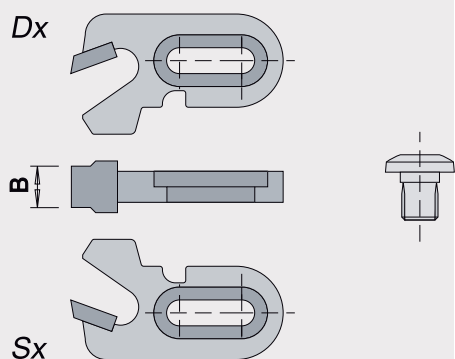
● confezione da 10 pezzi



Settore dentato lungo

INSERTO	B	COD. P.	VITE	COD. P.
F5.40.14.04	4 Dx	B 846	G32.05.010.10 ●	B 400
F5.40.24.04	4 Sx	B 846	G32.05.010.10 ●	B 400
F5.50.14.05	5 Dx	B 846	G32.05.010.10 ●	B 400
F5.50.24.05	5 Sx	B 846	G32.05.010.10 ●	B 400

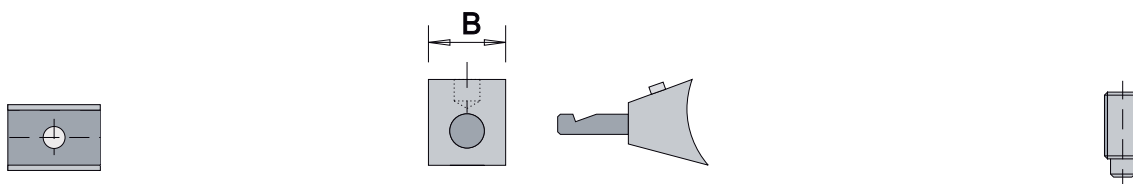
● confezione da 10 pezzi



Settore dentato per ferramenta "Euro"

INSERTO	B	COD. P.	VITE	COD. P.
F5.86.13.08	8 Dx	B 1292	G32.05.010.10 ●	B 400
F5.86.23.08	8 Sx	B 1292	G32.05.010.10 ●	B 400

● confezione da 10 pezzi

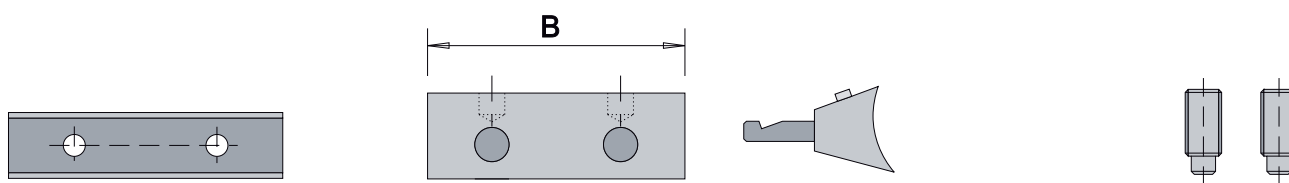


Tasselli con un tirante

INSERTO	B	Compact Fix	Auto Compact Fix	COD. P.	VITE
		TASSELLO	TASSELLO		
F0.65.12.15	5,8	G98.00000.058		B 292	G31.05.018.01
F0.75.12.15	6,8	G98.00000.068		B 292	G31.05.018.01
F0.11.12.15	8,7	G98.00000.087	G99.00000.087	B 292	G31.06.018.00
F0.12.12.15	9,7	G98.00000.097	G99.00000.097	B 292	G31.06.018.00
F0.15.12.15	12,5	G98.00000.125	G99.00000.125	B 298	G31.06.018.00
F0.20.12.15	17,5	G98.00000.175	G99.00000.175	B 298	G31.06.018.00
F0.30.12.15	27,5	G98.00100.275 xx		B 302	G31.06.018.00

xx Tassello in uso fino al 14/02/92.

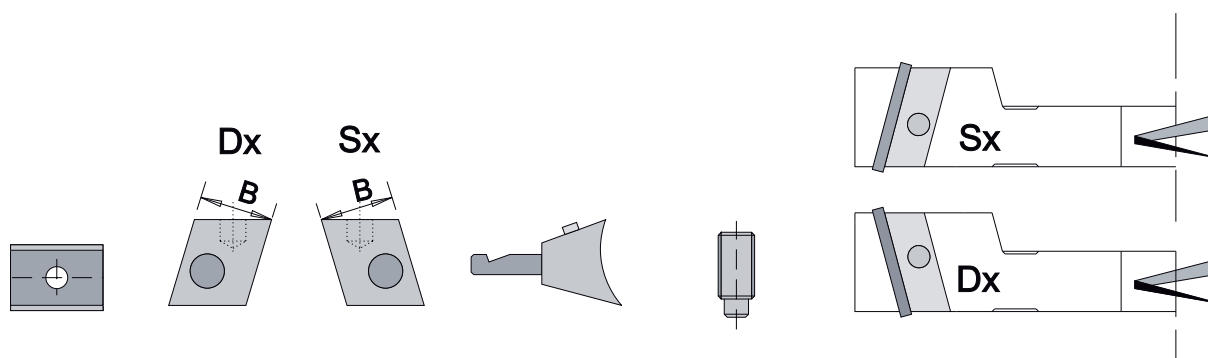
N.B.: per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



Tasselli con due tiranti

INSERTO	B	Compact Fix	Auto Compact Fix	COD. P.	VITE
		TASSELLO	TASSELLO		
F0.30.12.15	27,5	G98.00000.275	G99.00000.275	B 302	G31.06.018.00
F0.40.12.15	37,5	G98.00000.375	G99.00000.375	B 416	G31.06.018.00
F0.50.12.15	47,5	G98.00000.475	G99.00000.475	B 418	G31.06.018.00
F0.60.12.15	57,5	G98.00000.575	G99.00000.575	B 426	G31.06.018.00

N.B.: per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



VITE x1

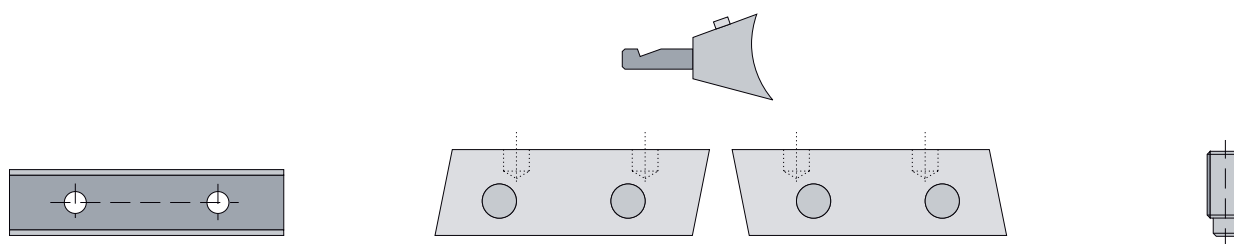
G31.06.018.00

Tasselli con un tirante

INSERTO	B	Compact Fix		Auto Compact Fix		COD. P.
		TASSELLO Dx	TASSELLO Sx	TASSELLO Dx	TASSELLO Sx	
F0.12.12.15	9,5	G98.04R06.095	G98.04L06.095	G99.04R06.095	G99.04L06.095	B 292
F0.15.12.15	12	G98.06R08.120	G98.06L08.120	G99.06R08.120	G99.06L08.120	B 298
F0.20.12.15	17	G98.09R12.170	G98.09L12.170	G99.09R12.170	G99.09L12.170	B 298
F0.30.12.15	26,8	G98.09R12.268	G98.09L12.268 xx			B 302

xx Tassello in uso fino al 14/02/92

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



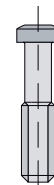
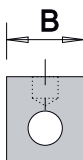
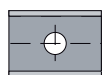
VITE x2

G31.06.018.00

Tasselli con due tiranti

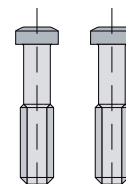
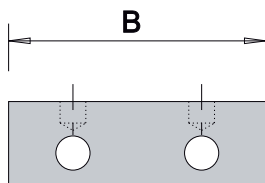
INSERTO	B	Compact Fix		Auto Compact Fix		COD. P.
		TASSELLO Dx	TASSELLO Sx	TASSELLO Dx	TASSELLO Sx	
F0.30.12.15	26,7	G98.09R12.265	G98.09L12.265	G99.09R12.265	G99.09L12.265	B 408
F0.40.12.15	37	G98.06R08.370	G98.06L08.370	G99.06R08.370	G99.06L08.370	B 416
F0.50.12.15	47	G98.06R08.470	G98.06L08.470	G99.06R08.470	G99.06L08.470	B 418
F0.60.12.15	57	G98.03R04.570	G98.03L04.570	G99.03R04.570	G99.03L04.570	B 426

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



Tasselli con un tirante

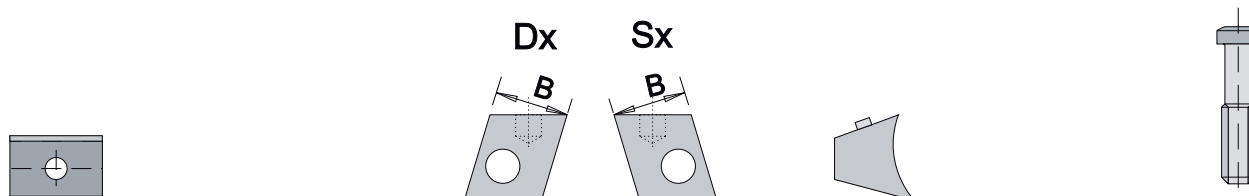
		Euro Compact Fix	Auto Euro Compact Fix		
INSERTO	B	TASSELLO	TASSELLO	COD. P.	VITE
F0.65.12.15	5,8	G08.00000.058		B 252	G38.05.023.01
F0.75.12.15	6,8	G08.00000.068		B 252	G38.05.023.01
F0.11.12.15	8,7	G08.00000.087	G09.00000.087	B 252	G38.05.023.01
F0.12.12.15	9,7	G08.00000.097	G09.00000.097	B 252	G38.05.023.01
F0.15.12.15	12,5	G08.00000.125	G09.00000.125	B 298	G38.05.023.01
F0.20.12.15	17,5	G08.00000.175	G09.00000.175	B 298	G38.05.023.01



Tasselli con due tiranti

		Euro Compact Fix	Auto Euro Compact Fix		
INSERTO	B	TASSELLO	TASSELLO	COD. P.	VITE
F0.30.12.15	27,5	G08.00000.275	G09.00000.275	B 262	G38.05.023.01
F0.40.12.15	37,5	G08.00000.375	G09.00000.375	B 376	G38.05.023.01
F0.50.12.15	47,5	G08.00000.475	G09.00000.475	B 378	G38.05.023.01
F0.60.12.15	57,5	G08.00000.575	G09.00000.575	B 386	G38.05.023.01

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o Cullinised
indicato nelle istruzioni.

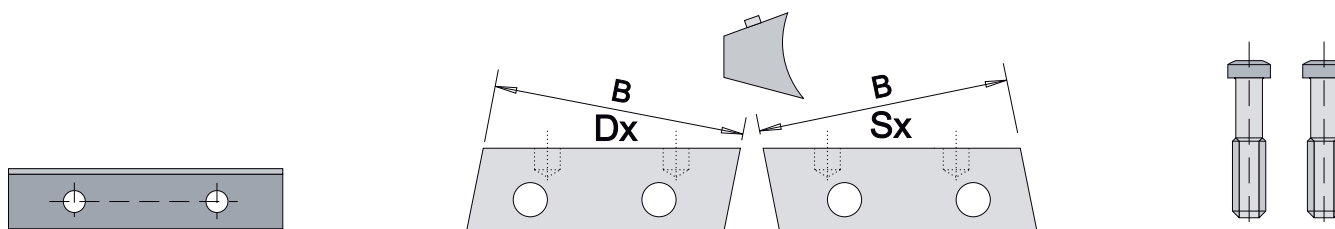


VITE x1

G38.05.023.01

Tasselli con un tirante

INSERTO	B	Euro Compact Fix		Auto Euro Compact Fix		COD. P.
		TASSELLO Dx	TASSELLO Sx	TASSELLO Dx	TASSELLO Sx	
F0.12.12.15	9,5	G08.04R06.095	G08.04L06.095	G09.04R06.095	G09.04L06.095	B 252
F0.15.12.15	12	G08.06R08.120	G08.06L08.120	G09.06R08.120	G09.06L08.120	B 258
F0.20.12.15	17	G08.09R12.170	G08.09L12.170	G09.09R12.170	G09.09L12.170	B 258



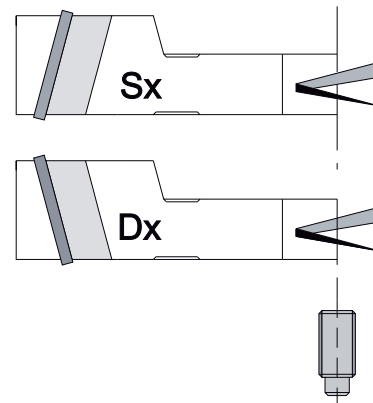
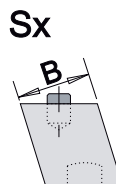
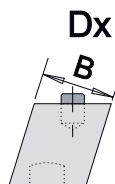
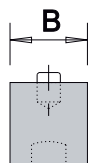
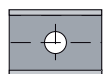
VITE x2

G38.05.023.01

Tasselli con due tiranti

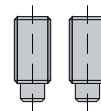
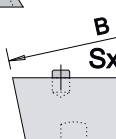
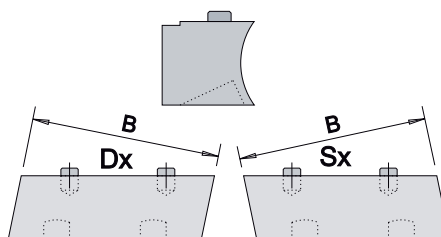
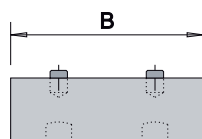
INSERTO	B	Euro Compact Fix		Auto Euro Compact Fix		COD. P.
		TASSELLO Dx	TASSELLO Sx	TASSELLO Dx	TASSELLO Sx	
F0.30.12.15	26,7	G08.09R12.265	G08.09L12.265	G09.09R12.265	G09.09L12.265	B 368
F0.40.12.15	37	G08.06R08.370	G08.06L08.370	G09.06R08.370	G09.06L08.370	B 376
F0.50.12.15	47	G08.06R08.470	G08.06L08.470	G09.06R08.470	G09.06L08.470	B 378
F0.60.12.15	57	G08.03R04.570	G08.03L04.570	G09.03R04.570	G09.03L04.570	B 386

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



Tasselli con una vite

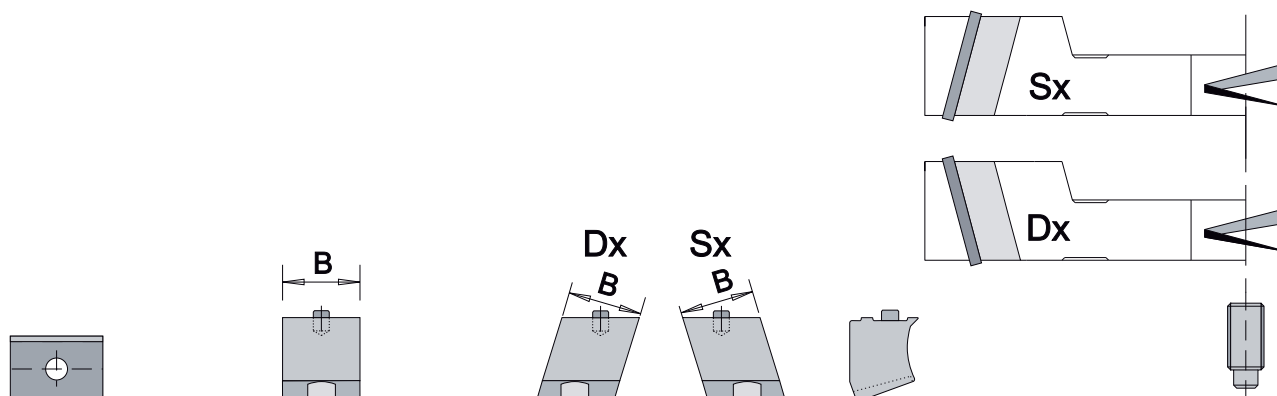
INSERTO	B	Senza inclinazione	Con inclinazione assiale		COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.75.12.15	6.8	G01.00000.068			B 144	G31.05.016.02
F0.11.12.15	8.7	G01.00000.087			B 144	G31.05.016.02
F0.12.12.15	9.7	G01.00000.097			B 144	G31.06.016.04
F0.15.12.15	12.5	G01.00000.125	G01.05R00.125	G01.05L00.125	B 150	G31.08.016.06
F0.20.12.15	17.5	G01.00000.175	G01.10R00.175	G01.10L00.175	B 150	G31.08.016.06



Tasselli con due viti

INSERTO	B	Senza inclinazione	Con inclinazione assiale		COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.30.12.15	27.5	G01.00000.275	G01.10R00.275	G01.10L00.275	B 156	G31.08.016.06
F0.40.12.15	37.5	G01.00000.375	G01.10R00.375	G01.10L00.375	B 162	G31.08.016.06
F0.50.12.15	47.5	G01.00000.475	G01.10R00.475	G01.10L00.475	B 164	G31.08.016.06
F0.60.12.15	57.5	G01.00000.575	G01.05R00.575	G01.05L00.575	B 172	G31.08.016.06

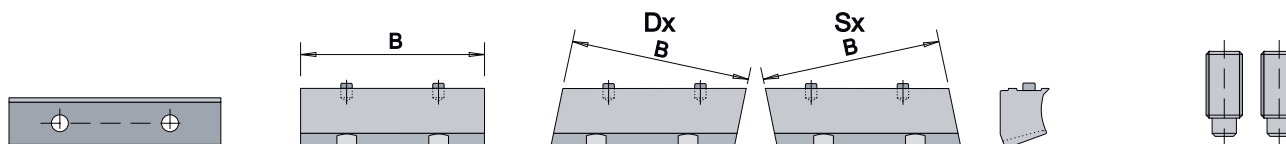
NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



Tasselli con una vite

INSERTO	B	Senza inclinazione	Con inclinazione assiale		COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.75.12.15	6.8	G03.00000.068			B 144	M5 x
F0.95.12.15	8.7	G03.00000.087			B 144	M5 x
F0.11.12.15	9.7	G03.00000.097			B 144	M6 x
F0.12.12.15	9.7	G03.00000.097			B 144	M6 x
F0.15.12.15	12.5	G03.00000.125	G03.05R00.125	G03.05L00.125	B 150	M8 x
F0.20.12.15	17.5	G03.00000.175	G03.08R00.175	G03.08L00.175	B 150	M8 x

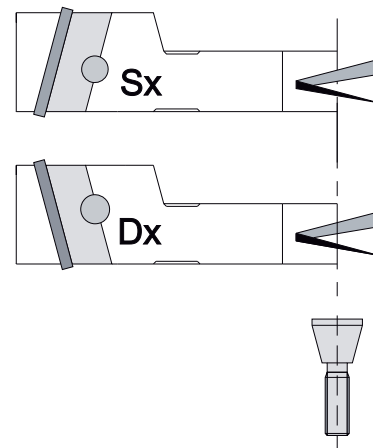
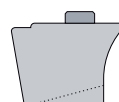
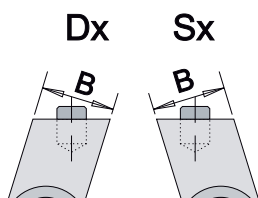
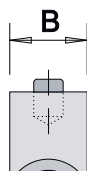
x La lunghezza della vite (grano) varia a seconda del diametro della fresa, vedere tabella viti di Fissaggio G31.



Tasselli con due viti

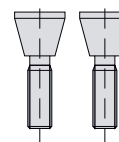
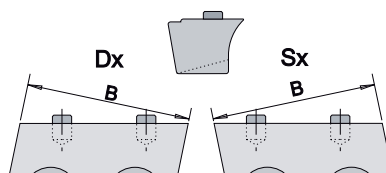
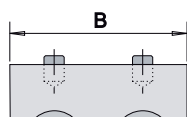
INSERTO	B	Senza inclinazione	Con inclinazione assiale		COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.30.12.15	27.5	G03.00000.275	G03.08R00.275	G03.08L00.275	B 156	M8 x
F0.40.12.15	37.5	G03.00000.375	G03.08R00.375	G03.08L00.375	B 164	M8 x
F0.50.12.15	47.5	G03.00000.475	G03.08R00.475	G03.08L00.475	B 172	M8 x
F0.60.12.15	57,5	G03.00000.575	G03.08R00.575	G03.08L00.575	B 180	M8 x

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



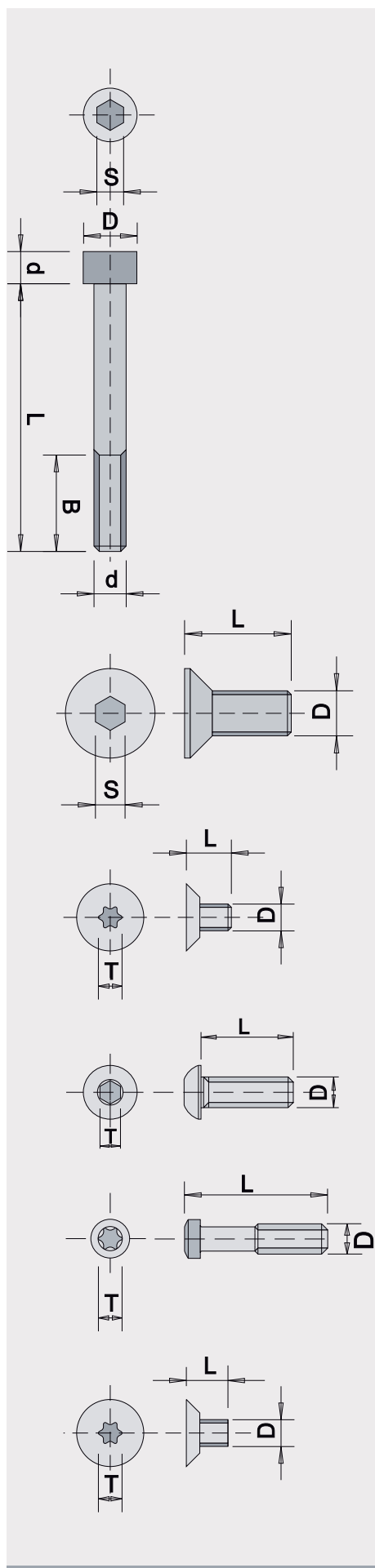
Tasselli con una vite

INSERTO	B	Senza inclinazione			COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.75.12.15	6.8	G04.00000.068 *			B 208	G38.05.020.04
F0.95.12.15	8.7	G04.00000.087 *			B 208	G38.05.020.04
F0.11.12.15	9.7	G04.00000.097 *			B 208	G38.05.020.04
F0.12.12.15	9.7	G04.00000.097 *	G04.05R00.097	G04.05L00.097	B 208	G38.05.020.04
F0.15.12.15	12.5	G04.00000.125 *	G04.05R00.125	G04.05L00.125	B 216	G38.06.020.05
F0.20.12.15	17.5	G04.00000.175 *	G04.10R00.175	G04.10L00.175	B 216	G38.06.020.05



INSERTO	B	Senza inclinazione			COD. P.	VITE
		TASSELLO	TASSELLO Dx	TASSELLO Sx		
F0.30.12.15	27.5	G04.00000.275	G04.10R00.275	G04.10L00.275	B 222	G38.06.020.05
F0.40.12.15	37.5	G04.00000.375			B 226	G38.06.020.05
F0.50.12.15	47.5	G04.00000.475			B 232	G38.06.020.05
F0.60.12.15	57.5	G04.00000.575			B 236	G38.06.020.05

NB. Per ordinare i tasselli delle placchette non indicate in questa pagina è necessario comunicare il codice SC... o C... inciso sulla fresa ed indicato nelle istruzioni.



Viti testa cilindrica DIN912 - Tiranti

D	L	S	CODICE	COD. P.
M6	40	5	G30.10.040.07 ●	B 40
M6	45	5	G30.10.045.17 ●	B 40
M6	50	5	G30.10.050.08 ●	B 40
M6	55	5	G30.10.055.09 ●	B 50
M6	60	5	G30.10.060.10 ●	B 50
M6	65	5	G30.10.065.11 ●	B 100
M6	70	5	G30.10.070.12 ●	B 100
M6	75	5	G30.10.075.13 ●	B 110
M6	80	5	G30.10.080.14 ●	B 150
M6	85	5	G30.10.085.18 ●	B 150
M6	90	5	G30.10.090.05 ●	B 150
M6	95	5	G30.10.095.19 ●	B 150
M6	100	5	G30.10.100.15 ●	B 250
M6	110	5	G30.10.110.06 ●	B 356
M6	120	5	G30.10.120.16 ●	B 390

Viti testa svasata piana DIN7991

D	L	S	CODICE	COD. P.
M4	10	2,5	G30.04.010.01 ●	B 40
M5	10	3	G30.05.010.01 ●	B 40
M5	25	3	G30.05.025.02 ●	B 40
M6	15	4	G30.06.015.03 ●	B 40
M6	25	4	G30.06.025.04 ●	B 60

Viti per incisori e settori dentati

D	L	T	CODICE	COD. P.
M4	6.7	T20	G32.04.067.01 ●	B 400
M4	9	T20	G32.04.090.01 ●	B 400
M4	11	T20	G32.04.110.01 ●	B 400
M4	9.5	T20	G32.04.009.01 ●	B 400
M5	7	T20	G32.05.007.03 ●	B 400

Vite per fissaggio sagomato Magister

D	L	S	CODICE	COD. P.
M6	25	4	G30.10.025.01 ●	B 320

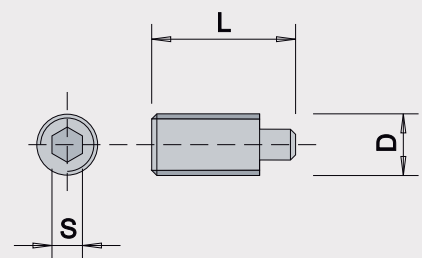
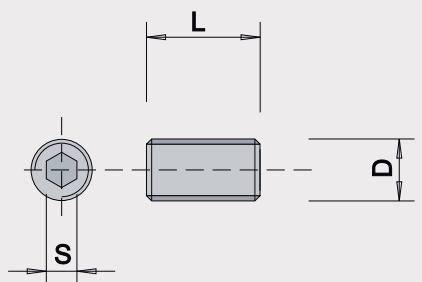
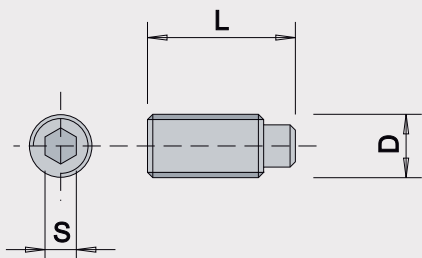
Vite per fissaggio Euro Compact-Fix

D	L	T	CODICE	COD. P.
M5	23	T20	G38.05.023.01 ●	B 460

Viti per madreviti (lame)

D	L	T	CODICE	COD. P.
M4	3.2	T9	G32.04.032.11 ●	B 480
M4	4	T9	G32.04.040.11 ●	B 680

● confezione da 10 pezzi



Grani a punta cilindrica DIN 915

D	L	S	CODICE	COD. P.
M5	8	2.5	G31.05.008.02 ●	B 40
M5	16	2.5	G31.05.016.02 ●	B 70
M5	18	2.5	G31.05.018.01 ●	B 70
M5	20	2.5	G31.05.020.01 ●	B 70
M5	25	2.5	G31.05.025.01 ●	B 80
M5	30	2.5	G31.05.030.01 ●	B 90
M5	35	2.5	G31.05.035.01 ●	B 120
M6	12	3	G31.06.012.01 ●	B 40
M6	16	3	G31.06.016.04 ●	B 40
M6	18	3	G31.06.018.00 ●	B 40
M6	20	3	G31.06.020.01 ●	B 60
M6	25	3	G31.06.025.01 ●	B 60
M6	30	3	G31.06.030.01 ●	B 90
M6	35	3	G31.06.035.01 ●	B 110
M8	12	4	G31.08.012.05 ●	B 60
M8	16	4	G31.08.016.06 ●	B 60
M8	20	4	G31.08.020.07 ●	B 80
M8	25	4	G31.08.025.08 ●	B 80
M8	30	4	G31.08.030.01 ●	B 120
M8	35	4	G31.08.035.01 ●	B 120
M10	20	5	G31.10.020.01 ●	B 120
M10	25	5	G31.10.025.01 ●	B 120
M10	30	5	G31.10.030.01 ●	B 120

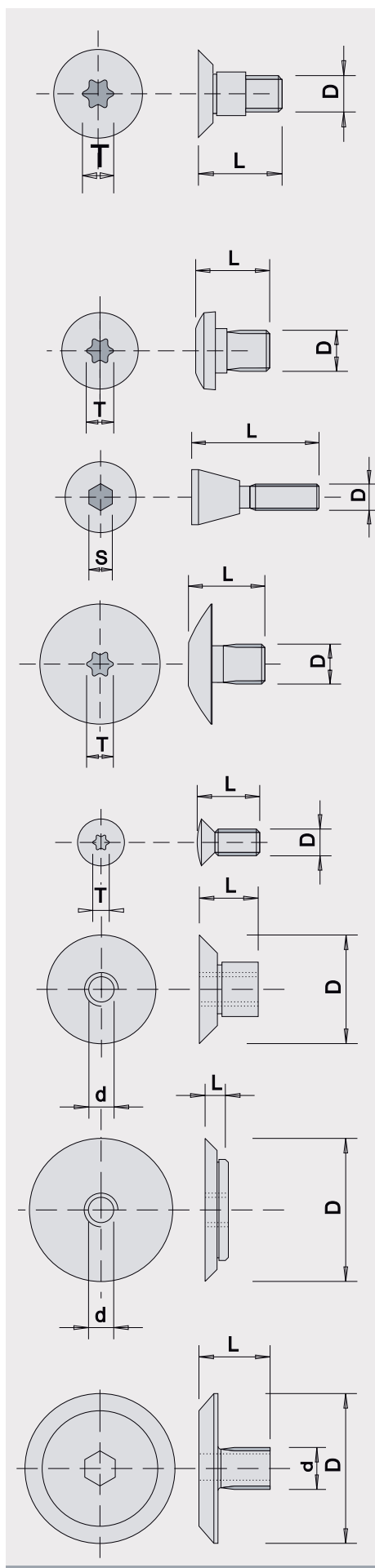
Grani testa piana DIN 913

D	L	S	CODICE	COD. P.
M4	4	2	G31.04.040.01 ●	B 60
M6	6	3	G31.06.060.01 ●	B 60
M6	14	3	G31.06.014.01 ●	B 60

Grano per spigolatore registrabile

D	L	S	CODICE	COD. P.
M6	16.5	3	G31.06.016.05 ●	B 140

- confezione da 10 pezzi



Viti per raggianti e settori dentati

D	L	T	CODICE	COD. P.
M5	11.5	T20	G32.05.012.04 ●	B 400
M5	12.5	T20	G32.05.013.01 ●	B 440
M5	13.5	T20	G32.05.014.05 ●	B 440
M5	14.5	T20	G32.05.015.01 ●	B 440
M6	14	T20	G32.06.014.01 ●	B 440
M6	15.5	T20	G32.06.015.01 ●	B 420

Viti per settori dentati "BG"

D	L	T	CODICE	COD. P.
M5	9	T20	G32.05.010.10 ●	B 400

Viti testa conica per fissaggio frontale

D	L	S	CODICE	COD. P.
M5	20	3	G38.05.020.04 ●	B 420
M6	22	5	G38.06.020.05 ●	B 480

Viti per coltellini (pantografo)

D	L	T	CODICE	COD. P.
M4	8,2	T15	G32.04.006.02 ●	B 640

Viti per spigolatore raggianto

D	L	T	CODICE	COD. P.
M4	11.2	T15	G32.04.010.09 ●	B 320

Madreviti per settori dentati e raggianti

d	L	D	CODICE	COD. P.
M4	7	9	G34.04.070.07 ●	B 560
M4	7	10	G34.04.070.06 ●	B 560
M4	7	10	G34.04.070.05 ●	B 560

Madreviti per lame

d	L	D	CODICE	COD. P.
M4	1.6	9.9	G34.04.015.01 ●	B 460
M4	2.2	11.9	G34.04.023.02 ●	B 540
M4	2.7	11.9	G34.04.027.03 ●	B 540
M4	3.2	11.9	G34.04.032.04 ●	B 540

Fermi di riferimento ins. sagomati

d	D	L	CODICE	COD. P.
M6	14	7	G38.06.014.02 ●	B 600
M6	18	7	G38.06.018.03 ●	B 720

● confezione da 10 pezzi



Chiave esagonale a "T"

S	TIPO	CODICE	COD. P.
2,5	lungo	G36.25.077.21	B 78
3	corto	G36.03.030.01	B 76
3	lungo	G36.03.092.22	B 80
4	corto	G36.04.030.01	B 78
4	lungo	G36.04.120.23	B 86
5	corto	G36.05.040.11	B 80

Chiave esagonale a "L" DIN6911

S	CODICE	COD. P.
2,5	G36.25.060.01	B 52
3	G36.03.065.02	B 52
4	G36.04.072.03	B 52
5	G36.05.080.04	B 68
6	G36.06.095.05	B 78

Chiave "TORX" a "T"

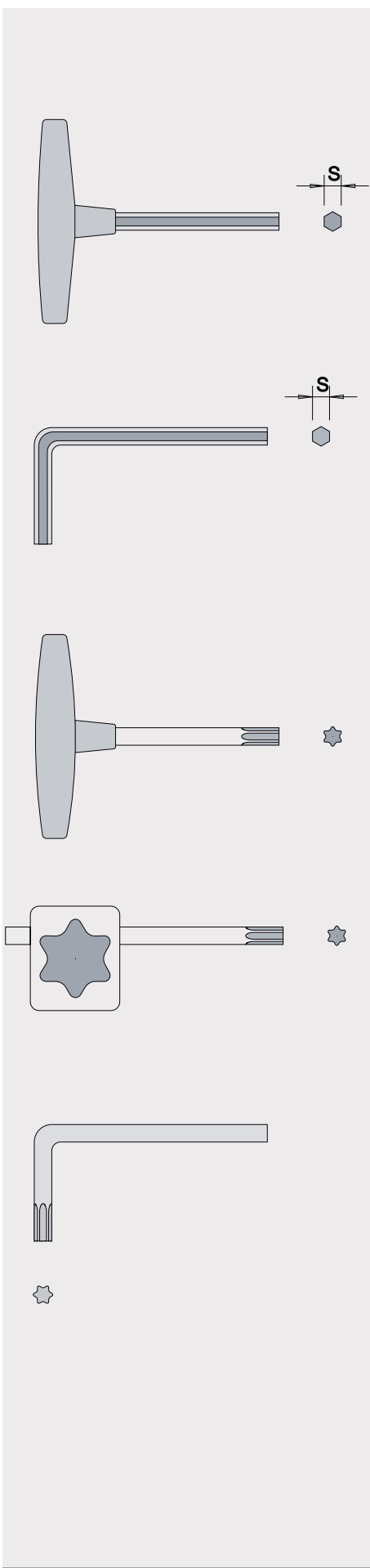
IMPRONTA	CODICE	COD. P.
TORX T9	G37.09.095.13	B 286
TORX T15	G37.15.140.03	B 308
TORX T20	G37.20.140.04	B 328

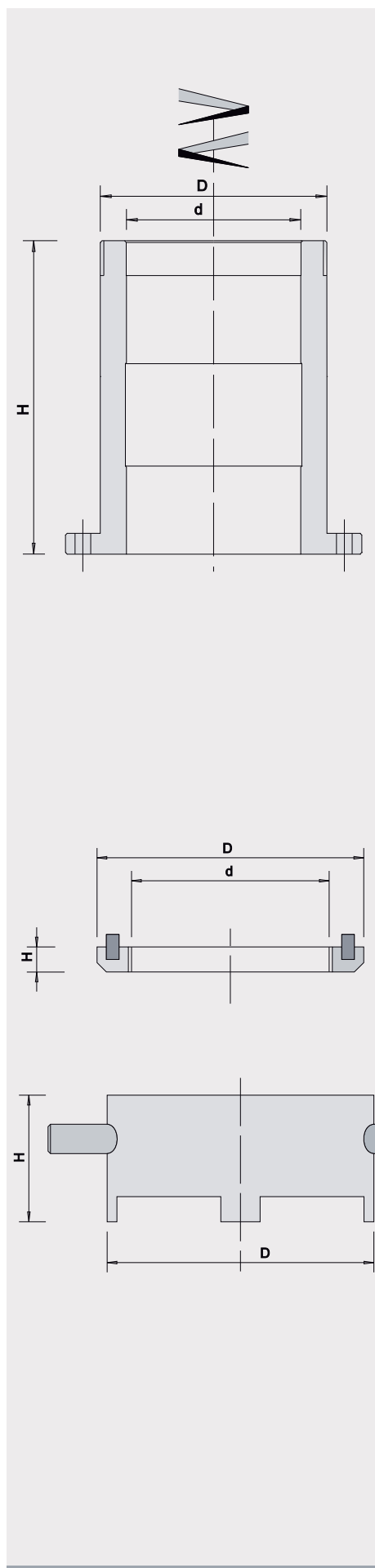
Chiave "TORX" a bandiera

IMPRONTA	CODICE	COD. P.
TORX T9	G37.09.042.11	B 104
TORX T15	G37.15.045.05	B 116
TORX T20	G37.20.049.06	B 116

Chiave "TORX" a "L"

IMPRONTA	CODICE	COD. P.
TORX T15	G37.15.050.02	B 70
TORX T20	G37.20.053.03	B 70





Mozzo filettato foro 50

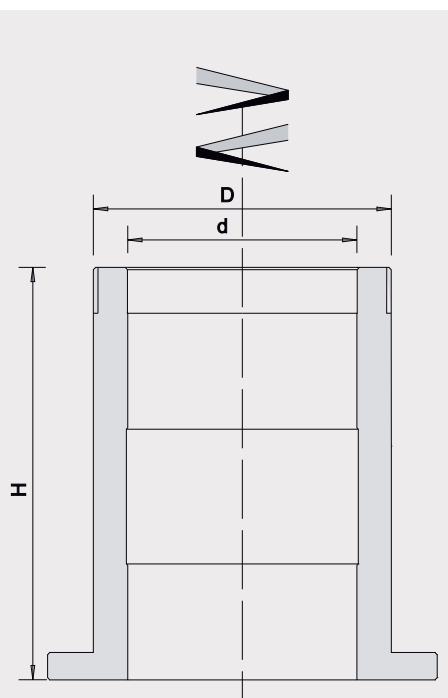
D	d	H	Rot.	CODICE	COD. P.
M58	50	50	Dx	G10.50.58.050	B 1050
M58	50	55	Dx	G10.50.58.055	B 1092
M58	50	60	Dx	G10.50.58.060	B 1114
M58	50	65	Dx	G10.50.58.065	B 1142
M58	50	70	Dx	G10.50.58.070	B 1180
M58	50	75	Dx	G10.50.58.075	B 1220
M58	50	80	Dx	G10.50.58.080	B 1270
M58	50	85	Dx	G10.50.58.085	B 1298
M58	50	90	Dx	G10.50.58.090	B 1350
M58	50	100	Dx	G10.50.58.100	B 1372
M65	50	50	Dx	G10.50.65.050	B 1012
M65	50	55	Dx	G10.50.65.055	B 1038
M65	50	60	Dx	G10.50.65.060	B 1092
M65	50	65	Dx	G10.50.65.065	B 1092
M65	50	70	Dx	G10.50.65.070	B 1166
M65	50	75	Dx	G10.50.65.075	B 1166
M65	50	80	Dx	G10.50.65.080	B 1166
M65	50	85	Dx	G10.50.65.085	B 1166
M65	50	90	Dx	G10.50.65.090	B 1166
M65	50	90	Sx	G10S50.65.090	B 1298
M65	50	100	Dx	G10.50.65.100	B 1298
M65	50	110	Dx	G10.50.65.110	B 1298
M65	50	120	Dx	G10.50.65.120	B 1400

Ghiera con pioli anti svitamento

D	d	H	Rot.	CODICE	COD. P.
76	M58	8	Dx	G35.58.76.1108	B 520
76	M58	8	Sx	G35.58.76.2108	B 520
85	M65	8	Dx	G35.65.85.1108	B 520
85	M65	8	Sx	G35.65.85.2108	B 520

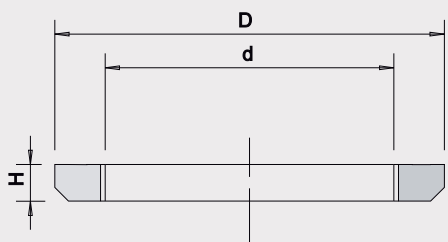
Chiave di assaggio per ghiera

D	H	GHIERA	CODICE	COD. P.
76	55	M58	G39.76.055.01	B 1092
85	55	M65	G39.85.055.01	B 1092



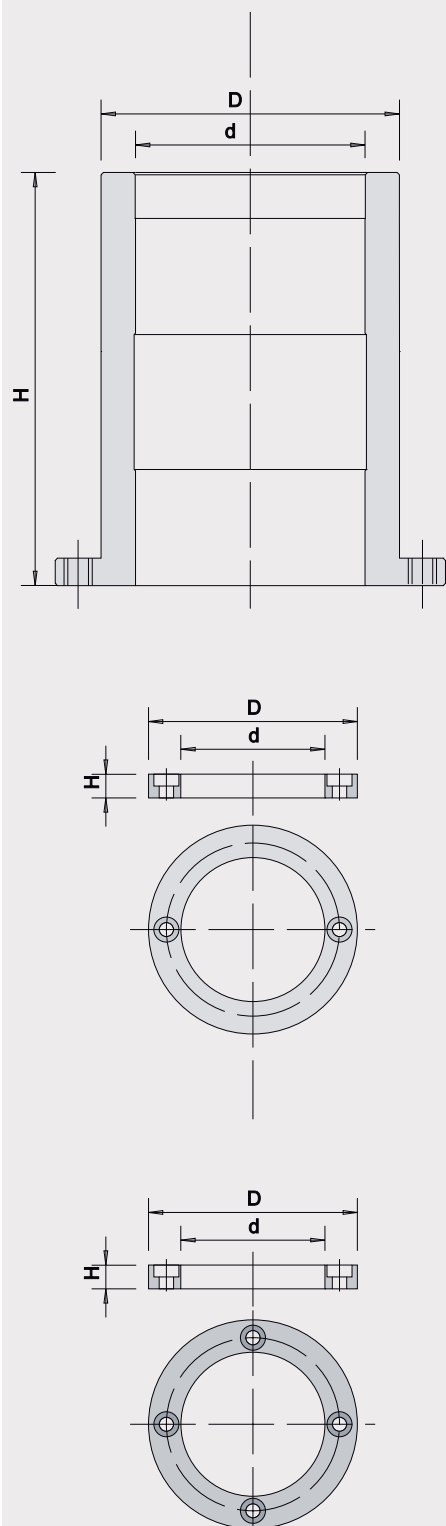
Mozzo filettato foro 30/35/40

D	d	H	Rot.	CODICE	COD. P.
M58	35	90	Dx	G10.35.58.090	B 1350
M58	35	100	Dx	G10.35.58.100	B 1372
M58	40	90	Dx	G10.40.58.090	B 1350
M58	40	100	Dx	G10.40.58.100	B 1372
M65	30	90	Dx	G10.30.65.090	B 1428
M65	30	100	Dx	G10.30.65.100	B 1556
M65	35	90	Dx	G10.35.65.090	B 1426
M65	35	90	Sx	G10S35.65.090	B 1556
M65	35	100	Dx	G10.35.65.100	B 1556
M65	40	90	Dx	G10.40.65.090	B 1428
M65	40	90	Sx	G10S40.65.090	B 1662
M65	40	100	Dx	G10.40.65.100	B 1662



Ghiera per gruppi singoli

D	d	H	Rot.	CODICE	COD. P.
76	M58	8	Dx	G35.58.76.1008	B 360
76	M58	8	Sx	G35.58.76.2008	B 360
85	M65	8	Dx	G35.65.85.1008	B 360
85	M65	8	Sx	G35.65.85.2008	B 360
85	M65	5	Dx	G35.65.85.1005	B 360
85	M65	5	Sx	G35.65.85.2005	B 360



Mozzo con fori filettati per tiranti

D	d	H	CODICE	COD. P.
48	40	85	G13.40.48.085	B 1166
48	40	102	G13.40.48.102	B 1304
58	50	90	G16.50.58.090	B 1166
58	50	100	G16.50.58.100	B 1304
58	50	112	G16.50.58.112	B 1350

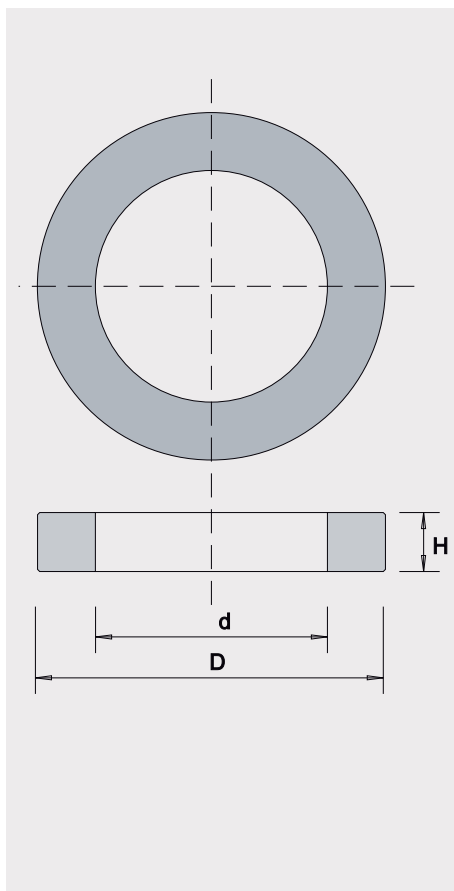
Ghiera per tiranti con due fori

D	d	H	CODICE	COD. P.
75	48	10	G35.48.75.0210	B 382
85	58	10	G35.58.84.0210	B 378

Ghiera per tiranti con quattro fori

D	d	H	CODICE	COD. P.
75	48	10	G35.48.75.0410	B 448
85	58	10	G35.58.84.0410	B 444

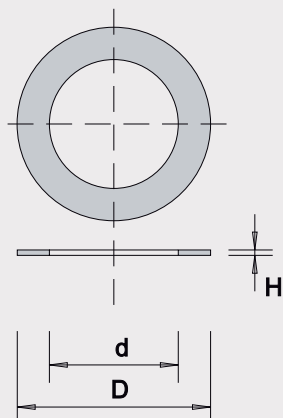
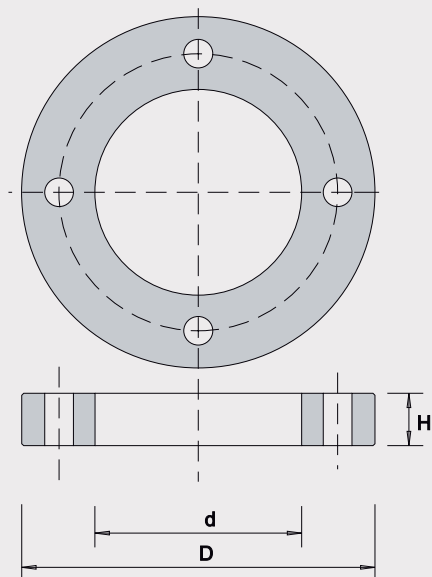
NB - Per i tiranti vedi le viti a testa cilindrica G30.10... pag. 27.



D	d	H	CODICE	COD. P.
63	30	0,1	G20.30.63.001 ●	B 220
63	30	0,3	G20.30.63.003 ●	B 220
63	30	1	G20.30.63.010 ●	B 200
65	30	4	G20.30.65.040	B 226
65	30	6	G20.30.65.060	B 234
65	30	10	G20.30.65.100	B 258
63	35	0,1	G20.35.63.001 ●	B 160
63	35	0,3	G20.35.63.003 ●	B 140
63	35	1	G20.35.63.010 ●	B 140
65	35	4	G20.35.65.040	B 226
65	35	6	G20.35.65.060	B 234
65	35	10	G20.35.65.100	B 258
63	40	0,1	G20.40.63.001 ●	B 160
63	40	0,3	G20.40.63.003 ●	B 140
63	40	1	G20.40.63.010 ●	B 140
65	40	4	G20.40.65.040	B 226
65	40	6	G20.40.65.060	B 234
65	40	10	G20.40.65.100	B 258

D	d	H	CODICE	COD. P.
70	50	0,1	G20.50.70.001 ●	B 160
70	50	0,3	G20.50.70.003 ●	B 140
70	50	1	G20.50.70.010 ●	B 140
70	50	3	G20.50.70.030	B 226
70	50	4	G20.50.70.040	B 226
70	50	5	G20.50.70.050	B 234
70	50	8	G20.50.70.080	B 258
70	50	10	G20.50.70.100	B 258
75	58	0,1	G20.58.75.001 ●	B 100
75	58	0,3	G20.58.75.003 ●	B 100
75	58	1	G20.58.75.010 ●	B 100
75	58	3	G20.58.75.030	B 222
75	58	4	G20.58.75.040	B 224
75	58	5	G20.58.75.050	B 228
75	58	6	G20.58.75.060	B 234
75	58	8	G20.58.75.080	B 248
75	58	10	G20.58.75.100	B 258
75	58	12	G20.58.75.120	B 258
75	58	14	G20.58.75.140	B 272
75	58	16	G20.58.75.160	B 286
75	58	20	G20.58.75.200	B 286
75	58	24	G20.58.75.240	B 312
75	58	27	G20.58.75.270	B 324
80	60	0,1	G20.60.80.001 ●	B 140
80	60	0,3	G20.60.80.003 ●	B 120
80	60	1	G20.60.80.010 ●	B 100
85	65	0,1	G20.65.85.001 ●	B 140
85	65	0,3	G20.65.85.003 ●	B 120
85	65	1	G20.65.85.010 ●	B 120
85	65	3	G20.65.85.030	B 226
85	65	4	G20.65.85.040	B 234
85	65	5	G20.65.85.050	B 238
85	65	6	G20.65.85.060	B 248
85	65	8	G20.65.85.080	B 258
85	65	10	G20.65.85.100	B 264
85	65	12	G20.65.85.120	B 280
85	65	14	G20.65.85.140	B 288
85	65	16	G20.65.85.160	B 298
85	65	20	G20.65.85.200	B 318
85	65	24	G20.65.85.240	B 332
85	65	27	G20.65.85.270	B 352

● confezione da 10 pezzi



Distanziale forato

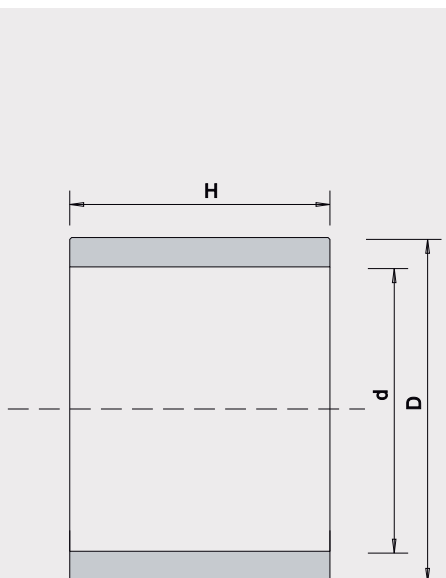
D	d	H	CODICE	COD. P.
70	48	0,1	G21.48.70.001 ●	B 100
70	48	0,3	G21.48.70.003 ●	B 120
70	48	1	G21.48.70.010 ●	B 100
70	48	3	G21.48.70.030	B 248
70	48	4	G21.48.70.040	B 252
70	48	5	G21.48.70.050	B 258
70	48	6	G21.48.70.060	B 264
70	48	8	G21.48.70.080	B 272
70	48	10	G21.48.70.100	B 292
70	48	12	G21.48.70.120	B 304
70	48	14	G21.48.70.140	B 316
70	48	16	G21.48.70.160	B 324
70	48	20	G21.48.70.200	B 364
80	58	0,1	G21.58.80.001 ●	B 140
80	58	0,3	G21.58.80.003 ●	B 120
80	58	1	G21.58.80.010 ●	B 100
80	58	3	G21.58.80.030	B 248
80	58	4	G21.58.80.040	B 260
80	58	5	G21.58.80.050	B 260
80	58	6	G21.58.80.060	B 264
80	58	8	G21.58.80.080	B 280
80	58	10	G21.58.80.100	B 286
80	58	12	G21.58.80.120	B 306
80	58	14	G21.58.80.140	B 318
80	58	16	G21.58.80.160	B 328
80	58	20	G21.58.80.200	B 358
80	58	24	G21.58.80.240	B 378
80	58	27	G21.58.80.270	B 390
85	40	5	G21.40.85.050	B 332
85	50	5	G21.50.85.050	B 322

● confezione da 10 pezzi

Distanziale per spigolatori

D	d	H	CODICE	COD. P.
14	7	0,1	G22.07.14.001 ●	B 60
14	7	0,3	G22.07.14.003 ●	B 60

● confezione da 10 pezzi



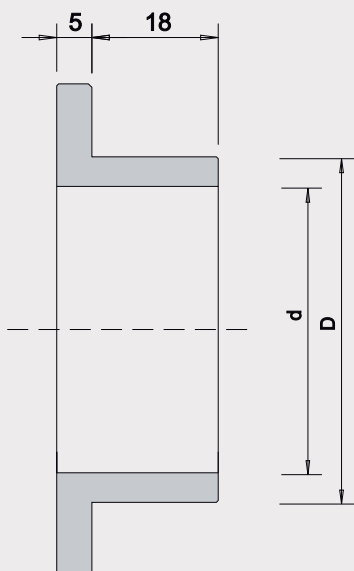
Riduzioni cilindriche

D	d	L	CODICE	COD. P.
30	25	88	G17.25.30.088	B 908
30	25	98	G17.25.30.098	B 960
35	30	88	G17.30.35.088	B 908
35	30	98	G17.30.35.098	B 960
35	30	110	G17.30.35.110	B 1038
40	30	88	G17.30.40.088	B 908
40	30	98	G17.30.40.098	B 960
40	30	110	G17.30.40.110	B 1038
40	35	88	G17.35.40.088	B 908
40	35	98	G17.35.40.098	B 960
40	35	110	G17.35.40.110	B 1038
50	30	88	G17.30.50.088	B 908
50	30	98	G17.30.50.098	B 960
50	30	110	G17.30.50.110	B 1038
50	35	88	G17.35.50.088	B 908
50	35	98	G17.35.50.098	B 960
50	35	110	G17.35.50.110	B 1038
50	40	88	G17.40.50.088	B 908
50	40	98	G17.40.50.098	B 960
50	40	110	G17.40.50.110	B 1038

Riduzioni con battuta

D	d	CODICE	COD. P.
30	25	G18.25.30.018	B 688
35	25	G18.25.35.018	B 688
35	30	G18.30.35.018	B 688
40	25	G18.25.40.018	B 688
40	30	G18.30.40.018	B 688
40	35	G18.35.40.018	B 688
50	30	G18.30.50.018	B 688
50	35	G18.35.50.018	B 688
50	40	G18.40.50.018	B 688

N.B.: per un gruppo frese sono necessarie due riduzioni con battuta.





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B 724	12/12	B2105.125E2	5/6	B2507.130C4	11/5	B2709.125C2	4/15
B 786	12/12	B2105.130C2	5/6	B2507.130E2	11/5	B2709.125C2	4/15
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B1413.300C2	11/5	B2106.130C2	5/6	B2508.130C2	11/9	B2710.160E4	4/17
B1413.300C3	11/5	B2106.130C4	5/6	B2508.130C4	11/11	B2712.125C2	4/15
B1413.300E2	11/5	B2106.130E2	5/6	B2508.130C4	11/7	B2712.125E2	4/15
B1413.300E3	11/5	B2106.130E4	5/6	B2508.130C4	11/9	B2712.160E4	4/17
B1414.300C2	11/5	B2209.130C2	11/5	B2508.130E2	11/11	B2714.125C2	4/15
B1414.300C3	11/5	B2209.130C4	11/5	B2508.130E2	11/7	B2714.125E2	4/15
B1414.300E2	11/5	B2209.130E2	11/5	B2508.130E2	11/9	B2714.160E4	4/17
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B1501.320E2	5/17	B2238.080C2	9/8	B2508.160C4	11/11	B2716.125C2	4/15
B1501.320E3	5/17	B2238.130C2	9/4	B2508.160C4	11/7	B2716.125E2	4/15
B1504.300C2	11/7	B2261.080C2	9/7	B2508.160C4	11/9	B2716.160E4	4/17
B1504.300C3	11/7	B2261.130C2	9/3	B2508.160E4	11/11	B2717.125C2	4/15
B1504.300E2	11/7	B2262.130C2	9/3	B2508.160E4	11/7	B2717.125C2	4/15
B1504.300E3	11/7	B2430.160C2	4/18	B2508.160E4	11/9	B2717.160C4	4/17
B1505.300C2	11/9	B2433.160C2	4/18	B2555.130C2	11/7	B2718.125C2	4/15
B1505.300C3	11/9	B2480.130C2	11/15	B2555.130C4	11/7	B2718.125E2	4/15
B1505.300E2	11/9	B2481.130C2	11/15	B2555.130E2	11/7	B2718.160E4	4/17
B1505.300E3	11/9	B2482.130C2	11/3	B2555.130E4	11/7	B2719.125C2	4/15
B1606.300C2	11/7	B2483.130C2	11/3	B2555.160C4	11/7	B2719.125C2	4/15
B1606.300C2	11/9	B2484.300C2	11/3	B2555.160E4	11/7	B2719.160C4	4/17
B1606.300C3	11/7	B2492.130C2	11/16	B2705.125C2	5/6	B2720.160E4	4/17
B1606.300C3	11/9	B2492.130C4	11/16	B2705.125E2	5/6	B2721.160C4	4/17
B1606.300E2	11/7	B2492.130E2	11/16	B2705.130C2	5/6	B2721.160C4	4/17
B1606.300E2	11/9	B2492.130E4	11/16	B2705.130C4	5/6	B2722.160E4	4/17
B1606.300E3	11/7	B2492.160C4	11/16	B2705.130E2	5/6	B2723.160C4	4/17
B1606.300E3	11/9	B2492.160E4	11/16	B2705.130E4	5/6	B2724.160E4	4/17
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B1903.320C3	5/17	B2493.130C4	11/16	B2706.125S2	11/14	B2726.160E4	4/17
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B1904.320C3	5/10	B2493.160E4	11/16	B2706.160S4	11/14	B2729.125C2	4/13
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B2732.125E2	4/13	B2951.125D2	11/14	B3120.130E2	5/15	B3429.130C4	11/12
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B2862.180D3	4/4	B2961.160E4	5/17	B3308.130E4	11/5	B3478.160D4	11/13
B2862.300D3	4/4	B2962.080C2	9/9	B3308.160C4	11/5	B3478.160S4	11/13
B2910.125C1	5/13	B2962.080E2	9/9	B3308.160E4	11/5	B3528.080C2	9/8
B2910.125C2	5/13	B2962.130C2	5/10	B3320.190C2	5/23	B3528.130C2	9/4
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B2910.130C1	5/13	B2962.130E2	5/10	B3320.210C2	5/23	B3611.130C4	10/39
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B2910.130C3	5/13	B2962.160C4	5/10	B3320.242C2	5/23	B3611.130E4	10/39
B2910.160C1	5/13	B2962.160E4	5/10	B3426.130C2	11/11	B3611.160C4	10/39
B2910.160C2	5/13	B2963.080C2	9/9	B3426.130C4	11/11	B3611.160E4	10/39
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B2920.130C3	6/7	B2963.130C4	5/11	B3426.160C4	11/11	B3612.130E2	10/39
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B2925.130C5	5/9	B2963.130E4	5/11	B3427.130C2	11/11	B3612.160C4	10/39
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B4436.200E4	5/4	B9401.160C2	4/19	C164.35D6.2012	5/21	CF036.050.4002	9/6
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B4436.220E4	5/4	B9802.160D8	3/2	C265.08C0.2001	5/19	CF046.008.1080	9/7
B4437.200C4	5/4	B9803.180D8	3/2	C265.08C0.3001	5/21	CF046.008.2070	9/7
B4437.200E4	5/4	B9829.160C4	3/4	C265.08C0.3001	5/21	CF046.015.2001	9/7
B4437.220C4	5/4	B9829.180C4	3/4	C265.20C0.2001	5/19	CF046.015.2001	9/7
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B5209.100T6	2/6	B9830.250C6	3/4	C295.20D6.2005	5/19	CG840.180.3034	4/9
B5209.125T6	2/6	B9831.160C4	3/4	C295.20D6.2006	5/19	CGO10.125.2001	4/7
B5210.100T6	2/6	B9831.180C4	3/4	C295.20D6.3001	5/21	CGO10.130.3060	4/7
B5210.125T6	2/6	B9831.200C6	3/4	C295.20D6.3002	5/21	CGO10.160.4060	4/7
B5301.100C3	2/8	B9831.250C6	3/4	C295.20D6.3003	5/21	CGO15.125.2001	4/7
B5301.125C3	2/8	B9832.160C4	3/4	C295.20D6.3004	5/21	CGO15.130.3050	4/7
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B5402.200T3	3/12	B9844.180C4	3/4	CB641.100.4050	3/10	CGO20.160.4050	4/6
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B6202	6/6	C164.08A0.2002	5/19	CB641.150.4030	3/11	CI021.100.2040	3/8
B6202.130.01	6/6	C164.08A0.2002	5/19	CB641.150.4050	3/11	CI021.100.4039	3/8
B6202.154.02	6/6	C164.08A0.2002	5/21	CB641.150.4060	3/11	CI021.100.4040	3/8
B6202.154.03	6/6	C164.08A0.2002	5/21	CB641.150.4080	3/11	CI620.125.2008	3/7
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B6204.13050	6/3	C164.35D6.2007	5/21	CB641.150.4120	3/11	CI620.125.2012	3/7



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CI620.125.4012	3/7	CI850.160.2002	4/8	CP945.220.2222	6/14	CS012.137.2080	7/10
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CI620.150.2012	3/7	CI947.184.2001	10/41	CR010.050.4001	8/3	CS012.137.4040	7/10
CI620.150.4008	3/7	CL025.200.1835	2/14	CR010.050.4002	8/3	CS012.137.4060	7/10
CI620.150.4010	3/7	CL025.200.1836	2/14	CR010.070.4012	8/3	CS012.137.4080	7/10
CI620.150.4012	3/7	CL025.200.1837	2/14	CR010.070.6004	8/3	CS012.137.4100	7/10
CI620.180.2008	3/7	CL025.200.1838	2/14	CR010.070.6005	8/3	CS012.137.4130	7/10
CI620.180.2010	3/7	CL025.250.1839	2/14	CR010.070.6008	8/3	CS012.137.4150	7/10
CI620.180.2012	3/7	CL025.250.1840	2/14	CR010.070.6009	8/3	CS012.137.4180	7/10
CI620.180.4008	3/7	CL025.250.1841	2/14	CR010.070.6011	8/3	CS012.137.4230	7/10
CI620.180.4010	3/7	CL025.250.1842	2/14	CR610.070.4003	8/3	CS032.100.2020	7/6
CI620.180.4012	3/7	CL025.300.1843	2/14	CR610.070.4006	8/3	CS032.100.2030	7/6
CI623.125.2000	2/10	CL025.300.1844	2/14	CR610.070.4007	8/3	CS032.100.2040	7/6
CI623.125.2001	2/10	CL025.300.1845	2/14	CR610.070.4010	8/3	CS033.150.2030	7/9
CI623.125.2002	2/10	CL025.300.1846	2/14	CR610.070.4013	8/3	CS033.150.2050	7/9
CI623.125.2003	2/10	CL030.200.0647	2/15	CR610.080.4014	8/3	CS033.150.2060	7/9
CI623.125.2004	2/10	CL030.250.0849	2/15	CR610.080.4015	8/3	CS033.160.3030	7/9
CI623.125.2005	2/10	CL030.300.1251	2/15	CR610.100.2016	8/3	CS033.160.3050	7/9
CI623.125.4000	2/10	CL035.205.4840	2/16	CR615.070.4017	8/2	CS033.160.3060	7/9
CI623.125.4001	2/10	CL035.205.6040	2/16	CR615.070.4018	8/2	CS033.190.4030	7/9
CI623.125.4002	2/10	CL035.250.5440	2/16	CR615.070.4019	8/2	CS033.190.4050	7/9
CI623.125.4003	2/10	CL035.250.8040	2/16	CR615.070.4020	8/2	CS033.190.4060	7/9
CI623.125.4004	2/10	CL035.300.4840	2/16	CR615.070.6021	8/2	CS035.125.2020	11/14
CI623.125.4005	2/10	CL035.300.7240	2/16	CR615.070.6022	8/2	CS035.125.2020	7/7
CI624.125.3015	2/9	CN004.125.2020	5/14	CR615.100.4023	8/2	CS035.125.2030	11/14
CI624.125.4014	2/9	CN004.125.2021	5/14	CR615.100.4024	8/2	CS035.125.2030	7/7
CI624.150.3015	2/9	CN004.125.2050	5/14	CR620.070.4025	8/4	CS035.125.2040	11/14
CI624.150.4014	2/9	CN004.125.2051	5/14	CR620.070.4026	8/4	CS035.125.2040	7/7
CI636.130.2008	3/3	CN004.125.2090	5/14	CR620.080.4027	8/4	CS035.130.3020	11/14
CI636.160.2008	3/3	CN004.125.2091	5/14	CR620.080.4028	8/4	CS035.130.3020	7/7
CI636.160.2008	3/5	CN005.125.2120	5/14	CR625.125.2300	5/14	CS035.130.3030	11/14
CI636.160.2012	3/5	CN005.125.2121	5/14	CR625.125.2500	5/14	CS035.130.3030	7/7
CI636.180.2008	3/3	CP035.180.3221	6/12	CS012.122.2040	7/10	CS035.130.3040	11/14
CI636.180.2008	3/5	CP035.180.3222	6/13	CS012.122.2060	7/10	CS035.130.3040	7/7
CI636.180.2012	3/5	CP035.220.3221	6/12	CS012.122.2080	7/10	CS035.160.4020	11/14
CI636.200.3012	3/5	CP035.220.3222	6/13	CS012.122.2100	7/10	CS035.160.4020	7/7
CI636.250.3012	3/5	CP037.190.3001	6/17	CS012.122.2130	7/10	CS035.160.4030	11/14
CI647.184.2001	10/41	CP037.190.3002	6/17	CS012.122.4040	7/10	CS035.160.4030	7/7
CI840.200.2040	3/9	CP037.220.3001	6/17	CS012.122.4060	7/10	CS035.160.4040	11/14
CI840.200.2070	3/9	CP037.220.3002	6/17	CS012.122.4080	7/10	CS035.160.4040	7/7
CI840.200.3040	3/9	CP625.225.3221	6/15	CS012.122.4100	7/10	CS039.073.3016	8/5
CI840.200.3070	3/9	CP625.225.3222	6/15	CS012.122.4130	7/10	CS039.073.3020	8/5
CI840.220.2040	3/9	CP640.200.3081	6/18	CS012.122.4150	7/10	CS039.082.3020	8/5
CI840.220.2070	3/9	CP640.200.3082	6/18	CS012.122.4180	7/10	CS040.080.3029	8/6
CI840.220.3040	3/9	CP839.180.3181	6/16	CS012.122.4230	7/10	CS040.080.3030	8/6



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CS040.085.3031	8/6	CT620.125.3151	2/12	F0.080.12.15	12/6	F0.144.12.15	12/6
CS040.085.3032	8/6	CT626.100.4020	2/3	F0.087.12.15	12/6	F0.146.12.15	12/6
CS040.090.3033	8/6	CT626.100.4030	2/3	F0.090.12.15	12/6	F0.15.12.15	12/20
CS040.090.3034	8/6	CT626.100.4050	2/3	F0.097.12.15	12/6	F0.15.12.15	12/21
CS041.125.2030	7/3	CT626.125.4020	2/3	F0.10.13.22	12/3	F0.15.12.15	12/22
CS041.125.2050	7/3	CT626.125.4030	2/3	F0.10.13.22	3/11	F0.15.12.15	12/23
CS056.130.3001	7/4	CT626.125.4050	2/3	F0.100.12.15	12/6	F0.15.12.15	12/24
CS056.130.3002	7/5	CT632.100.3080	2/8	F0.104.12.15	12/6	F0.15.12.15	12/25
CS060.160.2050	7/12	CT632.100.3100	2/8	F0.105.12.15	12/6	F0.15.12.15	12/26
CT020.085.2100	2/11	CT632.100.3130	2/8	F0.108.12.15	12/6	F0.15.12.15	12/3
CT020.085.2101	2/11	CT632.100.3150	2/8	F0.11.12.15	12/20	F0.15.12.15	2/10
CT020.125.3130	2/11	CT632.100.3180	2/8	F0.11.12.15	12/22	F0.15.12.15	3/4
CT020.125.3131	2/11	CT632.125.3080	2/8	F0.11.12.15	12/24	F0.15.15.20	12/3
CT020.125.3150	2/11	CT632.125.3100	2/8	F0.11.12.15	12/25	F0.15.15.20	2/14
CT020.125.3151	2/11	CT632.125.3130	2/8	F0.11.12.15	12/26	F0.15.15.20	2/15
CT022.100.2100	2/4	CT632.125.3150	2/8	F0.11.12.15	12/6	F0.150.05.11	8/3
CT022.100.2130	2/4	CT632.125.3180	2/8	F0.114.12.15	12/6	F0.150C12.15	12/7
CT022.100.2150	2/4	CT830.100.3052	2/6	F0.114.12.15	2/10	F0.150M12.15	12/7
CT022.100.2180	2/4	CT830.100.3074	2/6	F0.114.12.15	3/7	F0.154.12.15	12/6
CT022.100.2230	2/4	CT830.100.3096	2/6	F0.12.12.15	12/20	F0.157.12.15	12/6
CT022.125.4100	2/4	CT830.100.3118	2/6	F0.12.12.15	12/21	F0.159.12.15	12/6
CT022.125.4130	2/4	CT830.100.3140	2/6	F0.12.12.15	12/22	F0.162.12.15	12/6
CT022.125.4150	2/4	CT830.100.3162	2/6	F0.12.12.15	12/23	F0.164.12.15	12/6
CT022.125.4180	2/4	CT830.100.3184	2/6	F0.12.12.15	12/24	F0.167.12.15	12/6
CT022.125.4230	2/4	CT830.125.3052	2/6	F0.12.12.15	12/25	F0.169.12.15	12/6
CT022.140.4100	2/4	CT830.125.3074	2/6	F0.12.12.15	12/26	F0.170.12.15	12/6
CT022.140.4130	2/4	CT830.125.3096	2/6	F0.12.12.15	8/2	F0.173.12.15	12/6
CT022.140.4150	2/4	CT830.125.3118	2/6	F0.12.12.15	12/3	F0.174.12.15	12/6
CT022.140.4180	2/4	CT830.125.3140	2/6	F0.12.12.15	12/3	F0.18.18.19	12/7
CT022.140.4230	2/4	CT830.125.3162	2/6	F0.12.12.15	2/9	F0.18.18.19	12/7
CT024.100.2100	2/5	CT830.125.3184	2/6	F0.12.12.15	3/4	F0.18.18.19	3/2
CT024.100.2130	2/5	CT840.100.3052	2/7	F0.12.12.15	3/5	F0.18.18.19	3/6
CT024.100.2150	2/5	CT840.100.3074	2/7	F0.12.12.15	4/3	F0.18.18.19	3/8
CT024.100.2180	2/5	CT840.100.3096	2/7	F0.12.12.15	5/14	F0.18.18.19	6/8
CT024.100.2230	2/5	CT840.100.3118	2/7	F0.12.12.15	8/3	F0.18.18.25	12/7
CT024.125.4100	2/5	CT840.100.3140	2/7	F0.12.13.22	12/3	F0.18.18.25	12/7
CT024.125.4130	2/5	CT840.100.3162	2/7	F0.12.13.22	3/11	F0.18.18.25	3/2
CT024.125.4150	2/5	CT840.100.3184	2/7	F0.120.05.11	8/3	F0.18.18.25	3/6
CT024.125.4180	2/5	CT840.125.3052	2/7	F0.120C12.15	12/7	F0.18.18.25	6/8
CT024.125.4230	2/5	CT840.125.3074	2/7	F0.120M12.15	12/7	F0.18.18.29	12/7
CT024.140.4100	2/5	CT840.125.3096	2/7	F0.124.12.15	12/6	F0.18.18.29	12/7
CT024.140.4130	2/5	CT840.125.3118	2/7	F0.130.12.15	12/6	F0.18.18.29	3/6
CT024.140.4150	2/5	CT840.125.3140	2/7	F0.133.12.15	12/6	F0.18.18.29	6/8
CT024.140.4180	2/5	CT840.125.3162	2/7	F0.134.12.15	12/6	F0.180.12.15	12/6
CT024.140.4230	2/5	CT840.125.3184	2/7	F0.135.12.15	12/6	F0.184.12.15	12/6
CT620.125.3130	2/12	F0.075C12.15	12/7	F0.136.12.15	12/6	F0.186.12.15	12/6
CT620.125.3131	2/12	F0.075M12.15	12/7	F0.139.12.15	12/6	F0.190.12.15	12/6
CT620.125.3150	2/12	F0.079.12.15	12/6	F0.140.12.15	12/6	F0.194.12.15	12/6



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F0.197.12.15	12/6	F0.30.12.15	12/23	F0.40.12.15	5/16	F0.740.13.22	12/6
F0.20.12.15	12/20	F0.30.12.15	12/24	F0.40.12.15	8/3	F0.75.12.15	12/20
F0.20.12.15	12/21	F0.30.12.15	12/25	F0.400C12.15	12/7	F0.75.12.15	12/22
F0.20.12.15	12/22	F0.30.12.15	12/26	F0.400M12.15	12/7	F0.75.12.15	12/24
F0.20.12.15	12/23	F0.30.12.15	8/2	F0.414.12.15	12/6	F0.75.12.15	12/25
F0.20.12.15	12/24	F0.30.12.15	12/3	F0.430.12.15	12/6	F0.75.12.15	12/26
F0.20.12.15	12/25	F0.30.12.15	2/12	F0.444.12.15	12/6	F0.75.12.15	12/3
F0.20.12.15	12/26	F0.30.12.15	2/3	F0.450.12.15	12/6	F0.75.12.15	2/10
F0.20.12.15	8/2	F0.30.12.15	2/6	F0.460.12.15	12/6	F0.75.12.15	3/3
F0.20.12.15	12/3	F0.30.12.15	3/11	F0.464.12.15	12/6	F0.75.12.15	3/4
F0.20.12.15	2/10	F0.30.12.15	3/4	F0.470.12.15	12/6	F0.75.12.15	3/5
F0.20.12.15	3/4	F0.30.12.15	4/19	F0.494.12.15	12/6	F0.75.12.15	3/7
F0.20.12.15	4/8	F0.30.12.15	5/12	F0.50.12.15	12/20	F0.75.12.15	5/12
F0.20.12.15	6/3	F0.30.12.15	5/13	F0.50.12.15	12/21	F0.75.12.15	6/8
F0.20.12.15	6/8	F0.30.12.15	5/14	F0.50.12.15	12/22	F0.80.13.22	12/3
F0.20.12.15	8/3	F0.30.12.15	5/15	F0.50.12.15	12/23	F0.80.13.22	3/11
F0.200C12.15	12/7	F0.30.12.15	5/5	F0.50.12.15	12/24	F0.840.13.22	12/6
F0.200M12.15	12/7	F0.30.12.15	8/3	F0.50.12.15	12/25	F0.85.12.15	12/6
F0.204.12.15	12/6	F0.30.12.15	9/11	F0.50.12.15	12/26	F0.940.13.22	12/6
F0.210.12.15	12/6	F0.30.12.LS	8/4	F0.50.12.15	12/3	F0.95.12.15	12/25
F0.214.12.15	12/6	F0.30.12.LS	12/3	F0.50.12.15	2/3	F0.95.12.15	12/26
F0.217.12.15	12/6	F0.30.12.RS	8/4	F0.50.12.15	2/8	F0.95.12.15	12/6
F0.219.12.15	12/6	F0.30.12.RS	12/3	F0.50.12.15	3/11	F0.95.12.15	2/10
F0.224.12.15	12/6	F0.300C12.15	12/7	F0.50.12.15	5/13	F0.95.12.15	3/7
F0.226.12.15	12/6	F0.300M12.15	12/7	F0.50.12.15	5/14	F0.964.13.22	12/6
F0.230.12.15	12/6	F0.300M12.15	3/12	F0.500C12.15	12/7	F1.064.05.1	12/4
F0.234.12.15	12/6	F0.319.12.15	12/6	F0.500M12.15	12/7	F1.064.05.2	12/4
F0.235.12.15	12/6	F0.340.12.15	12/6	F0.500M12.15	3/12	F1.064.15.1	12/4
F0.237.12.15	12/6	F0.350.12.15	12/6	F0.514.12.15	12/6	F1.064.15.2	12/4
F0.240.12.15	12/6	F0.354.12.15	12/6	F0.540.12.15	12/6	F1.064.20.1	12/4
F0.244.12.15	12/6	F0.364.12.15	12/6	F0.580.12.15	12/6	F1.064.20.2	12/4
F0.245.12.15	12/6	F0.370.12.15	12/6	F0.60.12.15	12/20	F1.065.09.1	12/4
F0.250.12.15	12/6	F0.374.12.15	12/6	F0.60.12.15	12/21	F1.065.09.2	12/4
F0.254.12.15	12/6	F0.384.12.15	12/6	F0.60.12.15	12/22	F1.065.10.1	12/4
F0.256.12.15	12/6	F0.390.12.15	12/6	F0.60.12.15	12/23	F1.065.10.2	12/4
F0.260.12.15	12/6	F0.391.12.15	12/6	F0.60.12.15	12/24	F1.071.20.1	12/4
F0.264.12.15	12/6	F0.394.12.15	12/6	F0.60.12.15	12/25	F1.071.20.2	12/4
F0.270.12.15	12/6	F0.396.12.15	12/6	F0.60.12.15	12/26	F1.075.05.1	12/4
F0.274.12.15	12/6	F0.40.12.15	12/20	F0.60.12.15	12/3	F1.075.05.2	12/4
F0.279.12.15	12/6	F0.40.12.15	12/21	F0.60.12.15	3/11	F1.075.09.1	12/4
F0.284.12.15	12/6	F0.40.12.15	12/22	F0.60.12.15	5/13	F1.075.09.2	12/4
F0.290.12.15	12/6	F0.40.12.15	12/23	F0.600C12.15	12/7	F1.075.10.1	12/4
F0.294.12.15	12/6	F0.40.12.15	12/24	F0.600M12.15	12/7	F1.075.10.2	12/4
F0.30.12.15	12/20	F0.40.12.15	12/25	F0.65.12.15	12/20	F1.075.15.1	12/4
F0.30.12.15	12/20	F0.40.12.15	12/26	F0.65.12.15	12/22	F1.075.15.2	12/4
F0.30.12.15	12/21	F0.40.12.15	8/2	F0.65.12.15	12/6	F1.075.20.1	12/4
F0.30.12.15	12/21	F0.40.12.15	12/3	F0.70.12.15	12/6	F1.075.20.2	12/4
F0.30.12.15	12/22	F0.40.12.15	5/15	F0.720.13.22	12/6	F1.084.05.1	12/4



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F1.084.05.2	12/4	F1.115.05.2	12/4	F1.144.20.2	12/4	F1.188.05.2	12/4
F1.085.09.1	12/4	F1.116.20.1	12/4	F1.145.05.1	12/4	F1.188.15.1	12/5
F1.085.09.2	12/4	F1.116.20.2	12/4	F1.145.05.2	12/4	F1.188.15.2	12/5
F1.085.10.1	12/4	F1.117.10.1	12/4	F1.145.15.1	12/4	F1.190.05.1	12/5
F1.085.10.2	12/4	F1.117.10.2	12/4	F1.145.15.2	12/4	F1.190.05.2	12/5
F1.085.15.1	12/4	F1.118.15.1	12/4	F1.147.20.1	12/4	F1.194.09.1	12/5
F1.085.15.2	12/4	F1.118.15.2	12/4	F1.147.20.2	12/4	F1.194.09.2	12/5
F1.085.20.1	12/4	F1.120.15.1	12/4	F1.149.10.1	12/4	F1.194.10.1	12/5
F1.085.20.2	12/4	F1.120.15.2	12/4	F1.149.10.2	12/4	F1.194.10.2	12/5
F1.090.09.1	12/4	F1.124.09.1	12/4	F1.150.09.1	12/4	F1.200.20.1	12/5
F1.090.09.2	12/4	F1.124.09.2	12/4	F1.150.09.2	12/4	F1.200.20.2	12/5
F1.093.10.1	12/4	F1.124.15.1	12/4	F1.150.10.1	12/4	F1.204.10.1	12/5
F1.093.10.2	12/4	F1.124.15.2	12/4	F1.150.10.2	12/4	F1.204.10.2	12/5
F1.094.15.1	12/4	F1.125.10.1	12/4	F1.154.05.1	12/4	F1.204.15.1	12/5
F1.094.15.2	12/4	F1.125.10.2	12/4	F1.154.05.2	12/4	F1.204.15.2	12/5
F1.095.05.1	12/4	F1.126.10.1	12/4	F1.154.09.1	12/4	F1.209.15.1	12/5
F1.095.05.2	12/4	F1.126.10.2	12/4	F1.154.09.2	12/4	F1.209.15.2	12/5
F1.095.09.1	12/4	F1.127.10.1	12/4	F1.154.10.1	12/4	F1.210.20.1	12/5
F1.095.09.2	12/4	F1.127.10.2	12/4	F1.154.10.2	12/4	F1.210.20.2	12/5
F1.095.10.1	12/4	F1.129.09.1	12/4	F1.160.09.1	12/4	F1.214.10.1	12/5
F1.095.10.2	12/4	F1.129.09.2	12/4	F1.160.09.2	12/4	F1.214.10.2	12/5
F1.095.20.1	12/4	F1.134.05.1	12/4	F1.162.05.1	12/4	F1.216.09.1	12/5
F1.095.20.2	12/4	F1.134.05.2	12/4	F1.162.05.2	12/4	F1.216.09.2	12/5
F1.097.10.1	12/4	F1.134.10.1	12/4	F1.162.15.1	12/4	F1.217.10.1	12/5
F1.097.10.2	12/4	F1.134.10.2	12/4	F1.162.15.2	12/4	F1.217.10.2	12/5
F1.104.05.1	12/4	F1.134.15.1	12/4	F1.164.05.1	12/4	F1.224.05.1	12/5
F1.104.05.2	12/4	F1.134.15.2	12/4	F1.164.05.2	12/4	F1.224.05.2	12/5
F1.104.10.1	12/4	F1.134.20.1	12/4	F1.166.10.1	12/4	F1.224.10.1	12/5
F1.104.10.2	12/4	F1.134.20.2	12/4	F1.166.10.2	12/4	F1.224.10.2	12/5
F1.105.09.1	12/4	F1.135.15.1	12/4	F1.170.05.1	12/4	F1.224.15.1	12/5
F1.105.09.2	12/4	F1.135.15.2	12/4	F1.170.05.2	12/4	F1.224.15.2	12/5
F1.106.20.1	12/4	F1.136.09.1	12/4	F1.170.10.1	12/4	F1.229.15.1	12/5
F1.106.20.2	12/4	F1.136.09.2	12/4	F1.170.10.2	12/4	F1.229.15.2	12/5
F1.109.05.1	12/4	F1.138.05.1	12/4	F1.172.10.1	12/4	F1.230.15.1	12/5
F1.109.05.2	12/4	F1.138.05.2	12/4	F1.172.10.2	12/4	F1.230.15.2	12/5
F1.110.10.1	12/4	F1.140.15.1	12/4	F1.176.10.1	12/4	F1.234.05.1	12/5
F1.110.10.2	12/4	F1.140.15.2	12/4	F1.176.10.2	12/4	F1.234.05.2	12/5
F1.110.15.1	12/4	F1.142.15.1	12/4	F1.178.09.1	12/4	F1.234.09.1	12/5
F1.110.15.2	12/4	F1.142.15.2	12/4	F1.178.09.2	12/4	F1.234.09.2	12/5
F1.114.05.1	12/4	F1.143.05.1	12/4	F1.179.05.1	12/4	F1.237.09.1	12/5
F1.114.05.2	12/4	F1.143.05.2	12/4	F1.179.05.2	12/4	F1.237.09.2	12/5
F1.114.09.1	12/4	F1.144.09.1	12/4	F1.182.20.1	12/4	F1.240.05.1	12/5
F1.114.09.2	12/4	F1.144.09.2	12/4	F1.182.20.2	12/4	F1.240.05.2	12/5
F1.114.10.1	12/4	F1.144.10.1	12/4	F1.184.05.1	12/4	F1.241.20.1	12/5
F1.114.10.2	12/4	F1.144.10.2	12/4	F1.184.05.2	12/4	F1.241.20.2	12/5
F1.114.15.1	12/4	F1.144.15.1	12/4	F1.184.15.1	12/5	F1.244.10.1	12/5
F1.114.15.2	12/4	F1.144.15.2	12/4	F1.184.15.2	12/5	F1.244.10.2	12/5
F1.115.05.1	12/4	F1.144.20.1	12/4	F1.188.05.1	12/4	F1.244.15.1	12/5



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F1.254.05.1	12/5	F1.452.15.1	12/5	F2.14.1314	6/10	F2.19.1276	6/13
F1.254.05.2	12/5	F1.452.15.2	12/5	F2.14.1314	6/6	F2.19.1276	6/14
F1.254.10.1	12/5	F1.471.10.1	12/5	F2.14.1315	6/10	F2.20.1014	5/14
F1.254.10.2	12/5	F1.471.10.2	12/5	F2.14.1315	6/6	F2.20.1014	7/8
F1.259.15.1	12/5	F1.475.09.1	12/5	F2.16.1027	6/11	F2.20.1015	5/14
F1.259.15.2	12/5	F1.475.09.2	12/5	F2.16.1027	6/8	F2.20.1015	7/8
F1.270.10.1	12/5	F1.487.05.1	12/5	F2.16.1028	9/11	F2.20.1016	5/14
F1.270.10.2	12/5	F1.487.05.2	12/5	F2.16.1029	6/11	F2.20.1016	7/8
F1.274.10.1	12/5	F1.490.05.1	12/5	F2.16.1029	6/8	F2.20.1017	5/14
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F1.277.09.1	12/5	F1.490.09.1	12/5	F2.16.1031	6/11	F2.20.1022	6/7
F1.277.09.2	12/5	F1.490.09.2	12/5	F2.16.1031	6/8	F2.20.1023	6/7
F1.284.05.1	12/5	F1.495.05.1	12/5	F2.16.1032	9/11	F2.20.1024	6/7
F1.284.05.1	3/9	F1.495.05.1	3/9	F2.16.1033	6/11	F2.20.1025	6/7
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F1.284.05.2	3/9	F1.495.05.2	3/9	F2.16.1034	9/11	F2.20.1036	5/9
F1.288.05.1	12/5	F1.505.05.1	12/5	F2.16.1087	8/5	F2.20.1037	5/9
F1.288.05.2	12/5	F1.505.05.2	12/5	F2.16.1088	8/5	F2.20.1038	5/9
F1.294.15.1	12/5	F1.510.05.1	12/5	F2.16.1089	8/5	F2.20.1039	5/9
F1.294.15.2	12/5	F1.510.05.2	12/5	F2.16.1090	8/5	F2.20.1040	5/9
F1.310.10.1	12/5	F1.510.09.1	12/5	F2.16.1308	6/4	F2.20.1041	5/9
F1.310.10.2	12/5	F1.510.09.2	12/5	F2.16.1309	6/4	F2.20.1042	5/9
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F1.314.09.2	12/5	F1.510.10.2	12/5	F2.16.1311	6/4	F2.20.1068	8/6
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F1.354.10.1	12/5	F1.700.10.2	12/5	F2.19.1053	6/15	F2.20.1379	6/12
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F1.394.15.1	12/5	F2.13.1012	5/14	F2.19.1271	6/14	F2.24.1082	8/6
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F2.26.1019	5/14	F2.50.1386	6/3	F3.14.20.10	2/12	F4.30.57.03	12/11
F2.26.1020	5/14	F2.50.1387	6/3	F3.14.20.10	2/9	F4.30.57.04	12/11
F2.26.1021	5/14	F2.50.1388	6/3	F3.14.20.10	3/11	F4.30.59.01	12/10
F2.30.1366	7/6	F2.50.1389	6/3	F3.14.20.10	3/4	F4.30.63.01	12/9
F2.30.1367	7/6	F2.50P5282.1	4/5	F3.14.20.10	3/7	F4.30.63.01	12/9
F2.30.1368	7/6	F2.50P5283.1	4/5	F3.14.20.10	4/19	F4.30.63.01	5/15
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F2.30.1381	4/4	F2.60.1045	6/12	F3.14.20.10	6/8	F4.30.67.03	12/11
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F2.32.1071	8/6	F2.60.1049	6/15	F4.15.19.01	12/10	F4.45.47.02	12/11
F2.32.1072	8/6	F2.60.1354	4/3	F4.15.53.01	12/9	F4.45.47.02	5/5
F2.32.1073	8/6	F2.60.1355	4/3	F4.15.53.01	12/9	F4.45.47.03	12/11
F2.35.1390	6/9	F2.60.1376	7/3	F4.15.53.01	5/15	F4.45.47.04	12/11
F2.35.1391	6/9	F2.60P3322.0	7/5	F4.15.53.01	5/16	F4.50.12.01	12/9
F2.35.1392	6/9	F2.60P3323.0	7/5	F4.15.53.02	12/9	F4.50.57.01	12/11
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F2.40.1305	4/9	F2.60P3325.0	7/5	F4.15.57.01	12/11	F4.50.57.03	12/11
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F2.50.1063	6/11	F3.14.12.10	3/8	F4.30.53.01	12/9	F5.20.11.01	12/15
F2.50.1063	6/12	F3.14.12.10	6/3	F4.30.53.01	5/13	F5.20.11.02	12/15
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F5.20.12.01	12/15	F5.30.21.03	12/14	F5.40.19.01	12/13	F5.47.22.01	12/15
F5.20.12.02	12/15	F5.30.21.04	12/15	F5.40.19.02	12/13	F5.47.29.01	12/13
F5.20.19.01	12/13	F5.30.21.05	12/15	F5.40.21.01	12/15	F5.47.29.02	12/13
F5.20.19.02	12/13	F5.30.21.06	12/15	F5.40.23.04	12/19	F5.48.01.04	12/15
F5.20.19.03	12/13	F5.30.22.02	12/15	F5.40.24.04	12/19	F5.48.11.01	12/15
F5.20.19.04	12/13	F5.30.23.03	12/19	F5.40.29.01	12/13	F5.48.21.01	12/15
F5.20.19.05	12/13	F5.30.26.23	12/17	F5.40.29.02	12/13	F5.49.11.01	12/15
F5.20.19.06	12/13	F5.30.29.03	12/12	F5.41.12.01	12/15	F5.49.11.02	12/15
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F5.26.31.01	12/15	F5.39.11.01	12/15	F5.46.11.02	12/15	F5.50.20.01	12/15
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F5.30.19.04	12/12	F5.40.09.03	4/19	F5.46.22.01	12/15	F5.55.21.01	12/15
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F5.30.19.08	12/13	F5.40.11.01	12/15	F5.47.19.01	12/13	F5.56.09.03	12/13



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F5.56.11.03	12/15	F5.58.21.01	12/16	F5.66.21.02	12/16	F5.86.11.03	12/16
F5.56.11.04	12/15	F5.58.21.02	12/16	F5.66.21.03	12/16	F5.86.11.04	12/16
F5.56.11.05	12/15	F5.59.11.01	12/16	F5.66.21.04	12/16	F5.86.11.05	12/16
F5.56.11.06	12/15	F5.59.11.02	12/16	F5.66.21.05	12/16	F5.86.11.06	12/16
F5.56.11.07	12/15	F5.59.11.03	12/16	F5.66.21.06	12/16	F5.86.11.07	12/16
F5.56.11.08	12/15	F5.59.21.01	12/16	F5.66.21.07	12/16	F5.86.11.08	12/16
F5.56.11.09	12/15	F5.59.21.02	12/16	F5.66.21.08	12/16	F5.86.11.09	12/16
F5.56.11.10	12/15	F5.59.21.03	12/16	F5.66.21.09	12/16	F5.86.11.10	12/16
F5.56.11.11	12/15	F5.60.01.06	12/14	F5.66.21.10	12/16	F5.86.11.11	12/16
F5.56.11.12	12/15	F5.60.01.07	12/16	F5.66.22.01	12/16	F5.86.11.12	12/16
F5.56.12.01	12/15	F5.60.02.06	12/14	F5.66.29.01	12/13	F5.86.11.13	12/16
F5.56.12.02	12/15	F5.60.02.07	12/14	F5.67.11.01	12/16	F5.86.11.14	12/16
F5.56.12.03	12/15	F5.60.02.08	12/16	F5.67.12.01	12/16	F5.86.11.15	12/16
F5.56.12.04	12/15	F5.60.06.25	12/17	F5.67.21.01	12/16	F5.86.11.16	12/16
F5.56.12.05	12/15	F5.60.09.03	12/12	F5.67.22.01	12/16	F5.86.11.17	12/16
F5.56.19.03	12/13	F5.60.09.03	4/8	F5.68.01.01	12/16	F5.86.13.08	12/19
F5.56.19.04	12/13	F5.60.09.04	12/12	F5.68.01.02	12/16	F5.86.21.01	12/16
F5.56.19.05	12/13	F5.60.13.06	12/19	F5.68.01.03	12/16	F5.86.21.02	12/16
F5.56.19.06	12/13	F5.60.23.06	12/19	F5.68.09.06	12/12	F5.86.21.03	12/16
F5.56.19.07	12/13	F5.61.11.01	12/16	F5.68.11.01	12/16	F5.86.21.04	12/16
F5.56.21.01	12/15	F5.61.19.01	12/13	F5.68.21.01	12/16	F5.86.21.05	12/16
F5.56.21.02	12/15	F5.61.21.01	12/16	F5.69.11.01	12/16	F5.86.21.06	12/16
F5.56.21.03	12/15	F5.61.29.01	12/13	F5.69.11.02	12/16	F5.86.21.07	12/16
F5.56.21.04	12/15	F5.62.12.01	12/16	F5.69.19.01	12/13	F5.86.21.08	12/16
F5.56.21.05	12/16	F5.62.22.01	12/16	F5.69.21.01	12/16	F5.86.21.09	12/16
F5.56.21.06	12/16	F5.63.12.01	12/16	F5.69.21.02	12/16	F5.86.21.10	12/16
F5.56.21.07	12/16	F5.63.22.01	12/16	F5.69.29.01	12/13	F5.86.21.11	12/16
F5.56.21.08	12/16	F5.64.11.01	12/16	F5.70.01.07	12/16	F5.86.21.12	12/16
F5.56.21.09	12/16	F5.64.21.01	12/16	F5.70.01.08	12/16	F5.86.21.13	12/16
F5.56.21.10	12/16	F5.65.12.01	12/16	F5.76.01.01	12/16	F5.86.21.14	12/16
F5.56.21.11	12/16	F5.65.22.01	12/16	F5.76.11.01	12/16	F5.86.21.15	12/16
F5.56.21.12	12/16	F5.66.09.01	12/13	F5.76.21.01	12/16	F5.86.21.16	12/16
F5.56.22.01	12/16	F5.66.11.01	12/16	F5.77.11.01	12/16	F5.86.21.17	12/16
F5.56.22.02	12/16	F5.66.11.02	12/16	F5.77.21.01	12/16	F5.86.23.08	12/19
F5.56.22.03	12/16	F5.66.11.03	12/16	F5.80.01.01	12/14	F5.88.16.27	12/17
F5.56.22.04	12/16	F5.66.11.04	12/16	F5.80.01.08	12/14	F5.88.26.28	12/17
F5.56.22.05	12/16	F5.66.11.05	12/16	F5.80.31.01	12/16	F6.HS.040.6	7/11
F5.56.29.03	12/13	F5.66.11.06	12/16	F5.80.41.01	12/16	F6.HS.040.7	7/11
F5.56.29.06	12/13	F5.66.11.07	12/16	F5.85.11.01	12/16	F6.HS.060.6	7/11
F5.56.29.07	12/13	F5.66.11.08	12/16	F5.85.21.01	12/16	F6.HS.060.7	7/11
F5.57.11.01	12/16	F5.66.11.09	12/16	F5.86.00.01	12/16	F6.HS.080.6	7/11
F5.57.12.01	12/16	F5.66.11.10	12/16	F5.86.01.01	12/14	F6.HS.080.7	7/11
F5.57.12.02	12/16	F5.66.12.01	12/16	F5.86.01.02	12/16	F6.HS.100.6	7/11
F5.57.21.01	12/16	F5.66.19.01	12/13	F5.86.01.03	12/16	F6.HS.100.7	7/11
F5.57.22.01	12/16	F5.66.19.01	4/9	F5.86.01.08	12/14	F6.HS.130.6	7/11
F5.57.22.02	12/16	F5.66.19.02	12/13	F5.86.06.26	12/17	F6.HS.130.7	7/11



Cod.	Pag.	Cod.	Pag.	Cod.	Pag.	Cod.	Pag.
F6.HS.150.6	7/11	G03.00000.275	12/25	G08.03L04.570	12/23	G10.50.58.080	12/31
F6.HS.150.7	7/11	G03.00000.375	12/25	G08.03R04.570	12/23	G10.50.58.085	12/31
F6.HS.180.6	7/11	G03.00000.475	12/25	G08.04L06.095	12/23	G10.50.58.090	12/31
F6.HS.180.7	7/11	G03.00000.575	12/25	G08.04R06.095	12/23	G10.50.58.100	12/31
F6.HS.230.6	7/11	G03.05L00.125	12/25	G08.06L08.120	12/23	G10.50.65.050	12/31
F6.HS.230.7	7/11	G03.05R00.125	12/25	G08.06L08.370	12/23	G10.50.65.055	12/31
F7.HS.100.3	12/3	G03.08L00.175	12/25	G08.06L08.470	12/23	G10.50.65.060	12/31
F7.HS.100.3	2/4	G03.08L00.275	12/25	G08.06R08.120	12/23	G10.50.65.065	12/31
F7.HS.100.3	2/5	G03.08L00.375	12/25	G08.06R08.370	12/23	G10.50.65.070	12/31
F7.HS.130.3	12/3	G03.08L00.475	12/25	G08.06R08.470	12/23	G10.50.65.075	12/31
F7.HS.130.3	2/4	G03.08L00.575	12/25	G08.09L12.170	12/23	G10.50.65.080	12/31
F7.HS.130.3	2/5	G03.08R00.175	12/25	G08.09L12.265	12/23	G10.50.65.085	12/31
F7.HS.150.3	12/3	G03.08R00.275	12/25	G08.09R12.170	12/23	G10.50.65.090	12/31
F7.HS.150.3	2/4	G03.08R00.375	12/25	G08.09R12.265	12/23	G10.50.65.100	12/31
F7.HS.150.3	2/5	G03.08R00.475	12/25	G09.00000.087	12/22	G10.50.65.110	12/31
F7.HS.180.3	12/3	G03.08R00.575	12/25	G09.00000.097	12/22	G10.50.65.120	12/31
F7.HS.180.3	2/4	G04.00000.068	12/26	G09.00000.125	12/22	G10S35.65.090	12/32
F7.HS.180.3	2/5	G04.00000.087	12/26	G09.00000.175	12/22	G10S40.65.090	12/32
F7.HS.230.3	12/3	G04.00000.097	12/26	G09.03L04.570	12/23	G10S50.65.090	12/31
F7.HS.230.3	2/4	G04.00000.097	12/26	G09.03R04.570	12/23	G13.40.48.085	12/33
F7.HS.230.3	2/5	G04.00000.125	12/26	G09.04L06.095	12/23	G13.40.48.102	12/33
G01.00000.068	12/24	G04.00000.175	12/26	G09.04R06.095	12/23	G15.30.80.010	2/17
G01.00000.087	12/24	G04.00000.275	12/26	G09.06L08.120	12/23	G15.35.80.011	2/17
G01.00000.097	12/24	G04.00000.375	12/26	G09.06L08.370	12/23	G15.35.80.012	2/17
G01.00000.125	12/24	G04.00000.475	12/26	G09.06L08.470	12/23	G15.35.80.013	2/17
G01.00000.175	12/24	G04.00000.575	12/26	G09.06R08.120	12/23	G15.35.80.014	2/17
G01.00000.275	12/24	G04.05L00.097	12/26	G09.06R08.370	12/23	G15.40.80.015	2/17
G01.00000.375	12/24	G04.05L00.125	12/26	G09.06R08.470	12/23	G16.50.58.090	12/33
G01.00000.475	12/24	G04.05R00.097	12/26	G09.09L12.170	12/23	G16.50.58.100	12/33
G01.00000.575	12/24	G04.05R00.125	12/26	G09.09L12.265	12/23	G16.50.58.112	12/33
G01.05L00.125	12/24	G04.10L00.175	12/26	G09.09R12.170	12/23	G17.25.30.088	12/36
G01.05L00.575	12/24	G04.10L00.275	12/26	G09.09R12.265	12/23	G17.25.30.098	12/36
G01.05R00.125	12/24	G04.10R00.175	12/26	G10.30.65.090	12/32	G17.30.35.088	12/36
G01.05R00.575	12/24	G04.10R00.275	12/26	G10.30.65.100	12/32	G17.30.35.098	12/36
G01.10L00.175	12/24	G08.00000.058	12/22	G10.35.58.090	12/32	G17.30.35.110	12/36
G01.10L00.275	12/24	G08.00000.068	12/22	G10.35.58.100	12/32	G17.30.40.088	12/36
G01.10L00.375	12/24	G08.00000.087	12/22	G10.35.65.090	12/32	G17.30.40.098	12/36
G01.10L00.475	12/24	G08.00000.097	12/22	G10.35.65.100	12/32	G17.30.40.110	12/36
G01.10R00.175	12/24	G08.00000.125	12/22	G10.40.58.090	12/32	G17.30.50.088	12/36
G01.10R00.275	12/24	G08.00000.175	12/22	G10.40.58.100	12/32	G17.30.50.098	12/36
G01.10R00.375	12/24	G08.00000.275	12/22	G10.40.65.090	12/32	G17.30.50.110	12/36
G01.10R00.475	12/24	G08.00000.275	12/22	G10.40.65.100	12/32	G17.35.40.088	12/36
G03.00000.068	12/25	G08.00000.375	12/22	G10.50.58.050	12/31	G17.35.40.098	12/36
G03.00000.087	12/25	G08.00000.375	12/22	G10.50.58.055	12/31	G17.35.40.110	12/36
G03.00000.097	12/25	G08.00000.475	12/22	G10.50.58.060	12/31	G17.35.50.088	12/36
G03.00000.097	12/25	G08.00000.475	12/22	G10.50.58.065	12/31	G17.35.50.098	12/36
G03.00000.125	12/25	G08.00000.575	12/22	G10.50.58.070	12/31	G17.35.50.110	12/36
G03.00000.175	12/25	G08.00000.575	12/22	G10.50.58.075	12/31	G17.40.50.088	12/36



Cod.	Pag.	Cod.	Pag.	Cod.	Pag.	Cod.	Pag.
G17.40.50.098	12/36	G20.50.70.001	12/34	G21.48.70.060	12/35	G31.04.040.01	12/28
G17.40.50.110	12/36	G20.50.70.003	12/34	G21.48.70.080	12/35	G31.05.008.02	12/28
G18.25.30.018	12/36	G20.50.70.010	12/34	G21.48.70.100	12/35	G31.05.016.02	12/24
G18.25.35.018	12/36	G20.50.70.030	12/34	G21.48.70.120	12/35	G31.05.016.02	12/24
G18.25.40.018	12/36	G20.50.70.040	12/34	G21.48.70.140	12/35	G31.05.016.02	12/28
G18.30.35.018	12/36	G20.50.70.050	12/34	G21.48.70.160	12/35	G31.05.018.01	12/20
G18.30.40.018	12/36	G20.50.70.080	12/34	G21.48.70.200	12/35	G31.05.018.01	12/20
G18.30.50.018	12/36	G20.50.70.100	12/34	G21.50.85.050	12/35	G31.05.018.01	12/28
G18.35.40.018	12/36	G20.58.75.001	12/34	G21.58.80.001	12/35	G31.05.020.01	12/28
G18.35.50.018	12/36	G20.58.75.003	12/34	G21.58.80.003	12/35	G31.05.025.01	12/28
G18.40.50.018	12/36	G20.58.75.010	12/34	G21.58.80.010	12/35	G31.05.030.01	12/28
G19.30.31.100	9/12	G20.58.75.030	12/34	G21.58.80.030	12/35	G31.05.035.01	12/28
G19.30.32.100	9/12	G20.58.75.040	12/34	G21.58.80.040	12/35	G31.06.012.01	12/28
G19.30.40.100	9/12	G20.58.75.050	12/34	G21.58.80.050	12/35	G31.06.014.01	12/11
G19.30.62.100	9/12	G20.58.75.060	12/34	G21.58.80.060	12/35	G31.06.014.01	12/28
G19.30.63.100	9/12	G20.58.75.080	12/34	G21.58.80.080	12/35	G31.06.016.04	12/24
G19.33.30.067	9/12	G20.58.75.100	12/34	G21.58.80.100	12/35	G31.06.016.04	12/28
G19.33.31.050	9/12	G20.58.75.120	12/34	G21.58.80.120	12/35	G31.06.016.05	12/11
G19.33.32.050	9/12	G20.58.75.140	12/34	G21.58.80.140	12/35	G31.06.016.05	12/28
G19.33.40.070	9/12	G20.58.75.160	12/34	G21.58.80.160	12/35	G31.06.018.00	12/20
G19.33.62.070	9/12	G20.58.75.200	12/34	G21.58.80.200	12/35	G31.06.018.00	12/20
G19.33.63.070	9/12	G20.58.75.240	12/34	G21.58.80.240	12/35	G31.06.018.00	12/20
G19.41.30.060	9/12	G20.58.75.270	12/34	G21.58.80.270	12/35	G31.06.018.00	12/20
G19.41.32.060	9/12	G20.60.80.001	12/34	G22.07.14.001	12/35	G31.06.018.00	12/20
G19.41.40.075	9/12	G20.60.80.003	12/34	G22.07.14.001	12/9	G31.06.018.00	12/20
G19.41.62.070	9/12	G20.60.80.010	12/34	G22.07.14.003	12/35	G31.06.018.00	12/20
G19.41.63.070	9/12	G20.65.85.001	12/34	G22.07.14.003	12/9	G31.06.018.00	12/20
G20.30.63.001	12/34	G20.65.85.003	12/34	G30.04.010.01	12/27	G31.06.018.00	12/20
G20.30.63.003	12/34	G20.65.85.010	12/34	G30.05.010.01	12/27	G31.06.018.00	12/28
G20.30.63.010	12/34	G20.65.85.030	12/34	G30.05.025.02	12/27	G31.06.020.01	12/28
G20.30.65.040	12/34	G20.65.85.040	12/34	G30.06.015.03	12/27	G31.06.025.01	12/28
G20.30.65.060	12/34	G20.65.85.050	12/34	G30.06.025.04	12/27	G31.06.030.01	12/28
G20.30.65.100	12/34	G20.65.85.060	12/34	G30.10.025.01	12/27	G31.06.035.01	12/28
G20.35.63.001	12/34	G20.65.85.080	12/34	G30.10.040.07	12/27	G31.06.060.01	12/28
G20.35.63.003	12/34	G20.65.85.100	12/34	G30.10.045.17	12/27	G31.08.012.05	12/10
G20.35.63.010	12/34	G20.65.85.120	12/34	G30.10.050.08	12/27	G31.08.012.05	12/10
G20.35.65.040	12/34	G20.65.85.140	12/34	G30.10.055.09	12/27	G31.08.012.05	12/10
G20.35.65.060	12/34	G20.65.85.160	12/34	G30.10.060.10	12/27	G31.08.012.05	12/10
G20.35.65.100	12/34	G20.65.85.200	12/34	G30.10.065.11	12/27	G31.08.012.05	12/10
G20.40.63.001	12/34	G20.65.85.240	12/34	G30.10.070.12	12/27	G31.08.012.05	12/10
G20.40.63.003	12/34	G20.65.85.270	12/34	G30.10.075.13	12/27	G31.08.012.05	12/10
G20.40.63.010	12/34	G21.40.85.050	12/35	G30.10.080.14	12/27	G31.08.012.05	12/10
G20.40.65.040	12/34	G21.48.70.001	12/35	G30.10.085.18	12/27	G31.08.012.05	12/10
G20.40.65.060	12/34	G21.48.70.003	12/35	G30.10.090.05	12/27	G31.08.012.05	12/10
G20.40.65.090	2/10	G21.48.70.010	12/35	G30.10.095.19	12/27	G31.08.012.05	12/10
G20.40.65.100	12/34	G21.48.70.030	12/35	G30.10.100.15	12/27	G31.08.012.05	12/10
G20.40.65.100	2/10	G21.48.70.040	12/35	G30.10.110.06	12/27	G31.08.012.05	12/10
G20.40.65.120	2/10	G21.48.70.050	12/35	G30.10.120.16	12/27	G31.08.012.05	12/10



Cod.	Pag.	Cod.	Pag.	Cod.	Pag.	Cod.	Pag.
G31.08.012.05	12/10	G32.04.067.01	12/27	G32.05.013.01	12/17	G34.04.023.02	12/7
G31.08.012.05	12/10	G32.04.067.01	12/8	G32.05.013.01	12/17	G34.04.023.02	12/29
G31.08.012.05	12/10	G32.04.067.01	12/8	G32.05.013.01	12/17	G34.04.027.03	12/7
G31.08.012.05	12/10	G32.04.067.01	12/8	G32.05.013.01	12/17	G34.04.027.03	12/29
G31.08.012.05	12/10	G32.04.090.01	12/12	G32.05.013.01	12/29	G34.04.032.04	12/7
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/12	G34.04.032.04	12/29
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/12	G34.04.070.05	12/29
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/12	G34.04.070.05	12/9
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/12	G34.04.070.06	12/12
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/12	G34.04.070.06	12/29
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/29	G34.04.070.07	12/17
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/9	G34.04.070.07	12/29
G31.08.012.05	12/10	G32.04.090.01	12/14	G32.05.014.05	12/9	G35.48.75.0210	12/33
G31.08.012.05	12/28	G32.04.090.01	12/14	G32.05.014.05	12/9	G35.48.75.0410	12/33
G31.08.016.06	12/24	G32.04.090.01	12/14	G32.05.014.05	12/9	G35.58.76.1008	12/32
G31.08.016.06	12/24	G32.04.090.01	12/17	G32.05.014.05	12/9	G35.58.76.1108	12/31
G31.08.016.06	12/24	G32.04.090.01	12/27	G32.05.014.05	12/9	G35.58.76.2008	12/32
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