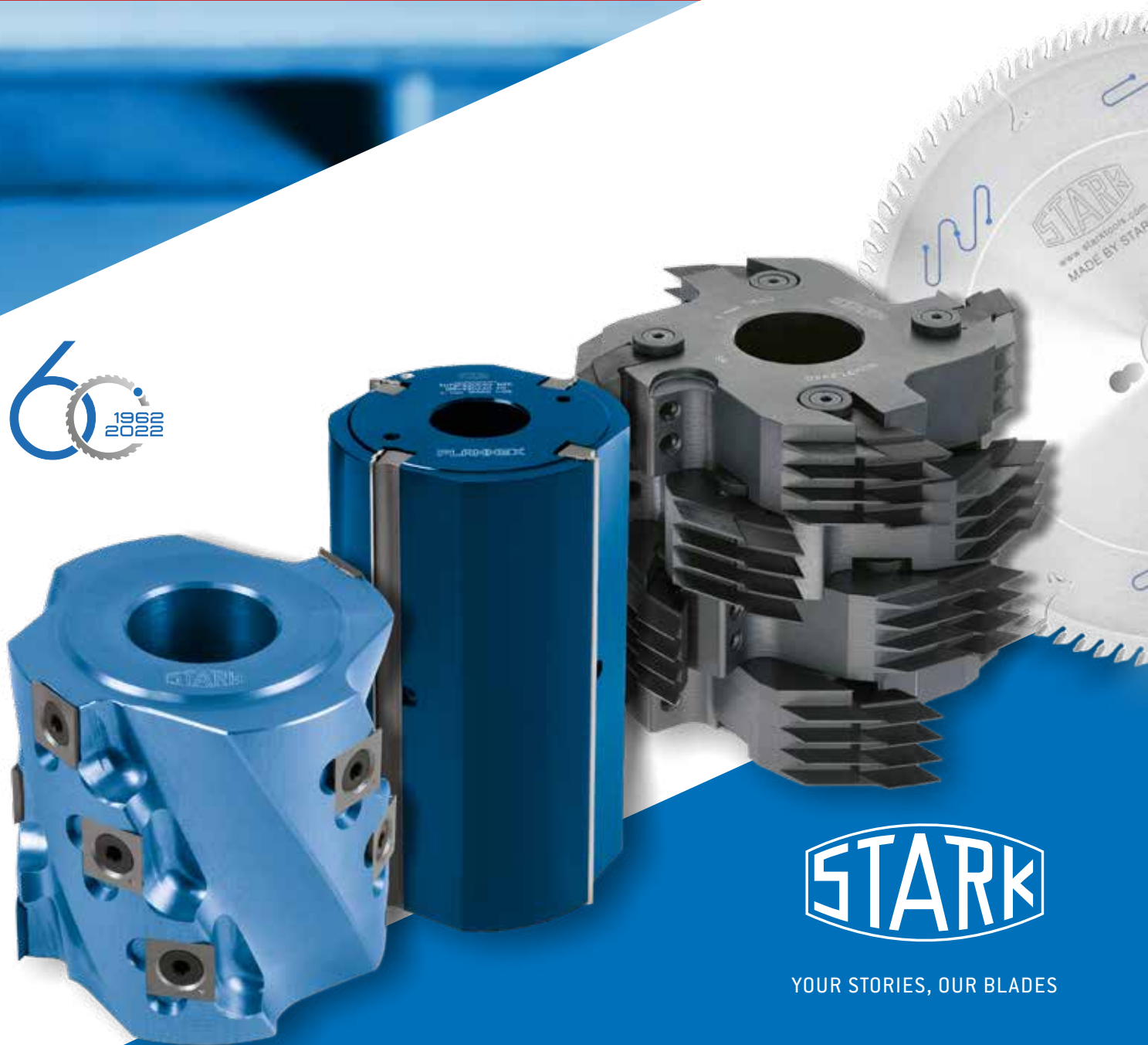




WOODWORKING

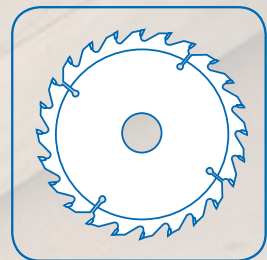
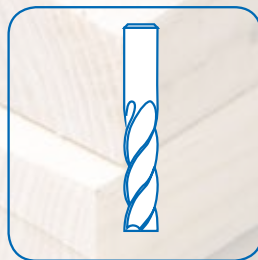
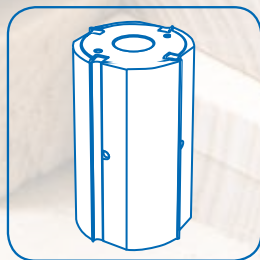
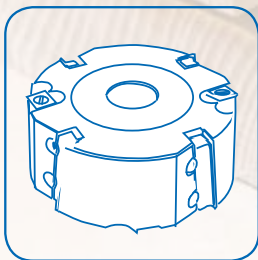
ALL IN ONE

2023



YOUR STORIES, OUR BLADES

WOODWORKING ALL IN ONE





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Utensili per macchine tradizionali combinate e toupie
Tooling line for classic single spindle and combined machines
Werkzeuglinie für Standard - und Kombimaschinen



INDUSTRIAL LINE

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Utensili per macchine scorniatrici e finger joint
Tooling line for moulding and finger joint machines
Werkzeuglinie für Kehlautomaten und Keilzinkenanlagen



CNC

100

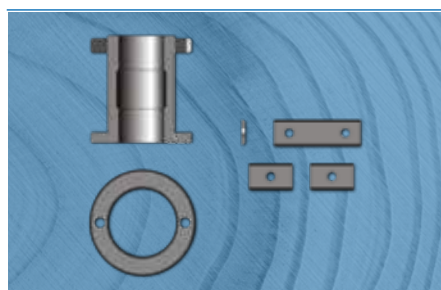
Utensili per macchine foratrici e pantografi CNC
Tooling line for drilling and CNC machining centers and routers
Werkzeuglinie für Bohr - und CNC Bearbeitungszenter



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183

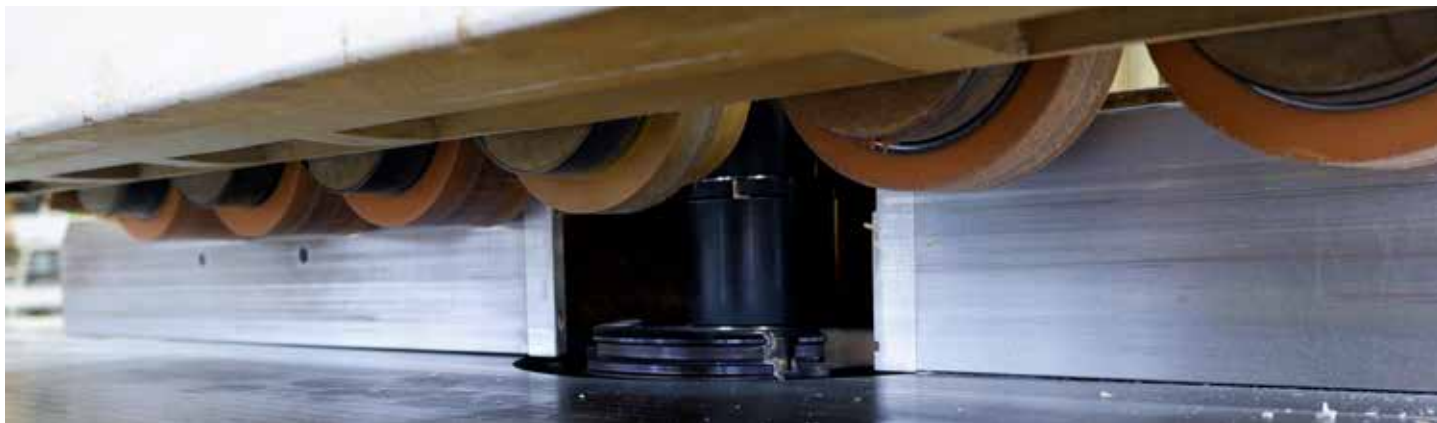
Programma lame circolari in HW
HW circular saw blades programme
HW-Kreissägeblätter Programm



RICAMBI

203

Ricambi
Spare Parts
Ersatzteile



Legenda dei Simboli / Explanations of Symbols / Legende

MATERIALE / MATERIAL / WERKSTOFF

 Legno Generico Generic wood Holz allgemein	 Legno Tenero Light Wood Weiches Holz	 Legno Duro Hard Wood Hartes Holz
 Legno lungo vena Long grain wood Langfaseriges Holz	 Legno trasverso vena Cross grain wood Quer gemasertes Holz	 Truciolare / MDF Particle board / MDF Spanplatte / MDF

CARATTERISTICHE / FEATURES / EIGENSCHAFTEN

 Manuale Manual Manuell	 Meccanico Mechanic Mechanisch	 Utensile con lega leggera Light-alloy tool Leichtmetall Werkzeug
 Coltello in HM HM Knife HM/HW-Messer	 Coltello 1,5 mm 1,5 mm Knife 1,5 mm Messer	 Coltello 2 mm 2 mm Knife 2 mm Messer
 Cuscinetti Bearings Kugellager	 Adattabile per CNC OK for CNC Geeignet für CNC	 Accessori Accessories Zubehör
 Attacco HSK HSK Connection Hydraulische Zentrierung	STEEL BODY LIGHT ALLOY BODY	

OPTIONAL

 Cassetta in plastica inclusa Plastic box included Inklusive Kunststoffbox	 Cassetta in legno inclusa Wooden box included Inklusive Holzkiste	 Chiave inclusa Keyway included Inklusive Keilnut
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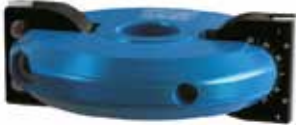
YOUR STORIES, OUR BLADES

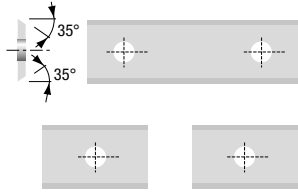


/01

BASIC LINE

Utensili per macchine tradizionali combinate e toupie
Tooling line for classic single spindle and combined machines
Werkzeuglinie für Standard - und Kombimaschinen

IN03TM01 - TH27TM01  p. 08	IN03TM02  p. 09	TH37TM / TH38TM  p. 10
IR10TM / IR20TM  p. 11	TH23TM  p. 12	TH28TM01  p. 13
TH09TM  p. 14	TH94TM10  p. 15	TH06TM  p. 16
TH02TM / YH151AAM  p. 17	TH74TA01  p. 18	TH17TM20  p. 19
TH17TM ECO  p. 20	YH131AAM  p. 21	YS118AZM  p. 22
TH70TM  p. 23	YS107BZM  p. 24	YS108BZM  p. 25

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YH102AAM  p. 36	YS112AZM / YS112BZM  p. 37	TH20TM60  p. 40
YS113AZM  p. 43	YH133AAM / YH133BAM  p. 45	TH24TM01  p. 46
YH152AAM / YH156AAM  p. 47	SH95TM  p. 48	SH04TM  p. 49
SH17TM50  p. 50	“DUO” SH08TM80  p. 52	REVERSIBLE KNIVES  p. 54

FRESA PER INCASTRI GROOVE CUTTER FOR BISCUIT JOINTERS LAMELLEN-NUTFRÄSER



STEEL BODY

Fresa a taglienti e rasanti riportati in HM per eseguire incastri con fresatrici manuali. Adatta al taglio lungo vena e trasverso vena su legni teneri e duri, multistrato truciolari, MDF e laminati.

HM groove cutter for grooving. Suitable for standard handheld machines to produce biscuit joints.

Tragkörper aus Stahl, HW-bestückt, mit Nebenlöchern für handelsübliche Lamellen-Maschinen. Zum ausrissfreien Nuten für Verbindungslamellen bei Eckverbindungen aller Art. Geeignet für alle Plattenwerkstoffe sowie Massivholz.

IN03TM01

Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.		€
100	3,95	22	2	4	7600 - 13900	IN03TM01022	•	63,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

TESTA PER INCASTRI GROOVE CUTTERHEAD FOR BISCUIT JOINTERS WENDEPLATTEN LAMELLEN-NUTFRÄSER

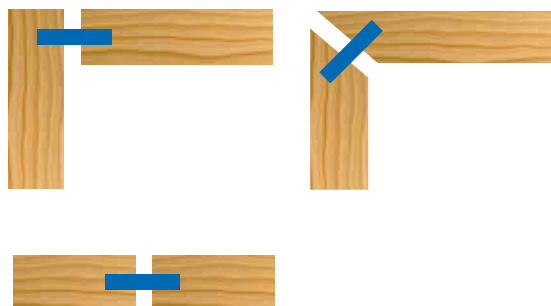
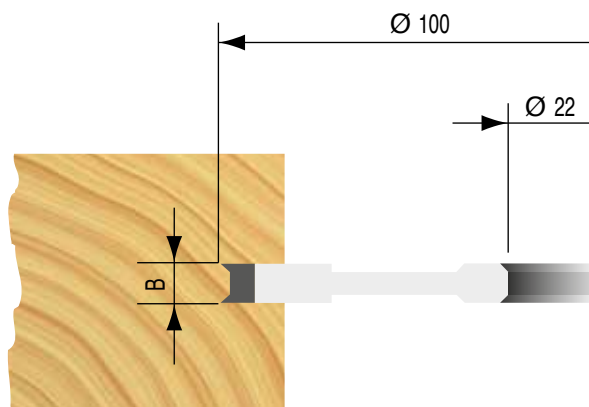


STEEL BODY

TH27TM01

									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.		€						
100	4	22	4	4	7600 - 13900	TH27TM01022	•	148,60	600301	500401	501101	600202	500401	501001

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



FRESA PER INCASTRI CONCAVI "MINI SPOT"
GROOVE CUTTER "MINI SPOT"
HARZGALLENFRÄSER "MINI SPOT"



STEEL BODY

Fresa saldobrasata a taglienti riportati in HM per eseguire incastri concavi con fresatrici manuali. Utilizzata per eliminare sacche di resina.

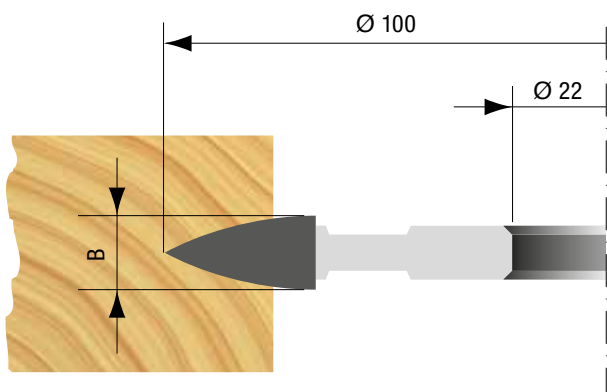
TCT-cutter with steel body and 4 pin holes for standard handheld machines. Chip thickness limitation and reduced recoil, suitable for manual feed.

Tragkörper aus Stahl, HW-bestückt, mit Nebenlöchern für handelsübliche Lamellen-Maschinen. Fräser zum Ausflicken von Harzgallen und Holzrisen in Massivholz.

IN03TM02

Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.		€
100	8	22	4	-	7600 - 13900	IN03TM02022	•	98,20

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA CON COLTELLINI PER INCASTRI GROOVE CUTTERHEAD WITH REVERSIBLE KNIVES WENDEPLATTEN-NUTFRÄSER



STEEL BODY

Testa con coltellini e rasanti in HM reversibili per eseguire incastri sottili di precisione (da 4 a 6 mm e da 8 a 12 mm).

Cutterhead with HM reversible knives and spurs for making thin precision grooves (from 4 to 6 mm and from 6 to 8 mm).

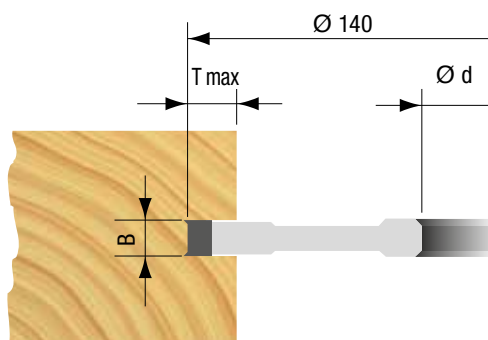
Tragkörper aus Stahl, Standard-Wendeplattentechnik. Zum exakten Nuten in Längs- und Querhölzern.

TH37TM									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.	€						
140	4	30÷50	4	4	32	5500-9400	TH37TM11	336,00	600301	500401	501101	600202	500401	501001
140	5	30÷50	4	4	32	5500-9400	TH37TM12	352,00	600302	500402	501102	600204	500402	501002
140	6	30÷50	4	4	42	5500-9400	TH37TM13	368,00	600303	500402	501102	600204	500402	501002



STEEL BODY

TH38TM									Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.	€					
140	8	30÷50	4	4	32	5500-9400	TH38TM11	323,20	600001	355021	503401	600201	500002
140	10	30÷50	4	4	32	5500-9400	TH38TM12	339,20	600012	355022	503402	600201	500002
140	12	30÷50	4	4	42	5500-9400	TH38TM13	352,00	600013	355023	503402	600201	500002



FRESA PER INCASTRI REGISTRABILI BRAZED ADJUSTABLE GROOVER VERSTELLNUTER



STEEL BODY

Fresa saldobrasata a taglienti e rasanti riportati in HM per eseguire incastri di precisione a spessore variabile (da 1,8 a 4,8 mm e da 4 a 14 mm). La fresa viene fornita completa di anelli distanziali.

HM brazed cutter with spurs for making precision grooves with various thickness (from 1,8 to 4,8 mm and from 4 to 14 mm). The tool is complete with spacing rings.

Tragkörper aus Stahl, HW-bestückt, zweiteilige Konstruktion verstellbar im Zehntelbereich. Zum präzisen Nuten in Massivholz und Plattenwerkstoffen. Inkl. Zwischenringe.

IR10TM

Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€
140	1,8 - 3,4	30	4	4	15	5500 - 9800	IR10TM01030	•	209,50
140	1,8 - 3,4	31,75	4	4	15	5500 - 9800	IR10TM01031	•	239,50
140	1,8 - 3,4	35	4	4	15	5500 - 9800	IR10TM01035	•	239,50
140	1,8 - 3,4	40	4	4	15	5500 - 9800	IR10TM01040	•	239,50
140	1,8 - 3,4	50	4	4	15	5500 - 9800	IR10TM01050	•	239,50
140	2,5 - 4,8	30	4	4	15	5500 - 9800	IR10TM02030	•	209,50
140	2,5 - 4,8	31,75	4	4	15	5500 - 9800	IR10TM02031	•	239,50
140	2,5 - 4,8	35	4	4	15	5500 - 9800	IR10TM02035	•	239,50
140	2,5 - 4,8	40	4	4	15	5500 - 9800	IR10TM02040	•	239,50
140	2,5 - 4,8	50	4	4	15	5500 - 9800	IR10TM02050	•	239,50

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

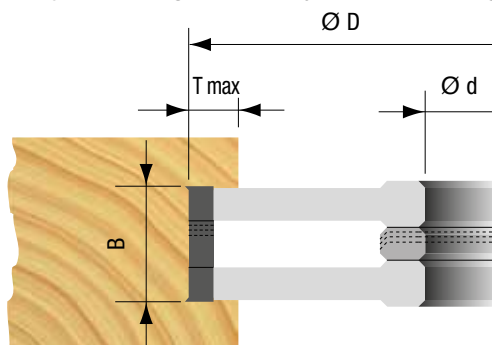


STEEL BODY

IR20TM

Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€
160	4 - 7,5	30	4	4	35	4800 - 8600	IR20TM01030	•	216,00
160	4 - 7,5	31,75	4	4	35	4800 - 8600	IR20TM01031	•	246,00
160	4 - 7,5	35	4	4	35	4800 - 8600	IR20TM01035	•	246,00
160	4 - 7,5	40	4	4	35	4800 - 8600	IR20TM01040	•	246,00
160	4 - 7,5	50	4	4	35	4800 - 8600	IR20TM01050	•	246,00
160	7,5 - 14	30	4	4	35	4800 - 8600	IR20TM02030	•	216,00
160	7,5 - 14	31,75	4	4	35	4800 - 8600	IR20TM02031	•	246,00
160	7,5 - 14	35	4	4	35	4800 - 8600	IR20TM02035	•	246,00
160	7,5 - 14	40	4	4	35	4800 - 8600	IR20TM02040	•	246,00
160	7,5 - 14	50	4	4	35	4800 - 8600	IR20TM02050	•	246,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA CON COLTELLINI PER INCASTRI REGISTRABILI ADJUSTABLE CUTTERHEAD WITH REVERSIBLE KNIVES FOR GROOVES WENDEPLATTEN-VERSTELLNUTER



STEEL BODY



ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Testa con coltellini e rasanti in HM reversibili per eseguire incastri sottili di precisione (da 4 a 15 mm). L'utensile viene fornito completo di anelli distanziali. L'elemento centrale (tipo B) a due taglienti, monta coltelli standard da 7,65x12x1,5 mm.

Cutterhead with HM reversible knives and spurs for making thin precision grooves (from 4 to 15 mm), adjustable by means of spacing rings. The central element (type B) fits two standard disposable knives of 7,65x12x1,5 mm. Spacing rings are included.

Zum universellen, präzisen Nuten in Massivholz und Plattenwerkstoffen, hervorragend bei abrasiven Werkstoffen mit starker Werkzeugbeanspruchung, 4 bis 15 mm. Inkl. Zwischenringe.

Zentrales Werkzeug (Typ B) mit zwei standard-Messer 7,65x12x1,5 mm.

TH23TM										Ricambi / Spare Parts / Ersatzteile									
Type	Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.	€										
A	140	4 - 7,5	30	4	4	32	5500 - 9400	TH23TM15030	● 239,70	600301		500401	501101			600202	500401	501001	
A	140	4 - 7,5	31,75	4	4	32	5500 - 9400	TH23TM15031	● 263,30	600301		500401	501101			600202	500401	501001	
A	140	4 - 7,5	35	4	4	32	5500 - 9400	TH23TM15035	● 263,30	600301		500401	501101			600202	500401	501001	
B	140	7,65	30	2	-	32	5500 - 9400	TH23TM20030	● 150,00		600001			350021	502403				
B	140	7,65	31,75	2	-	32	5500 - 9400	TH23TM20031	● 170,60		600001			350021	502403				
B	140	7,65	35	2	-	32	5500 - 9400	TH23TM20035	● 170,60		600001			350021	502403				
A+B	140	4 - 15	30	4 + 2	4	32	5500 - 9400	TH23TM30030	● 375,80	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	140	4 - 15	31,75	4 + 2	4	32	5500 - 9400	TH23TM30031	● 406,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	140	4 - 15	35	4 + 2	4	32	5500 - 9400	TH23TM30035	● 406,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A	160	4 - 7,5	40	4	4	35	4800 - 8200	TH23TM25040	● 263,30	600301		500401	501101			600202	500401	501001	
A	160	4 - 7,5	50	4	4	35	4800 - 8200	TH23TM25050	● 263,30	600301		500401	501101			600202	500401	501001	
B	160	7,65	40	2	-	35	4800 - 8200	TH23TM35040	● 160,00		600001			350021	502403				
B	160	7,65	50	2	-	35	4800 - 8200	TH23TM35050	● 180,90		600001			350021	502403				
A+B	160	4 - 15	40	4 + 2	4	35	4800 - 8200	TH23TM50040	● 406,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	160	4 - 15	50	4 + 2	4	35	4800 - 8200	TH23TM50050	● 436,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A	180	4 - 7,5	30	8	4	37	4200 - 7300	TH23TM05030	● 311,10	600301		500401	501101			600202	500401	501001	
A	180	4 - 7,5	31,75	8	4	37	4200 - 7300	TH23TM05031	● 341,10	600301		500401	501101			600202	500401	501001	
A	180	4 - 7,5	35	8	4	37	4200 - 7300	TH23TM05035	● 341,10	600301		500401	501101			600202	500401	501001	
A	180	4 - 7,5	40	8	4	37	4200 - 7300	TH23TM05040	● 341,10	600301		500401	501101			600202	500401	501001	
A	180	4 - 7,5	50	8	4	37	4200 - 7300	TH23TM05050	● 341,10	600301		500401	501101			600202	500401	501001	
B	180	7,65	30	2	-	37	4200 - 7300	TH23TM10030	● 176,40		600001			350021	502403				
B	180	7,65	31,75	2	-	37	4200 - 7300	TH23TM10031	● 207,30		600001			350021	502403				
B	180	7,65	35	2	-	37	4200 - 7300	TH23TM10035	● 207,30		600001			350021	502403				
B	180	7,65	40	2	-	37	4200 - 7300	TH23TM10040	● 207,30		600001			350021	502403				
B	180	7,65	50	2	-	37	4200 - 7300	TH23TM10050	● 207,30		600001			350021	502403				
A+B	180	4 - 15	30	8 + 2	4	37	4200 - 7300	TH23TM40030	● 456,50	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	180	4 - 15	31	8 + 2	4	37	4200 - 7300	TH23TM40031	● 497,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	180	4 - 15	35	8 + 2	4	37	4200 - 7300	TH23TM40035	● 497,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	180	4 - 15	40	8 + 2	4	37	4200 - 7300	TH23TM40040	● 497,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	
A+B	180	4 - 15	50	8 + 2	4	37	4200 - 7300	TH23TM40050	● 497,70	600301	600001	500401	501101	350021	502403	600202	500401	501001	

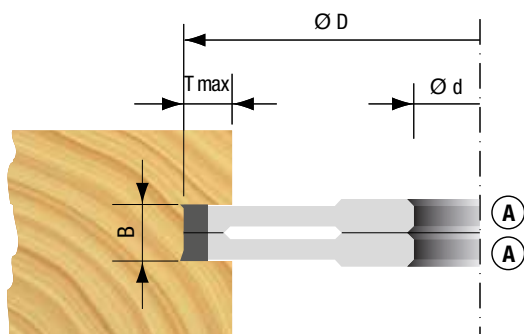
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Combinazioni possibili

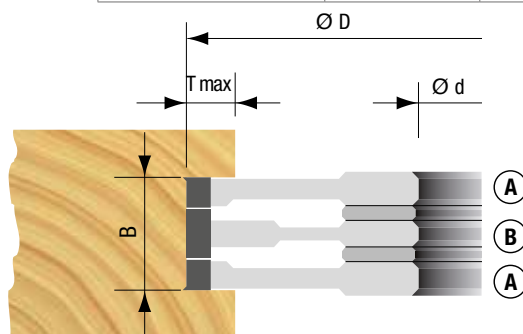
Cutterhead combinations

Fräse-Kombinationen

Set	Ø D [mm]	B [mm]	Art. Nr.
TH23TM30	140	4 ÷ 15	TH23TM15 + TH23TM20
TH23TM50	160	4 ÷ 15	TH23TM25 + TH23TM35
TH23TM40	180	4 ÷ 15	TH23TM05 + TH23TM10



TH23TM15 / TH23TM25 / TH23TM05



TH23TM30 / TH23TM50 / TH23TM40



TESTA CON COLTELLINI PER INCASTRI REGISTRABILI CON GHIERA ADJUSTABLE GROOVER WITH THREADED BUSH WENDEPLATTEN-VERSTELLNUTER



STEEL BODY

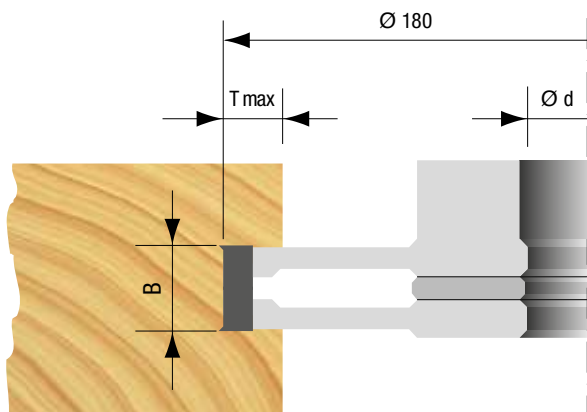
Testa con coltellini e rasanti in HM reversibili per eseguire incastri sottili di precisione (da 4 a 7,5 mm). La regolazione avviene tramite una ghiera filettata e graduata.

Cutterhead with steel body mounted on threaded bush, tungsten carbide standard reversible knives and spurs, 1/10 mm stepless adjustability for high precision groove cutting, chip thickness limitation and reduced recoil, suitable for manual feed.

Tragkörper aus Stahl, stufenlos verstellbar durch Spezialgewindebüchse, Standard-HW Wendeplattentechnik. Zum universellen, präzisen Nuten in Massivholz und Plattenwerkstoffen (4 bis 7,5 mm).

TH28TM01										Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€						
180	4 - 7,5	30	8	4	32	4200 - 7300	TH28TM01030	•	478,00	600301	500401	501101	600202	500401	501001
180	4 - 7,5	31,75	8	4	32	4200 - 7300	TH28TM01031	•	498,00	600301	500401	501101	600202	500401	501001
180	4 - 7,5	35	8	4	32	4200 - 7300	TH28TM01035	•	498,00	600301	500401	501101	600202	500401	501001

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA CON COLTELLINI PER INCASTRI REGISTRABILI ADJUSTABLE CUTTERHEAD WITH REVERSIBLE KNIVES FOR GROOVES WENDEPLATTEN-VERSTELLNUTER



STEEL BODY

Testa con coltellini e rasanti in HM reversibili per eseguire incastri di precisione. L'utensile viene fornito completo di anelli distanziali. L'elemento centrale, a due taglienti e 15 mm di spessore (tipo B), permette di ottenere maggiori larghezze di taglio.

Cutterhead with steel body, tungsten carbide standard reversible knives and spurs, adjustable with 1/10 mm spacing rings (included) for high precision groove cutting, chip thickness limitation and reduced recoil, suitable for manual and mechanical feed.

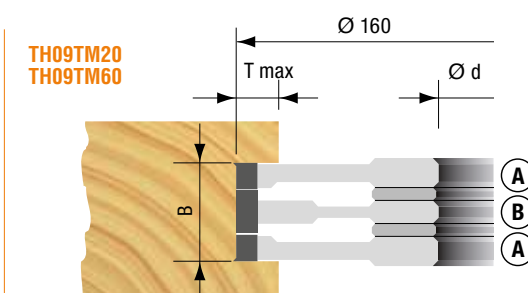
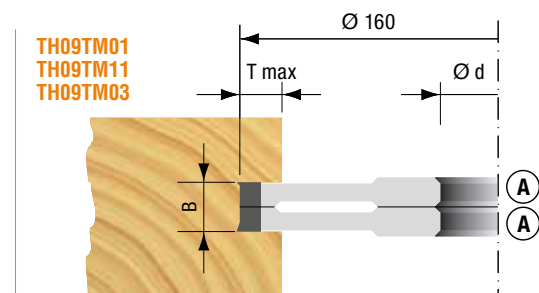
Tragkörper aus Stahl, Standard-HW-Wendeplattentechnik, verstellbar in 1/10 mm Abständen durch im Lieferumfang enthaltene Zwischenringe. Zum universellen, präzisen Nuten in Massivholz und Plattenwerkstoffen, für manuelle sowie mechanische Vorschübe geeignet.

TH09TM										Ricambi / Spare Parts / Ersatzteile							
Type	Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.	€								
A	160	8÷15	30	4	4	30	4800 - 8200	TH09TM01030	215,10	600001		350021		502403		600201	500002
A	160	8÷15	31,75	4	4	30	4800 - 8200	TH09TM01031	237,70	600001		350021		502403		600201	500002
A	160	8÷15	35	4	4	30	4800 - 8200	TH09TM01035	237,70	600001		350021		502403		600201	500002
A	160	8÷15	40	4	4	30	4800 - 8200	TH09TM01040	237,70	600001		350021		502403		600201	500002
A	160	8÷15	50	4	4	30	4800 - 8200	TH09TM01050	237,70	600001		350021		502403		600201	500002
B	160	15	30	2	-	30	4800 - 8200	TH09TM02030	170,00	600003		350004		502402			
B	160	15	31,75	2	-	30	4800 - 8200	TH09TM02031	184,30	600003		350004		502402			
B	160	15	35	2	-	30	4800 - 8200	TH09TM02035	184,30	600003		350004		502402			
B	160	15	40	2	-	30	4800 - 8200	TH09TM02040	184,30	600003		350004		502402			
B	160	15	50	2	-	30	4800 - 8200	TH09TM02050	184,30	600003		350004		502402			
A+B	160	8÷28	30	4 + 2	4	30	4800 - 8200	TH09TM20030	390,80	600001	600003	350021	350004	502403	502402	600201	500002
A+B	160	8÷28	31,75	4 + 2	4	30	4800 - 8200	TH09TM20031	430,80	600001	600003	350021	350004	502403	502402	600201	500002
A+B	160	8÷28	35	4 + 2	4	30	4800 - 8200	TH09TM20035	430,80	600001	600003	350021	350004	502403	502402	600201	500002
A+B	160	8÷28	40	4 + 2	4	30	4800 - 8200	TH09TM20040	430,80	600001	600003	350021	350004	502403	502402	600201	500002
A+B	160	8÷28	50	4 + 2	4	30	4800 - 8200	TH09TM20050	430,80	600001	600003	350021	350004	502403	502402	600201	500002
A	160	12,5÷24	30	4	4	30	4800 - 8200	TH09TM11030	218,10	600002		350023		502403		600201	500002
A	160	12,5÷24	31,75	4	4	30	4800 - 8200	TH09TM11031	248,10	600002		350023		502403		600201	500002
A	160	12,5÷24	35	4	4	30	4800 - 8200	TH09TM11035	248,10	600002		350023		502403		600201	500002
A	160	12,5÷24	40	4	4	30	4800 - 8200	TH09TM11040	248,10	600002		350023		502403		600201	500002
A	160	12,5÷24	50	4	4	30	4800 - 8200	TH09TM11050	248,10	600002		350023		502403		600201	500002
A	160	16÷30	30	4	4	30	4800 - 8200	TH09TM03030	245,00	600003		350004		502402		600201	500002
A	160	16÷30	31,75	4	4	30	4800 - 8200	TH09TM03031	275,00	600003		350004		502402		600201	500002
A	160	16÷30	35	4	4	30	4800 - 8200	TH09TM03035	275,00	600003		350004		502402		600201	500002
A	160	16÷30	40	4	4	30	4800 - 8200	TH09TM03040	275,00	600003		350004		502402		600201	500002
A	160	16÷30	50	4	4	30	4800 - 8200	TH09TM03050	275,00	600003		350004		502402		600201	500002
B	160	15	30	2	-	30	4800 - 8200	TH09TM13030	194,20	600003		350004		502402			
B	160	15	31,75	2	-	30	4800 - 8200	TH09TM13031	214,20	600003		350004		502402			
B	160	15	35	2	-	30	4800 - 8200	TH09TM13035	214,20	600003		350004		502402			
B	160	15	40	2	-	30	4800 - 8200	TH09TM13040	214,20	600003		350004		502402			
B	160	15	50	2	-	30	4800 - 8200	TH09TM13050	214,20	600003		350004		502402			
A+B	160	16÷44	30	4 + 2	4	30	4800 - 8200	TH09TM60030	452,30	600003		350004		502402		600201	500002
A+B	160	16÷44	31,75	4 + 2	4	30	4800 - 8200	TH09TM60031	492,30	600003		350004		502402		600201	500002
A+B	160	16÷44	35	4 + 2	4	30	4800 - 8200	TH09TM60035	492,30	600003		350004		502402		600201	500002
A+B	160	16÷44	40	4 + 2	4	30	4800 - 8200	TH09TM60040	492,30	600003		350004		502402		600201	500002
A+B	160	16÷44	50	4 + 2	4	30	4800 - 8200	TH09TM60050	492,30	600003		350004		502402		600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Combinazioni possibili
Cutterhead combinations
Fräse-Kombinationen

Set	Ø D [mm]	B [mm]	Art. Nr.
TH09TM20	160	8 ÷ 28	TH09TM01 + TH09TM02
TH09TM60	160	16 ÷ 44	TH09TM03 + TH09TM13



TESTA CON COLTELLINI PER INCASTRI REGISTRABILI ADJUSTABLE CUTTERHEAD WITH REVERSIBLE KNIVES FOR GROOVES WENDEPLATTEN-VERSTELLNUTER



STEEL BODY

Testa con coltellini e rasanti in HM reversibili per eseguire incastri di precisione (da 28 a 55 mm).

Cutterhead with HM reversible knives and spurs for making precision grooves (from 28 to 55 mm).

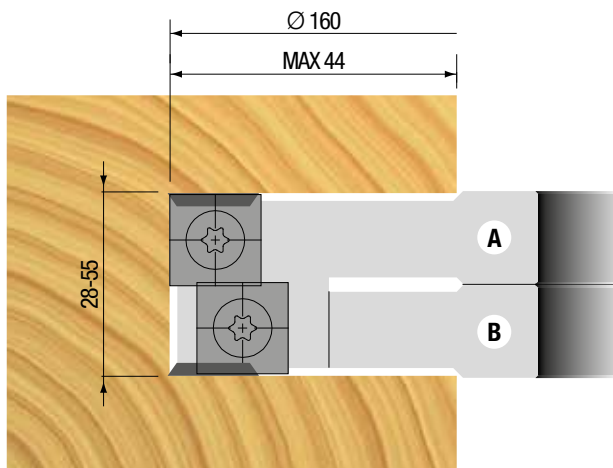
Werkzeugkörper aus Stahl, Wendepplatten-Technik mit Standard-HW-Vorschneidem.

Modular aufbaufähiges Fräswerkzeug zum Fälzen, Zapfenschneiden und Nuten (28 bis 55 mm).

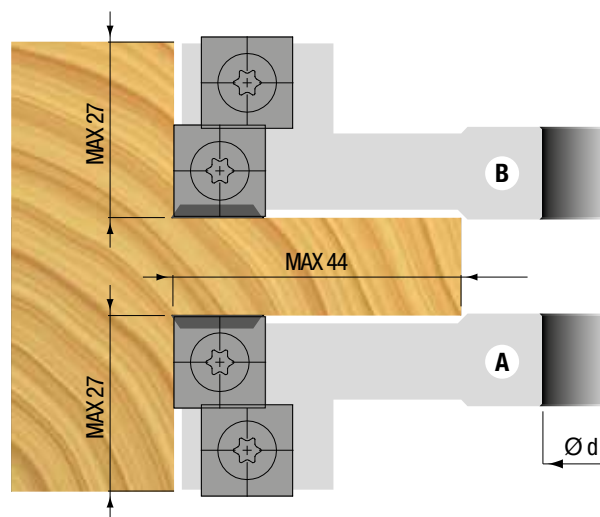
TH94TM10										Ricambi / Spare Parts / Ersatzteile	
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€		
160	28 - 55	30	4	4	44	4800 - 8200	TH94TM10030	•	352,30	600201	500002
160	28 - 55	31,75	4	4	44	4800 - 8200	TH94TM10031	•	382,30	600201	500002
160	28 - 55	35	4	4	44	4800 - 8200	TH94TM10035	•	382,30	600201	500002
160	28 - 55	40	4	4	44	4800 - 8200	TH94TM10040	•	382,30	600201	500002
160	28 - 55	50	4	4	44	4800 - 8200	TH94TM10050	•	382,30	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

STANDARD



COMBINAZIONI POSSIBILI CUTTERHEAD COMBINATIONS FRÄSE-KOMBINATIONEN



TESTA CON COLTELLINI PER TENONI REGISTRABILI ADJUSTABLE GROOVES CUTTERHEAD FOR TENONS WENDEPLATTEN-VERSTELLSCHLITZFRÄSER



STEEL BODY

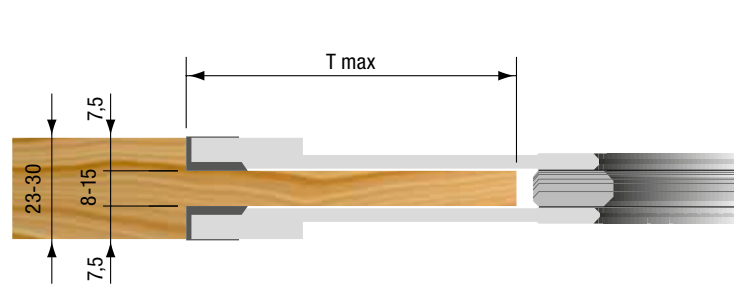
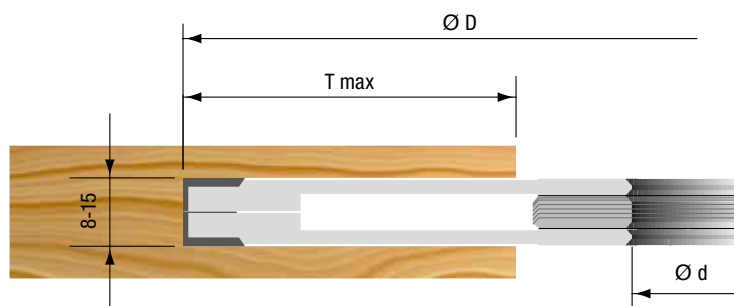
Testa con coltellini e rasanti in HM per eseguire tenoni di spessore variabile (da 8 a 15 mm). La regolazione avviene per mezzo di anelli distanziali compresi nella fornitura.

Cutterhead with steel body, tungsten carbide standard reversible knives and spurs, adjustable with 1/10 mm spacing rings (included) for high precision slot and tenon milling, chip thickness limitation and reduced recoil, suitable for manual and mechanical feed.

Grundkörper aus Stahl, 2-teilig, Breite verstellbar im 1/10 mm-Bereich durch im Lieferumfang enthaltene Zwischenringe. Verstellbarer Schlitzfräser, bestens geeignet für tiefe Nuten oder zum präzisen Schlitzzen und Zapfen von Eckverbindungen.

TH06TM										Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€					
200	8 - 15	30	4	4	65	3800 - 6500	TH06TM05030	•	350,20	600001	350021	502403	600201	500002
200	8 - 15	31,75	4	4	65	3800 - 6500	TH06TM05031	•	380,20	600001	350021	502403	600201	500002
200	8 - 15	35	4	4	65	3800 - 6500	TH06TM05035	•	380,20	600001	350021	502403	600201	500002
200	8 - 15	40	4	4	65	3800 - 6500	TH06TM05040	•	380,20	600001	350021	502403	600201	500002
200	8 - 15	50	4	4	65	3800 - 6500	TH06TM05050	•	380,20	600001	350021	502403	600201	500002
250	8 - 15	30	4	4	90	3000 - 5200	TH06TM10030	•	364,60	600001	350021	502403	600201	500002
250	8 - 15	31,75	4	4	90	3000 - 5200	TH06TM10031	•	394,60	600001	350021	502403	600201	500002
250	8 - 15	35	4	4	90	3000 - 5200	TH06TM10035	•	394,60	600001	350021	502403	600201	500002
250	8 - 15	40	4	4	90	3000 - 5200	TH06TM10040	•	394,60	600001	350021	502403	600201	500002
250	8 - 15	50	4	4	90	3000 - 5200	TH06TM10050	•	394,60	600001	350021	502403	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA PER BATTUTE CON TAGLIENTI ALTERNATI E RASANTI CUTTERHEAD WITH ALTERNATE SHEAR KNIVES AND SPURS WENDEPLATTEN-FALZKOPF



STEEL BODY

Testa con coltellini e rasanti in HM reversibili per eseguire battute e contornature. L'angolo assiale favorisce un miglior scarico del truciolo e una maggiore resa in termini di avanzamento oltre a migliorare la tenuta di taglio.

Cutterhead with tungsten carbide reversible knives and spurs, alternate axial angle for excellent cutting results, chip thickness limitation and reduced recoil, suitable for manual and mechanical feed.

Grundkörper aus Stahl oder Aluminium, Wendeplattentechnik mit Standard-Hartmetall-Wendeplatten. Geeignet zum Fügen, Nuten und Fälzen in Massivholz und Plattenwerkstoffen aller Art, besonders saubere Bearbeitung mit Achswinkel.

TH02TM										Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€					
125	50	30	4	4	25	6100 - 10600	TH02TM04030	•	155,40	600006	350009	502402	600201	500002
125	50	31,75	4	4	25	6100 - 10600	TH02TM04031	•	175,40	600006	350009	502402	600201	500002
125	50	35	4	4	25	6100 - 10600	TH02TM04035	•	175,40	600006	350009	502402	600201	500002
125	50	40	4	4	25	6100 - 10600	TH02TM04040	•	175,40	600006	350009	502402	600201	500002
125	50	50	4	4	25	6100 - 10600	TH02TM04050	•	175,40	600006	350009	502402	600201	500002
150	50	30÷50	4	4	35	5100 - 8800	TH02TM07		187,30	600006	350009	502402	600201	500002
180	50	30÷50	4	4	50	4200 - 7300	TH02TM06		187,30	600006	350009	502402	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

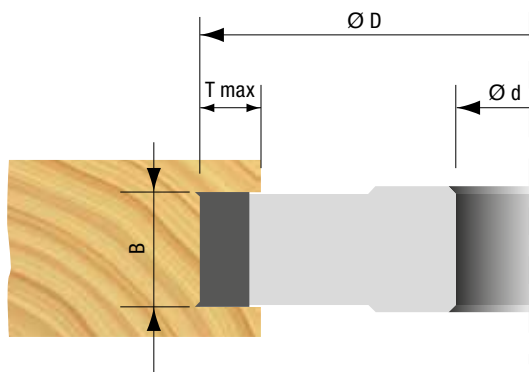


LIGHT ALLOY BODY



YH151AAM										Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€					
125	50	30	2	4	25	6100 - 10600	YH151AAM030	•	138,70	600006	341002	501403	600201	500002
125	50	31,75	2	4	25	6100 - 10600	YH151AAM031	•	158,70	600006	341002	501403	600201	500002
125	50	35	2	4	25	6100 - 10600	YH151AAM035	•	158,70	600006	341002	501403	600201	500002
125	50	40	2	4	25	6100 - 10600	YH151AAM040	•	158,70	600006	341002	501403	600201	500002
125	50	50	2	4	25	6100 - 10600	YH151AAM050	•	158,70	600006	341002	501403	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA ELICOIDALE A PIALlare E CONTORNARE HELICAL PLANNING AND ROUTING CUTTERHEAD WENDEPLATTEN-SPIRALFÜGEFRÄSER



LIGHT ALLOY BODY

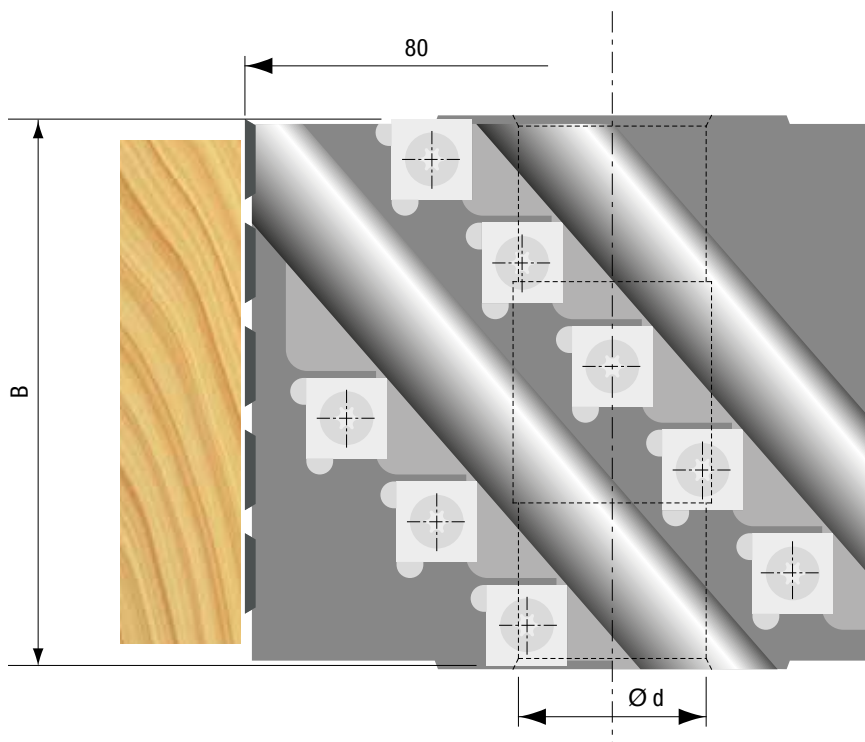
Testa elicoidale per medie finiture con corpo lega leggera equipaggiata di coltelli 14x14x2 in HM con quattro lati taglienti. Le teste possono essere fornite di rasanti su uno o sui due lati. Il prezzo verrà aumentato in base al numero di rasanti montati.

Helical head for medium finishing with body in light alloy equipped with 14x14x2 knives in HM with four cutting edges. The heads can be fitted with spurs on one or both sides. The price will be increased on the basis of the number of spurs installed.

Spiralmesserkopf Aluminium Werkzeugkörper, mit Standard-Wndemessem (4 Schneidfasen).
Preis bei Schneidnummer.

TH74TA01								Ricambi / Spare Parts / Ersatzteile	
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€		
80	76,5	30	12	6000 - 16000	TH74TA01030	•	162,60	600201	500003
80	76,5	31,75	12	6000 - 16000	TH74TA01031	•	182,60	600201	500003
80	76,5	35	12	6000 - 16000	TH74TA01035	•	182,60	600201	500003
80	76,5	40	12	6000 - 16000	TH74TA01040	•	182,60	600201	500003
80	76,5	50	12	6000 - 16000	TH74TA01050	•	182,60	600201	500003

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA CON COLTELLINI A INCLINAZIONE VARIABILE PER SMUSSI CUTTERHEAD WITH ADJUSTABLE ANGLE KNIVES FOR CHAMFERING WENDEPLATTEN-SCHWENKMESSERKOPF



STEEL BODY

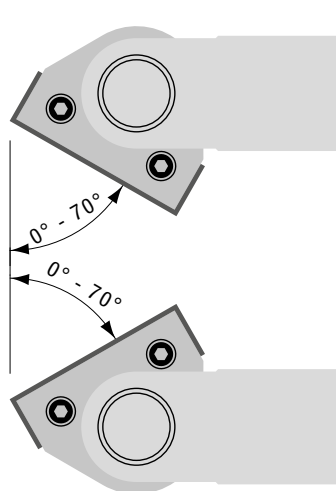
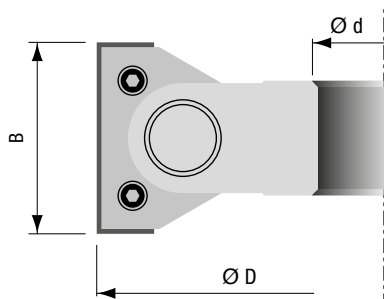
Testa con coltellini in HM reversibili per eseguire smussi con angolazione variabile da 0° a 70°. La regolazione degli spostamenti angolari avviene grado per grado. Le caratteristiche costruttive consentono un impiego pressoché universale.

Steel body execution with high-precision wing adjustability in 1° increments between 0°-70° to both sides, standard tungsten carbide reversible knives, for milling solid wood and all types of board material. suitable for manual feed.

Werkzeugkörper aus Stahl, präzise schwenkbar mit 1°-Verstellung von 0-70° in beide Richtungen. Mit Standard-Hartmetall-Wendeplattentechnik, manuelle Vorschübe geeignet, für präzise Flach- und Steilfasen in Massivholz und Plattenwerkstoffen.

TH17TM20								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€			
160	50	30	2	5000 - 7500	TH17TM20030	•	504,70	600006	302602	501401
160	50	31,75	2	5000 - 7500	TH17TM20031	•	524,70	600006	302602	501401
160	50	35	2	5000 - 7500	TH17TM20035	•	524,70	600006	302602	501401
160	50	40	2	5000 - 7500	TH17TM20040	•	524,70	600006	302602	501401
170	50	50	2	4700 - 7000	TH17TM20050	•	524,70	600006	302602	501401

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



0° - B max = 48

5° - B max = 48

10° - B max = 47

15° - B max = 46

20° - B max = 45

25° - B max = 43

30° - B max = 41

35° - B max = 39

45° - B max = 33

50° - B max = 30

55° - B max = 26

60° - B max = 23

65° - B max = 19

70° - B max = 15

TESTA CON COLTELLINI A INCLINAZIONE VARIABILE PER SMUSSI CUTTERHEAD WITH ADJUSTABLE ANGLE KNIVES FOR CHAMFERING WENDEPLATTEN-SCHWENKMESSERKOPF



LIGHT ALLOY BODY

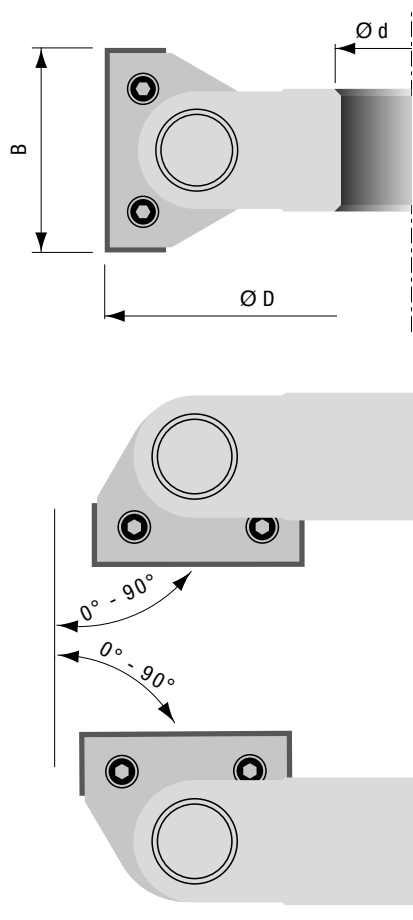
Testa in lega leggera con coltellini in HM reversibili per eseguire smussi con angolazione variabile da 0° a 90°. La regolazione degli spostamenti angolari avviene ogni 7,5°.
Le caratteristiche costruttive consentono un impiego pressoché universale.

Cutterhead in light alloy with HM reversible knives. The two wings are adjustable every 7,5° from 0° to 90°. Thanks to the particular construction, this tool is of universal use.

Leichtmetallkopf mit umschaltbaren HW-Messern zum Anfasen mit variablem Winkel von 0° bis 90°. Die Winkerverschiebung wird alle 7,5° eingestellt. Die Konstruktionsmerkmale erlauben einen nahezu universellen Einsatz.

TH17TM ECO								Ricambi / Spare Parts / Ersatzteile	
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€		
140	50	30	2	5000 - 7500	TH17TM41030	•	314,20	600006	502305
140	50	31,75	2	5000 - 7500	TH17TM41031	•	334,20	600006	502305
140	50	35	2	5000 - 7500	TH17TM41035	•	334,20	600006	502305
160	50	40	2	4700 - 7000	TH17TM40040	•	319,20	600006	502305
160	50	50	2	4700 - 7000	TH17TM40050	•	339,20	600006	502305

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



0° - Bmax = 48,0
7,5° - Bmax = 47,5
15° - Bmax = 46,0
22,5° - Bmax = 44,0
30° - Bmax = 41,0
37,5° - Bmax = 37,5
45° - Bmax = 33,0
52,5° - Bmax = 28,5
60° - Bmax = 23,0
67,5° - Bmax = 17,0
75° - Bmax = 11,0
82,5° - Bmax = 4,5

TESTA PORTACOLTELLI PER SMUSSI A 45° CUTTERHEAD FOR 45° BEVELS WENDEPLATTEN-FASEFRÄSER 45°



LIGHT ALLOY BODY

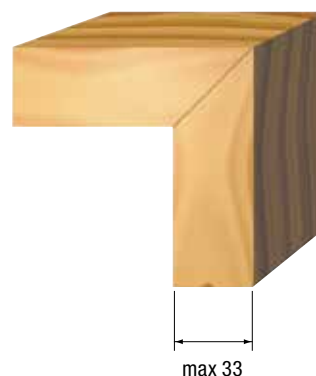
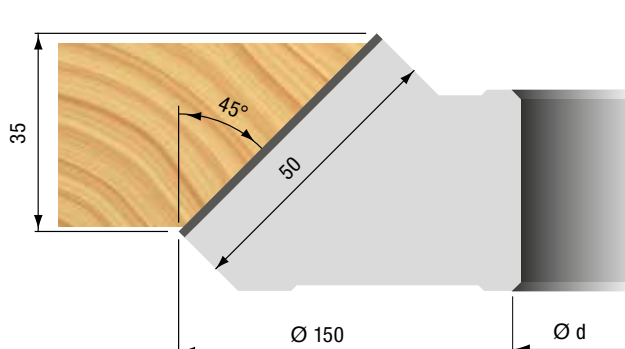
Testa a due taglienti con corpo in lega leggera per la realizzazione di smussi a 45° molto precisi. Adatta per lavorazioni su legno massiccio e pannello.

Body in light alloy execution, standard tungsten carbide reversible knives, precise 45° bevel cuts on solid wood and all types of board material, chip thickness limitation and reduced recoil, suitable for manual feed.

Grundkörper aus hochfestem Aluminium, Standard-Hartmetall-Wendeplatten für lange Standwege. Zum Herstellen von Fasen und Gehrungen mit exaktem 45° Winkel, ideal für Handvorschübe geeignet.

YH131AAM								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€			
150	36	30	2	5100 - 8800	YH131AAM030	•	153,00	600006	340029	501404
150	36	31,75	2	5100 - 8800	YH131AAM031	•	173,00	600006	340029	501404
150	36	35	2	5100 - 8800	YH131AAM035	•	173,00	600006	340029	501404
150	36	40	2	5100 - 8800	YH131AAM040	•	173,00	600006	340029	501404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SET UTENSILI PER RAGGIARE E SMUSSARE TOOLING SET FOR ROUNDING AND CHAMFERING ABRUND-FÜGE- U. FASEFRÄSER-SET



LIGHT ALLOY BODY

Gruppo di teste in lega leggera composto da due elementi. L'elemento ① è sagomato e consente con un lato del coltello di effettuare raggi (R 4) e con l'altro di realizzare smussi a 45°. L'elemento ② consente sia la lavorazione della parte dritta del pannello da lavorare che la raggiatura o smussatura nella parte inferiore. Il set comprende inoltre gli anelli distanziali per le varie regolazioni da inserire tra i due elementi. È possibile montare coltelli optional R 2, R 3, R 4, R 5 e R 6 sia a singolo raggio che a doppio raggio.

Cutterset consisting of two elements in light alloy execution, standard tungsten carbide reversible knives, for high precision planning and chamfering/rounding in one single working operation, adjustable for milling solid wood and all types of board material from 18-50 mm thickness (spacing rings included), chip thickness limitation and reduced recoil, suitable for manual feed. The cutterheads are equipped with knives R 4 while R 2, R 3, R 5, R 6 are available on request.

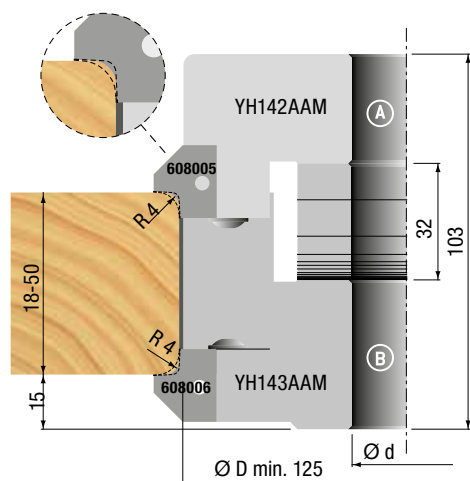
2-teiliges Werkzeugset, Tragkörper aus hochfestem Aluminium, Grundbestückung mit R 4 mm (+ Fase) Profilplatten Standard-HW-Wendeplattentechnik. Zum Fügen und Abrunden/Fasen (R 2-6 mm) in einem Arbeitsgang, für Massivholz und alle Plattenwerkstoffe geeignet, verstellbar für unterschiedliche Materialstärken zwischen 18-50 mm, inkl. Zwischenringe.

YS118AZM							Ricambi / Spare Parts / Ersatzteile							
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€	①							
139	103	30	2 + 2 + 2	5500 - 9400	YS118AZM030	• 439,50	YH142AAM							
								608001 R2	608003 R3	608005 R4	608007 R5	608009 R6	340024	501404
139	103	31,75	2 + 2 + 2	5500 - 9400	YS118AZM031	• 469,50	YH143AAM							
								608002 R2	608004 R3	608006 R4	608008 R5	608010 R6	340024	501404
139	103	35	2 + 2 + 2	5500 - 9400	YS118AZM035	• 469,50	YH143AAM							
								600006	341002	501404				
139	103	40	2 + 2 + 2	5500 - 9400	YS118AZM040	• 469,50	OPTIONAL							
								YH142AAM	YH143AAM	608012 R2	608013 R3	608014 R4	608015 R5	608016 R6
139	103	50	2 + 2 + 2	5500 - 9400	YS118AZM050	• 469,50								

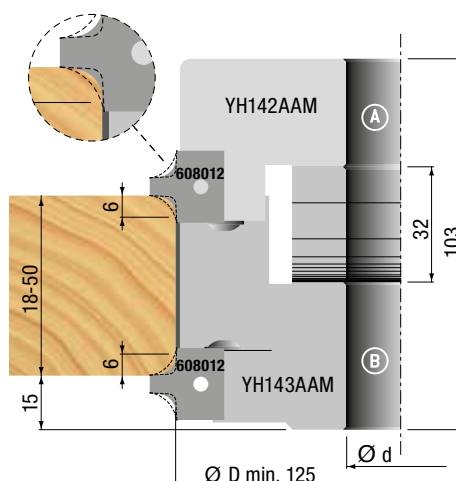
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Teste con in dotazione i coltelli R=4 / Heads standard equipment with knives R=4 / Köpfe ausgestattet mit Messern R=4

STANDARD



OPZIONALE: COLTELLO DOPPIO RAGGIO/SMUSSO OPTIONAL: DOUBLE RADIUS KNIVES OPTIONALE: DOPPELRADIUS-MESSER



TESTA CON COLTELLINI PER QUARTI DI TONDO CUTTERHEAD WITH KNIVES FOR QUARTER ROUNDS WECHSELPLATTEN-VIERTELSTABFRÄSER



STEEL BODY

Utensile con coltellini a due taglienti ed angolo assiale in HM per eseguire quarti di tondo.

Le teste possono montare tutti i profili indicati nella tabella, ma vengono fornite corodate dei seguenti coltelli: TH70TM01 R 5 mm, TH70TM02 R 15 mm

Steel body with standard tungsten carbide profiled knives for quarter rounds, axial angle for excellent milling results and reduced cutting pressure, different radius (see spare part list below) can be fitted onto the same tool body, TH70TM01 is supplied with R 5 mm, TH70TM02 is supplied with R 15 mm, chip thickness limitation and reduced recoil, suitable for manual feed.

Werkzeugkörper aus Stahl, Standard-HW-Profilplatten in axialem Winkel für besonders saubere Schnitte. Zum Abrunden von Massivholz und allen handelsüblichen Plattenwerkstoffen. TH70TM10 wird geliefert mit allen Radien von 3-10 mm, Einzelfräser TH70TM01 mit R 5 mm, TH70TM02 mit R 15 mm.

TH70TM01								Ricambi / Spare Parts / Ersatzteile							
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€								
147	20	30	2	5200 - 8000	TH70TM01030	•	170,60	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	31,75	2	5200 - 8000	TH70TM01031	•	190,60	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	35	2	5200 - 8000	TH70TM01035	•	190,60	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	40	2	5200 - 8000	TH70TM01040	•	190,60	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	50	2	5200 - 8000	TH70TM01050	•	190,60	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404

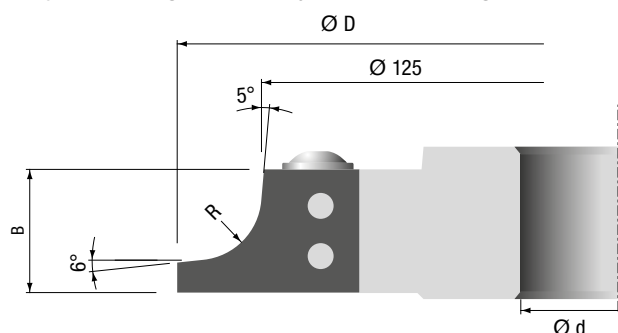
Teste con in dotazione i coltelli R=5 / Heads standard equipment with knives R=5 / Köpfe ausgestattet mit Messern R=5

TH70TM02								Ricambi / Spare Parts / Ersatzteile							
167	30	30	2	4600 - 7300	TH70TM02030	•	191,00	601457 R12	601458 R15	601459 R18	601460 R20			350020	502404
167	30	31,75	2	4600 - 7300	TH70TM02031	•	211,00	601457 R12	601458 R15	601459 R18	601460 R20			350020	502404
167	30	35	2	4600 - 7300	TH70TM02035	•	211,00	601457 R12	601458 R15	601459 R18	601460 R20			350020	502404
167	30	40	2	4600 - 7300	TH70TM02040	•	211,00	601457 R12	601458 R15	601459 R18	601460 R20			350020	502404
167	30	50	2	4600 - 7300	TH70TM02050	•	211,00	601457 R12	601458 R15	601459 R18	601460 R20			350020	502404

Teste con in dotazione i coltelli R=15 / Heads standard equipment with knives R=15 / Köpfe ausgestattet mit Messern R=15

TH70TM10 - SET								Ricambi / Spare Parts / Ersatzteile							
147	20	30	2	5200 - 8000	TH70TM10030	•	393,10	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	31,75	2	5200 - 8000	TH70TM10031	•	413,10	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	35	2	5200 - 8000	TH70TM10035	•	413,10	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	40	2	5200 - 8000	TH70TM10040	•	413,10	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404
147	20	50	2	5200 - 8000	TH70TM10050	•	413,10	601451 R3	601452 R4	601453 R5	601454 R6	601455 R8	601456 R10	350024	502404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TH70TM10: Set fornito in cassetta di legno composto da testa TH70TM01 e tutti i coltelli da R=3 a R=10.

TH70TM10: Set supplied in a wooden box composed of TH70TM01 head and all knives from R=3 to R=10.

TH70TM10: Set wird in einer Holzkassette geliefert und besteht aus TH70TM01 Kopf und allen Messern von R=3 bis R=10.

SET MULTIRAGGIO MULTIRADIUS SET VIERTELSTABFRÄSER-SET



LIGHT ALLOY BODY



ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Il set, pensato per la realizzazione di molteplici profili raggiati, è composto da una testa in lega leggera con due coltelli di R 5/10 mm montati sull'utensile e quattro coltelli con R 3/6 mm e R 4/8 mm di ricambio.

Light alloy body with standard tungsten carbide profiled knives for flexible machining of quarter rounds, all radii match a 105 mm guide ring, body is mounted with R 5/10 mm knives, profiles R 4/8 and R 3/6 mm are included in the set, chip thickness limitation and reduced recoil, suitable for manual feed.

Tragkörper aus hochfestem Aluminium, Standard-HW-Profilplatten, Fräser-Set zum vielseitigen und variablen Abrunden von Massivholz und allen Plattenwerkstoffen. Messer mit Radien R 5/10 mm montiert, Austauschprofile R 4/8 und R 3/6 mm im Lieferumfang enthalten, für manuellen Vorschub geeignet.

Set fornito in cassetta di plastica

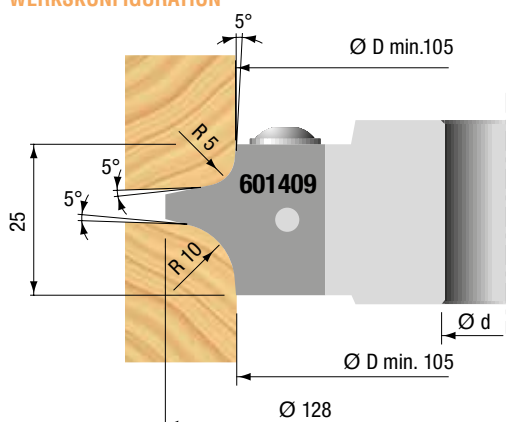
Set supplied in a plastic box

Set wird in Kunststoff-Box geliefert

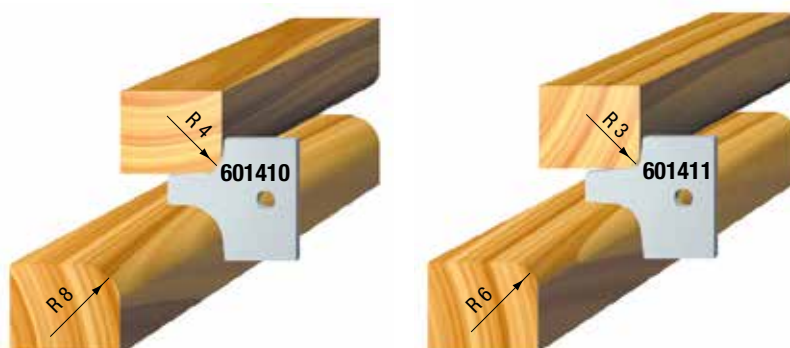
YS107BZM									Ricambi / Spare Parts / Ersatzteile:					
Ø D [mm]	B [mm]	Ø d [mm]	Z	R [mm]	RPM min-max	Art. Nr.		€						
128	25	30	2	3-4-5-6-8-10	5800 - 10200	YS107BZM030	•	233,00	YH110BAM	601409	601410	601411	340025	501404
128	25	31,75	2	3-4-5-6-8-10	5800 - 10200	YS107BZM031	•	253,00	YH110BAM	601409	601410	601411	340025	501404
128	25	35	2	3-4-5-6-8-10	5800 - 10200	YS107BZM035	•	253,00	YH110BAM	601409	601410	601411	340025	501404
128	25	40	2	3-4-5-6-8-10	5800 - 10200	YS107BZM040	•	253,00	YH110BAM	601409	601410	601411	340025	501404
128	25	50	2	3-4-5-6-8-10	5800 - 10200	YS107BZM050	•	253,00	YH110BAM	601409	601410	601411	340025	501404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

PROFILO MONTATO DI SERIE STANDARD MOUNTED KNIVES WERKSKONFIGURATION



PROFILI DI RICAMBIO SPARE KNIVES ERSATZMESSE



SET MULTIRAGGIO MULTIRADIUS SET VIERTELSTABFRÄSER-SET



LIGHT ALLOY BODY

Set ideato per la realizzazione di molteplici profili raggiati. il set è composto da una testa in lega leggera con due coltelli di R 15/20 mm montati sull'utensile e due coltelli con R 12/18 mm di ricambio.

Light alloy body with standard tungsten carbide profiled knives for flexible machining of quarter rounds, all radii match a 105 mm guide ring, body is mounted with R 15/20 mm knives, profiles R 12/18 mm are included in the set, chip thickness limitation and reduced recoil, suitable for manual feed.

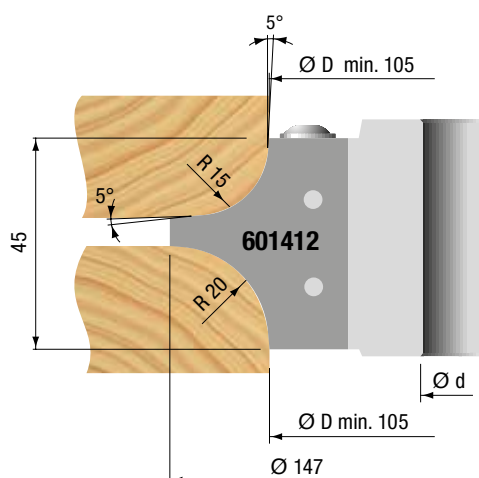
Tragkörper aus hochfestem Aluminium, Standard-HW-Profilplatten, Fräser-Set zum vielseitigen und variablen Abrunden von Massivholz und allen Plattenwerkstoffen. Messer R 15/20 mm montiert, Austauschprofil R 12/18 mm im Lieferumfang enthalten, für manuellen Vorschub geeignet.

Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

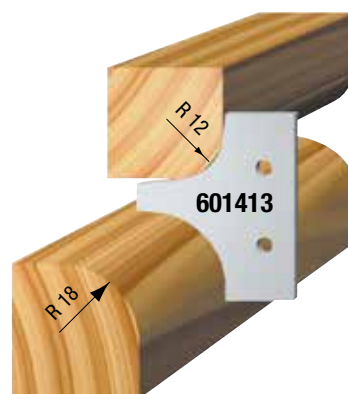
YS108BZM									Ricambi / Spare Parts / Ersatzteile:				
Ø D [mm]	B [mm]	Ø d [mm]	Z	R [mm]	RPM min-max	Art. Nr.		€					
147	45	30	2	12-15-18-20	5100 - 8800	YS108BZM030	•	295,70	YH111BAM	601412	601413	340030	501404
147	45	31,75	2	12-15-18-20	5100 - 8800	YS108BZM031	•	315,70	YH111BAM	601412	601413	340030	501404
147	45	35	2	12-15-18-20	5100 - 8800	YS108BZM035	•	315,70	YH111BAM	601412	601413	340030	501404
147	45	40	2	12-15-18-20	5100 - 8800	YS108BZM040	•	315,70	YH111BAM	601412	601413	340030	501404
147	45	50	2	12-15-18-20	5100 - 8800	YS108BZM050	•	315,70	YH111BAM	601412	601413	340030	501404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

PROFILO MONTATO DI SERIE STANDARD MOUNTED KNIVES WERKSKONFIGURATION



PROFILI DI RICAMBIO SPARE KNIVES ERSATZMESSE



SET PER RAGGI CONCAVI E CONVESSI TOOLING SET FOR CONCAVE AND CONVEX QUARTER ROUNDS DOPPELRADIUSFRÄSER-SET



LIGHT ALLOY BODY

Questo set è stato ideato per la realizzazione di molteplici raggi concavi e convessi ed è composto da una testa in lega leggera con due coltelli di R 4 montati sull'utensile e quattro coltelli con R 6 mm e R 8 mm di ricambio.

This set was designed to produce a variety of concave and convex rounds. It consists of a light alloy cutterhead with two R 4 mm knives mounted on the tool and four spare R 6 and R 8 mm knives.

Grundkörper aus hochfestem Aluminium zur Aufnahme von 3 verschiedenen Radiusmessern, zum Fräsen von konkaven und konvexen Rundungen an Weich- und Harthölzern. **Set YS105BZM** montiert mit Messern R 4 mm und Messer R 6 und R 8 mm im Lieferumfang enthalten.

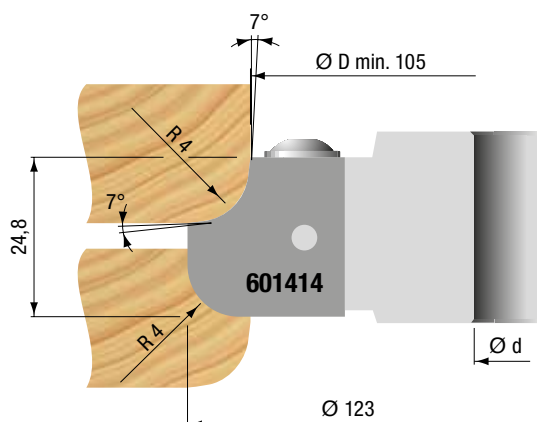
Set fornito in cassetta di plastica

Set supplied in a plastic box

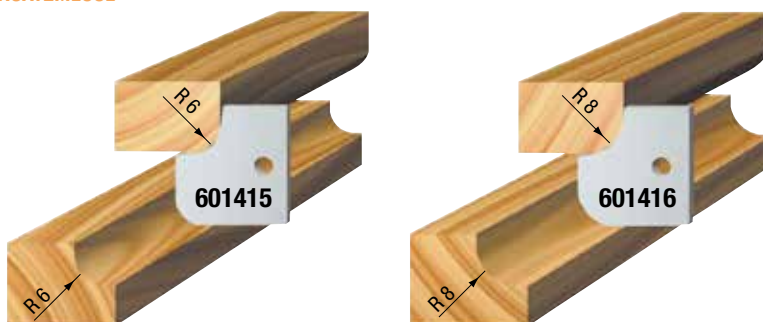
Set wird in Kunststoff-Box geliefert

YS105BZM									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	R [mm]	RPM min-max	Art. Nr.		€						
123	25	30	2	④ - 6 - 8	6100 - 10600	YS105BZM030	•	266,80	YH108BAM	601414	601415	601416	340025	501404
123	25	31,75	2	④ - 6 - 8	6100 - 10600	YS105BZM031	•	286,80	YH108BAM	601414	601415	601416	340025	501404
123	25	35	2	④ - 6 - 8	6100 - 10600	YS105BZM035	•	286,80	YH108BAM	601414	601415	601416	340025	501404
123	25	40	2	④ - 6 - 8	6100 - 10600	YS105BZM040	•	286,80	YH108BAM	601414	601415	601416	340025	501404
123	25	50	2	④ - 6 - 8	6100 - 10600	YS105BZM050	•	286,80	YH108BAM	601414	601415	601416	340025	501404

PROFILO MONTATO DI SERIE STANDARD MOUNTED KNIVES WERKSKONFIGURATION



PROFILI DI RICAMBIO SPARE KNIVES ERSATZMESSE



SET MEZZITONDI HALF-ROUND SETS HALBSTABFRÄSER-SET



LIGHT ALLOY BODY

Questo utensile con corpo in lega leggera a due taglienti è stato pensato per eseguire mezzitondi. Il set include, oltre all'utensile con due coltelli di R 10 mm montati, 2+2 coltelli di ricambio con R 8 e R 9 mm.

This tool, consisting of a light alloy body with two knives has been designed to work half rounds. The set, besides the two R 10 mm knives, includes 2+2 R 8 and R 9 mm spare knives.

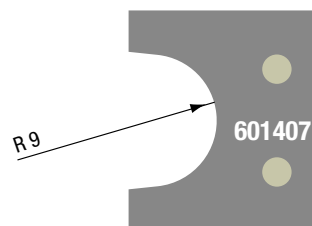
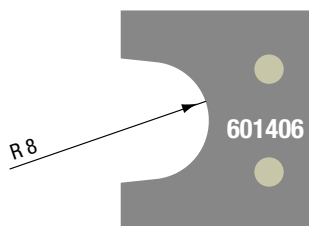
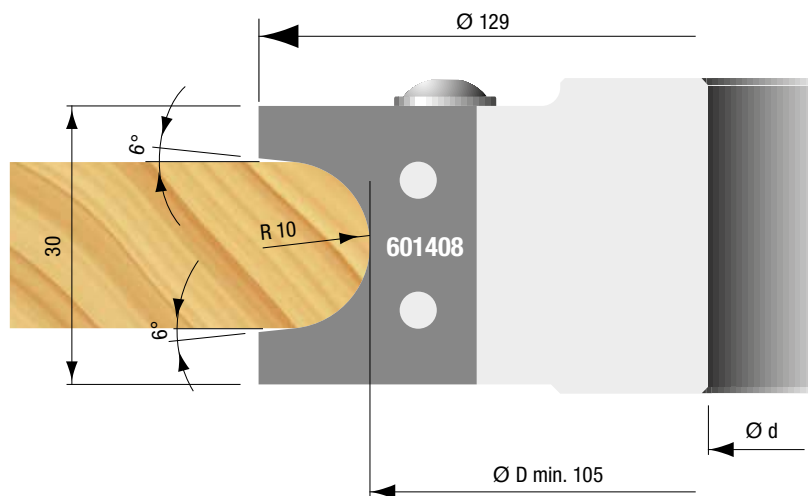
Set YS104BZM ist mit Messer R 10 mm montiert und die Austauschmesser R 8 mm und R 9 mm sind im Lieferumfang enthalten. Tragkörper aus hochfestem Aluminium, für manuelle Vorschübe geeignet.

Set fornito in cassetta di plastica

Set supplied in a plastic box

Set wird in Kunststoff-Box geliefert

YS104BZM								Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	R [mm]	RPM min-max	Art. Nr.	€						
129	30	30÷50	2	8-9-10	5800 - 10200	YS104BZM	274,00	YH107BAM	601408	601406	601407	340020	501404



TESTA PER PIATTABANDE MULTIPROFILO CON COLTELLI IN HM PANEL RAISING CUTTERHEAD WITH KNIVES IN HM PROFILPLATTEN-ABPLATTFRÄSER



STEEL BODY

Testa con coltellini in HM per piattabande multiprofilo. La testa è disponibile in due versioni: tipo 1 (con posizionamento del legno sotto), tipo 2 (con posizionamento del legno sopra). La testa può montare tutti i coltelli indicati nella pagina successiva ottenendo in questo modo i profili indicati. La **Testa tipo 1** viene fornita corredata con i coltellini art. **601482 e 601480**. La **Testa tipo 2** viene fornita corredata con i coltelli art. **601492 e 601490**, gli altri coltelli possono essere forniti a richiesta.

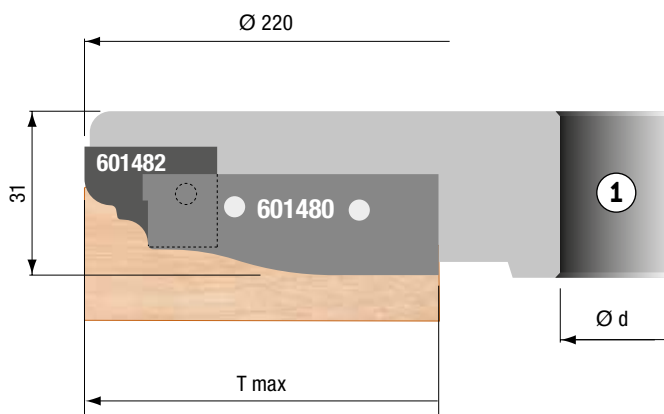
Steel body with tungsten carbide profiled knives, for high precision panel raising, **Head 1** fitted with profiles **601482 and 601480**, **Head 2** fitted with profiles **601492 and 601490**, cutters can be equipped with further profiles as indicated below, chip thickness limitation and reduced recoil, suitable for both manual and mechanical feed.

Zum Fräsen von unterschiedlichen Abplattprofilen, für Türen und Küchenmöbel in Massivholz und allen Plattenwerkstoffen. Grundkörper aus Stahl, **Werkzeug 1** mit Schneiden **601482 und 601480**, **Werkzeug 2** mit Schneiden **601492 und 601490** geliefert, weitere Profile (siehe unten) auf Anfrage, spandickenbegrenzt und rückschlagarm, für manuelle sowie mechanische Vorschübe geeignet.

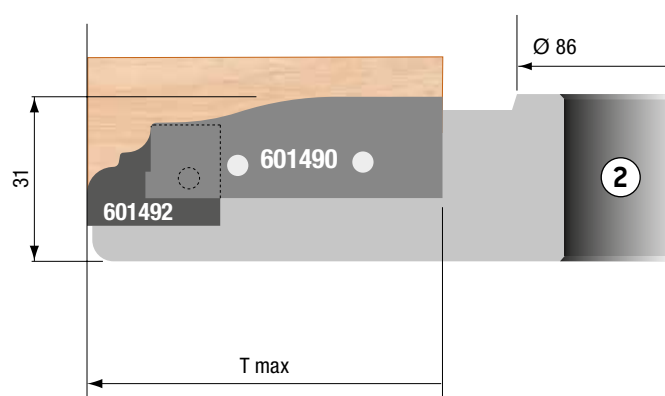
TH48TM										Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	T max [mm]	RPM min-max	Type	Art. Nr.		€						
220	31	30	2 + 2	70	3500 - 6000	①	TH48TM30030	•	357,70	601480	601481	601482	601483	601484	601485
220	31	31,75	2 + 2	70	3500 - 6000	①	TH48TM30031	•	377,70						
220	31	35	2 + 2	70	3500 - 6000	①	TH48TM30035	•	377,70						
220	31	40	2 + 2	70	3500 - 6000	①	TH48TM30040	•	377,70						
220	31	50	2 + 2	70	3500 - 6000	①	TH48TM30050	•	377,70	350010	502404	303040	502402		
Ø D [mm]	B [mm]	Ø d [mm]	Z	T max [mm]	RPM min-max		Art. Nr.		€						
220	31	30	2 + 2	70	3500 - 6000	②	TH48TM31030	•	363,40	601490	601491	601492	601493	601494	601495
220	31	31,75	2 + 2	70	3500 - 6000	②	TH48TM31031	•	383,40						
220	31	35	2 + 2	70	3500 - 6000	②	TH48TM31035	•	383,40						
220	31	40	2 + 2	70	3500 - 6000	②	TH48TM31040	•	383,40						
220	31	50	2 + 2	70	3500 - 6000	②	TH48TM31050	•	383,40	350010	502404	303039	502402		

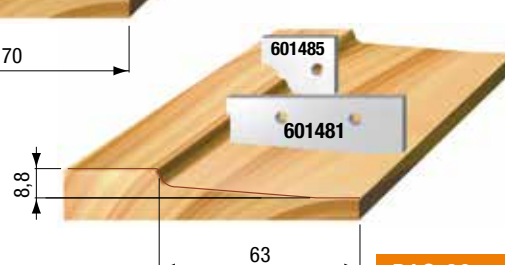
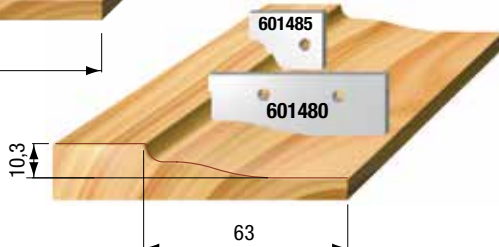
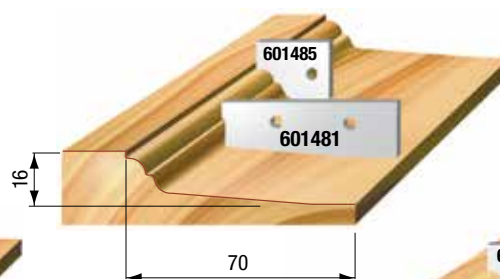
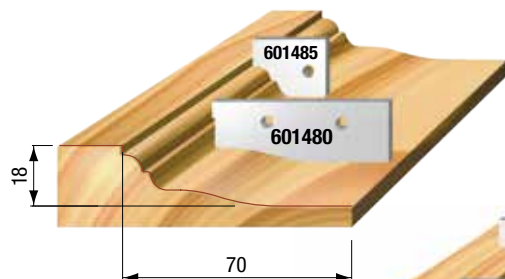
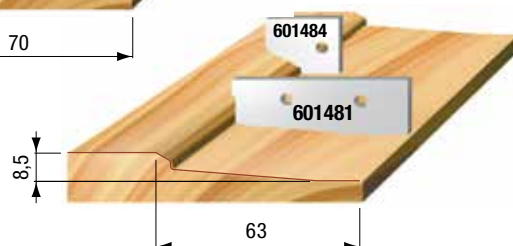
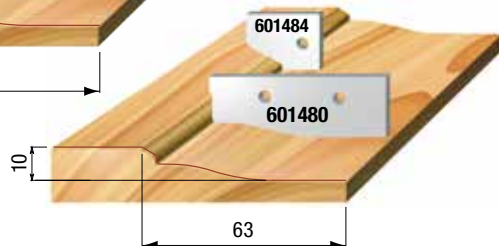
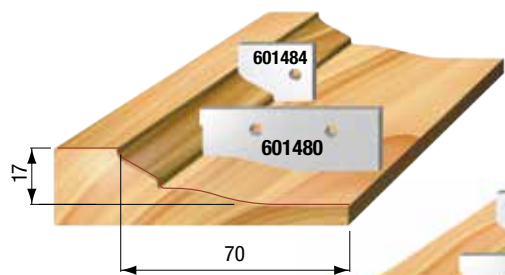
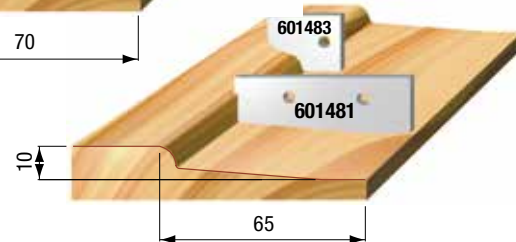
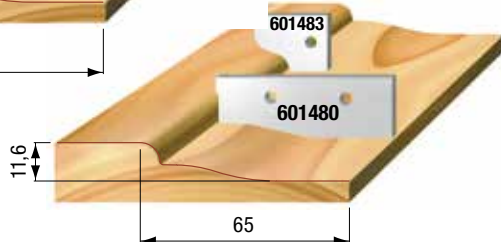
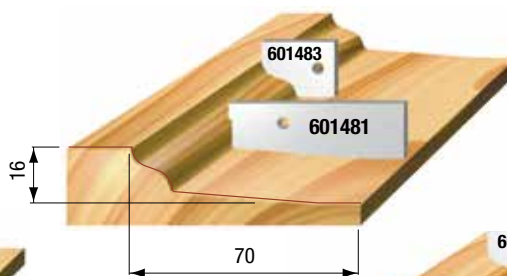
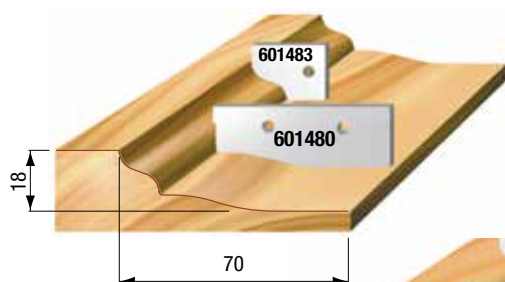
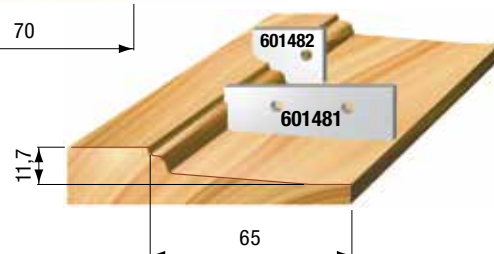
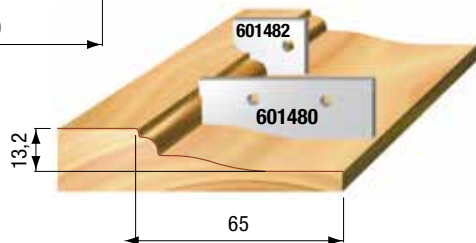
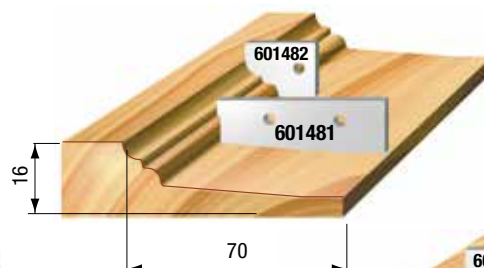
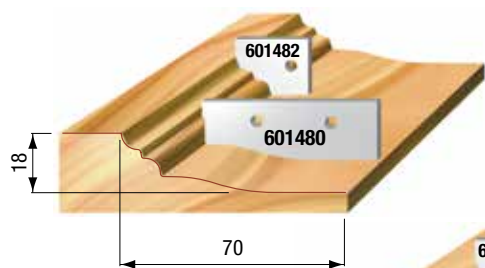
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

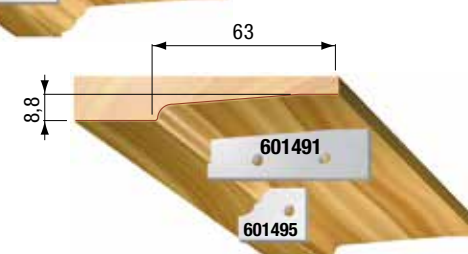
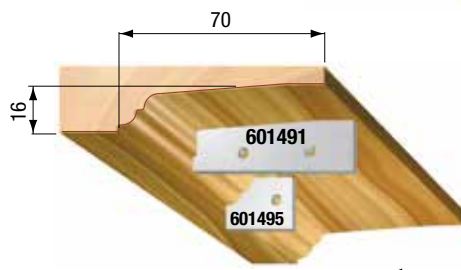
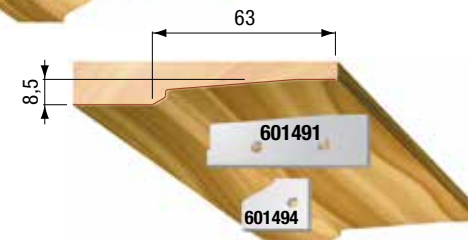
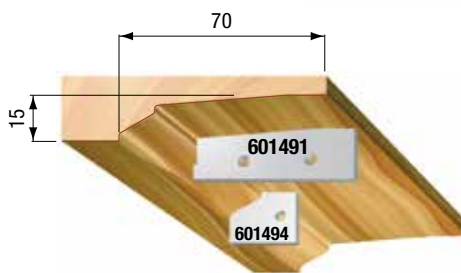
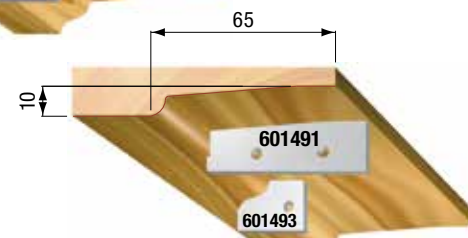
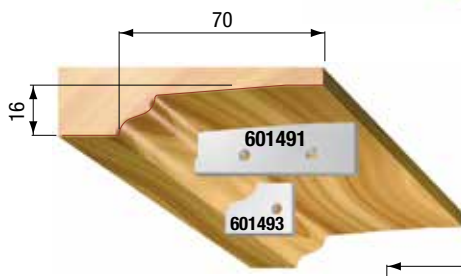
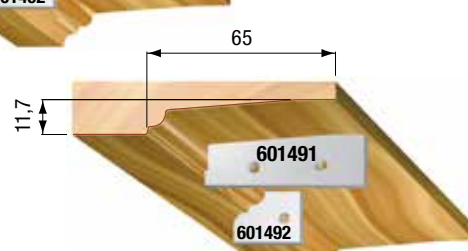
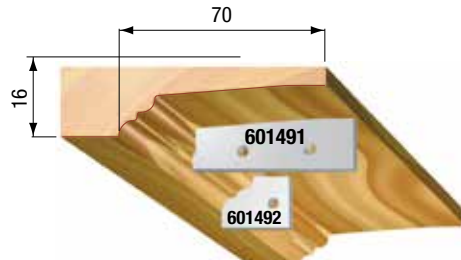
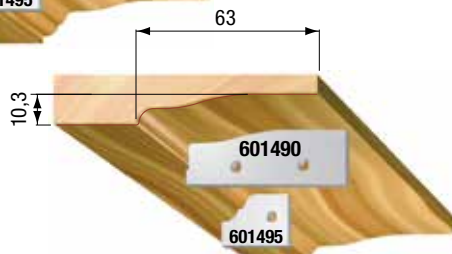
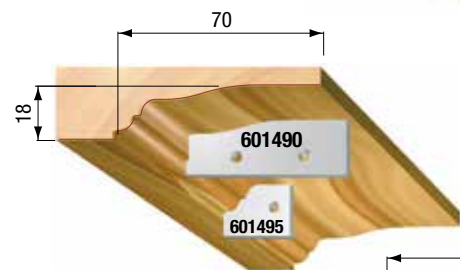
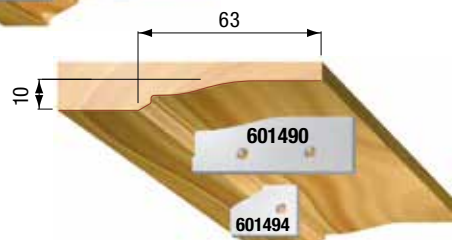
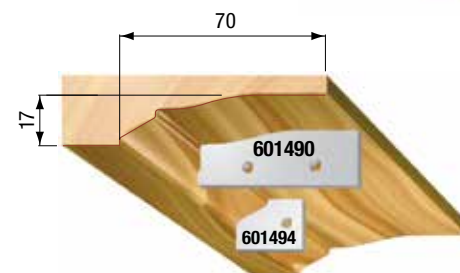
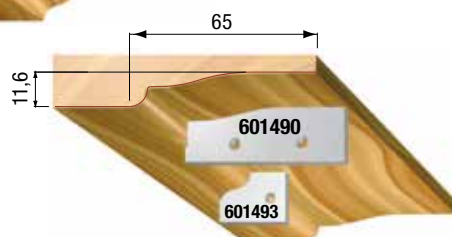
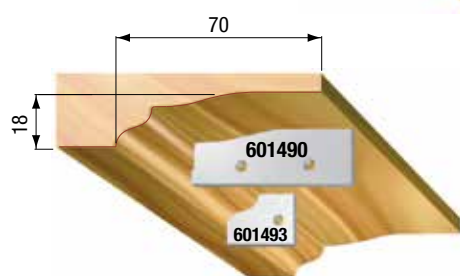
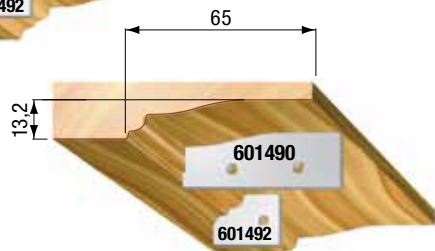
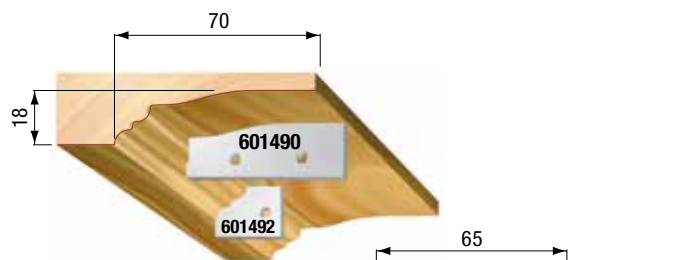
TESTA PER PIATTABANDE CON LEGNO SOTTO PANEL RAISING CUTTERHEAD WITH WOOD UNDERNEATH ABPLATTMESSERKOPF, HOLZ UNTEN



TESTA PER PIATTABANDE CON LEGNO SOPRA PANEL RAISING CUTTERHEAD WITH WOOD ABOVE ABPLATTMESSERKOPF, HOLZ OBEN









LIGHT ALLOY BODY

Testa in lega leggera a due taglienti ideata per realizzare 12 differenti profili (due profili per ogni coltello). Grazie alla speciale spina di posizionamento dei coltelli, la lavorazione e la sostituzione dei taglienti risulta molto facile e precisa. Il set è composto dalla testa compresa dei due coltelli ①. **I coltelli con profilo B, C, D, E e F sono disponibili su richiesta.**

Light alloy body with tungsten carbide standard profiled knives for panel raising for machining up to a total amount of 12 different profiles, chip thickness limitation and suitable for manual feed. Each set includes the head equipped with 2 ① knives, while **profiled knives type B, C, D, E and F are available on request.**

Grundkörper aus hochfestem Aluminium zum Fräsen von bis zu 12 unterschiedlichen Abplatt-Profilen, spandickenbegrenzt und rückschlagarm, für manuelle Vorschübe geeignet. Abplattfräser bestückt mit Profil ① für Abplattungen in Massivholz und Plattenwerkstoffen. **Profile B, C, D, E oder F passen in denselben Grundkörper und sind verfügbar auf Anfrage.**

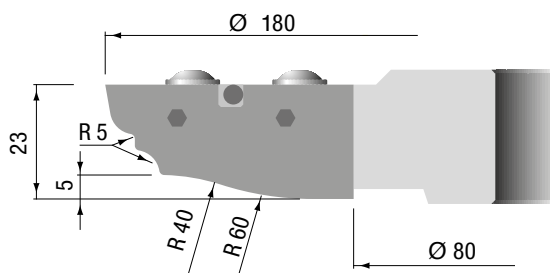
Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

SU RICHIESTA / ON REQUEST / AUF ANFRAGE

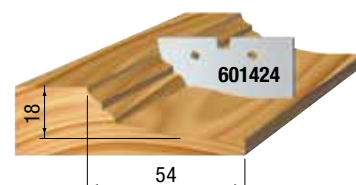
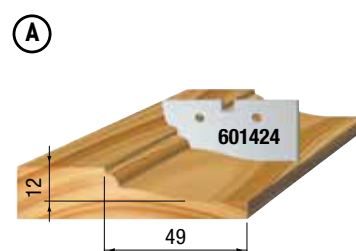
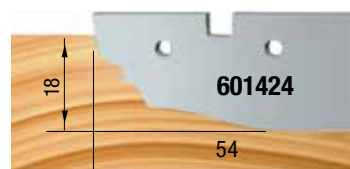
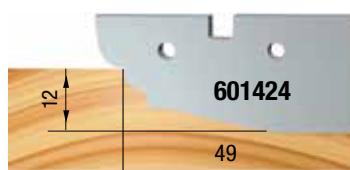
YS149AZM								Ricambi / Spare Parts / Ersatzteile							
Ø D [mm]	B [mm]	Ø d [mm]	Z	T max [mm]	RPM min-max	Art. Nr.	€		①	②	③	④	⑤	⑥	
180	23	30	2	54	4200 - 7300	YS149AZM030	236,20	YH112AAM	601424	601425	601426	601427	601428	601429	501203
180	23	31,75	2	54	4200 - 7300	YS149AZM031	256,20	YH112AAM	601424	601425	601426	601427	601428	601429	501203
180	23	35	2	54	4200 - 7300	YS149AZM035	256,20	YH112AAM	601424	601425	601426	601427	601428	601429	501203
180	23	40	2	54	4200 - 7300	YS149AZM040	256,20	YH112AAM	601424	601425	601426	601427	601428	601429	501203
180	23	50	2	54	4200 - 7300	YS149AZM050	256,20	YH112AAM	601424	601425	601426	601427	601428	601429	501203

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

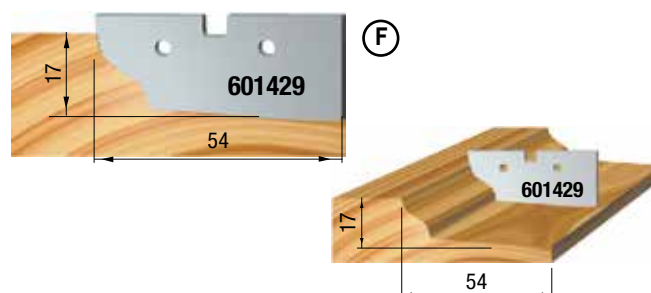
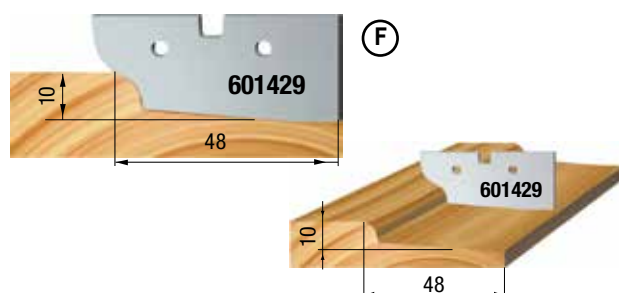
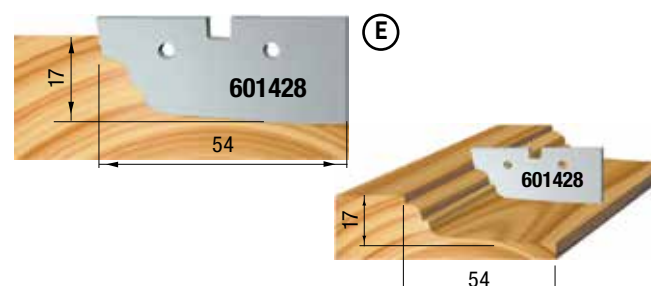
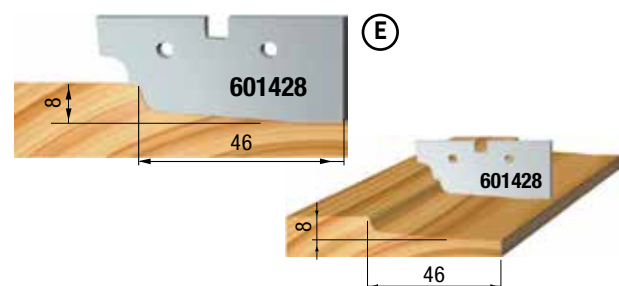
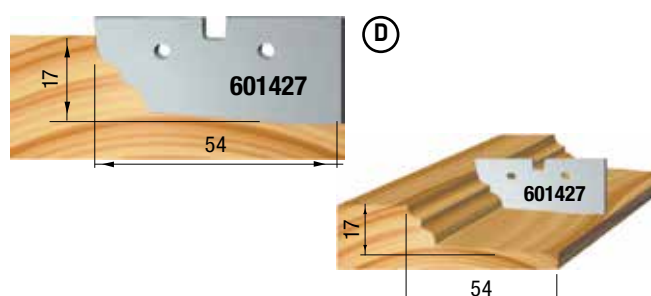
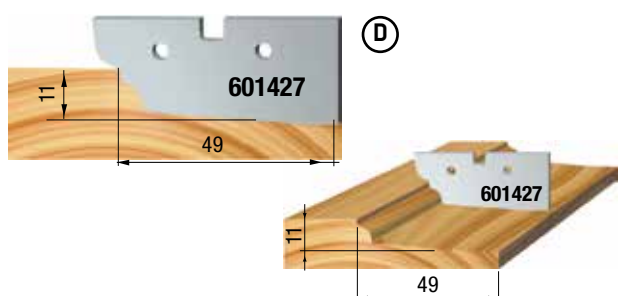
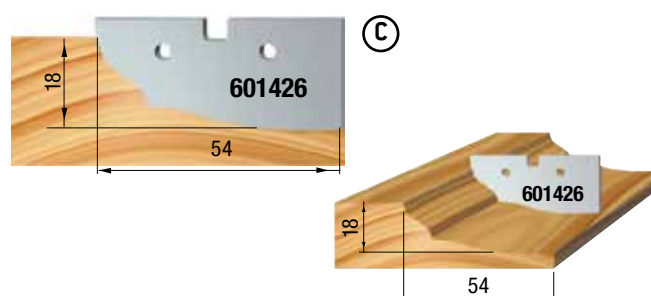
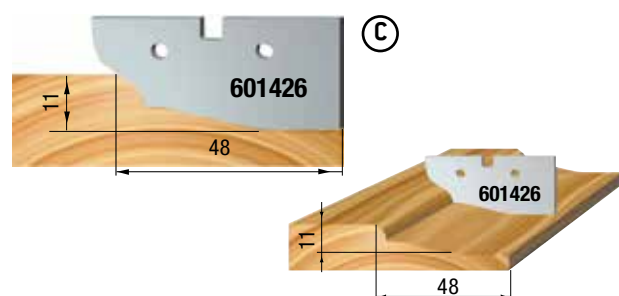
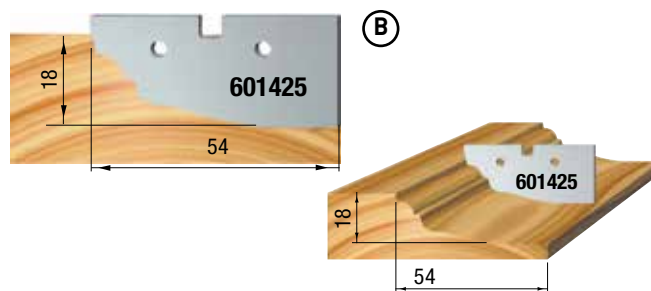
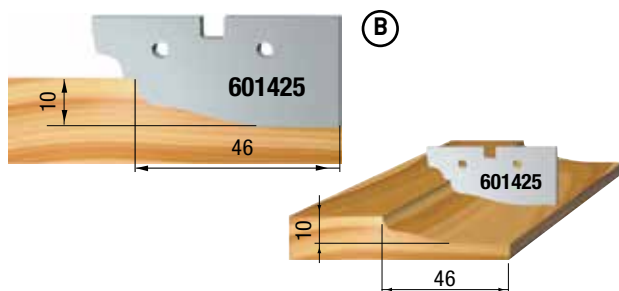
Teste con in dotazione i coltelli 601424 / Heads standard equipment with knives 601424 / Köpfe ausgestattet mit Messern 601424



STANDARD



OPTIONAL



SET PIATTABANDA A TRE PROFILI PANEL RAISING SET WITH THREE PROFILES ABPLATTFRÄSER-SET



LIGHT ALLOY BODY

Testa in lega leggera a due taglienti profilati da entrambi i lati ideata per realizzare 3 differenti profili. Il set è composto dalla testa compresa dei due coltelli profilo A montati sull'utensile e di 2+2 coltelli profilo B e C di ricambio. In virtù dei coltelli utilizzati, il prezzo del set risulta molto competitivo.

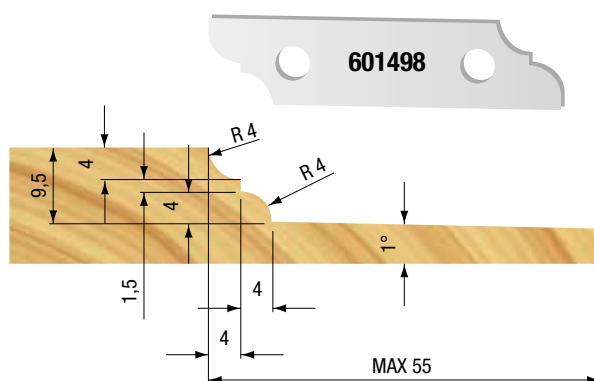
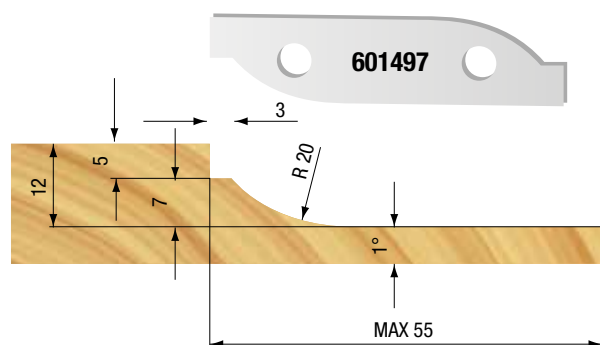
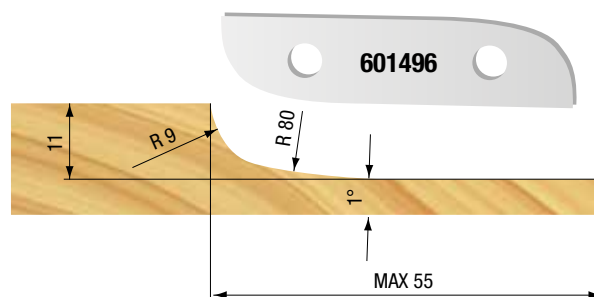
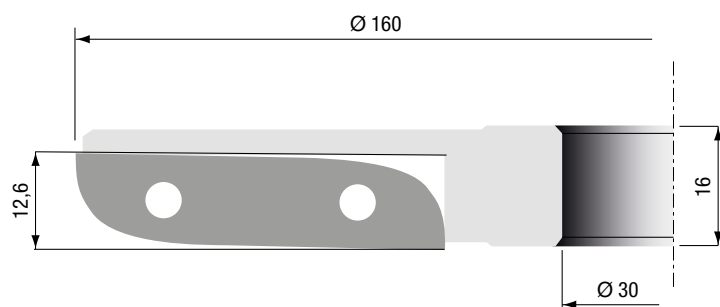
Light alloy body with tungsten carbide reversible profiled knives for panel raising for machining up to a total amount of 3 different profiles, suitable for manual feed. Each set is supplied with cutterhead equipped with profiled on 2 sides knives type A, while profiled knives type B and C are available as spare parts. Thanks to the supplied knives, the set is quite price competitive.

Grundkörper aus Aluminium, Standard-HW-Profilplatten, spandickenbegrenzt und Rückschlagarm, für manuelle Vorschübe geeignet. Abplattfräser bestückt mit Profil A, zum Herstellen von 3 unterschiedlichen Abplattprofilen. Laut Abbildung, Profile B und C auf Anfrage.

Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

YS119AZM								Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	T max [mm]	RPM min-max	Art. Nr.	€						
160	12	30	2	55	4800 - 8200	YS119AZM030	249,20	YH144AAM	601496	601497	601498	502301	300462
160	12	31,75	2	55	4800 - 8200	YS119AZM031	269,20	YH144AAM	601496	601497	601498	502301	300462
160	12	35	2	55	4800 - 8200	YS119AZM035	269,20	YH144AAM	601496	601497	601498	502301	300462

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SET CONTROPROFILO-PIATTABANDA KITCHEN CABINET SET KONTERPROFILER-ABPLATTFRÄSER-SET



LIGHT ALLOY BODY

Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

Il set è composto da due teste portacoltelli con corpo in lega leggera. La testa per l'esecuzione del profilo-controprofilo è equipaggiata di serie con coltellini in HM per ottenere il profilo ① (vedi disegno), ma può utilizzare anche coltellini per l'esecuzione dei profili B, C e D che vengono forniti esclusivamente su richiesta. La testa per piattabanda monta 4 coltellini in HM posizionati con angolo assiale con i quali si possono ottenere i tre profili indicati nei disegni.

Set with 2 cutters in light alloy execution, standard tungsten carbide profiled knives, profile ① included in the set, profiles B, C and D can be obtained on request and mounted onto the same cutter head, panel raising cutter with contour knives aligned in axial angle for excellent end-grain cutting surfaces, chip thickness limitation and reduced recoil, suitable for manual feed.

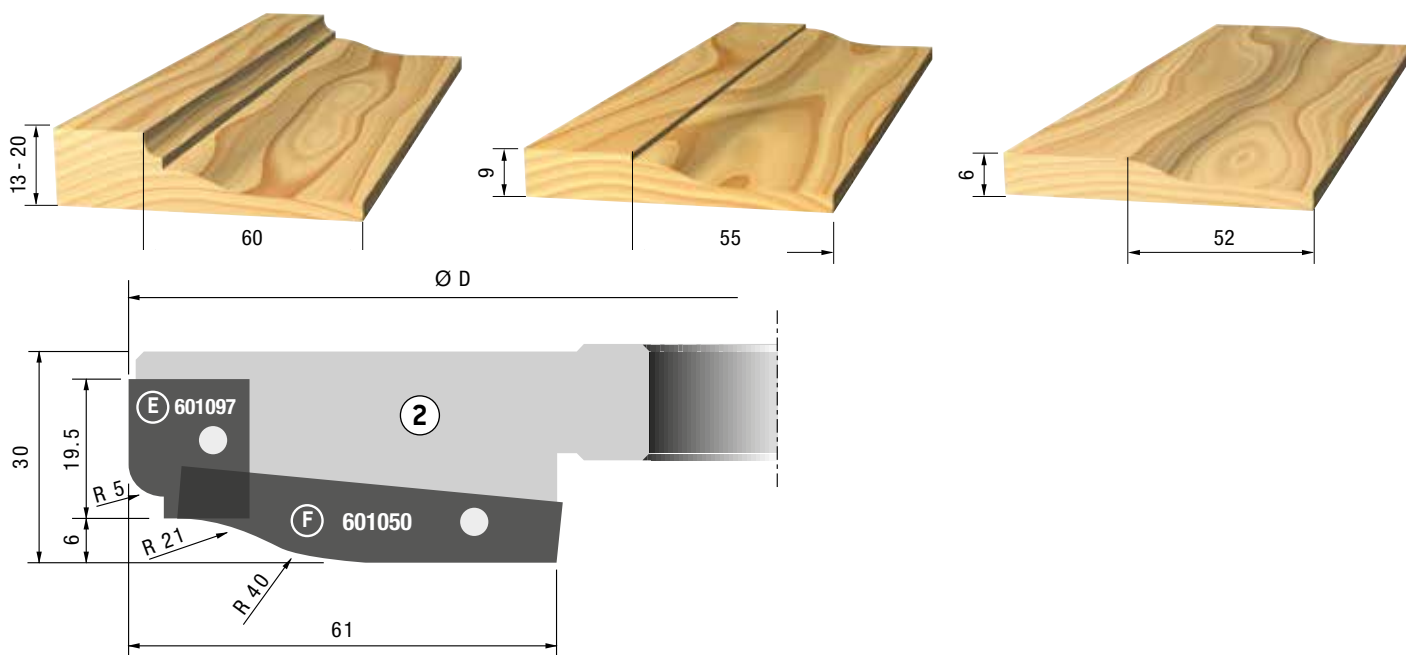
2-teiliger Werkzeugsatz mit Tragkörpern aus hochfestem Aluminium, Standard-Hartmetall-Schneiden, mit Achswinkel für ausrissfreies Fräsen im Hirnholz. Zum Herstellen von Profilrahmen mit Füllung, Profil- und Konterprofil wird ohne Schneidenwechsel. Profilfräser mit Profil ① bestückt, Profile B, C und D können auf Wunsch dazubestellt und in den gleichen Tragkörper eingebaut werden.

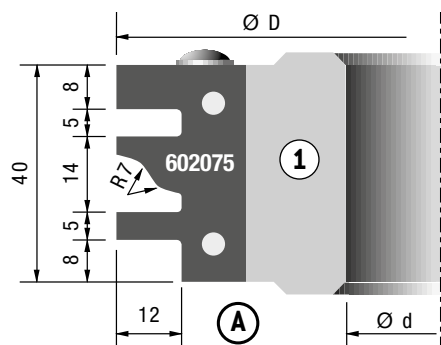
YS101AZM								Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€	①	②	③	④	⑤	⑥	⑦
183	30/40	30	2+2	4100 - 7100	YS101AZM030	•	357,00	YH102AAM	602075	602076	602077	602078	340016	501315
183	30/40	31,75	2+2	4100 - 7100	YS101AZM031	•	389,30							
183	30/40	35	2+2	4100 - 7100	YS101AZM035	•	389,30							
183	30/40	40	2+2	4100 - 7100	YS101AZM040	•	389,30	YH101AAM	601097	340013	501315	601050	340014	501315

YS101BZM								Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€	①	②	③	④	⑤	⑥	⑦
								YH102BAM	602075	602076	602077	602078	340016	501315
200	30/40	50	2+2+2	3800 - 6500	YS101BZM050	•	380,40							
								YH101BAM	601097	340013	501315	601050	340014	501315

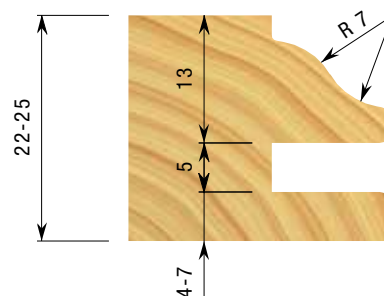
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Teste con in dotazione i coltelli 602075 / Heads standard equipment with knives 602075 / Köpfe ausgestattet mit Messern 602075

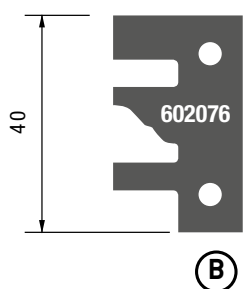




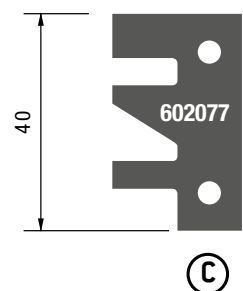
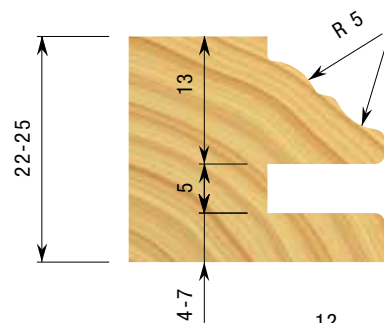
STANDARD



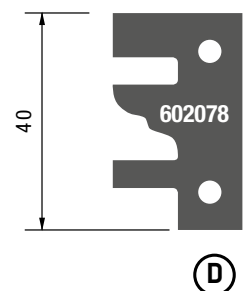
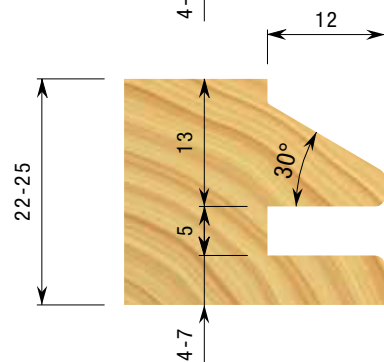
OPTIONAL



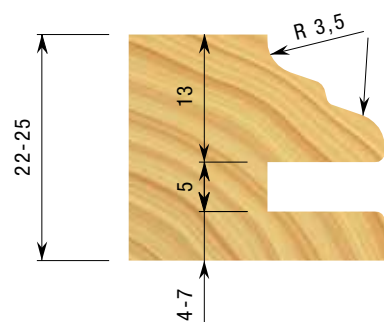
(B)



(C)



(D)



TESTA PROFILO-CONTROPROFILO PROFILE-COUNTERPROFILE CUTTERHEAD KONTERPROFILFRÄSER



LIGHT ALLOY BODY

La testa ha corpo in lega leggera. È equipaggiata di serie con coltellini in HM per ottenere il profilo ①, mentre i profili B, C e D possono essere forniti su richiesta e montati sulla stessa testa. Testa con limitatore di truciolo, adatta per l'avanzamento manuale.

Body in light alloy execution, standard tungsten carbide profiled knives, profile ① mounted on cutter, profiles B, C and D can be obtained on request and mounted onto the same cutter head, chip thickness limitation and reduced recoil, suitable for manual feed.

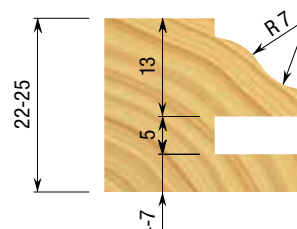
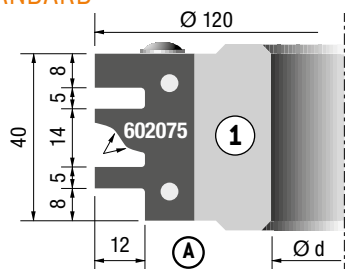
Tragkörper aus hochfestem Aluminium, Standard-Hartmetall-Schneiden. Zum Herstellen von Profilrahmen mit Holzstärken von 22-25 mm, Profil- und Konterprofil wird ohne Schneidenwechsel lediglich durch Spindelverstellung gefräst, Profilfräser mit Profil ① bestückt, Profile B, C und D können auf Wunsch dazubestellt und in den gleichen Tragkörper eingebaut werden.

YH102AAM							Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€							
120	40	30	2	5800 - 10200	YH102AAM030	203,20	YH102AAM	602075	602076	602077	602078	340016	501315
120	40	31,75	2	5800 - 10200	YH102AAM031	223,20	YH102AAM	602075	602076	602077	602078	340016	501315
120	40	35	2	5800 - 10200	YH102AAM035	223,20	YH102AAM	602075	602076	602077	602078	340016	501315
120	40	40	2	5800 - 10200	YH102AAM040	223,20	YH102AAM	602075	602076	602077	602078	340016	501315

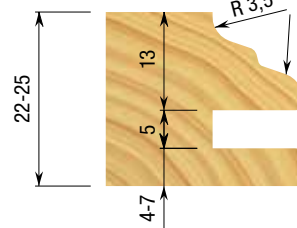
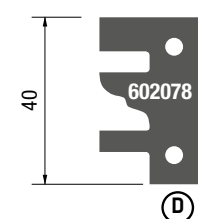
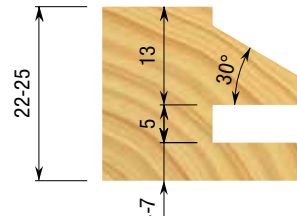
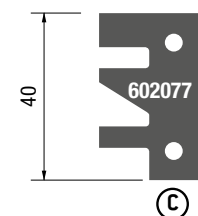
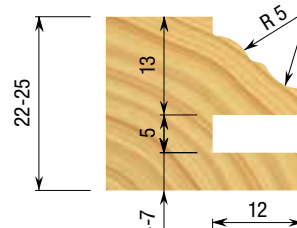
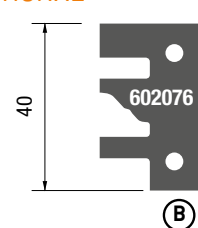
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Teste con in dotazione i coltelli 602075 / Heads standard equipment with knives 602075 / Köpfe ausgestattet mit Messern 602075

STANDARD



OPTIONAL



SET UTENSILI PER ANTINE E PORTE INTERNE DOORS AND KITCHEN CABINET SET KONTERPROFIL-FRÄSERATZ



LIGHT ALLOY BODY



YS112AZM
ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Il set, composto da 2 teste a profilare, 1 testa per incastri regolabile e di anelli distanziali di regolazione, è stato creato per realizzare con la massima flessibilità antine e porte (cinque profili diversi possibili, ① di serie). L'incastro registrabile presente nel gruppo può essere utilizzato anche singolarmente per l'esecuzione di incastri regolabili da 8 a 15 mm di spessore. Inoltre, grazie alla vite di posizionamento presente sulle teste sagomate, il montaggio del coltello di ricambio risulta molto facile e preciso.

Set consisting of 2 profile cutters in light alloy execution and an adjustable groove 8-15 mm (can also be used separately!), for machining door profiles and counterprofiles with maximum flexibility, 5 different profiles can be mounted on the same cutterhead, set complete with spacing collars and Profile ① mounted on the cutters, other profiles on request, easy fitting of spare knives by means of positioning screws, suitable for manual feed.

3-teiliger Fräsersatz, Profilfräser 1 und 2 aus hochfestem Aluminium, Verstellnutter 3 aus Stahl, Standard-HW-Profilplatten. Zur Herstellung von Möbel- und Zimmertüren, für Hart- sowie Weichhölzer, Profil ① im Lieferumfang enthalten, weitere Profile B-E (Siehe Ersatzteilliste sowie Profilbeispiele) sind im selben Grundkörper individuell nachrüstbar, Set komplett mit Zwischenringen sowie separater Bedienungsanleitung.

Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

YS112AZM								Ricambi / Spare Parts / Ersatzteile									
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€										
132	65	30	2+2+2	4	5700 - 9800	YS112AZM030	• 510,90	① YH115AAM	601439	601441	601443	601445	601447	340018	501316		
132	65	31,75	2+2+2	4	5700 - 9800	YS112AZM031	• 540,90	② YH116AAM	601440	601442	601444	601446	601448	340019	501316		
132	65	35	2+2+2	4	5700 - 9800	YS112AZM035	• 540,90	③ YH117ACM	600001					350021	502403	600201	

YS112BZM								Ricambi / Spare Parts / Ersatzteile									
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€										
147	65	40	2+2+2	4	5100-8800	YS112BZM040	• 510,90	① YH115BAM	601439	601441	601443	601445	601447	340018	501316		
								② YH116BAM	601440	601442	601444	601446	601448	340019	501316		
147	65	50	2+2+2	4	5100-8800	YS112BZM050	• 540,90	③ YH117BCM	600001					350021	502403	600201	

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Teste con in dotazione i coltelli 601439 e 601440 / Heads standard equipment with knives 601439 and 601440
Köpfe ausgestattet mit Messern 601439 und 601440

STANDARD

①



OPTIONAL

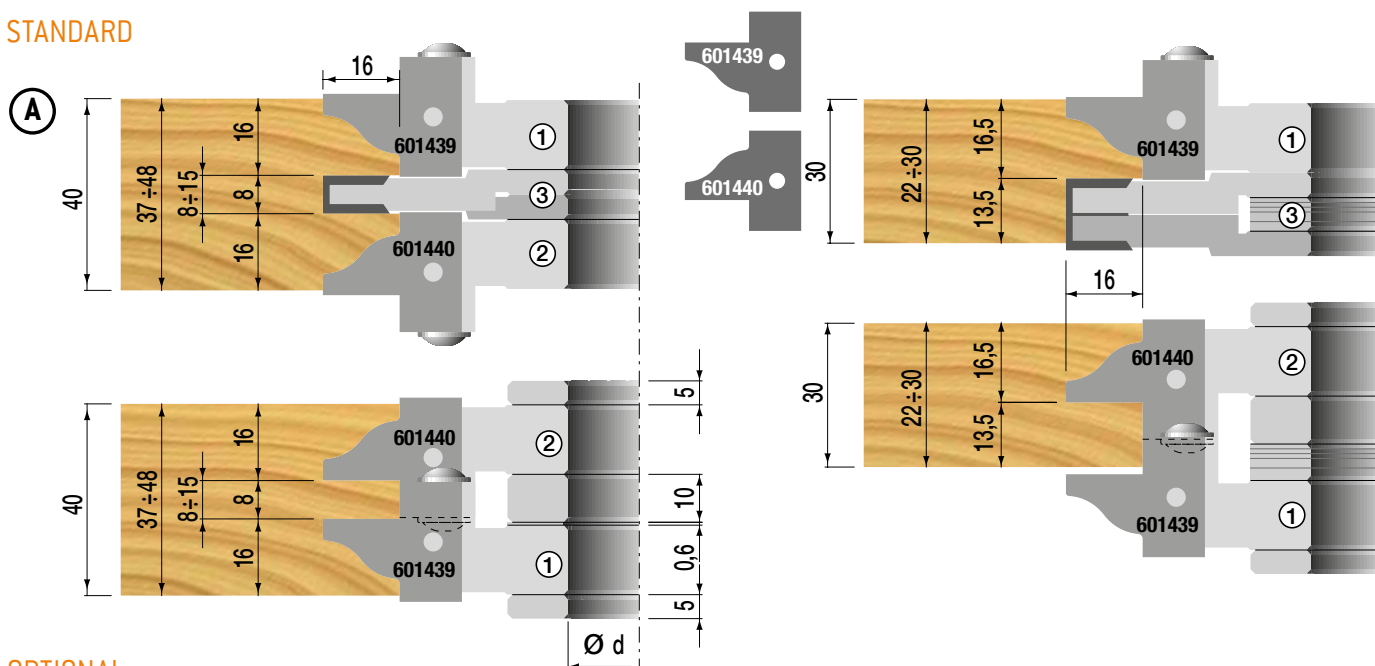
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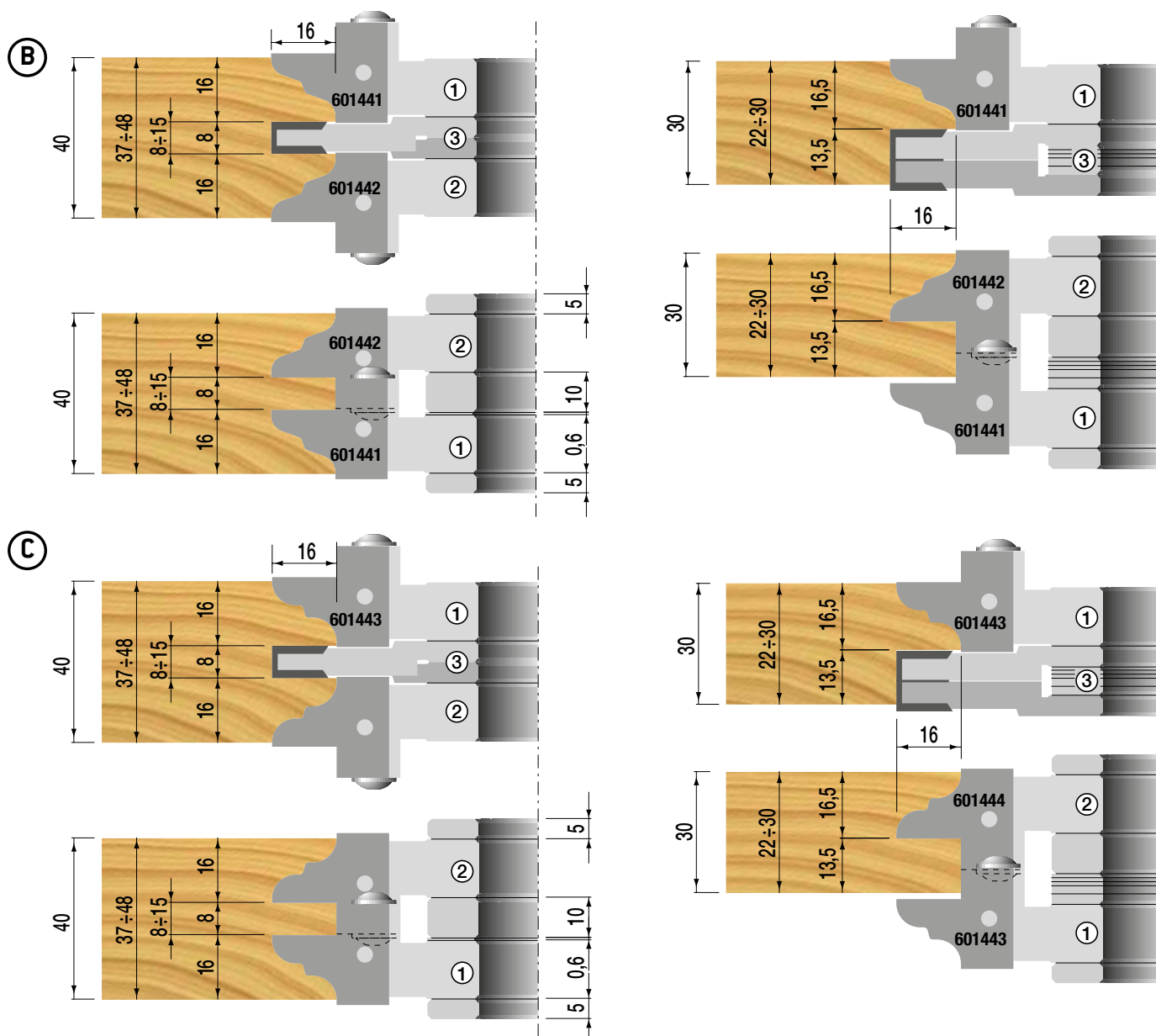
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STANDARD

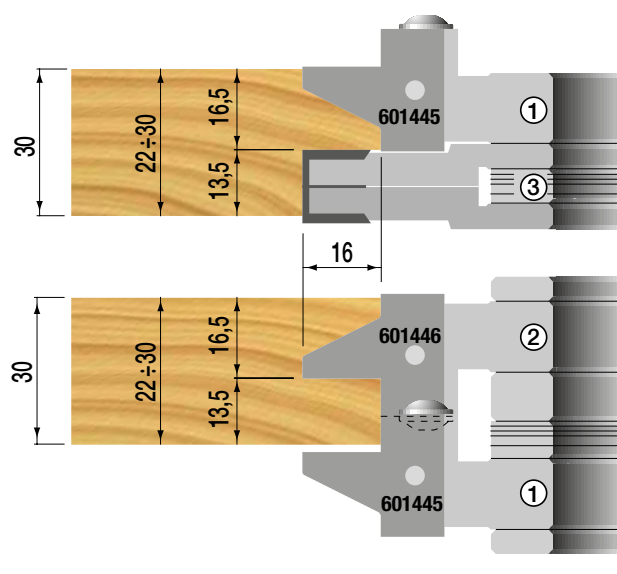
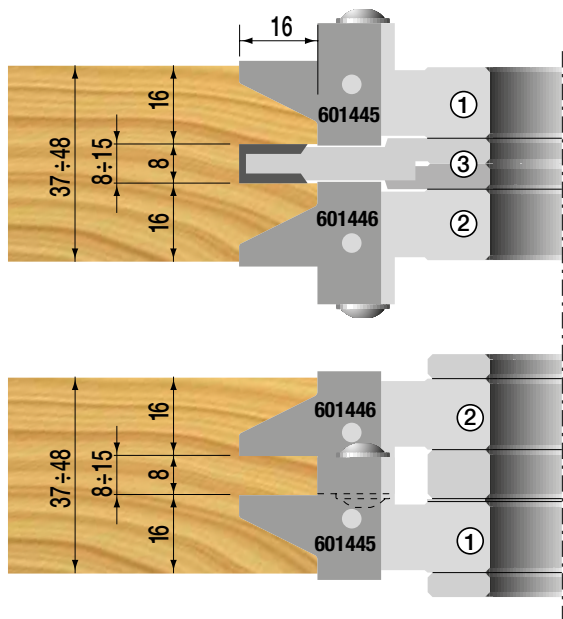


OPTIONAL

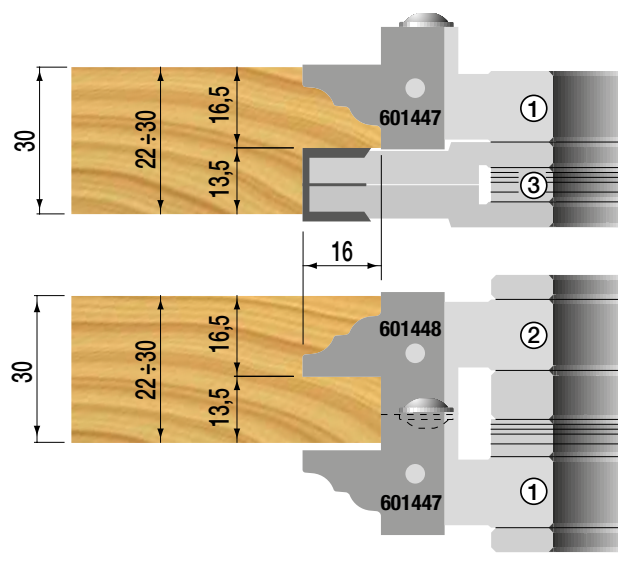
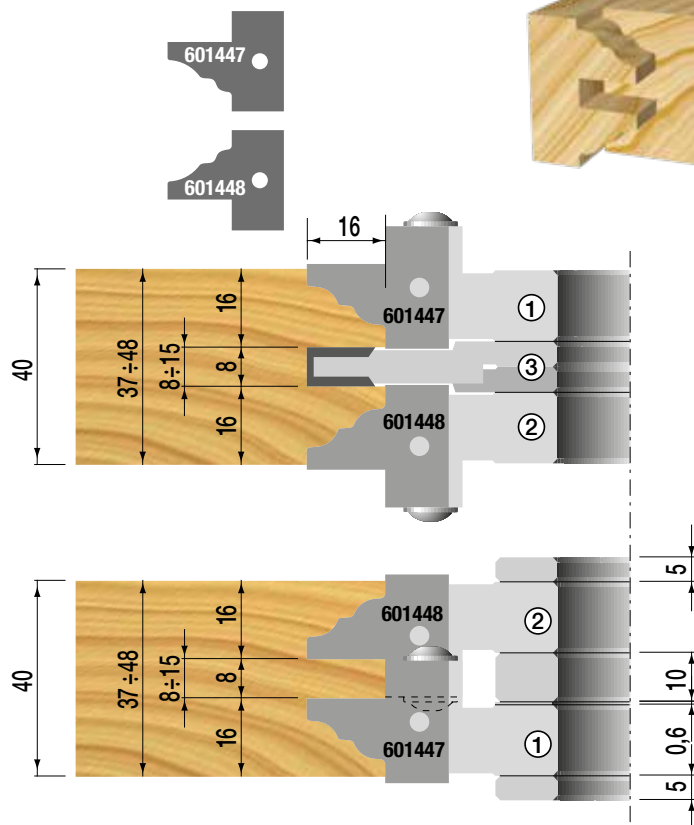


OPTIONAL

Ⓓ



Ⓔ





STEEL BODY

Set di teste con coltellini per la lavorazione di parchetti e perline. Il gruppo base è composto da quattro teste (nr. 1-2-3-4) montate su boccola, corredato da una serie di anelli distanziali. Al set base possono essere aggiunte tre teste opzionali (nr. 5-6-7) che aumentano il numero di profili ottenibili.

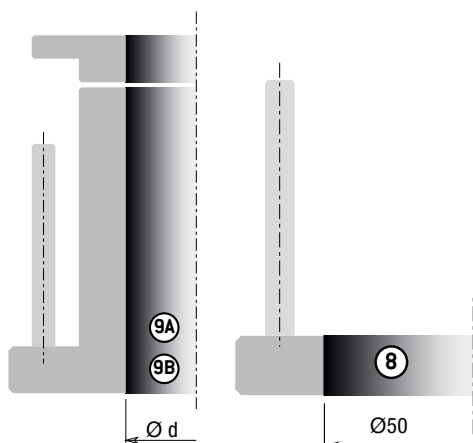
Set of heads with HM knives for the working of wood flooring and matchboarding. The basic unit is made up of four heads (n. 1-2-3-4) mounted on a bushing, fitted with a series of distance rings. Three optional heads (n. 5-6-7) can be added to the basic set to increase the amount of profiles that can be obtained.

Für Nut- und Federverbindungen im Innenausbau. Für Weich- und Harthölzer. Vierteiliges Werkzeug mit Ringsatz für Holzstärken von 12 - 40 mm. Werkzeug 2-schneidig, auf Büchse verschraubt. Das Basis-Set kann durch die Einzelfräser 5, 6 und 7 ergänzt werden, damit weitere Profilvarianten machbar sind.

TH20TM60								Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€							
160,2	-	30	2+2+2+2	4	4800 - 8200	TH20TM60030	1.090,00	① TH20TM61	600004	350024	502404	600201	500002	
160,2	-	40	2+2+2+2	4	4800 - 8200	TH20TM60040	1.090,00	③ TH20TM63	600004	350025	502404	600201	500002	
160,2	-	50	2+2+2+2	4	4800 - 8200	TH20TM60050	1.090,00	④ TH20TM64	600004	350005	502404	600201	500002	
								② TH20TM62	600303	500402	501102	600204	500402	501002

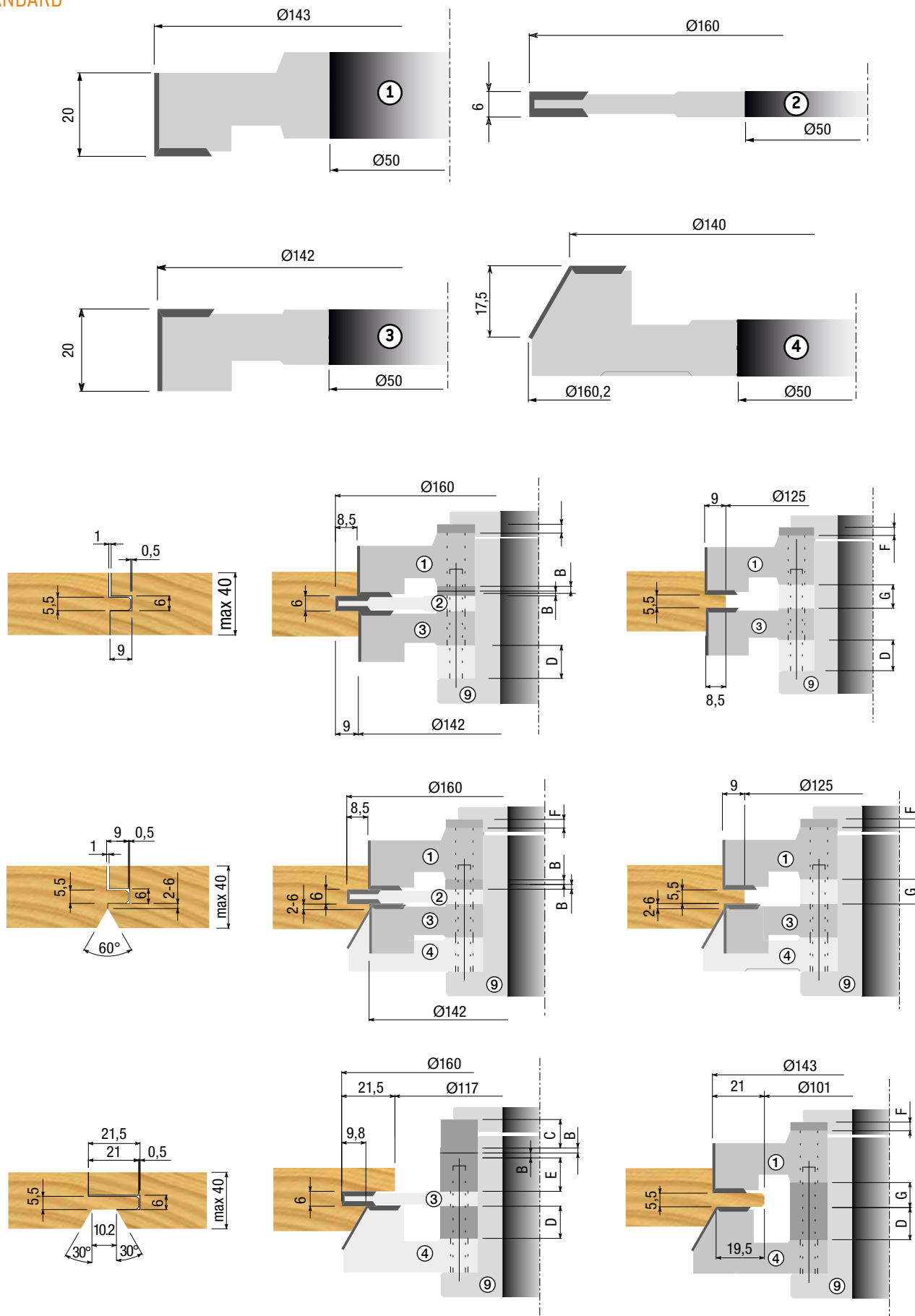
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Teste opzionali / Extra cutterheads / Einzelfräser							Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€						
129	9,6	40/50	2	5800 - 10200	⑤ TH20TM65050	229,60		602140	302504	501323		
105	9,6	40/50	2	7300 - 13200	⑥ TH20TM67050	228,10		602140	302504	501323		
156	24,6	40/50	2	4800 - 8200	⑦ TH20TM68050	238,20		602141	350026	502404	600201	500002

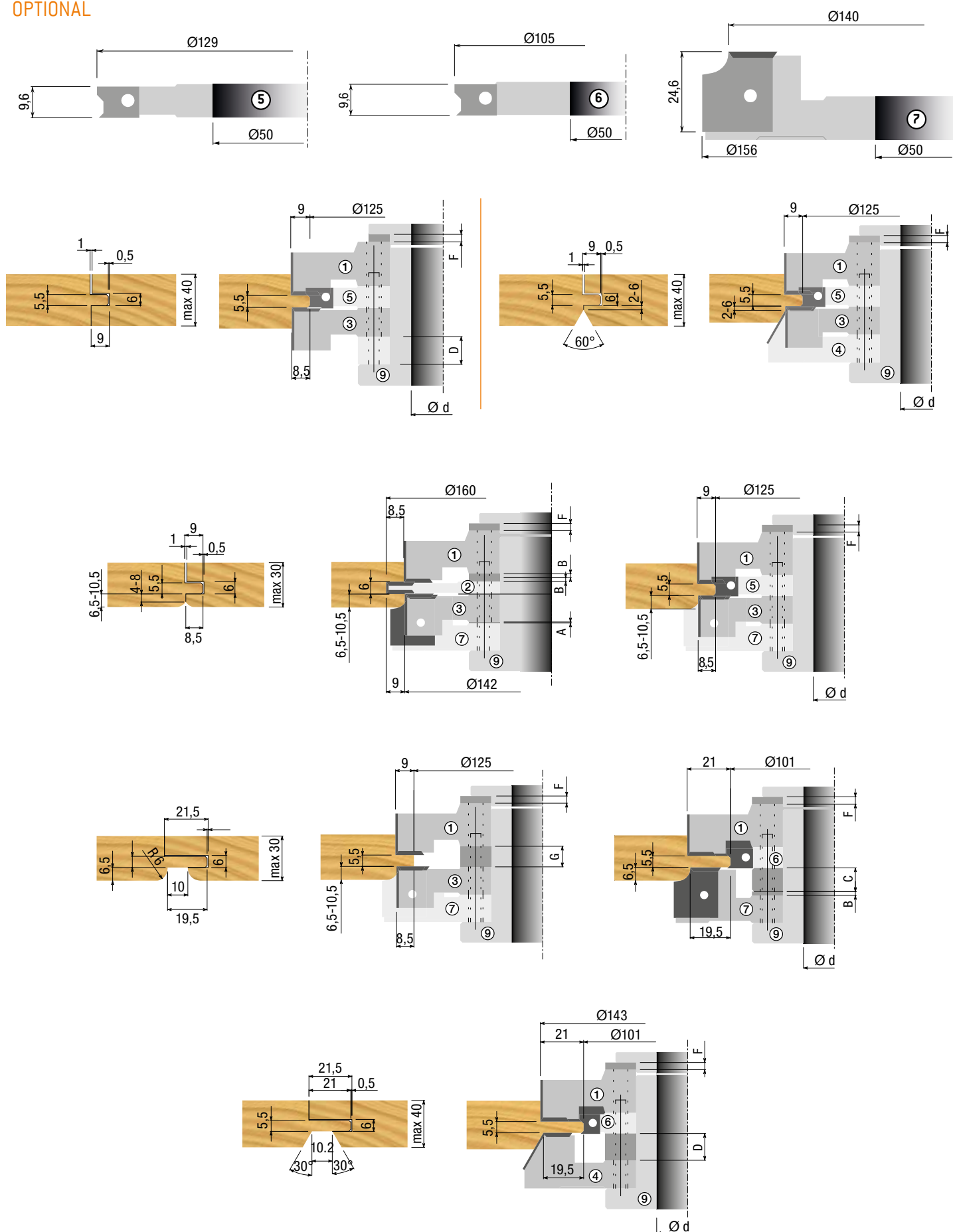


Boccola e anelli distanziali / Bushing and distance rings Büchse und Ringsatz		
Ø d [mm]	Type	Art. Nr.
30	9-A	1400TH206030
40	9-B	1400TH206040
50	8	1400TH206050

STANDARD



OPTIONAL



SET UTENSILI PER PARCHETTI E PERLINE TONGUE AND GROOVE TOOLING SET NUT- UND FEDERFRÄSER-SET



Z=2 / V=2
MAN / HM

Z=2 / V=2
MAN / HM

LIGHT ALLOY BODY

Questo set è stato ideato per realizzare diverse tipologie di parchetti e perline con spessore di legno variabile. Al set base ①-④, composto da due gruppi in lega leggera e realizzato per produrre parchetti, si possono combinare delle teste aggiuntive ⑤+⑥ per produrre cinque tipi diversi di perline. Gli utensili sono forniti completi di anelli distanziali.

Set with 4 cutters in light alloy and steel execution, standard tungsten carbide profiled knives, cutters ①-④ included in the set, cutters ⑤+⑥ can be obtained on request for further profiles, chip thickness limitation and reduced recoil, suitable for manual feed.

4-teiliger Werkzeugsatz mit Tragkörpern aus hochfestem Aluminium und Stahl, Standard-Hartmetall-Schneiden, für manuellen Vorschub geeignet. Werkzeugset zum Herstellen unterschiedlichster Nut- und Federprofile, für Holzstärken von 12-40 mm, Basis-Set bestehend aus Fräsern ①-④, Zusatzfräser ⑤+⑥ können auf Wunsch einzeln dazu bestellt werden.

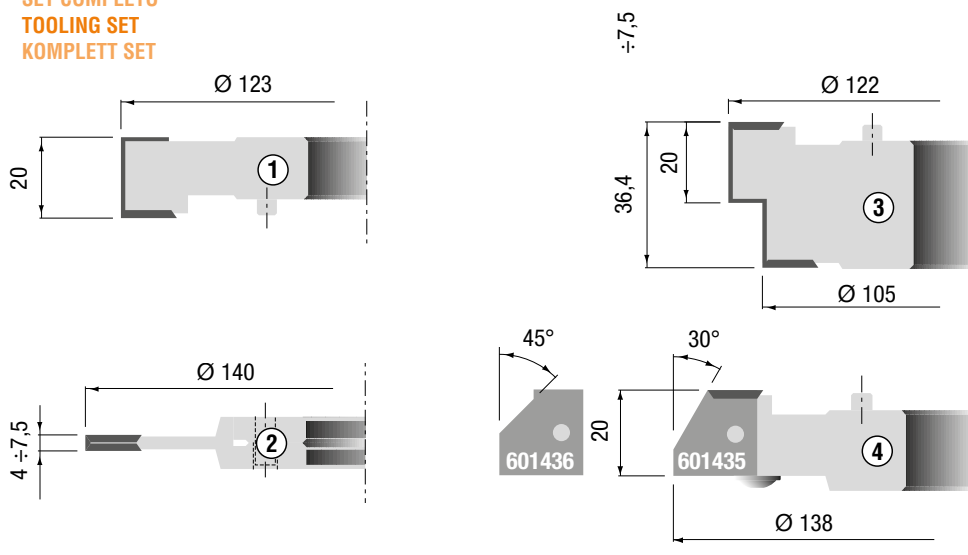
Set fornito in cassetta di plastica / Set supplied in a plastic box / Set wird in Kunststoff-Box geliefert

YS113AZM								Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€							
140	-	30	2+4+4+2	12	5500 - 9400	YS113AZM030	780,20	① YH118AAM	600004		340024	501404	600201	500002
140	-	31,75	2+4+4+2	12	5500 - 9400	YS113AZM031	820,20	② YH123ACM	600301	501101	500401	600202	500401	501001
140	-	35	2+4+4+2	12	5500 - 9400	YS113AZM035	820,20	③ YH119AAM	600004		340024	501404	600201	500002
140	-							④ YH120AAM	601435	601436	340024	501404	600201	500002

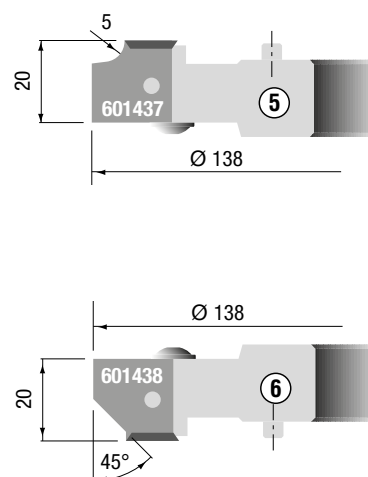
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

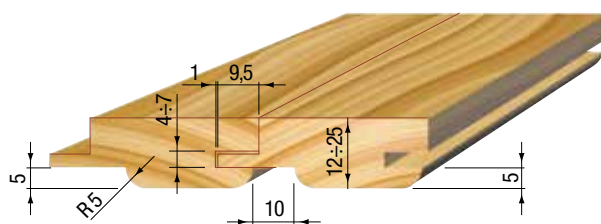
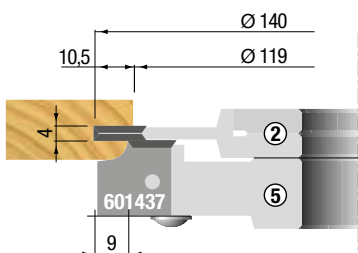
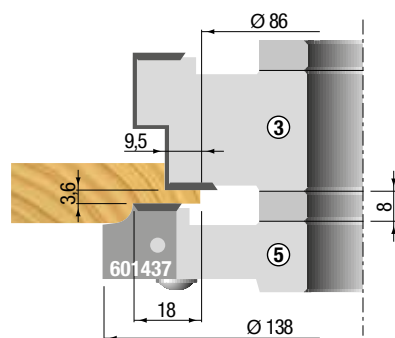
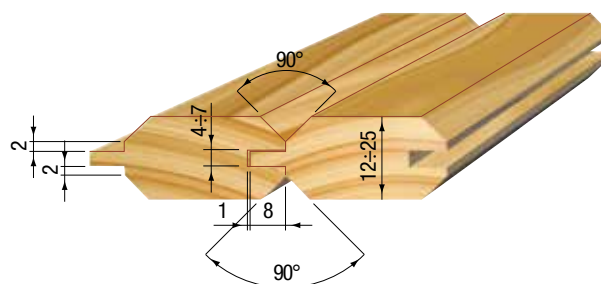
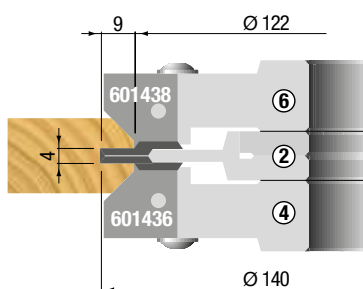
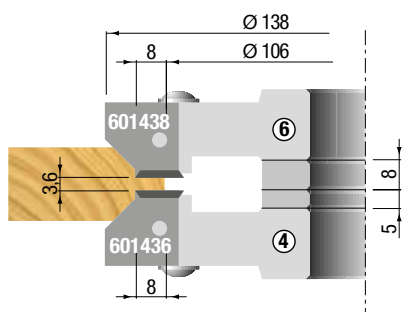
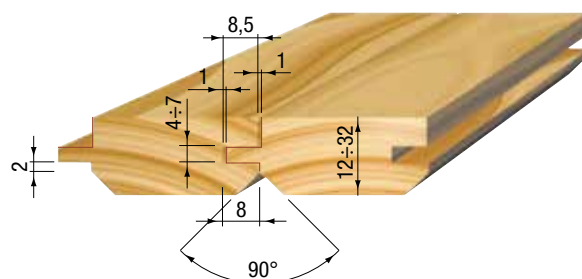
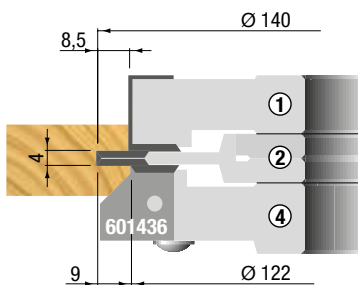
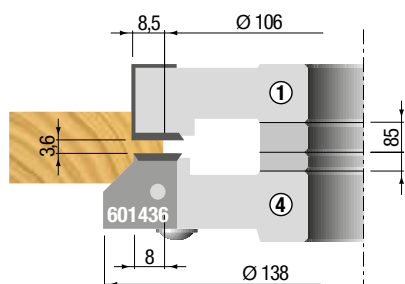
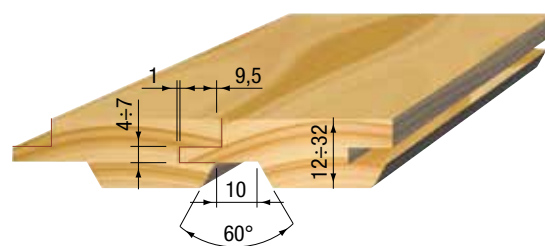
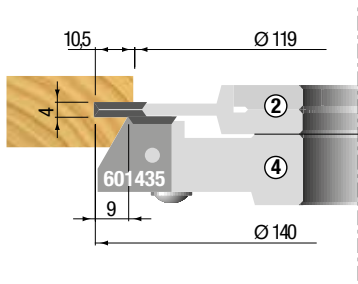
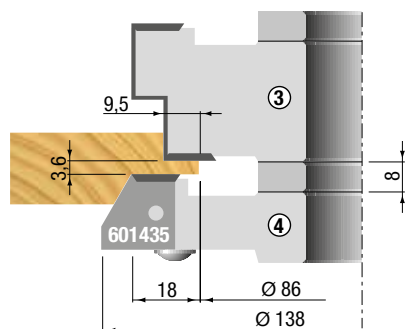
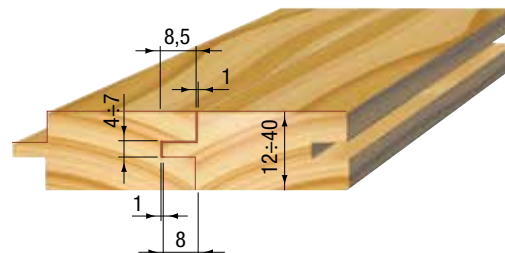
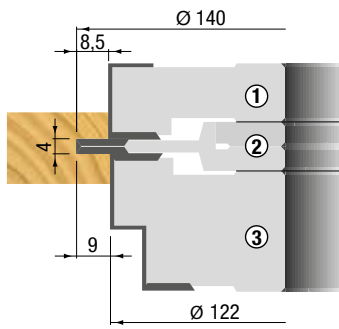
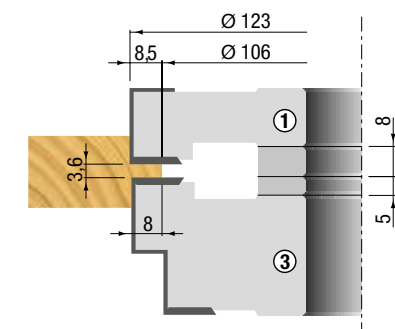
Teste aggiuntive / Extra cutterheads / Zusatzwerkzeuge:								Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€							
138	20	30÷35	2	2	5500 - 9400	YH121AAM	222,00	⑤ YH121AAM	601437		340024	501404	600201	500002
138	20	30÷35	2	2	5500 - 9400	YH122AAM	222,00	⑥ YH122AAM	601438		340024	501404	600201	500002

SET COMPLETO TOOLING SET KOMPLETT SET



TESTE AGGIUNTIVE EXTRA CUTTERHEADS ZUSATZWERKZEUGE





TESTA CON COLTELLINI PER GIUNZIONI A 45° 45° MITRE JOINT CUTTERHEAD GEHRUNGSVERLEIMFRÄSER 45°



LIGHT ALLOY BODY

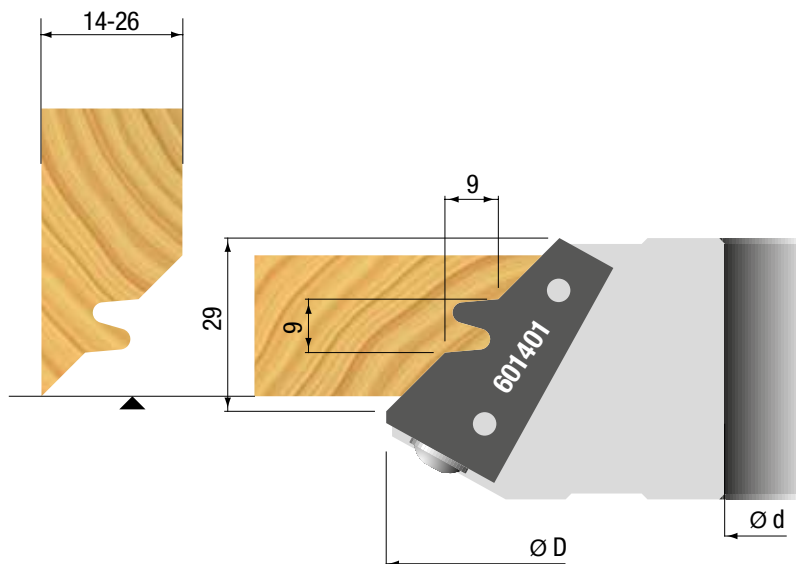
Testa in lega leggera a due taglienti per eseguire giunzioni a 45°. La giunzione si ottiene con due successive lavorazioni: la prima con il legno in fase di lavorazione posto in posizione orizzontale, la seconda con il legno in posizione verticale.

Body in light alloy execution, standard tungsten carbide profiled knives for high precision 45° mitre joints, chip thickness limitation and reduced recoil, suitable for manual feed.

Werkzeugkörper aus hochfestem Aluminium mit Standard-Hartmetall-Profilplatten, für manuellen Vorschub geeignet. Für rechtwinklige Softline-Gehrungseckverbindungen an Korpussen und Rahmen, für Massivholz sowie Plattenwerkstoffe mit Stärken von 14-26 mm hervorragend geeignet.

YH133AAM - YH133BAM								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€			
140	32	30	2	5500 - 9400	YH133AAM030	•	203,10	601401	340030	501404
140	32	31,75	2	5500 - 9400	YH133AAM031	•	223,10	601401	340030	501404
140	32	35	2	5500 - 9400	YH133AAM035	•	223,10	601401	340030	501404
140	32	40	2	5500 - 9400	YH133AAM040	•	223,10	601401	340030	501404
150	32	50	2	5100 - 8800	YH133BAM050	•	223,10	601401	340030	501404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA CON COLTELLINI PER GIUNZIONI A 45° 45° MITRE JOINT CUTTERHEAD GEHRUNGSVERLEIMFRÄSER 45°



STEEL BODY

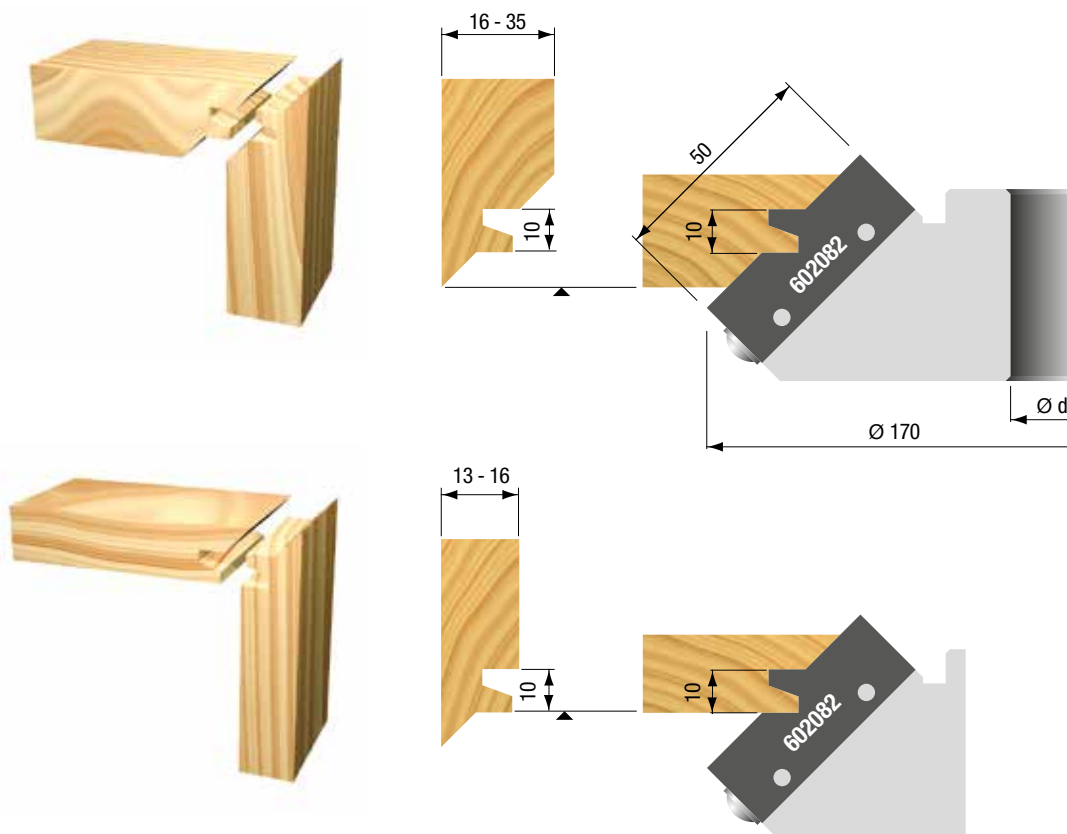
Testa con coltellini in HM per eseguire giunzioni a 45°. Lo spessore legno lavorabile va da un minimo di 13 mm a un massimo di 35 mm. La giunzione si ottiene con due successive lavorazioni: la prima con il legno da lavorare in posizione orizzontale, la seconda con il legno in posizione verticale.

Steel body, standard tungsten carbide profiled knives for high precision 45° mitre joints, chip thickness limitation and reduced recoil, suitable for both manual and mechanical feed.

Werkzeugkörper aus Stahl, mit Standard-Hartmetall-Profilplatten, für manuelle sowie mechanische Vorschübe geeignet. Für selbsthemmende Gehrungseckverbindungen an Korpusse und Rahmen, für Massivholz sowie Plattenwerkstoffe mit Stärken von 13-16 mm.

TH24TM01								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€			
170	50	30	2	4500 - 7700	TH24TM01030	•	288,40	602082	350009	502402
170	50	31,75	2	4500 - 7700	TH24TM01031	•	308,40	602082	350009	502402
170	50	35	2	4500 - 7700	TH24TM01035	•	308,40	602082	350009	502402
170	50	40	2	4500 - 7700	TH24TM01040	•	308,40	602082	350009	502402

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTE PER GIUNZIONI LUNGO VENA O TRAVERSO VENA CUTTERHEADS FOR ALONG OR ACROSS THE GRAIN JOINTS VERLEIMPROFILFRÄSER



LIGHT ALLOY BODY

Utensile a due taglienti con corpo in lega leggera e coltelli in HM. Adatto per realizzare giunzioni lungo e trasverso vena da 20 a 48 mm e da 26 a 58 mm.

YH152AAM: giunzioni lungo vena. YH156AAM: giunzioni trasverso vena.

Light alloy body, standard tungsten carbide profiled knives for high precision jointing of hardwood and softwood, chip thickness limitation and reduced recoil, suitable for manual feed. YH152AAM: along the grain joints. YH156AAM: across the grain joints.

Werkzeugkörper aus hochfestem Aluminium, mit Standard-Hartmetall-Profilplatten, für Handvorschub geeignet. Für Verleimverbindungen in Hart- und Weichhölzern mit Holzstärken von 20-48 mm und 26-58 mm. YH152AAM: Längsschnitt. YH156AAM: Querschnitt.



YH152AAM

ADATTO PER
SUITABLE FOR
GEEIGNET FÜR

CNC



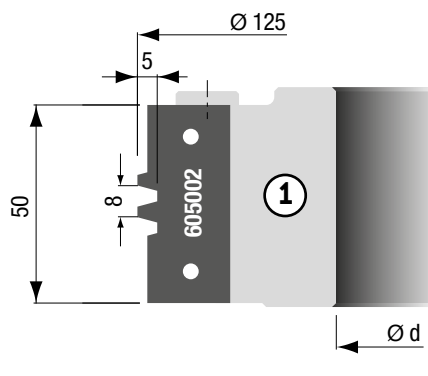
YH156AAM

ADATTO PER
SUITABLE FOR
GEEIGNET FÜR

CNC

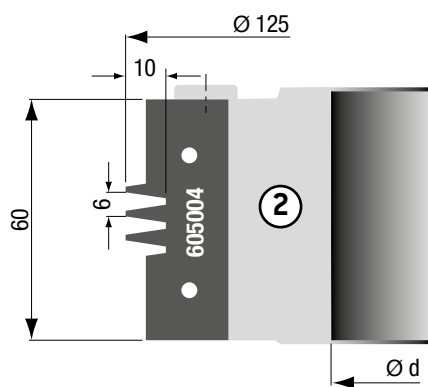
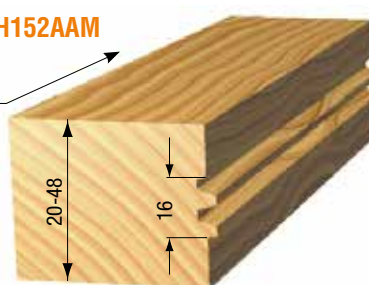
YH152AAM - YH156AAM									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Type	Art. Nr.		€			
125	50	30	2	6100 - 10600	①	YH152AAM030	•	184,60	605002	340011	501403
125	50	31,75	2	6100 - 10600	①	YH152AAM031	•	204,60	605002	340011	501403
125	50	35	2	6100 - 10600	①	YH152AAM035	•	204,60	605002	340011	501403
125	50	40	2	6100 - 10600	①	YH152AAM040	•	204,60	605002	340011	501403
125	50	50	2	6100 - 10600	①	YH152AAM050	•	204,60	605002	340011	501403
125	60	30	3	6100 - 10600	②	YH156AAM030	•	222,00	605004	340041	501403
125	60	31,75	3	6100 - 10600	②	YH156AAM031	•	242,00	605004	340041	501403
125	60	35	3	6100 - 10600	②	YH156AAM035	•	242,00	605004	340041	501403
125	60	40	3	6100 - 10600	②	YH156AAM040	•	242,00	605004	340041	501403
125	60	50	3	6100 - 10600	②	YH156AAM050	•	242,00	605004	340041	501403

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



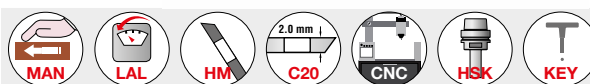
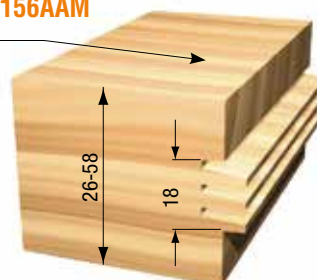
Giunzioni lungo vena
Along the grain joints
Längsschnitt

YH152AAM



Giunzioni trasverso vena
Across the grain joints
Querschnitt

YH156AAM



TESTA PER GIUNZIONI TRAVERSO VENA A SPESSORE VARIABILE ADJUSTABLE CUTTERHEAD FOR ACROSS THE GRAIN JOINTS VERSTELLBARER VERLEIMPROFILFRÄSER



STEEL BODY

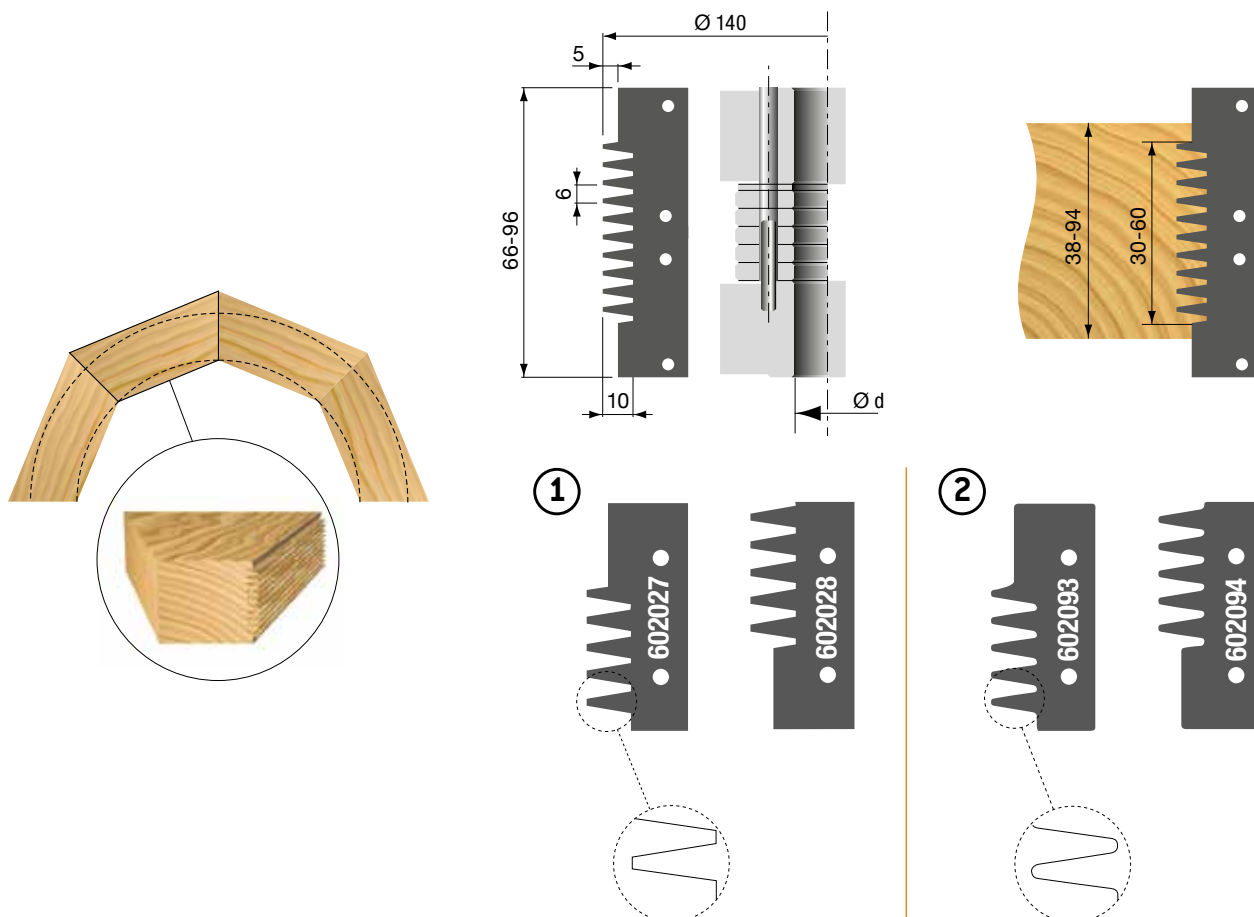
Testa con coltellini in HM a 2 taglienti per eseguire giunzioni di spessore variabile su qualsiasi tipo di legno. Adatta per giunzioni di testa e per giunzioni ad angolo. Utensile idoneo per la realizzazione di profili ad arco, è completo di anelli distanziali.

Steel body, standard tungsten carbide profiled knives for high precision jointing in hardwood and softwood, suitable for end grain and corner joints (windows), for wood thicknesses 38-94 mm, suitable for both manual and mechanical feed.

Zweiteiliges Werkzeug aus Stahl. Für Stirnholzverbindungen an Bögen und Fenstern und anderen Leimverbindungen mit großen Holzquerschnitten oder statischer Beanspruchung, für Hart- und Weichhölzer mit Stärken von 38-94 mm.

SH95TM									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Type	Art. Nr.		€						
140	66 - 96	30	2 + 2	5500 - 9400	①	SH95TM43030	•	740,80	602027	602028			340002	501410
140	66 - 96	31,75	2 + 2	5500 - 9400	①	SH95TM43031	•	761,40	602027	602028			340002	501410
140	66 - 96	35	2 + 2	5500 - 9400	①	SH95TM43035	•	761,40	602027	602028			340002	501410
140	66 - 96	40	2 + 2	5500 - 9400	①	SH95TM43040	•	761,40	602027	602028			340002	501410
140	66 - 96	30	2 + 2	5500 - 9400	②	SH95TM42030	•	740,80			602093	602094	340002	501410
140	66 - 96	31,75	2 + 2	5500 - 9400	②	SH95TM42031	•	761,40			602093	602094	340002	501410
140	66 - 96	35	2 + 2	5500 - 9400	②	SH95TM42035	•	761,40			602093	602094	340002	501410
140	66 - 96	40	2 + 2	5500 - 9400	②	SH95TM42040	•	761,40			602093	602094	340002	501410

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar





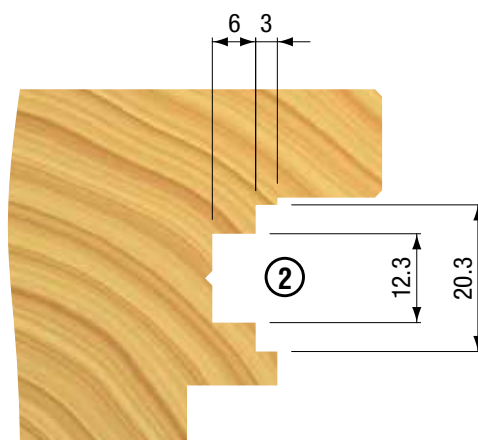
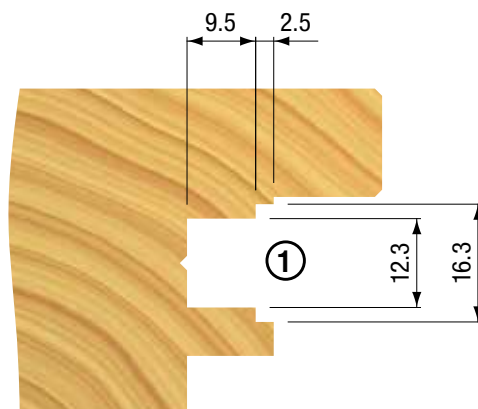
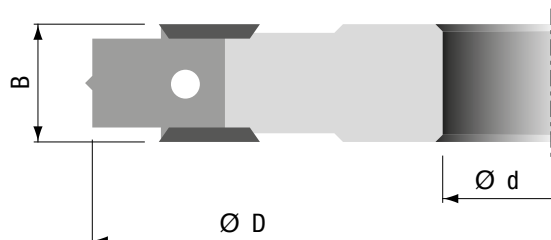
STEEL BODY

Testa con corpo in acciaio e coltellini sagomati in HM per eseguire le sedi della ferramenta sui serramenti.

Steel body, standard tungsten carbide profiled knives for milling hardwood and softwood, chip thickness limitation and reduced recoil, suitable for both manual and mechanical feed.

Werkzeugkörper aus Stahl, mit Standard-Hart-metall-Profilplatten, für manuelle sowie mechanische Vorschübe geeignet. Zum Einfräsen der Getriebeut für Dreh- und Drehkippschläge an Fenstern und Haustüren.

SH04TM									Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Type	Art. Nr.	€					
185	16,3	30÷60	2	4	4100 - 7100	①	SH04TM04	458,20	601464	350017	502402	600201	500002
173	20,3	30÷60	2	4	4400 - 7500	②	SH04TM05	408,70	601465	350005	502402	600201	500002



TESTA CON COLTELLINI IN HM PER L'ESECUZIONE DI TELAI PER PORTE INTERNE CUTTERHEAD WITH HM KNIVES FOR DOOR FRAMES HW-WENDEPLATTENWERKZEUGE FÜR INNEN-TÜREN



STEEL BODY

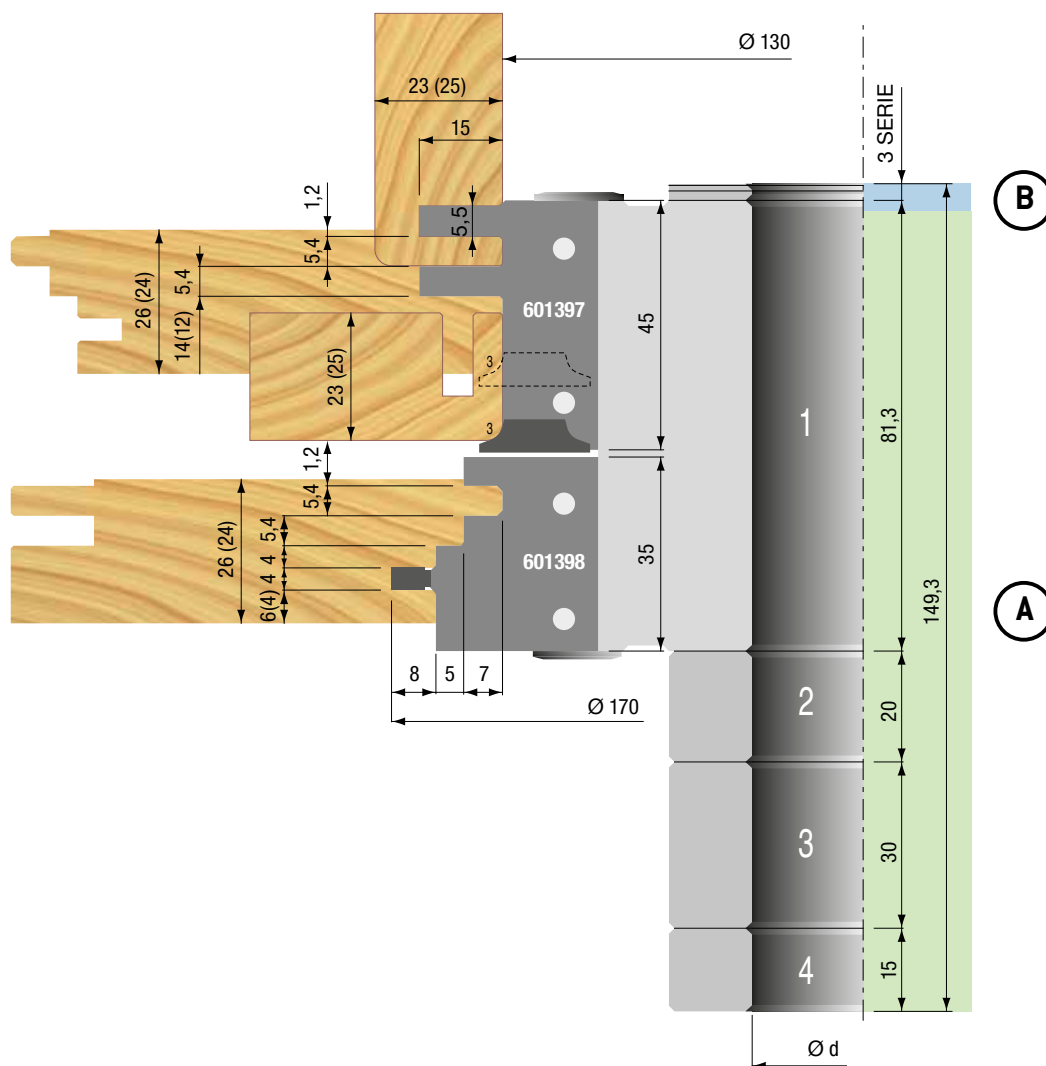
Testa con coltelli in HM corredata di **3 anelli nr. 2-3-4** **(A)** ed una serie di **anelli decimali per un totale di 3 mm di spessore** **(B)** per eseguire 4 diversi profili programmati sui due spessori di legno previsti. La testa viene equipaggiata con il raggiatore R 3 mm, mentre a richiesta possono essere forniti i raggiatori R 1,5 e R 2 e gli spigolatori a 45°.

Cutterhead with HM knives equipped with **3 rings nr. 2-3-4** **(A)** and a series of **decimal rings with 3 mm total thickness** **(B)** to make 4 different profiles programmed on the 2 fixed wood thicknesses. The head is equipped with radius knives R 3 mm, while on request are also supplied radius knives R 1,5 and R 2 and 45° chamfering.

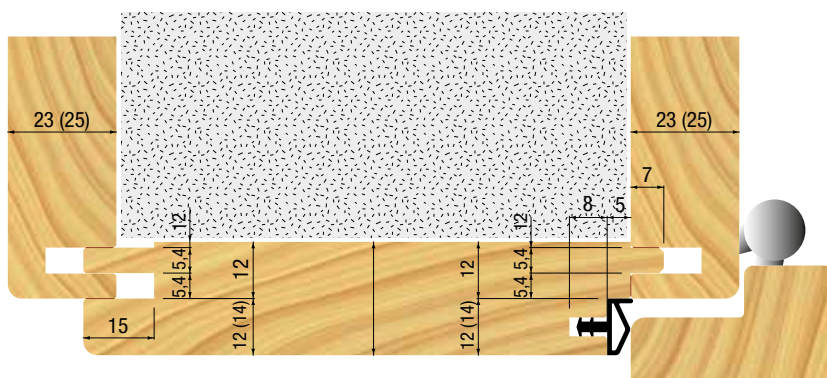
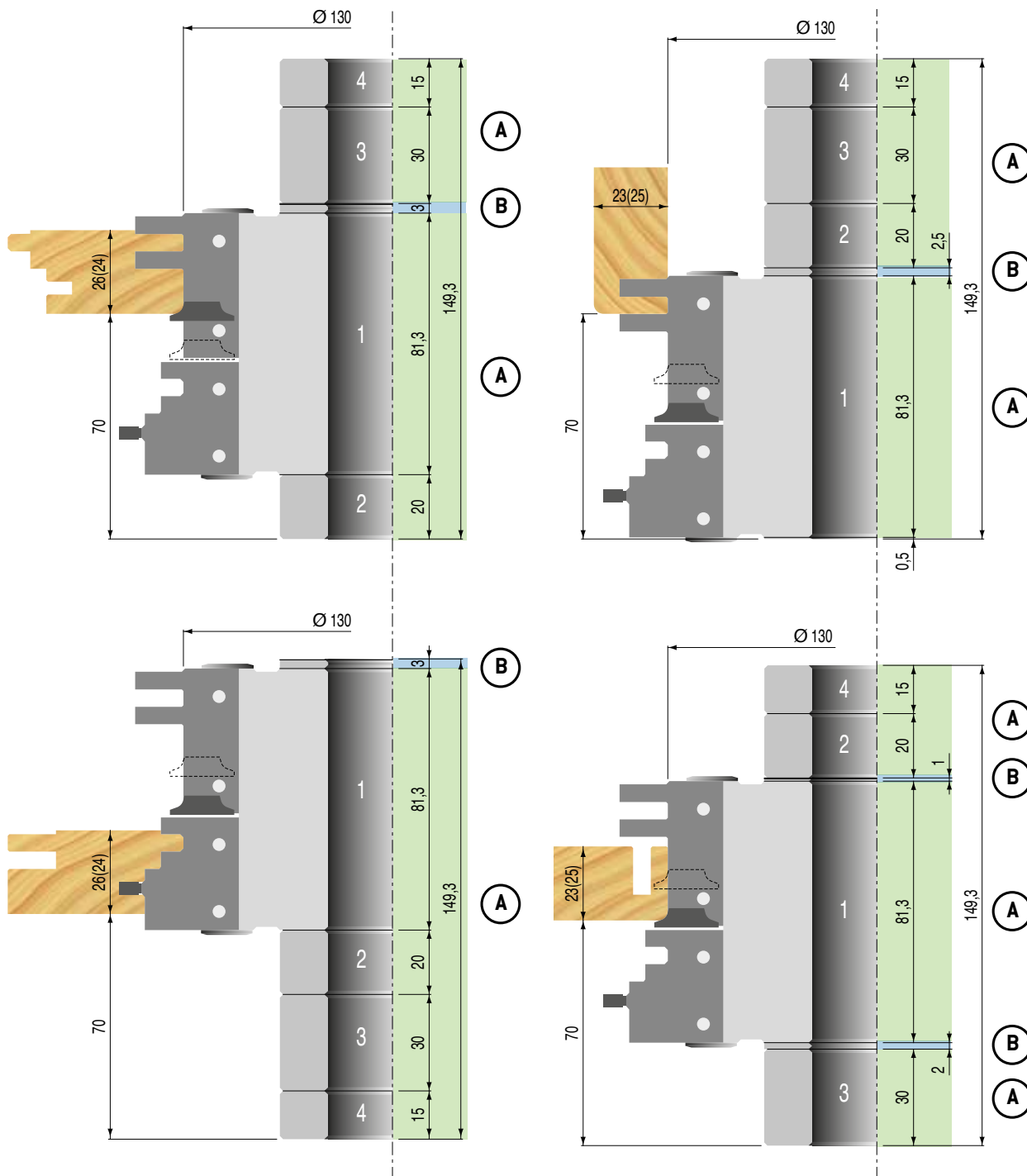
Messerkopf mit HW-Messern bestückt. **Durch die Ringe 2, 3 und 4** **(A)**, **sowie einem Satz zehntel Ringen** **(B)** ist es möglich 4 verschiedene Profile **(B)**, sowie zwei Holzstärken zu produzieren. Der Messerkopf ist bestückt mit Messern R 3 mm, aber auch R 1,5 und R 2, sowie Fase-Messer 45° sind lieferbar.

SH17TM50										Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	Ø d [mm]	Z	S	I	RPM min-max	Art. Nr.		€							
170	81,3	30	2	2	2	4800 - 8200	SH17TM50030	•	724,60	601397	350088	502402	600609	500206		
170	81,3	31,75	2	2	2	4800 - 8200	SH17TM50031	•	754,60							
170	81,3	35	2	2	2	4800 - 8200	SH17TM50035	•	754,60							
170	81,3	40	2	2	2	4800 - 8200	SH17TM50040	•	754,60							
170	81,3	50	2	2	2	4800 - 8200	SH17TM50050	•	754,60	601398	350074	502402			600762	500201

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



PROGRAMMA TESTE CON COLTELLINI IN HM PER LA REALIZZAZIONE DI TELAI PER PORTE
CUTTERHEAD PROGRAM WITH REVERSIBLE KNIVES IN HM TO MAKE DOOR FRAMES
WENDEPLATTEN-FRÄSWERKZEUGE FÜR INNENTÜREN



PROGRAMMA TESTE PER L'ESECUZIONE DI PORTE CUTTERSET FOR DOOR REBATING DOPPELFALZ-GARNITUR



STEEL BODY

Sistema modulare in acciaio montato su boccia di accoppiamento (anelli distanziatori inclusi) completo di coltelli reversibili in HM con angolo di allineamento assiale per i migliori risultati di fresatura e limitatore di truciolo. Adatto per avanzamento manuale.

Modular tooling system in steel execution mounted on coupling bush, (spacing rings included) standard tungsten carbide reversible knives with axial angle alignment for best milling results, chip thickness limitation and reduced recoil, suitable for manual feed.

Dreiteilige Werkzeug-Garnitur aus Stahl montiert auf Büchse inkl. Distanzringen, Standard HWWendeplattentechnik mit Achswinkel, für optimale Schnittgüte, für manuellen Vorschub geeignet.

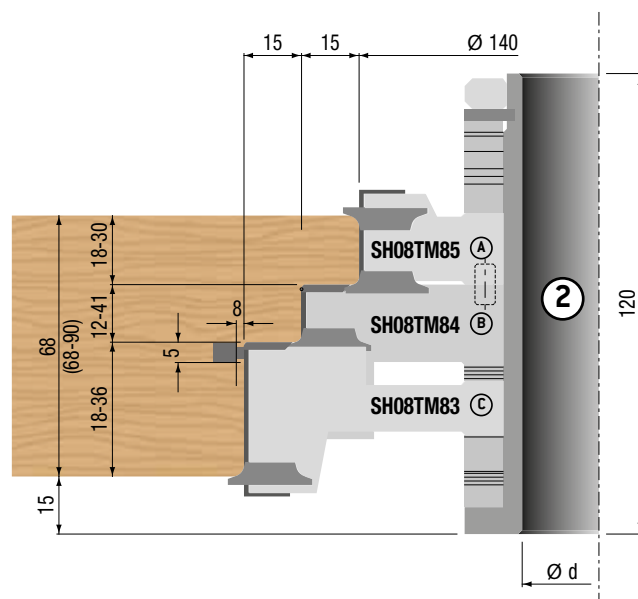
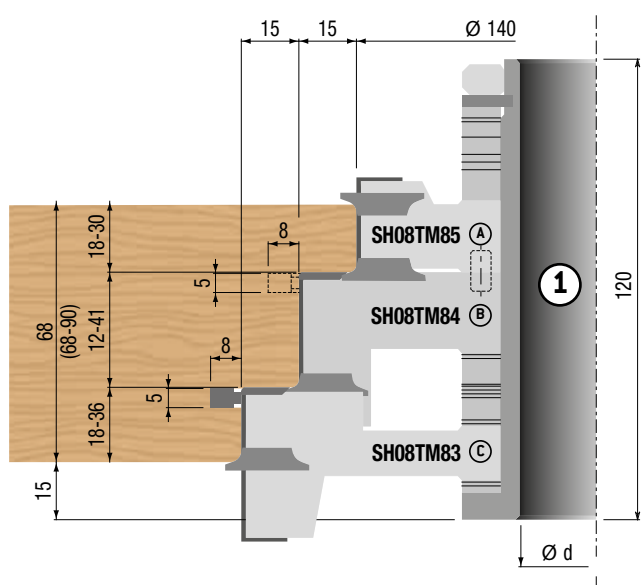
"DUO" SH08TM80									Ricambi / Spare Parts / Ersatzteile									
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Type	Art. Nr.		€										
200	120	30	2	3800 - 6500	①	SH08TM8040030	•	1.934,80	A	600005	350051	502402			600610	500203		
200	120	31,75	2	3800 - 6500	①	SH08TM8040031	•	2.013,40										
200	120	35	2	3800 - 6500	①	SH08TM8040035	•	2.013,40		350060					600611	500206		
200	120	40	2	3800 - 6500	①	SH08TM8040040	•	2.013,40	B	600011	350060	502402	600763	500211			600208	500002
200	120	50	2	3800 - 6500	①	SH08TM8040050	•	2.013,40					600739	500207				
200	120	30	2	3800 - 6500	②	SH08TM8050030	•	1.934,80										
200	120	31,75	2	3800 - 6500	②	SH08TM8050031	•	2.013,40	C									
200	120	35	2	3800 - 6500	②	SH08TM8050035	•	2.013,40		600011	350060	502402	600763	500211	600611	500206	600208	500003
200	120	40	2	3800 - 6500	②	SH08TM8050040	•	2.013,40										
200	120	50	2	3800 - 6500	②	SH08TM8050050	•	2.013,40	SH08TM83						600609	500202		

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

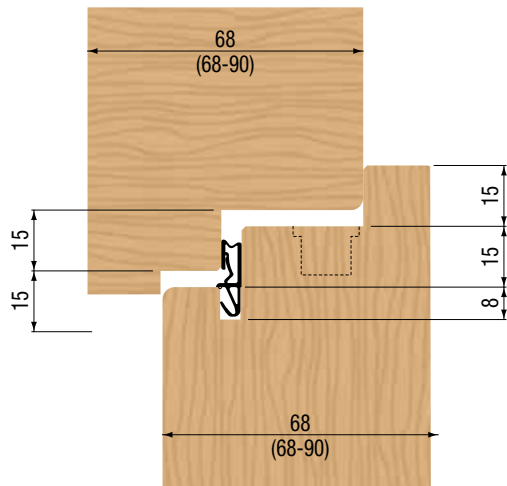
I due Gruppi (1+2) sono disponibili anche in kit che ha codice: **SH08TM8060**

The two groups 1 and 2 are also available in kit with the code: **SH08TM8060**

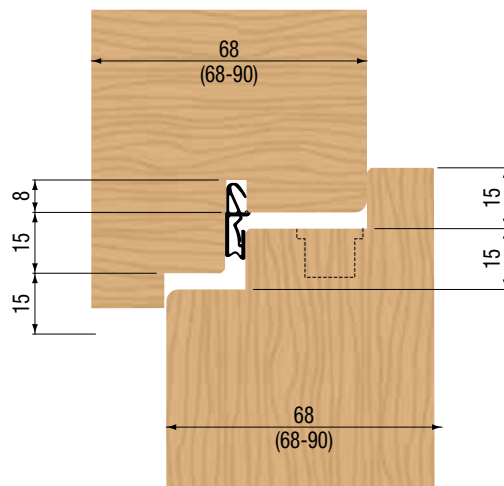
Die beiden Baugruppen (1+2) sind auch als Bausatz mit dem Code: **SH08TM8060** erhältlich



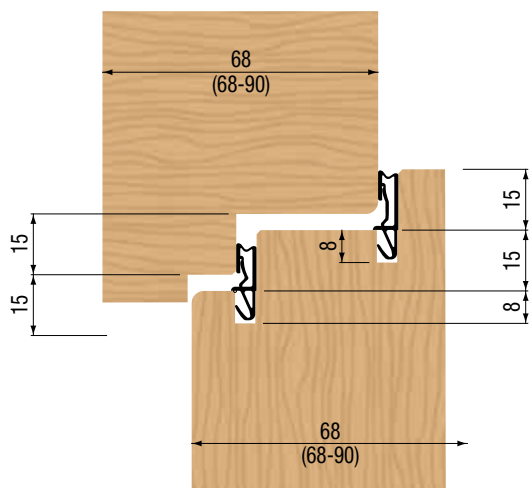
ESECUZIONE CON UNA GUARNIZIONE SULL'ANTA
EXECUTION WITH A DOOR SEAL
AUSFÜHRUNG MIT EINER TÜRDICHTUNG



ESECUZIONE CON UNA GUARNIZIONE SU TELAIO
EXECUTION WITH A FRAME GASKET
AUSFÜHRUNG MIT EINER RAHMENDICHTUNG

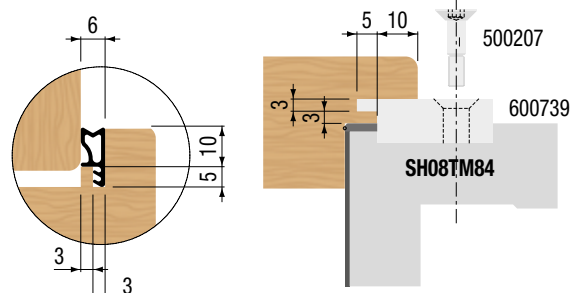
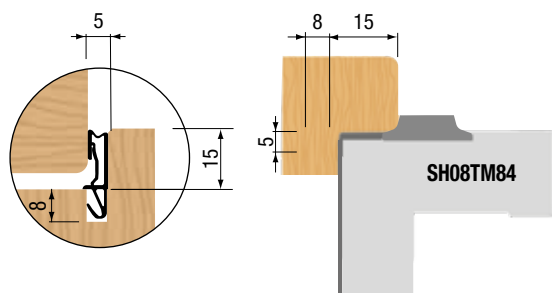
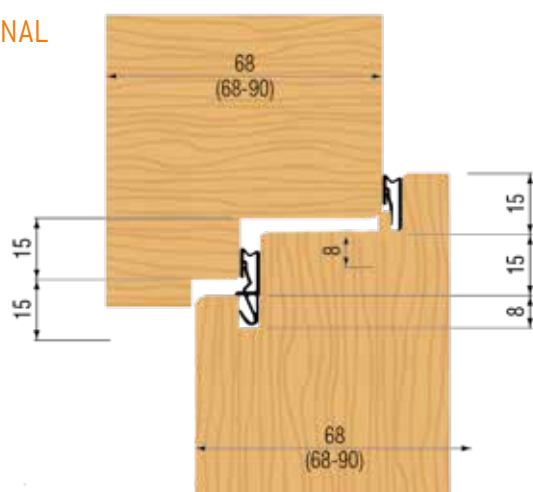


ESECUZIONE CON DUE GUARNIZIONI SULL'ANTA
EXECUTION WITH TWO DOOR SEALS
AUSFÜHRUNG MIT ZWEI TÜRDICHTUNGEN

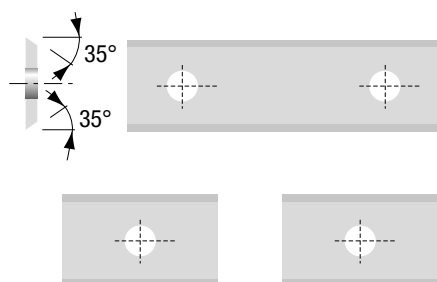


ESECUZIONE CON DUE GUARNIZIONI SULL'ANTA (UNA "STANDARD" E UNA FONOASSORBENTE)
EXECUTION WITH TWO DOOR SEALS (ONE 'STANDARD' AND ONE SOUND-ABSORBING)
AUSFÜHRUNG MIT ZWEI TÜRDICHTUNGEN (EINE "NORMALE" UND EINE GERÄUSCHABSORBIERENDE)

OPTIONAL



COLTELLINI DIRITTI REVERSIBILI HM (ANGOLO DI SPOGLIA 35°) HM REVERSIBLE STRAIGHT KNIVES (CUTTING ANGLE 35°) HM WENDEPLATTEN STANDARD (35°)



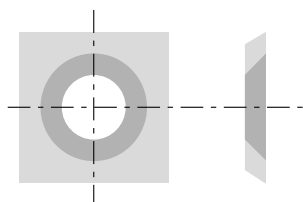
Dimensioni / Dimensions / Abmessungen	Materiali / Materials / Material	Nr. pz./pc./St.	Art. Nr.		€
7,65x12x1,5	HC05	10	600001	•	1,60
12x12x1,5	HC05	10	600002	•	1,80
15x12x1,5	HC05	10	600003	•	2,10
20x12x1,5	HC05	10	600004	•	2,20
24,7x12x1,5	HC05	10	600017	•	3,20
30x12x1,5	HC05	10	600005	•	3,10
40x12x1,5	HC05	10	600011	•	3,90
50x12x1,5	HC05	10	600006	•	4,00
60x12x1,5	HC05	10	600007	•	4,90

* Consigliato per materiali molto duri ed abrasivi: MDF, truciolare, melaminico...

* Suitable for cutting hard materials: MDF, particle board, melamine...

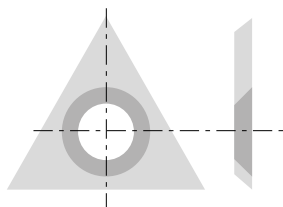
* Geeignet zum Schneiden von harten Materialien: MDF, Spanplatten, Melamin...

RASANTI HM / HM SPURS / HM VORSCHNEIDER



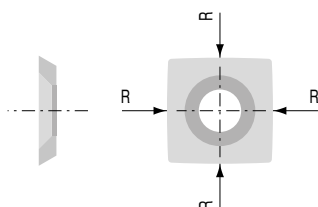
Dimensioni / Dimensions / Abmessungen	Nr. pz./pc./St.	Art. Nr.		€
14x14x1,2	10	600202	•	2,30
14x14x1,7	10	600204	•	3,60
14x14x2,0	10	600201	•	1,60

RASANTI TRIANGOLARI HM / HM TRIANGULAR SPURS / HM VORSCHNEIDER



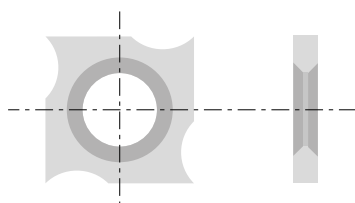
Dimensioni / Dimensions / Abmessungen	Nr. pz./pc./St.	Art. Nr.		€
22x19x2,0	10	600205	•	4,50

COLTELLO PER TESTE A SVILUPPO ELICOIDALE HM / HM KNIFE FOR HELICAL CUTTERHEADS HM ERSATZMESSER FÜR SPIRALFÜGEFRÄSER



Dimensioni / Dimensions / Abmessungen	Nr. pz./pc./St.	Art. Nr.		€
15x15x2,5	10	600207	•	4,90

COLTELLI HM / HM KNIVES / HM MESSER FÜR NUTFRÄSER BIS 8 MM SCHNITTBREITE



Dimensioni / Dimensions / Abmessungen	Nr. pz./pc./St.	Art. Nr.		€
18x18x1,95	10	600301	•	6,70
18x18x2,45	10	600302	•	7,40



YOUR STORIES, OUR BLADES



/02

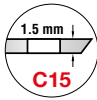
INDUSTRIAL LINE

Utensili per macchine scorniciatrici e finger joint

Tooling line for moulding and finger joint machines

Werkzeuglinie für Kehlautomaten und Keilzinkenanlagen

Legenda dei Simboli / Explanations of Symbols / Legende

MATERIALE / MATERIAL / WERKSTOFF		
 Legno Generico Generic wood Holz allgemein	 Legno Tenero Light Wood Weiches Holz	 Legno Duro Hard Wood Hartes Holz
 Legno lungo vena Long grain wood Langfaseriges Holz	 Legno traverso vena Cross grain wood Quer gemasertes Holz	 Truciolare / MDF Particle board / MDF Spanplatte / MDF
CARATTERISTICHE / FEATURES / EIGENSCHAFTEN		
 Manuale Manual Manuell	 Meccanico Mechanic Mechanisch	 Utensile con lega leggera Light-alloy tool Leichtmetall Werkzeug
 Coltello in HSS HSS Knife HSS-Messer	 Coltello in HM HM Knife HM/HW-Messer	 Coltello 1,5 mm 1,5 mm Knife 1,5 mm Messer
 Coltello 2 mm 2 mm Knife 2 mm Messer	 PLANNEX Coltello 2,2 mm 2,2 mm Knife 2,2 mm Messer	 Coltello 3 mm 3 mm Knife 3 mm Messer
 Angolo assiale Axial Angle Axialwinkel	 Boccola Hydro Hydraulic centering Hydrobüchse	 Attacco HSK HSK Connection Hydraulische Zentrierung
 Accessori Accessories Zubehör	 Adattabile per CNC OK for CNC Geeignet für CNC	 Chiave inclusa Keyway included Inklusive Keilnut
STEEL BODY LIGHT ALLOY BODY		

- Tutte le dimensioni sono in [mm]
All the dimensions are in [mm]
Alle Angaben in [mm]

TP10FC  p. 58	TP20FA  p. 59	CT10SS CT040M  p. 60	CP010SS CP040M  p. 61	"PLANNEX" TH73FS  p. 62
"PLANNEX" TH73PL  NEW p. 63	"PLANNEX" TH78FS  p. 64	TH75FM  p. 66	TS03FC  p. 67	CT050S  p. 68
TS03PL POWER LOCK®  NEW p. 69	TY10FB  p. 70	TY11FB  p. 72	TY30FB  p. 74	TY31FB  p. 76
TH74FA TH74FM  p. 80	TH72FA TH72FM  p. 81	TH72PL POWER LOCK®  NEW p. 82	TG05FC  p. 83	CGMZ0  p. 84
"JOINTEX" TG06FC  p. 87	TG25FM  p. 88	TAL2FM  p. 91	STR1FM  p. 92	TH34FM  p. 93
TH20FM  p. 95				

TESTA PIALLA CON CORPO IN ACCIAIO PLANING HEAD WITH STEEL BODY HOBELKOPF AUS STAHL



STEEL BODY

Testa portacoltelli a 4 taglienti equipaggiata con coltelli pialla in HSS. Corpo in acciaio ad alta resistenza, coltelli da 3 mm di spessore per 30 di altezza. Il posizionamento dei coltelli viene effettuato mediante l'apposito calibro. La testa può essere equipaggiata anche con coltelli con riporti in HM.

High tensile steel tool body fitted with four HSS planing knives. Positioning of the 30x3 mm regrindable knives with appropriate gauge. Tool fitting with Tungsten Carbide planing knives on request.

Werkzeugkörper aus Stahl, bestückt mit vier gerade liegenden, nachschleifbaren HSS Messern 30x3 mm, Druckfederspannung, Messerpositionierung mittels Einstelllehre. Werkzeugbestückung mit Hartmetallmessern auf Anfrage, für mechanische Vorschübe.

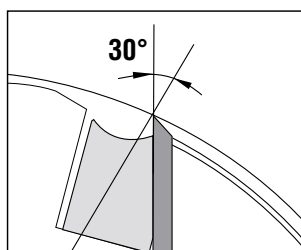
TP10FC								Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€					
125	80	40÷50	4	9000	TP10FC21		188,90	CT010SS02	311007	501602	501309	400004
125	100	40	4	9000	TP10FC22040	•	205,50	CT010SS03	311009	501602	501309	400004
125	100	50	4	9000	TP10FC22050	•	225,50	CT010SS03	311009	501602	501309	400004
125	120	40	4	9000	TP10FC23040	•	224,20	CT010SS04	311011	501602	501309	400004
125	120	50	4	9000	TP10FC23050	•	244,20	CT010SS04	311011	501602	501309	400004
125	130	40	4	9000	TP10FC24040	•	241,50	CT010SS05	311012	501602	501309	400004
125	130	50	4	9000	TP10FC24050	•	261,50	CT010SS05	311012	501602	501309	400004
125	150	40	4	9000	TP10FC25040	•	258,10	CT010SS07	311014	501602	501309	400004
125	150	50	4	9000	TP10FC25050	•	278,10	CT010SS07	311014	501602	501309	400004
125	160	40÷50	4	9000	TP10FC32		268,00	CT010SS08	311015	501602	501309	400004
125	170	40÷50	4	9000	TP10FC26		289,50	CT010SS09	311016	501602	501309	400004
125	180	40	4	9000	TP10FC27040	•	297,30	CT010SS10	311017	501602	501309	400004
125	180	50	4	9000	TP10FC27050	•	317,30	CT010SS10	311017	501602	501309	400004
125	190	40÷50	4	9000	TP10FC28		363,60	CT010SS11	311018	501602	501309	400004
125	210	40÷50	4	9000	TP10FC29		382,20	CT010SS30	311020	501602	501309	400004
125	230	40	4	9000	TP10FC30040	•	358,40	CT010SS13	311022	501602	501309	400004
125	230	50	4	9000	TP10FC30050	•	378,40	CT010SS13	311022	501602	501309	400004
125	240	40÷50	4	9000	TP10FC31		368,20	CT010SS31	311023	501602	501309	400004
125	250	40÷50	4	9000	TP10FC33		379,10	CT010SS14	311024	501602	501309	400004

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

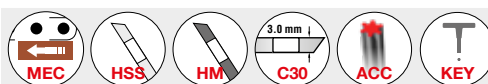
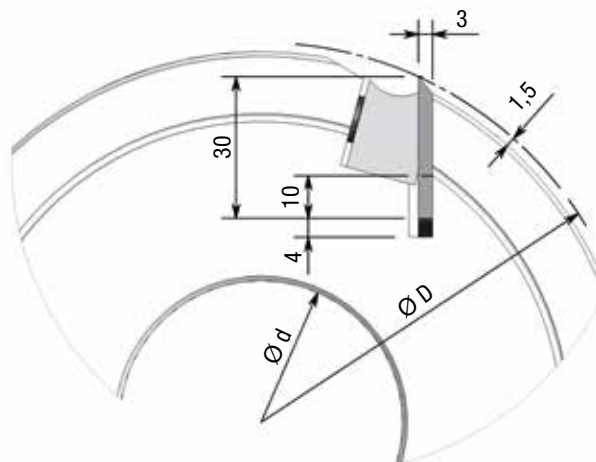
Possiamo fornire altre dimensioni, a richiesta, con lunghezza fino ai 310 mm.

We can supply other dimensions on request, with lengths up to 310 mm.

Auf Anfrage können wir auch andere Abmessungen mit Längen bis zu 310 mm liefern.



Angoli di taglio
Rake angles
Spanwilken
30°



TESTA PIALLA CON CORPO IN LEGA LEGGERA PLANING HEAD WITH LIGHT ALLOY BODY HOBELKOPF AUS HOCHFESTEM ALUMINIUM



LIGHT ALLOY BODY

Testa portacoltelli a 4 taglienti equipaggiata con coltelli pialla in HSS. L'utensile presenta il corpo in lega leggera e viene equipaggiato con coltelli da 3 mm di spessore per 30 mm di altezza. Il posizionamento dei coltelli viene eseguito mediante l'apposito calibro. La testa può essere equipaggiata anche con coltelli con riporti in HM.

Light alloy tool body fitted with four HSS planing knives. Positioning of the 30x3 mm regrindable knives with appropriate gauge. Tool fitted with Tungsten Carbide planing knives on request.

Werkzeugkörper aus hochfestem Aluminium, bestückt mit vier gerade liegenden, nachschleifbaren HSS Messern 30x3 mm, Druckfederspannung, Messerpositionierung mittels Einstelllehre.

Werkzeugbestückung mit Hartmetallmessern auf Anfrage, für mechanische Vorschübe.

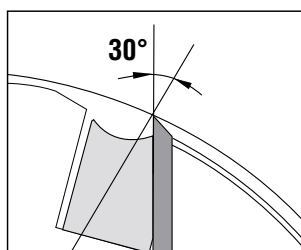
TP20FA								Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€					
125	80	40÷50	4	9000	TP20FA07		217,20	CT010SS02	311007	501602	501309	400004
125	100	40÷50	4	9000	TP20FA08		236,30	CT010SS03	311009	501602	501309	400004
125	120	40÷50	4	9000	TP20FA01		257,80	CT010SS04	311011	501602	501309	400004
125	130	40	4	9000	TP20FA02040	•	277,70	CT010SS05	311012	501602	501309	400004
125	130	50	4	9000	TP20FA02050	•	297,70	CT010SS05	311012	501602	501309	400004
125	150	40÷50	4	9000	TP20FA03		296,80	CT010SS07	311014	501602	501309	400004
125	160	40÷50	4	9000	TP20FA11		308,20	CT010SS08	311015	501602	501309	400004
125	180	40÷50	4	9000	TP20FA04		341,90	CT010SS10	311017	501602	501309	400004
125	190	40÷50	4	9000	TP20FA09		418,20	CT010SS11	311018	501602	501309	400004
125	230	40	4	9000	TP20FA05040	•	412,10	CT010SS13	311022	501602	501309	400004
125	230	50	4	9000	TP20FA05050	•	432,10	CT010SS13	311022	501602	501309	400004
125	240	40÷50	4	9000	TP20FA10		423,50	CT010SS31	311023	501602	501309	400004
125	250	40÷50	4	9000	TP20FA12		436,00	CT010SS14	311024	501602	501309	400004

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

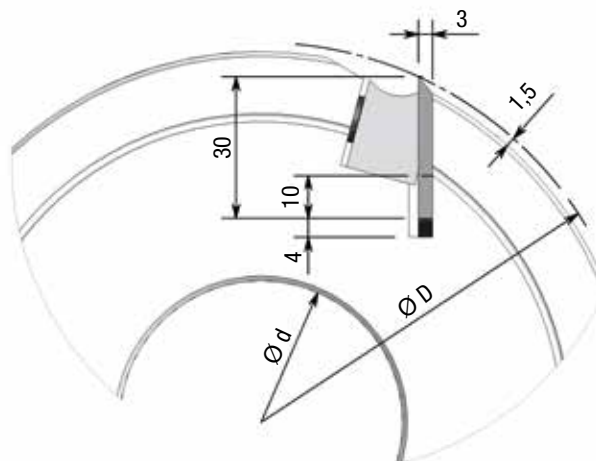
Tutte le altre dimensioni sono disponibili su richiesta. Possiamo fornire altre dimensioni fino a 310 mm di lunghezza.

All other dimensions on request. Cutting widths up to 310 mm possible.

Andere Abmessungen auf Anfrage. Hobelbreiten bis 310 mm lieferbar.



Angoli di taglio
Rake angles
Spanwilken
30°



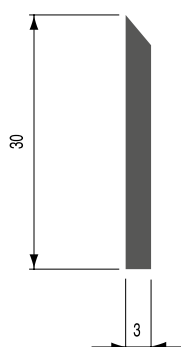
COLTELLI PIALLA PLANER KNIVES STREIFENHOBELMESSER



Coltelli pialla di due qualità: HSS per legni teneri, resinosi e di media durezza. Coltelli con riporti in HM per legni sabbiosi, duri e composti. Dimensioni: altezza 30 mm, spessore 3 mm.

Planing knives in quality HSS or Tungsten Carbide tipped, height 30 mm and thickness 3 mm.

Streifenhobelmesser in Qualität HSS oder Hartmetall (HW) bestückt, Messerhöhe 30 mm, Messerdicke 3 mm, Schneide allseitig geschliffen und geläpft.



Altezza del coltello
Knife height
Messerhöhe:
30 mm



CT010SS HSS				
L [mm]	Art. Nr.	Nr. pz./pc./St.		€/pcs.
60	CT010SS01	2	•	2,00
80	CT010SS02	2	•	2,70
100	CT010SS03	2	•	3,30
120	CT010SS04	2	•	4,00
130	CT010SS05	2	•	4,30
140	CT010SS06	2		4,60
150	CT010SS07	2	•	5,00
160	CT010SS08	2		5,30
170	CT010SS09	2		5,60
180	CT010SS10	2	•	6,00
190	CT010SS11	2	•	6,30
200	CT010SS12	2		6,60
210	CT010SS30	2		6,90
230	CT010SS13	2	•	7,60
240	CT010SS31	2		7,90
250	CT010SS14	2		8,30
260	CT010SS35	2		8,60
300	CT010SS15	2	•	9,90
310	CT010SS37	2		10,20
350	CT010SS16	2	•	11,50
400	CT010SS17	2		13,20
410	CT010SS18	2		13,50
500	CT010SS19	2		16,50
510	CT010SS20	2	•	16,80
520	CT010SS21	2	•	17,10
530	CT010SS22	2		17,50
600	CT010SS23	2		19,80
610	CT010SS24	2	•	20,10
630	CT010SS25	2		20,70
640	CT010SS26	2		21,10
710	CT010SS27	2		23,40
810	CT010SS28	2		26,70
1050	CT010SS29	2		34,60
1080	CT010SS39	2	•	35,50



CT040M HM				
L [mm]	Art. Nr.	Nr. pz./pc./St.		€/pcs.
60	CT040M01	2		14,00
80	CT040M02	2		18,70
100	CT040M03	2		23,40
120	CT040M04	2		28,00
130	CT040M05	2		30,30
140	CT040M06	2		32,70
150	CT040M07	2		35,00
160	CT040M08	2		37,30
170	CT040M09	2		39,70
180	CT040M10	2		42,00
190	CT040M11	2		44,30
200	CT040M12	2		46,70
210	CT040M30	2		49,00
230	CT040M13	2		53,70
240	CT040M31	2		56,00
250	CT040M14	2		58,30
260	CT040M35	2		60,60
300	CT040M15	2		70,00
310	CT040M37	2		72,30
350	CT040M16	2		81,60
400	CT040M17	2		93,30
410	CT040M18	2		95,60
500	CT040M19	2		116,60
510	CT040M20	2		118,90
520	CT040M21	2		121,20
530	CT040M22	2		123,60
600	CT040M23	2		139,90
610	CT040M24	2		142,20
630	CT040M25	2		146,90
640	CT040M26	2		149,20
710	CT040M27	2		165,50
810	CT040M28	2		188,80
1010	CT040M29	2		235,40
1050	CT040M39	2		244,80

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

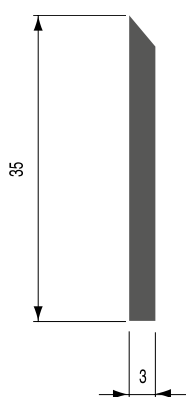
COLTELLI PIALLA PLANER KNIVES STREIFENHOBELMESSER



Coltelli pialla di due qualità: HSS per legni teneri, resinosi e di media durezza. Coltelli con riporti in HM per legni sabbiosi, duri e composti. Dimensioni: altezza 35 mm, spessore 3 mm.

Planing knives in quality HSS or Tungsten Carbide tipped, height 35 mm and thickness 3 mm.

Streifenhobelmesser in Qualität HSS oder Hartmetall (HW) bestückt, Messerhöhe 35 mm, Messerdicke 3 mm, Schneide allseitig geschliffen und geläpft.



Altezza del coltello
Knife height
Messerhöhe:
35 mm

HSS
KNIVES

CP010SS HSS				
L [mm]	Art. Nr.	Nr. pz./pc./St.		€/pcs.
150	CP010SS01	2		5,60
160	CP010SS02	2		6,00
180	CP010SS03	2		6,70
200	CP010SS04	2		7,50
210	CP010SS05	2		7,80
230	CP010SS06	2		8,60
240	CP010SS29	2		8,90
250	CP010SS07	2		9,30
260	CP010SS08	2		9,70
300	CP010SS09	2		11,20
310	CP010SS10	2		11,50
350	CP010SS11	2		13,00
400	CP010SS12	2	•	14,90
410	CP010SS13	2	•	15,20
450	CP010SS14	2		16,70
460	CP010SS15	2		17,10
500	CP010SS16	2	•	18,60
510	CP010SS17	2	•	18,90
520	CP010SS18	2	•	19,30
530	CP010SS19	2	•	19,70
550	CP010SS20	2		20,40
600	CP010SS21	2		22,30
610	CP010SS22	2		22,60
630	CP010SS23	2	•	23,40
640	CP010SS24	2		23,70
680	CP010SS25	2		25,20
710	CP010SS26	2		26,30
810	CP010SS27	2		30,00
1050	CP010SS28	2		38,90
1080	CP010SS38	2	•	40,00

HW
INSERTS

CP040M HM				
L [mm]	Art. Nr.	Nr. pz./pc./St.		€/pcs.
150	CP040M01	2		35,00
160	CP040M02	2		37,30
180	CP040M03	2		42,00
200	CP040M04	2		46,70
210	CP040M05	2		49,00
230	CP040M06	2		53,70
240	CP040M29	2		56,00
250	CP040M07	2		58,30
260	CP040M08	2		60,60
300	CP040M09	2		70,00
310	CP040M10	2		72,30
350	CP040M11	2		81,60
400	CP040M12	2		93,30
410	CP040M13	2		95,60
450	CP040M14	2		104,90
460	CP040M15	2		107,30
500	CP040M16	2		116,60
510	CP040M17	2		118,90
520	CP040M18	2		121,20
530	CP040M19	2		123,60
550	CP040M20	2		128,20
600	CP040M21	2		139,90
610	CP040M22	2		142,20
630	CP040M23	2		146,90
640	CP040M24	2		149,20
680	CP040M25	2		158,50
710	CP040M26	2		165,50
810	CP040M27	2		188,80
1010	CP040M28	2		235,40
1050	CP040M38	2		244,80

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



LIGHT ALLOY BODY



ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Testa a piallare con corpo in lega leggera (acciaio su richiesta) con coltelli reversibili intercambiabili adatta per lavorare su scorniciatrici e profilatrici automatiche. Il brevettato bloccaggio centrifugo consente la sostituzione rapida e precisa dei coltelli. L'utensile può montare indifferentemente coltelli in acciaio HSS o in HM integrale. Equipaggiamento standard con coltelli in acciaio HSS. I coltelli in HM devono essere ordinati separatamente. Serraggio Hydro a richiesta.

Planing cutterhead in light alloy execution (steel on request) fitted with HSS planing knives, solid carbide knives can be obtained in addition used in planing and moulding machines. Patented centrifugal clamping system for fast, precise and comfortable knife exchange, further dimensions on request, suitable for mechanical feed. Execution with Hydro clamping on request.

Hochleistungs-Hobelkopf mit zweiseitig schneidenden Messern und patentierter Flieh-kraftspannung für schnellen und präzisen Messerwechsel. Einsatz auf Hobel- und Profil-fräsmaschinen sowie CNC. Werkzeugkörper aus hochfestem Aluminium (Stahl auf Anfrage), Standardausführung mit HSS-Messern, Einsatz von HW-Messern möglich, für mechanische Vorschübe geeignet. Hydro Spannung auf Anfrage.

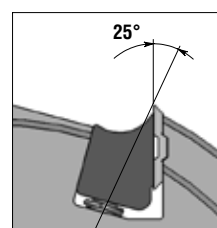
"PLANNEX" TH73FS							Ricambi / Spare Parts / Ersatzteile			
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€				
100	100	40	2	12500	TH73FS01040	275,00	CT080S02	371002	501701	400003
100	170	40	2	12500	TH73FS02040	377,30	CT080S07	371007	501701	400003
100	180	40	2	12500	TH73FS03040	387,50	CT080S08	371008	501701	400003
100	100	40	4	12500	TH73FS04040	305,60	CT080S02	371002	501701	400003
100	170	40	4	12500	TH73FS05040	419,20	CT080S07	371007	501701	400003
100	180	40	4	12500	TH73FS06040	430,50	CT080S08	371008	501701	400003
120	120	40÷50	4	10500	TH73FS07	315,00	CT080S03	371003	501701	400003
120	140	40÷50	4	10500	TH73FS08	378,80	CT080S05	371005	501701	400003
120	180	40÷50	4	10500	TH73FS09	453,70	CT080S08	371008	501701	400003
120	220	40÷50	4	10500	TH73FS10	503,50	CT080S10	371013	501701	400003
120	230	40÷50	4	10500	TH73FS11	515,80	CT080S11	371011	501701	400003
125	80	40÷50	4	10000	TH73FS12	245,10	CT080S01	371001	501701	400003
125	100	40÷50	4	10000	TH73FS13	265,80	CT080S02	371002	501701	400003
125	120	40÷50	4	10000	TH73FS14	286,40	CT080S03	371003	501701	400003
125	130	40	4	10000	TH73FS15040	• 319,20	CT080S04	371004	501701	400003
125	130	50	4	10000	TH73FS15050	• 339,20	CT080S04	371004	501701	400003
125	150	40÷50	4	10000	TH73FS16	339,90	CT080S06	371006	501701	400003
125	160	40÷50	4	10000	TH73FS26	349,70	CT080S14	371014	501701	400003
125	170	40÷50	4	10000	TH73FS17	364,50	CT080S07	371007	501701	400003
125	180	40÷50	4	10000	TH73FS18	374,40	CT080S08	371008	501701	400003
125	190	40÷50	4	10000	TH73FS19	389,20	CT080S09	371009	501701	400003
125	230	40	4	10000	TH73FS20040	• 448,50	CT080S11	371011	501701	400003
125	230	50	4	10000	TH73FS20050	• 468,50	CT080S11	371011	501701	400003
125	240	40	4	10000	TH73FS21040	• 458,40	CT080S12	371012	501701	400003
125	240	50	4	10000	TH73FS21050	• 478,40	CT080S12	371012	501701	400003
125	250	40÷50	4	10000	TH73FS28	483,00	CT080S15	371015	501701	400003
140	80	40÷50	4	9000	TH73FS22	281,90	CT080S01	371001	501701	400003
140	130	40÷50	4	9000	TH73FS23	367,10	CT080S04	371004	501701	400003
140	160	40÷50	4	9000	TH73FS27	402,20	CT080S14	371014	501701	400003
140	180	40÷50	4	9000	TH73FS24	430,50	CT080S08	371008	501701	400003
140	230	40÷50	4	9000	TH73FS25	515,80	CT080S11	371011	501701	400003
140	250	40÷50	4	9000	TH73FS29	555,50	CT080S15	371015	501701	400003

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Possiamo fornire altre dimensioni, a richiesta, con lunghezza fino ai 310 mm.
Coltelli pialla in HSS inclusi.

We can supply other dimensions on request, with lengths up to 310 mm.
HSS planer knives included.

Auf Anfrage können wir auch andere Abmessungen mit Längen bis zu 310 mm liefern. Hobelbreiten bis 310 mm lieferbar.



Angoli di taglio
Rake angles
Spanwilken
25°



STEEL BODY

Testa pialla con corpo in acciaio solidale all'attacco HSK 85 per RPM 12000. È equipaggiata con 2 coltelli (4 opzionali) con cambio rapido e consente lavorazioni di piallatura su legni teneri, duri, truciolari e composti. Il brevettato bloccaggio centrifugo consente la sostituzione rapida e precisa dei coltelli. L'utensile può montare indifferentemente coltelli in acciaio HS o in HW. Equipaggiamento standard con coltelli in acciaio HS. I coltelli in HW devono essere ordinati separatamente. Per un regime di rotazione di 8000 RPM, l'utensile è costruito con corpo in lega leggera e montato su un opportuno attacco HSK 85.

Planing cutterhead with body in light alloy with "PowerLock"® chuck. It is equipped with 2 or 4 reversible interchangeable knives suitable for soft and hard wood, plywood and composites. The patented centrifugal fixing system allows for fast and precise tool change. The tool may fit o knives in HS or solid HW. The planing cutterheads are equipped with HS steel knives. HW knives are available on request.

Hobelkopf mit Werkzeugkörper aus Leicht metall und zweiseitig schneidenden Messern zum Bearbeiten von weichen und harten Hölzern, Span- und Schichthölzern. Die patentierte Fliehkraftspannung mit Powerlock-Schaft® ermöglicht einen schnellen und genauen Messerwechsel. Es können HS- oder Hartmetallmesser eingesetzt werden. Standardzubehör mit HS-Messern. HW-Messer müssen gesondert bzw. zusätzlich bestellt werden.

"PLANNEX" TH73PL POWER LOCK®										Ricambi / Spare Parts / Ersatzteile			
Ø D [mm]	B [mm]	Z	RPM min-max	Rotazione Rotation Lauf	Art. Nr.	€	Rotazione Rotation Lauf	Art. Nr.	€				
90	60	2	12000	RH/T	TH73PL20	593,80	LH/B	TH73PL19	593,80	CT080S21	371021	501701	400003
90	80	2	12000	RH/T	TH73PL02	640,10	LH/B	TH73PL01	640,10	CT080S01	371001	501701	400003
90	100	2	12000	RH/T	TH73PL04	750,00	LH/B	TH73PL03	750,00	CT080S02	371002	501701	400003
90	130	2	12000	RH/T	TH73PL06	827,00	LH/B	TH73PL05	827,00	CT080S04	371004	501701	400003
90	150	2	12000	RH/T	TH73PL08	960,90	LH/B	TH73PL07	960,90	CT080S06	371006	501701	400003
90	170	2	12000	RH/T	TH73PL10	1.041,00	LH/B	TH73PL09	1.041,00	CT080S07	371007	501701	400003
90	180	2	12000	T	TH73PL12	1.077,40	B	TH73PL11	1.077,40	CT080S08	371008	501701	400003
90	190	2	12000	T	TH73PL14	1.102,20	B	TH73PL13	1.102,20	CT080S09	371009	501701	400003
90	210	2	12000	T	TH73PL16	1.218,60	B	TH73PL15	1.218,60	CT080S22	371022	501701	400003
90	240	2	12000	T	TH73PL18	1.277,80	B	TH73PL17	1.277,80	CT080S12	371012	501701	400003
90	60	4	12000	RH/T	TH73PL60	621,80	LH/B	TH73PL59	621,80	CT080S21	371021	501701	400003
90	80	4	12000	RH/T	TH73PL42	668,10	LH/B	TH73PL41	668,10	CT080S01	371001	501701	400003
90	100	4	12000	RH/T	TH73PL44	785,20	LH/B	TH73PL43	785,20	CT080S02	371002	501701	400003
90	130	4	12000	RH/T	TH73PL46	864,10	LH/B	TH73PL45	864,10	CT080S04	371004	501701	400003
90	150	4	12000	RH/T	TH73PL48	999,50	LH/B	TH73PL47	999,50	CT080S06	371006	501701	400003
90	170	4	12000	RH/T	TH73PL50	1.089,30	LH/B	TH73PL49	1.089,30	CT080S07	371007	501701	400003
90	180	4	12000	T	TH73PL52	1.127,10	B	TH73PL51	1.127,10	CT080S08	371008	501701	400003
90	190	4	12000	T	TH73PL54	1.154,70	B	TH73PL53	1.154,70	CT080S09	371009	501701	400003
90	210	4	12000	T	TH73PL56	1.276,20	B	TH73PL55	1.276,20	CT080S22	371022	501701	400003
90	240	4	12000	T	TH73PL58	1.336,60	B	TH73PL57	1.336,60	CT080S12	371012	501701	400003

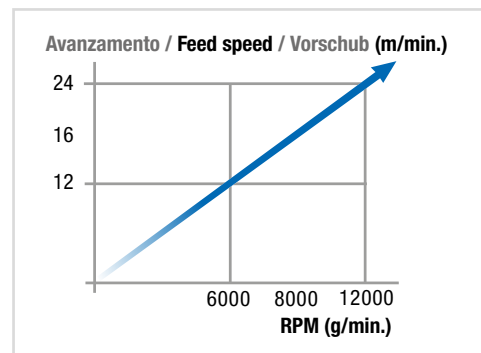
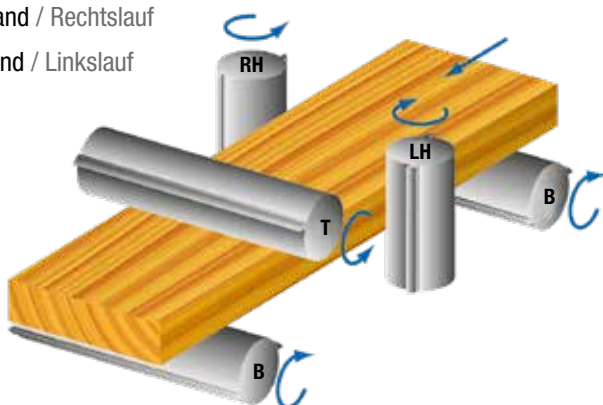
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

RH: Rotazione Destra / Right Hand / Rechtslauf

LH: Rotazione Sinistra / Left Hand / Linkslauf

T: Superiore / Top / Oben

B: Inferiore / Bottom / Unten





LIGHT ALLOY BODY



ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Testa a piallare in lega leggera (corpo in acciaio su richiesta) con coltelli reversibili intercambiabili in HSS combinati con coltelli sagomati registrabili in HM. Indicata per lavorazioni di piallatura e contemporaneamente di profilatura/smussatura di legni teneri e duri, su scorniciatrici e profilatrici automatiche. I coltelli sagomati in HM sono registrabili su tutta la lunghezza dell'utensile. L'utensile può montare indifferentemente coltelli in acciaio HSS o in HM integrale. Coltelli in HM disponibili su richiesta. Brevettato bloccaggio centrifugo.

Light alloy planing cutter head (steel body on request) fitted with HSS reversible knives combined with adjustable profiled carbide knives. Suitable for planing and profiling on automated moulding- and profiling machines in one single working step. The profiled knives are adjustable along the entire width of the tool. Planers fitted with HSS planing knives, HM execution on request. Patented centrifugal clamping system.

Hochleistungs-Hobelkopf mit zweiseitig schneidenden Hobelmessern und präzise einstellbaren Profilmessern zum zeitgleichen Hobeln und Profilieren. Einsatz auf Profilfräsmaschinen sowie CNC. Werkzeugkörper aus hochfestem Aluminium, (Stahl Auf Anfrage) Standardausführung mit HSS-Hobelmessern und HW-Profilmessern, Einsatz von HW-Hobelmessern möglich, für mechanische Vorschübe geeignet. Patentierter Flieh-kraftspannung

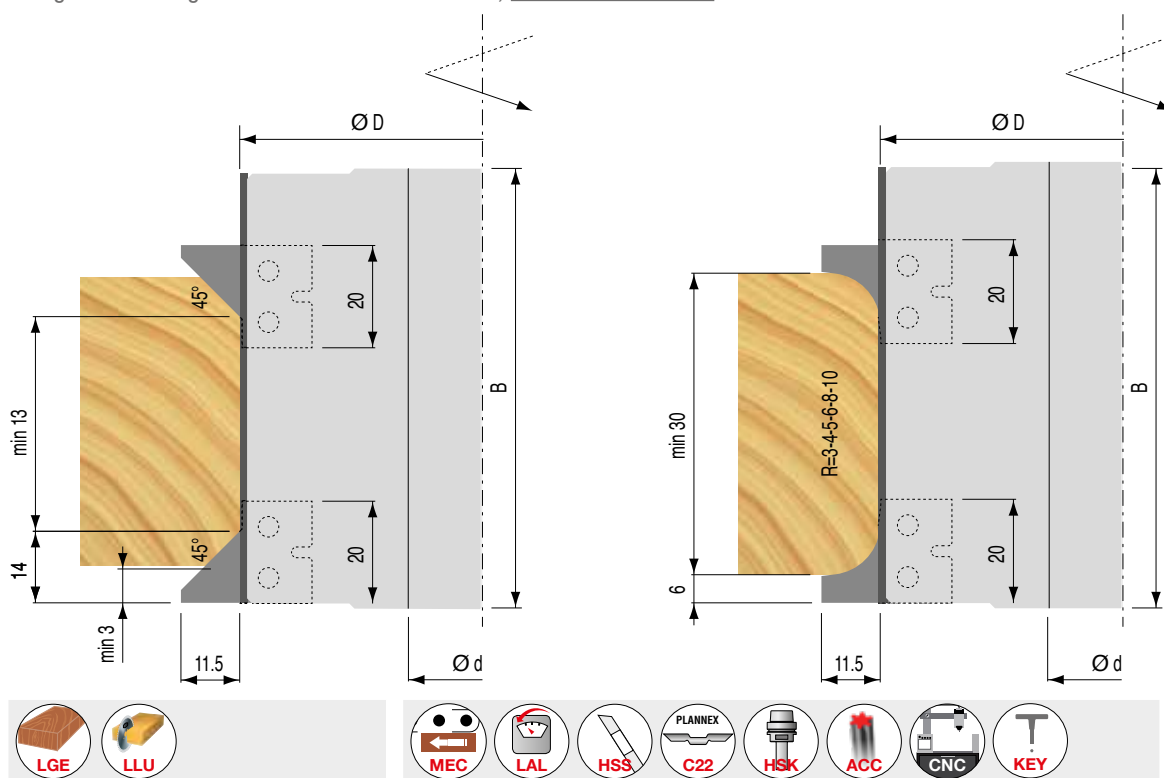
"PLANNEX" TH78FS									Ricambi / Spare Parts / Ersatzteile			
Ø D [mm]	B [mm]	Ø d [mm]	Z	I	RPM min-max	Art. Nr.		€				
125	130	40	4	2 + 2	7500	TH78FS01040	•	364,00	CT080S04	371004	501701	400003
125	130	50	4	2 + 2	7500	TH78FS01050	•	384,00	CT080S04	371004	501701	400003
125	180	40÷50	4	2 + 2	7500	TH78FS02		479,70	CT080S08	371008	501701	400003
125	230	40	4	2 + 2	7500	TH78FS03040	•	595,00	CT080S11	371011	501701	400003
125	230	50	4	2 + 2	7500	TH78FS03050	•	615,00	CT080S11	371011	501701	400003
125	240	40÷50	4	2 + 2	7500	TH78FS10		618,40	CT080S12	371012	501701	400003
140	130	40÷50	4	2 + 2	7000	TH78FS04		418,70	CT080S04	371004	501701	400003
140	180	40÷50	4	2 + 2	7000	TH78FS05		551,70	CT080S08	371008	501701	400003
140	230	40÷50	4	2 + 2	7000	TH78FS06		684,60	CT080S11	371011	501701	400003
140	240	40÷50	4	2 + 2	7000	TH78FS11		710,70	CT080S12	371012	501701	400003

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Altre dimensioni disponibili su richiesta. Prezzo testa con coltelli a piallare in HSS inclusi. Inserti non compresi nel prezzo.

Other dimensions on request. HSS planer knives included, inserts on request.

Andere Abmessungen auf Anfrage. Inklusive HSS-Hobelmesser, ohne Profileinsätze.



PROFILI STANDARD / STANDARD PROFILES / STANDARDPROFILE

Controcoltelli / Backing plates / Stützplatten		Coltelli HM / HM knives / HM-Messer		
	Art. nr.		Art. nr.	
				
	CC015003		601815	45°
	CC015004		601816	45°
	CC015001		601801	R3
			601803	R4
			601805	R5
			601807	R6
			601809	R8
			601811	R10
	CC015002		601802	R3
			601804	R4
			601806	R5
			601808	R6
			601810	R8
			601812	R10

Tasselli / Wedges / Spannbacken



Art. Nr. 300050

Per il calcolo del prezzo.
 Ogni singolo blocchetto
 tagliente è così composto:
 1 coltello
 1 controcoltello
 1 tassello

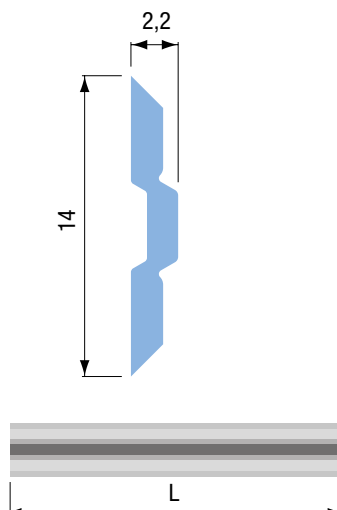
For price calculation:
 Every adjustable profiled
 knife group includes:
 1 knife
 1 backing plate
 1 wedge

Preisermittlung Einsätze:
 1 Messer
 1 Stützplatte
 1 Spannkeil

COLTELLI PIALLA "PLANEX"
 "PLANEX" PLANING KNIVES
 "PLANEX" HOBELMESSER



HM su richiesta / on request / auf Anfrage



L [mm]	Art. Nr.	€
60	CT080S21	6,10
80	CT080S01	8,10
100	CT080S02	10,30
120	CT080S03	12,20
130	CT080S04	13,20
140	CT080S05	14,20
150	CT080S06	15,20
160	CT080S14	16,20
170	CT080S07	17,20
180	CT080S08	18,30
190	CT080S09	19,30
210	CT080S22	21,30
220	CT080S10	22,30
230	CT080S11	23,30
240	CT080S12	24,30
250	CT080S15	25,30

L [mm]	Art. Nr.	€
60	CT080M21	31,80
80	CT080M01	42,30
100	CT080M02	52,90
120	CT080M03	63,50
130	CT080M04	68,80
140	CT080M05	74,10
150	CT080M06	79,40
160	CT080M14	84,70
170	CT080M07	90,00
180	CT080M08	95,30
190	CT080M09	100,50
210	CT080M22	111,10
220	CT080M10	116,40
230	CT080M11	121,70
240	CT080M12	127,00
250	CT080M15	132,30

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



TESTA RASANTE CON COLTELLI REVERSIBILI REFERENCE CUTTER HEAD FÜHRUNGSFALZ-FRÄSER



STEEL BODY

Testa rasante con coltelli reversibili per accoppiamento con utensili a piallare (art. TH73, TH78FS, TP10, TP20, TH74 e TH72). Sistema di pre-raddrizzamento in ingresso. Le facce del pezzo lavorato (1) risultano perfettamente ortogonali grazie all'utilizzo combinato della testa rasante (2) con l'utensile a piallare (3). La testa rasante crea una lavorazione perpendicolare al piano di lavoro ottenendo così 2 lati a 90° che saranno di riferimento per le lavorazioni a seguire.

Rebating cutter head with TC-reversible knives for use in combination with planning cutters (art. TH73, TH78FS, TP10, TP20, TH74 e TH72). A 90° angle is obtained on the planned work piece (1) for perfect guidance (2 and 3) along successive milling operations. Steel body execution, suitable for mechanical feed.

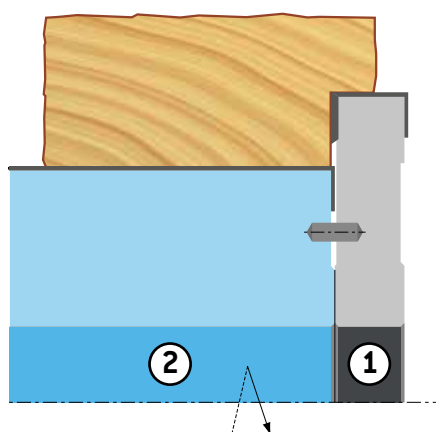
Werkzeugkörper aus Stahl mit HW-Wendeplatten, zur Verwendung mit Hobelköpfen für mechanische Vorschübe geeignet (art. TH73, TH78FS, TP10, TP20, TH74 e TH72). Das Werkstück (1) wird so rechtwinklig vorgefräst (2), um eine saubere Führung zu gewährleisten.

TH75FM									Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.		€					
120	12	40	2	2	10000	TH75FM21040		450,10	600002	350023	502403	600201	500002
120	12	40	4	2	10000	TH75FM22040		497,50	600002	350023	502403	600201	500002
125	12	40	2	2	10000	TH75FM23040		450,20	600002	350023	502403	600201	500002
125	12	40	4	2	10000	TH75FM24040		521,20	600002	350023	502403	600201	500002
145	12	40	2	2	9000	TH75FM25040	•	473,80	600002	350023	502403	600201	500002
145	12	50	2	2	9000	TH75FM25050	•	521,20	600002	350023	502403	600201	500002
150	12	50	4	4	8500	TH75FM26050		544,90	600002	350023	502403	600201	500002
160	12	50	4	4	8000	TH75FM27050		544,90	600002	350023	502403	600201	500002
165	12	50	4	4	8000	TH75FM28050		544,90	600002	350023	502403	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Pezzo durante la lavorazione
Work-piece during process
Werkstück

Pezzo lavorato
Finished work-piece
Fertigteil



①	②
Testa rasante Cutter Head Führungsfalz-Fräser	Utensile a piallare Planning Cutter Verwendung mit Hobelköpfen



TESTA PORTACOLTELLI ZIGRINATI SERRATED KNIFE CUTTER HEAD UNIVERSAL-MESSERKOPF



STEEL BODY

Testa a 4 taglienti da equipaggiare con coltelli in HSS di spessore 8 mm. Il sistema di bloccaggio dei coltelli e la loro zigrinatura sul dorso, assicurano un perfetto posizionamento. L'utensile viene fornito senza i coltelli (CT050S), questi ultimi sono elencati nell'apposita tabella e vengono profilati a richiesta e su preventivo. La testa può essere equipaggiata anche con coltelli in HM.

Steel body to be fitted with 4 serrated back HSS- or HM-knives, tool supplied without knives, blanks (CT050S) and/or profiled knives on request, suitable for mechanical feed only.

Werkzeugkörper aus Stahl, bestückt mit vier gerade liegenden, Verzahnung am Messerrücken und in der Messeraufnahme im Fräskörper. Zur Aufnahme von 8 mm und 10 mm dicken HSS-Messern (HW- auf Anfrage), Fräser wird ohne Messer geliefert (siehe CT050S in Tabelle). Profilierung auf Anfrage. Lediglich für mechanische Vorschübe geeignet.

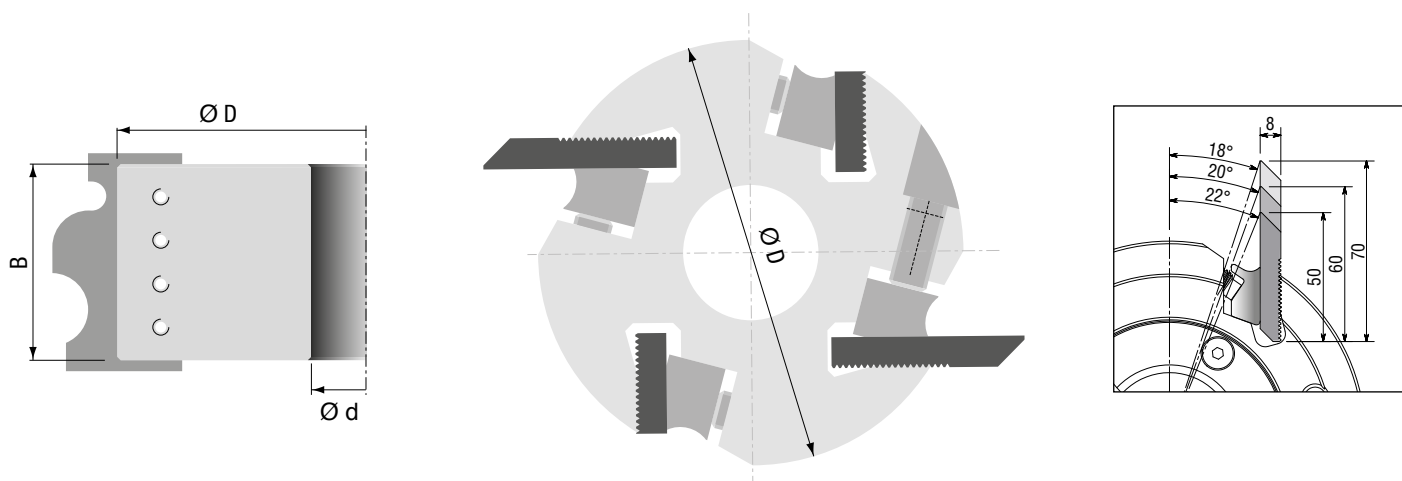
TS03FC								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		€			
122	40	40	4	10000	TS03FC06040	•	141,00	311003	501409	400115
122	60	40	4	10000	TS03FC15040	•	161,80	311005	501409	400115
122	80	40	4	10000	TS03FC17040	•	173,60	311007	501409	400115
122	100	40	4	10000	TS03FC19040	•	215,40	311009	501409	400115
122	130	40	4	10000	TS03FC21040	•	252,40	311012	501409	400115
122	150	40	4	10000	TS03FC23040	•	287,60	311014	501409	400115
122	180	40	4	10000	TS03FC25040	•	318,00	311017	501409	400115
122	230	40	4	10000	TS03FC27040	•	381,20	311022	501409	400115
137	50	50	4	9000	TS03FC29050	•	169,40	311004	501409	400115
137	60	50	4	9000	TS03FC30050	•	179,40	311005	501409	400115
137	80	50	4	9000	TS03FC31050	•	214,20	311007	501409	400115
137	100	50	4	9000	TS03FC33050	•	236,00	311009	501409	400115
137	130	50	4	9000	TS03FC36050	•	275,40	311012	501409	400115
137	150	50	4	9000	TS03FC39050	•	310,40	311014	501409	400115
137	180	50	4	9000	TS03FC42050	•	343,00	311017	501409	400115
137	230	50	4	9000	TS03FC43050		417,20	311022	501409	400115

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Possiamo fornire altre dimensioni, a richiesta, con lunghezza fino ai 310 mm.

We can supply other dimensions on request, with lengths up to 310 mm.

Auf Anfrage können wir auch andere Abmessungen mit Längen bis zu 310 mm liefern.



COLTELLI NON PROFILATI ZIGRINATI SERRATED BACK KNIVES RVZ BLANKETTS



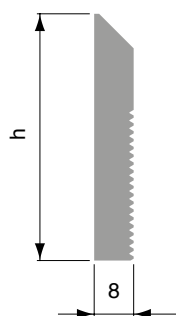
Coltelli in HSS non profilati da 8 mm di spessore e zigrinati sul dorso (millerighe). I coltelli non sono mai forniti con le teste. Per gli Art. TS03FC, TY30FC, TY31FC.

Unprofiled serrated back knives HSS M2, 8 mm thickness. Knives are never supplied with the heads. For Art. TS03FC, TY30FC, TY31FC.

HSS M2 rückenverzahnte Blanketts, 8 mm stark. Die Messer werden nie mit den Köpfen geliefert. Für Art. TS03FC, TY30FC, TY31FC.

Profondità del profilo
Profile depths
Profiltiefen

H [mm]	T max [mm]
50	15
60	25
70	35



CT050S

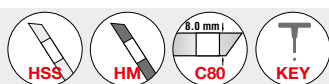
B [mm]	h [mm]	Art. Nr.	Nr. pz./pc./St.	€ / pcs.
40	50	CT050S01	20	5,90
50	50	CT050S02	20	7,40
60	50	CT050S03	20	8,90
80	50	CT050S04	20	11,80
100	50	CT050S05	20	14,70
130	50	CT050S06	20	19,20
150	50	CT050S07	20	22,10
180	50	CT050S08	20	26,50
230	50	CT050S09	20	33,90
400	50	CT050S10	20	58,80
650	50	CT050S11	-	95,50
40	60	CT050S12	20	6,80
50	60	CT050S13	20	8,40
60	60	CT050S14	20	10,10
80	60	CT050S15	20	13,50
100	60	CT050S16	20	16,80
130	60	CT050S17	20	21,90
150	60	CT050S18	20	25,20
180	60	CT050S19	20	30,30
230	60	CT050S20	20	38,70
400	60	CT050S21	20	67,10
650	60	CT050S22	-	109,00
40	70	CT050S23	20	7,80
50	70	CT050S24	20	9,70
60	70	CT050S25	20	11,70
80	70	CT050S26	20	15,50
100	70	CT050S27	20	19,40
130	70	CT050S28	20	25,10
150	70	CT050S29	20	29,00
180	70	CT050S30	20	34,80
230	70	CT050S31	20	44,50
260	70	CT050S32	20	50,20
400	70	CT050S33	20	77,20
650	70	CT050S34	-	125,40

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Prezzo dei coltelli in HM su richiesta

Prices for TCT knives on request

Preis für HW bestückte Blanketts auf Anfrage





STEEL BODY

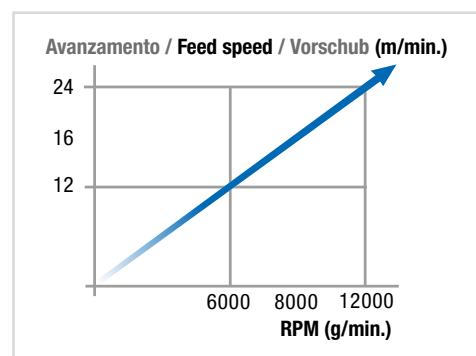
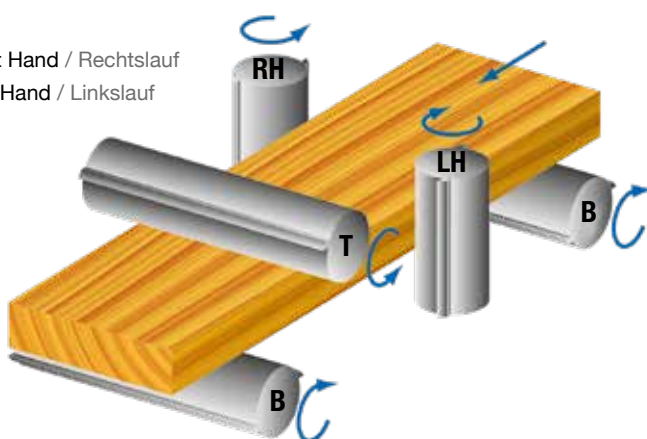
Testa portacoltelli con corpo in acciaio solidale all'attacco HSK 85 "PowerLock"®. L'utensile a 2 o 4 taglienti viene fornito senza i coltelli (art. CT050S) che possono essere in HS o a richiesta in HW riportato con spessore 8 mm. (vedi a pagina 74) Regime di rotazione: da 8000 a 12000 RPM.

Cutterhead to be equipped with 2 or 4 HS knives. These knives are very thick (8 mm) for soft woods. The steel body is monoblock with "PowerLock"® chuck. The tool is supplied without knives (code CT050S). These knives can be found on the pertinent table at page 74. RPM from 8000 to 12000.

Messerkopf, auszustatten mit 2 oder 4 HS-Messern. Diese Messer sind sehr dick (8 mm) für weiche Hölzer. Der Stahlkörper ist Monoblock mit "PowerLock"®-Futter. Das Werkzeug wird ohne Messer geliefert (Code CT050S). Diese Messer finden Sie in der entsprechenden Tabelle auf Seite 74. Drehzahlen von 8.000 bis 12.000.

TS03PL POWER LOCK®									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Z	Rotazione Rotation Lauf	Art. Nr.	€	Rotazione Rotation Lauf	Art. Nr.	€			
90	60	2	RH/T	TS03PL20	710,00	LH/B	TS03PL19	710,00	312001	501420	400115
90	80	2	RH/T	TS03PL02	840,30	LH/B	TS03PL01	840,30	312002	501420	400115
90	100	2	RH/T	TS03PL04	785,20	LH/B	TS03PL03	785,20	312003	501420	400115
90	130	2	RH/T	TS03PL06	816,20	LH/B	TS03PL05	816,20	312004	501420	400115
90	150	2	RH/T	TS03PL08	906,30	LH/B	TS03PL07	906,30	312005	501420	400115
90	180	2	T	TS03PL12	1.035,70	B	TS03PL11	1.035,70	312006	501420	400115
90	200	2	T	TS03PL16	1.176,40	B	TS03PL15	1.176,40	312007	501420	400115
90	230	2	T	TS03PL18	1.330,40	B	TS03PL17	1.330,40	312008	501420	400115
90	60	4	RH/T	TS03PL70	810,60	LH/B	TS03PL69	810,60	313002	501430	400115
90	80	4	RH/T	TS03PL52	850,00	LH/B	TS03PL51	850,00	313003	501430	400115
90	100	4	RH/T	TS03PL54	931,60	LH/B	TS03PL53	931,60	313004	501430	400115
90	130	4	RH/T	TS03PL56	1.018,80	LH/B	TS03PL55	1.018,80	313005	501430	400115
90	150	4	RH/T	TS03PL58	1.223,00	LH/B	TS03PL57	1.223,00	313006	501430	400115
90	180	4	T	TS03PL62	1.258,00	B	TS03PL61	1.258,00	313008	501430	400115
90	200	4	T	TS03PL64	1.418,50	B	TS03PL63	1.418,50	313009	501430	400115
90	230	4	T	TS03PL66	1.581,70	B	TS03PL65	1.581,70	313010	501430	400115

RH: Rotazione Destra / Right Hand / Rechtslauf
LH: Rotazione Sinistra / Left Hand / Linkslauf
T: Superiore / Top / Oben
B: Inferiore / Bottom / Unten



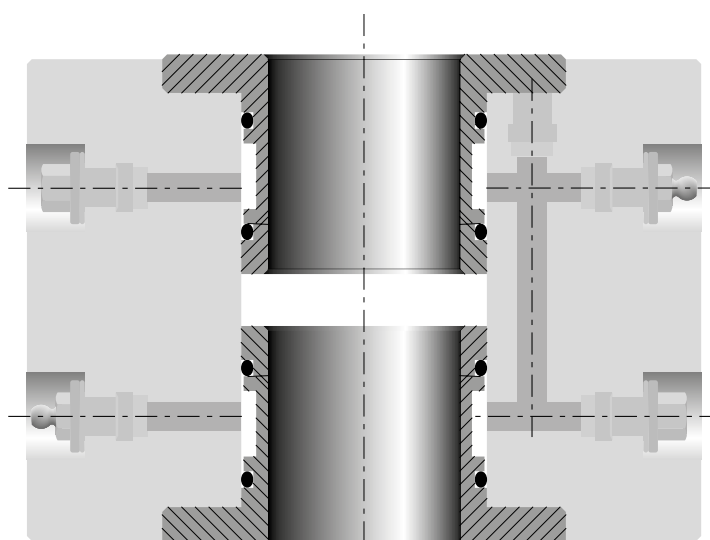
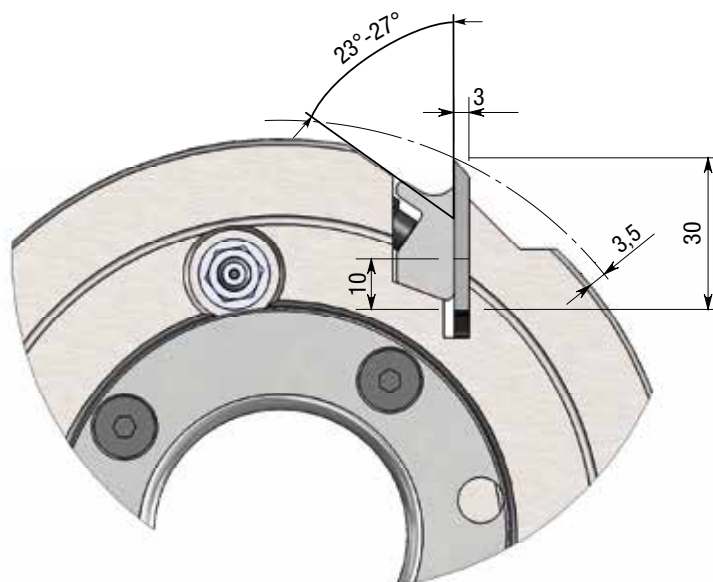


STEEL BODY

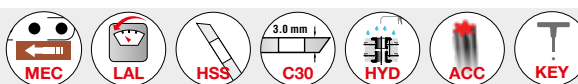
Testa portacoltelli a serraggio idraulico costruita in acciaio ad alta resistenza e formata da due bussole per il serraggio idraulico dell'utensile all'albero della macchina. L'utensile può essere costruito con 4, 6, 8, 10, 12 taglienti con un angolo di taglio compreso tra 23° a 27° e viene equipaggiato con coltelli pialla in HSS di dimensioni 30x3 mm. Corpo utensile con coltelli in HSS. Corpi in lega leggera su richiesta.

High tensile steel planer head with hydraulic centering and clamping used in planing and moulding machines with multiple spindles, execution from Z=4 up to Z=12 (in relation to diameter), rake angles between 23° and 27°, tool fitted with resharppable 30x3 mm standard HSS- or HM-knives, high concentricity, suitable for jointing, suitable for mechanical feed. Cutter including HSS knives. Light alloy bodies on request.

Werkzeug mit hydraulischer Zentrierspannung, aus hochfestem Stahl, Z von 4 bis 12 (abhängig von WKZ-Durchmesser) und Spanwinkeln von 23° bis 27°. 30x3 mm Standard HSS-Hobelmessern. Bei hohen Vorschüben bis 120 m/min. Fräser inklusive HSS-Messer. Karosserien aus Leichtmetall auf Anfrage.



Boccola hydro con ingrassatori **RADIALI**
RADIAL alignment of grease nipples
RADIALE Anordnung der Schmiernippel



TY10FB							Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€					
143	60	40	4	10500	TY10FB02040	763,10	CT010SS01	311005	501602	501409	400115
143	100	40	4	10500	TY10FB03040	894,50	CT010SS03	311009	501602	501409	400115
143	130	40	4	10500	TY10FB04040	920,80	CT010SS05	311012	501602	501409	400115
143	150	40	4	10500	TY10FB05040	954,20	CT010SS07	311014	501602	501409	400115
143	160	40	4	10500	TY10FB06040	1024,40	CT010SS08	311015	501602	501409	400115
143	230	40	4	10500	TY10FB08040	1151,60	CT010SS13	311022	501602	501409	400115
163	60	40÷60	4	9200	TY10FB12	783,00	CT010SS01	311005	501602	501409	400115
163	100	40÷60	4	9200	TY10FB13	902,40	CT010SS03	311009	501602	501409	400115
163	130	40÷60	4	9200	TY10FB14	933,40	CT010SS05	311012	501602	501409	400115
163	150	40÷60	4	9200	TY10FB15	966,70	CT010SS07	311014	501602	501409	400115
163	160	40÷60	4	9200	TY10FB17	1.033,20	CT010SS08	311015	501602	501409	400115
163	170	40÷60	4	9200	TY10FB91	1.044,70	CT010SS09	311016	501602	501409	400115
163	180	40÷60	4	9200	TY10FB16	1.055,10	CT010SS10	311017	501602	501409	400115
163	230	40÷60	4	9200	TY10FB18	1.166,40	CT010SS13	311022	501602	501409	400115
163	240	40÷60	4	9200	TY10FB20	1.176,70	CT010SS31	311023	501602	501409	400115
163	260	40÷60	4	9200	TY10FB19	1.211,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	4	9200	TY10FB21	1.262,80	CT010SS37	311030	501602	501409	400115
163	60	40÷60	6	9200	TY10FB22	834,60	CT010SS01	311005	501602	501409	400115
163	100	40÷60	6	9200	TY10FB23	970,10	CT010SS03	311009	501602	501409	400115
163	130	40÷60	6	9200	TY10FB24	1.008,00	CT010SS05	311012	501602	501409	400115
163	150	40÷60	6	9200	TY10FB25	1.052,80	CT010SS07	311014	501602	501409	400115
163	160	40÷60	6	9200	TY10FB27	1.128,50	CT010SS08	311015	501602	501409	400115
163	170	40÷60	6	9200	TY10FB92	1.141,20	CT010SS09	311016	501602	501409	400115
163	180	40÷60	6	9200	TY10FB26	1.154,90	CT010SS10	311017	501602	501409	400115
163	230	40÷60	6	9200	TY10FB28	1.284,70	CT010SS13	311022	501602	501409	400115
163	240	40÷60	6	9200	TY10FB30	1.298,40	CT010SS31	311023	501602	501409	400115
163	260	40÷60	6	9200	TY10FB29	1.343,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	6	9200	TY10FB31	1.407,50	CT010SS37	311030	501602	501409	400115
203	100	40÷60	6	7400	TY10FB44	1.011,40	CT010SS03	311009	501602	501409	400115
203	150	40÷60	6	7400	TY10FB45	1.126,20	CT010SS07	311014	501602	501409	400115
203	230	40÷60	6	7400	TY10FB48	1.326,00	CT010SS13	311022	501602	501409	400115
203	260	40÷60	6	7400	TY10FB49	1.388,00	CT010SS35	311025	501602	501409	400115
203	310	40÷60	6	7400	TY10FB42	1.459,20	CT010SS37	311030	501602	501409	400115
163	60	40÷60	8	9200	TY10FB32	885,20	CT010SS01	311005	501602	501409	400115
163	100	40÷60	8	9200	TY10FB33	1.036,70	CT010SS03	311009	501602	501409	400115
163	130	40÷60	8	9200	TY10FB34	1.082,60	CT010SS05	311012	501602	501409	400115
163	150	40÷60	8	9200	TY10FB35	1.138,90	CT010SS07	311014	501602	501409	400115
163	160	40÷60	8	9200	TY10FB37	1.223,80	CT010SS08	311015	501602	501409	400115
163	180	40÷60	8	9200	TY10FB36	1.254,80	CT010SS10	311017	501602	501409	400115
163	230	40÷60	8	9200	TY10FB38	1.404,00	CT010SS13	311022	501602	501409	400115
163	260	40÷60	8	9200	TY10FB39	1.475,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	8	9200	TY10FB04	1.551,00	CT010SS37	311030	501602	501409	400115
203	100	40÷60	8	7400	TY10FB54	1.084,90	CT010SS03	311009	501602	501409	400115
203	150	40÷60	8	7400	TY10FB55	1.212,30	CT010SS07	311014	501602	501409	400115
203	230	40÷60	8	7400	TY10FB58	1.444,20	CT010SS13	311022	501602	501409	400115
203	260	40÷60	8	7400	TY10FB59	1.520,00	CT010SS35	311025	501602	501409	400115
203	310	40÷60	8	7400	TY10FB61	1.603,80	CT010SS37	311030	501602	501409	400115
203	100	40÷60	10	7400	TY10FB63	1.123,90	CT010SS03	311009	501602	501409	400115
203	150	40÷60	10	7400	TY10FB65	1.295,00	CT010SS07	311014	501602	501409	400115
203	160	40÷60	10	7400	TY10FB67	1.345,50	CT010SS08	311015	501602	501409	400115
203	230	40÷60	10	7400	TY10FB68	1.556,70	CT010SS13	311022	501602	501409	400115
203	260	40÷60	10	7400	TY10FB69	1.640,50	CT010SS35	311025	501602	501409	400115
203	310	40÷60	10	7400	TY10FB71	1.738,10	CT010SS37	311030	501602	501409	400115
203	100	40÷60	12	7400	TY10FB73	1.198,60	CT010SS03	311009	501602	501409	400115
203	150	40÷60	12	7400	TY10FB75	1.379,90	CT010SS07	311014	501602	501409	400115
203	230	40÷60	12	7400	TY10FB78	1.672,70	CT010SS13	311022	501602	501409	400115
203	260	40÷60	12	7400	TY10FB79	1.778,30	CT010SS35	311025	501602	501409	400115
203	310	40÷60	12	7400	TY10FB81	1.885,10	CT010SS37	311030	501602	501409	400115

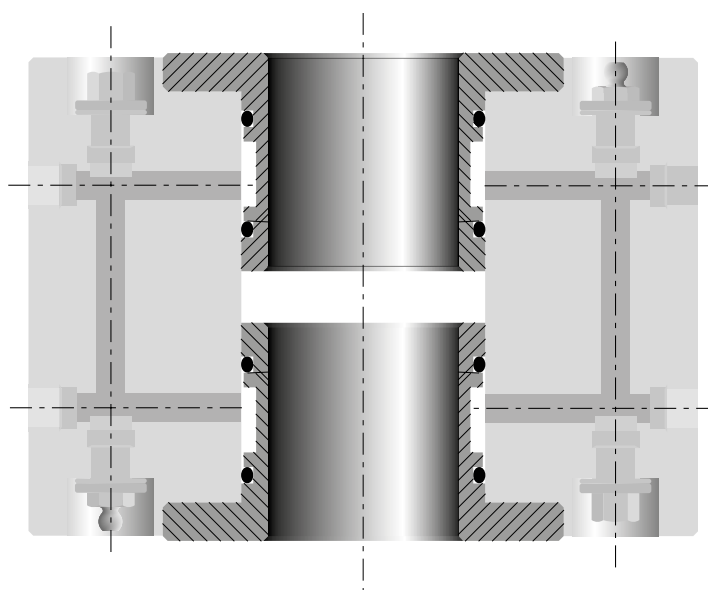
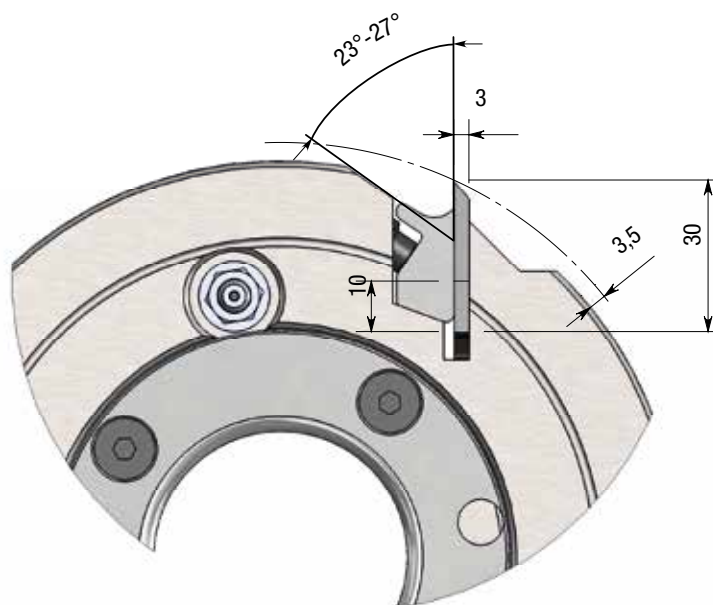


STEEL BODY

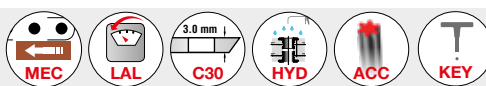
Testa portacoltelli a serraggio idraulico costruita in acciaio ad alta resistenza e formata da due bussole per il serraggio idraulico dell'utensile sull'albero della macchina. L'utensile può essere costruito con 4, 6, 8, 12, 16 taglienti con un angolo di taglio compreso tra 23° e 27° e viene equipaggiato con coltelli pialla in HSS o in HM di dimensioni 30x3 mm. Corpo utensile con coltelli in HSS. Corpi in lega leggera su richiesta.

High tensile steel planer head with hydraulic centering and clamping used in planing and moulding machines with multiple spindles, execution from Z=4 up to Z=16 (in relation to diameter), rake angles between 23° and 27°, tool fitted with resharppable 30x3 mm standard HSS- or HM-knives, high concentricity, suitable for jointing, suitable for mechanical feed. Cutter including HSS knives. Light alloy bodies on request.

Werkzeug mit hydraulischer Zentrierspannung, aus hochfestem Stahl, Z von 4 bis 16 (abhängig von WKZ-Durchmesser) und Spanwinkeln von 23° bis 27°. 30x3 mm Standard HSS-Hobelmessern. Bei hohen Vorschüben bis 120 m/min. Fräser inklusive HSS-Messer. Karosserien aus Leichtmetall auf Anfrage.



Boccola hydro con ingrassatori **ASSIALI**
AXIAL alignment of grease nipples
AXIALE Anordnung der Schmiernippel



TY11FB							Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€					T
163	60	40÷60	4	9200	TY11FB12	783,00	CT010SS01	311005	501602	501409	400115
163	100	40÷60	4	9200	TY11FB13	902,40	CT010SS03	311009	501602	501409	400115
163	130	40÷60	4	9200	TY11FB14	933,40	CT010SS05	311012	501602	501409	400115
163	150	40÷60	4	9200	TY11FB15	966,70	CT010SS07	311014	501602	501409	400115
163	160	40÷60	4	9200	TY11FB17	1.033,20	CT010SS08	311015	501602	501409	400115
163	170	40÷60	4	9200	TY11FB91	1.044,70	CT010SS09	311016	501602	501409	400115
163	180	40÷60	4	9200	TY11FB16	1.055,10	CT010SS10	311017	501602	501409	400115
163	230	40÷60	4	9200	TY11FB18	1.166,40	CT010SS13	311022	501602	501409	400115
163	240	40÷60	4	9200	TY11FB20	1.182,30	CT010SS31	311023	501602	501409	400115
163	260	40÷60	4	9200	TY11FB19	1.211,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	4	9200	TY11FB21	1.262,80	CT010SS37	311030	501602	501409	400115
163	60	40÷60	6	9200	TY11FB22	834,60	CT010SS01	311005	501602	501409	400115
163	100	40÷60	6	9200	TY11FB23	970,10	CT010SS03	311009	501602	501409	400115
163	130	40÷60	6	9200	TY11FB24	1.008,00	CT010SS05	311012	501602	501409	400115
163	150	40÷60	6	9200	TY11FB25	1.052,80	CT010SS07	311014	501602	501409	400115
163	160	40÷60	6	9200	TY11FB27	1.128,50	CT010SS08	311015	501602	501409	400115
163	170	40÷60	6	9200	TY11FB92	1.141,20	CT010SS09	311016	501602	501409	400115
163	180	40÷60	6	9200	TY11FB26	1.154,90	CT010SS10	311017	501602	501409	400115
163	230	40÷60	6	9200	TY11FB28	1.284,70	CT010SS13	311022	501602	501409	400115
163	240	40÷60	6	9200	TY11FB30	1.298,40	CT010SS31	311023	501602	501409	400115
163	260	40÷60	6	9200	TY11FB29	1.343,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	6	9200	TY11FB31	1.407,50	CT010SS37	311030	501602	501409	400115
203	100	40÷60	6	7400	TY11FB44	1.011,40	CT010SS03	311009	501602	501409	400115
203	150	40÷60	6	7400	TY11FB45	1.126,20	CT010SS07	311014	501602	501409	400115
203	230	40÷60	6	7400	TY11FB48	1.326,00	CT010SS13	311022	501602	501409	400115
203	260	40÷60	6	7400	TY11FB49	1.388,00	CT010SS35	311025	501602	501409	400115
203	310	40÷60	6	7400	TY11FB42	1.459,20	CT010SS37	311030	501602	501409	400115
163	60	40÷60	8	9200	TY11FB32	885,20	CT010SS01	311005	501602	501409	400115
163	100	40÷60	8	9200	TY11FB33	1.036,70	CT010SS03	311009	501602	501409	400115
163	130	40÷60	8	9200	TY11FB34	1.082,60	CT010SS05	311012	501602	501409	400115
163	150	40÷60	8	9200	TY11FB35	1.138,90	CT010SS07	311014	501602	501409	400115
163	160	40÷60	8	9200	TY11FB37	1.223,80	CT010SS08	311015	501602	501409	400115
163	180	40÷60	8	9200	TY11FB36	1.254,80	CT010SS10	311017	501602	501409	400115
163	230	40÷60	8	9200	TY11FB38	1.404,00	CT010SS13	311022	501602	501409	400115
163	260	40÷60	8	9200	TY11FB39	1.475,20	CT010SS35	311025	501602	501409	400115
163	310	40÷60	8	9200	TY11FB41	1.551,00	CT010SS37	311030	501602	501409	400115
203	100	40÷60	8	7400	TY11FB54	1.084,90	CT010SS03	311009	501602	501409	400115
203	150	40÷60	8	7400	TY11FB55	1.212,30	CT010SS07	311014	501602	501409	400115
203	230	40÷60	8	7400	TY11FB58	1.444,20	CT010SS13	311022	501602	501409	400115
203	260	40÷60	8	7400	TY11FB59	1.520,00	CT010SS35	311025	501602	501409	400115
203	310	40÷60	8	7400	TY11FB61	1.603,80	CT010SS37	311030	501602	501409	400115
203	100	40÷60	10	7400	TY11FB63	1.123,90	CT010SS03	311009	501602	501409	400115
203	150	40÷60	10	7400	TY11FB65	1.295,00	CT010SS07	311014	501602	501409	400115
203	230	40÷60	10	7400	TY11FB68	1.556,70	CT010SS13	311022	501602	501409	400115
203	260	40÷60	10	7400	TY11FB69	1.640,50	CT010SS35	311025	501602	501409	400115
203	310	40÷60	10	7400	TY11FB71	1.738,10	CT010SS37	311030	501602	501409	400115
203	100	40÷60	12	7400	TY11FB73	1.198,60	CT010SS03	311009	501602	501409	400115
203	150	40÷60	12	7400	TY11FB75	1.379,90	CT010SS07	311014	501602	501409	400115
203	230	40÷60	12	7400	TY11FB78	1.672,70	CT010SS13	311022	501602	501409	400115
203	260	40÷60	12	7400	TY11FB79	1.778,30	CT010SS35	311025	501602	501409	400115
203	310	40÷60	12	7400	TY11FB81	1.885,10	CT010SS37	311030	501602	501409	400115
203	100	40÷60	14	7400	TY11FB93	1.237,60	CT010SS03	311009	501602	501409	400115
203	150	40÷60	14	7400	TY11FB94	1.448,80	CT010SS07	311014	501602	501409	400115
203	230	40÷60	14	7400	TY11FB95	1.782,90	CT010SS13	311022	501602	501409	400115
203	260	40÷60	14	7400	TY11FB97	1.901,10	CT010SS35	311025	501602	501409	400115
203	310	40÷60	14	7400	TY11FB98	2.024,00	CT010SS37	311030	501602	501409	400115
203	100	40÷60	16	7400	TY11FB82	1.305,30	CT010SS03	311109	501602	501409	400115
203	150	40÷60	16	7400	TY11FB85	1.534,90	CT010SS07	311114	501602	501409	400115
203	230	40÷60	16	7400	TY11FB88	1.901,10	CT010SS13	311122	501602	501409	400115
203	260	40÷60	16	7400	TY11FB89	2.033,20	CT010SS35	311125	501602	501409	400115
203	310	40÷60	16	7400	TY11FB90	2.167,50	CT010SS37	311130	501602	501409	400115

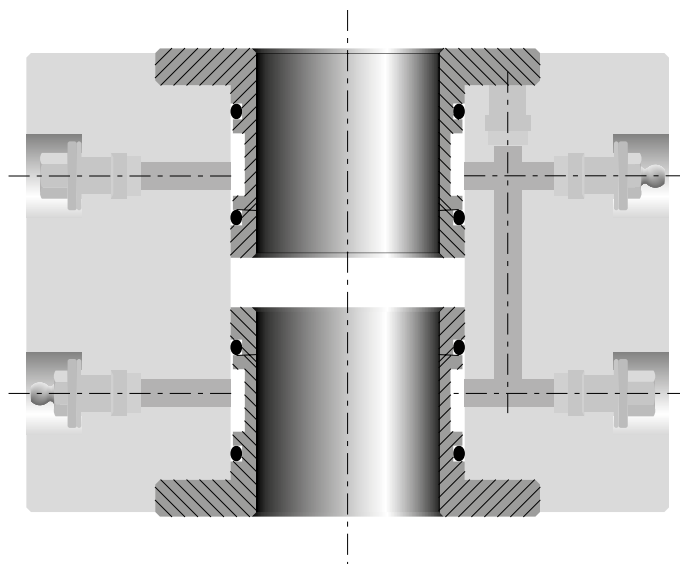
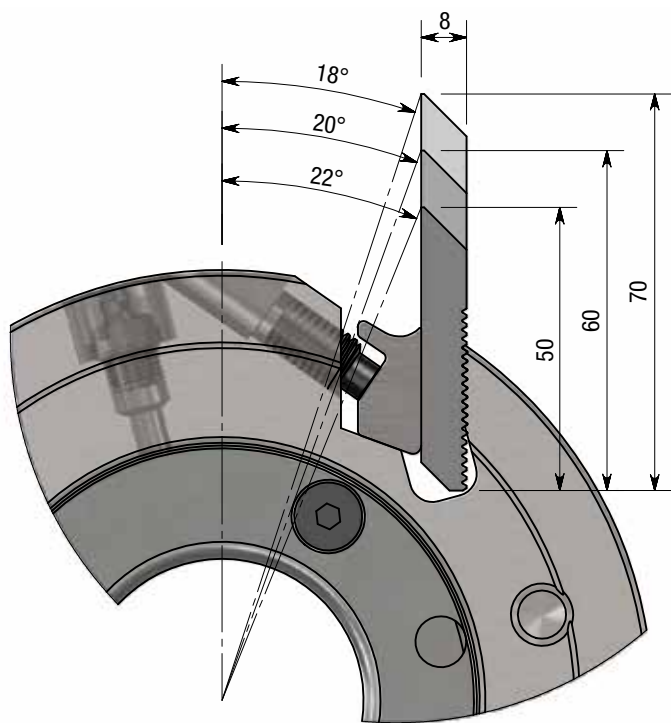


STEEL BODY

Testa portacoltelli costruita in acciaio ad alta resistenza con un dispositivo per il serraggio idraulico dell'utensile sull'albero della macchina. L'utensile viene equipaggiato con coltelli in HSS da 8 mm di spessore da profilare (vedi articolo CT050S). Utensile destinato alla produzione di profili sagomati con ottima finitura ed elevate velocità di avanzamento. Corpo utensili esclusi i coltelli. Corpi in lega leggera su richiesta.

High tensile steel cutter head with hydraulic centering and clamping used in planing and moulding machines with multiple spindles, execution from Z=4 up to Z=12 (in relation to required profile depth and tool diameter), rake angles between 23° and 27° for universal profiling of solid wood and board materials with high feed speeds up to 120 m/min, tool fitted with 40-70 mm broad and 8-10 mm thick HSS-serrated back knives, suitable for mechanical feed only. Cutter excluding profiled knives. Light alloy bodies on request.

Werkzeug mit hydraulischer Zentrierspannung, aus hochfestem Stahl, Z von 4 bis 12 (abhängig von WKZ-Durchmesser) und Spanwinkeln von 23° bis 27°. 30x3 mm Standard HSS-Hobelmessern. Zum universellen Profilieren von Vollholz und Holzwerkstoffen in mehrspindigen Hobel- und Kehlautomaten bei hohen Vorschüben bis 120 m/min. Lediglich für mechanische Vorschübe geeignet. Fräser ohne Profilmesser. Karosserien aus Leichtmetall auf Anfrage.



Boccola hydro con ingrassatori **RADIALI**
RADIAL alignment of grease nipples
RADIALE Anordnung der Schmiernippel

TY30FB							Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€			T
137	60	40÷45	4	10000	TY30FB16	816,80	311005	501409	400115
137	100	40÷45	4	10000	TY30FB01	919,00	311009	501409	400115
137	150	40÷45	4	10000	TY30FB02	988,90	311014	501409	400115
152	60	40÷60	4	9100	TY30FB17	817,40	311005	501409	400115
152	100	40÷60	4	9100	TY30FB18	920,70	311009	501409	400115
152	130	40÷60	4	9100	TY30FB47	952,90	311012	501409	400115
152	150	40÷60	4	9100	TY30FB19	989,60	311014	501409	400115
152	180	40÷60	4	9100	TY30FB48	1.037,80	311017	501409	400115
152	230	40÷60	4	9100	TY30FB20	1.218,10	311022	501409	400115
152	310	40÷60	4	9100	TY30FB49	1.319,10	311030	501409	400115
152	60	40÷60	6	9100	TY30FB21	843,80	311005	501409	400115
152	100	40÷60	6	9100	TY30FB03	983,90	311009	501409	400115
152	130	40÷60	6	9100	TY30FB04	1.024,10	311012	501409	400115
152	150	40÷60	6	9100	TY30FB05	1.074,60	311014	501409	400115
152	180	40÷60	6	9100	TY30FB06	1.137,70	311017	501409	400115
152	230	40÷60	6	9100	TY30FB07	1.339,80	311022	501409	400115
152	260	40÷60	6	9100	TY30FB08	1.405,20	311025	501409	400115
152	310	40÷60	6	9100	TY30FB09	1.470,60	311030	501409	400115
163	60	40÷60	8	8500	TY30FB22	890,90	311005	501409	400115
163	100	40÷60	8	8500	TY30FB10	1.051,60	311009	501409	400115
163	130	40÷60	8	8500	TY30FB11	1.101,00	311012	501409	400115
163	150	40÷60	8	8500	TY30FB12	1.165,30	311014	501409	400115
163	180	40÷60	8	8500	TY30FB45	1.313,40	311017	501409	400115
163	230	40÷60	8	8500	TY30FB13	1.470,60	311022	501409	400115
163	260	40÷60	8	8500	TY30FB14	1.551,60	311025	501409	400115
163	310	40÷60	8	8500	TY30FB15	1.632,50	311030	501409	400115
190	60	40÷60	10	7300	TY30FB30	1.211,00	311005	501409	400115
190	100	40÷60	10	7300	TY30FB31	1.450,00	311009	501409	400115
190	130	40÷60	10	7300	TY30FB32	1.611,10	311012	501409	400115
190	150	40÷60	10	7300	TY30FB33	1.712,60	311014	501409	400115
190	180	40÷60	10	7300	TY30FB46	1.839,60	311017	501409	400115
190	230	40÷60	10	7300	TY30FB34	2.079,10	311022	501409	400115
190	260	40÷60	10	7300	TY30FB35	2.206,00	311025	501409	400115
190	310	40÷60	10	7300	TY30FB36	2.335,30	311030	501409	400115
215	60	40÷60	12	6400	TY30FB37	1.279,10	311005	501409	400115
215	100	40÷60	12	6400	TY30FB38	1.633,20	311009	501409	400115
215	130	40÷60	12	6400	TY30FB39	1.725,30	311012	501409	400115
215	150	40÷60	12	6400	TY30FB40	1.846,30	311014	501409	400115
215	180	40÷60	12	6400	TY30FB43	1.997,60	311017	501409	400115
215	230	40÷60	12	6400	TY30FB41	2.270,80	311022	501409	400115
215	260	40÷60	12	6400	TY30FB42	2.422,10	311025	501409	400115
215	310	40÷60	12	6400	TY30FB44	2.492,40	311030	501409	400115



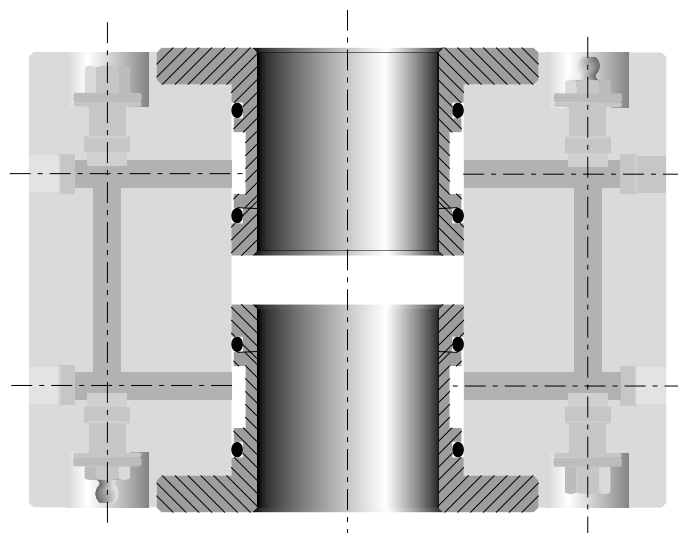
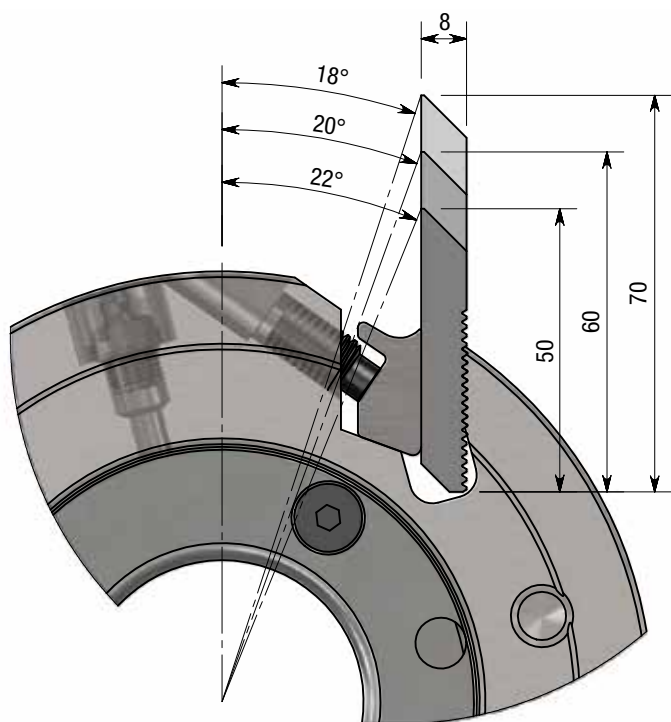
STEEL BODY

Testa portacoltelli costruita in acciaio ad alta resistenza con un dispositivo per il serraggio idraulico dell'utensile sull'albero della macchina. L'utensile viene equipaggiato con coltelli in HSS da 8 mm di spessore da profilare (vedi articolo CT050S). L'utensile è destinato alla produzione di profili sagomati con ottima finitura ed elevate velocità di avanzamento. Corpo utensile esclusi i coltelli in HSS. Corpi in lega leggera su richiesta.

High tensile steel cutter head with hydraulic centering and clamping used in planing and moulding machines with multiple spindles, execution from Z=4 up to Z=12 (in relation to required profile depth and tool diameter), rake angles between 23° and 27° for universal profiling of solid wood and board materials with high feed speeds up to 120 m/min, tool fitted with 40-70 mm broad and 8-10 mm thick HSS-serrated back knives, suitable for mechanical feed only.

Cutter excluding HSS knives. Light alloy bodies on request.

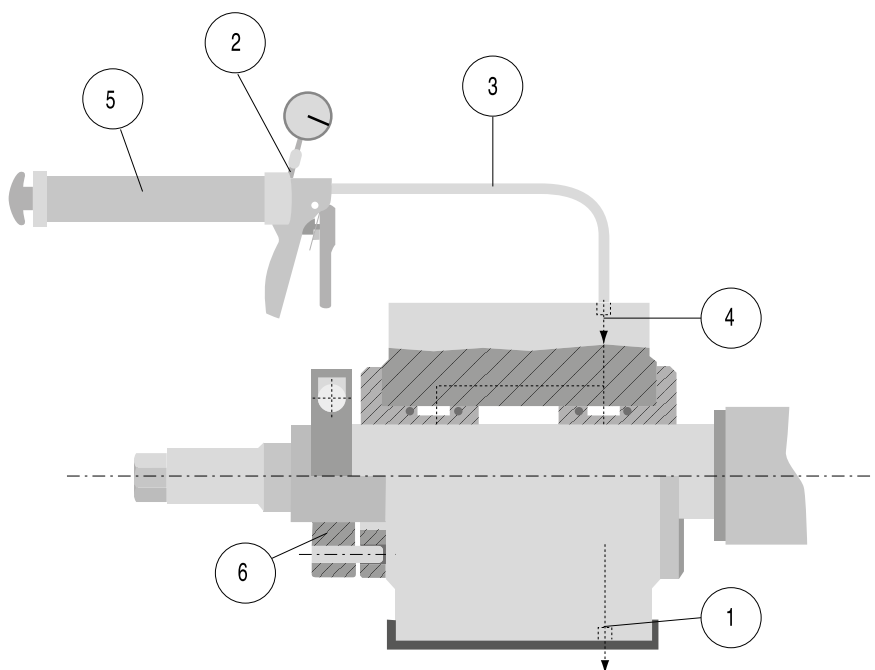
Werkzeug mit hydraulischer Zentrierspannung, aus hochfestem Stahl., Z von 4 bis 12 (abhängig von WKZ-Durchmesser) und Spanwinkeln von 23° bis 27°. 30x3 mm Standard HSS-Hobelmessern. Zum universellen Profilieren von Vollholz und Holzwerkstoffen in mehrspindigen Hobel- und Kehlautomaten bei hohen Vorschüben bis 120 m/min. Lediglich für mechanische Vorschübe geeignet. Fräser ohne HSS-Messer. Karosserien aus Leichtmetall auf Anfrage.



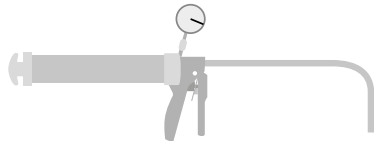
Boccola hydro con ingrassatori **ASSIALI**
AXIAL alignment of grease nipples
AXIALE Anordnung der Schmiernippel

TY31FB							Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€			
152	60	40÷60	4	9100	TY31FB01	817,40	311005	501409	400115
152	100	40÷60	4	9100	TY31FB02	920,70	311009	501409	400115
152	130	40÷60	4	9100	TY31FB03	952,90	311012	501409	400115
152	150	40÷60	4	9100	TY31FB04	989,60	311014	501409	400115
152	180	40÷60	4	9100	TY31FB05	1.037,80	311017	501409	400115
152	230	40÷60	4	9100	TY31FB06	1.218,10	311022	501409	400115
152	310	40÷60	4	9100	TY31FB07	1.319,10	311030	501409	400115
152	60	40÷60	6	9100	TY31FB11	843,80	311005	501409	400115
152	100	40÷60	6	9100	TY31FB12	983,90	311009	501409	400115
152	130	40÷60	6	9100	TY31FB13	1.024,10	311012	501409	400115
152	150	40÷60	6	9100	TY31FB14	1.074,60	311014	501409	400115
152	180	40÷60	6	9100	TY31FB15	1.137,70	311017	501409	400115
152	230	40÷60	6	9100	TY31FB16	1.339,80	311022	501409	400115
152	260	40÷60	6	9100	TY31FB17	1.405,20	311025	501409	400115
152	310	40÷60	6	9100	TY31FB18	1.470,60	311030	501409	400115
163	60	40÷60	8	8500	TY31FB31	890,90	311005	501409	400115
163	100	40÷60	8	8500	TY31FB32	1.051,60	311009	501409	400115
163	130	40÷60	8	8500	TY31FB33	1.101,00	311012	501409	400115
163	150	40÷60	8	8500	TY31FB34	1.165,30	311014	501409	400115
163	180	40÷60	8	8500	TY31FB35	1.313,40	311017	501409	400115
163	230	40÷60	8	8500	TY31FB36	1.470,60	311022	501409	400115
163	260	40÷60	8	8500	TY31FB37	1.551,60	311025	501409	400115
163	310	40÷60	8	8500	TY31FB38	1.632,50	311030	501409	400115
190	60	40÷60	10	7300	TY31FB40	1.211,00	311005	501409	400115
190	100	40÷60	10	7300	TY31FB41	1.450,00	311009	501409	400115
190	130	40÷60	10	7300	TY31FB42	1.611,10	311012	501409	400115
190	150	40÷60	10	7300	TY31FB43	1.712,60	311014	501409	400115
190	180	40÷60	10	7300	TY31FB53	1.839,60	311017	501409	400115
190	230	40÷60	10	7300	TY31FB44	2.079,10	311022	501409	400115
190	260	40÷60	10	7300	TY31FB45	2.206,00	311025	501409	400115
190	310	40÷60	10	7300	TY31FB46	2.335,30	311030	501409	400115
215	60	40÷60	12	6400	TY31FB47	1.279,10	311005	501409	400115
215	100	40÷60	12	6400	TY31FB48	1.633,20	311009	501409	400115
215	130	40÷60	12	6400	TY31FB49	1.725,30	311012	501409	400115
215	150	40÷60	12	6400	TY31FB50	1.846,30	311014	501409	400115
215	180	40÷60	12	6400	TY31FB54	1.997,60	311017	501409	400115
215	230	40÷60	12	6400	TY31FB51	2.270,80	311022	501409	400115
215	260	40÷60	12	6400	TY31FB52	2.422,10	311025	501409	400115
215	310	40÷60	12	6400	TY31FB55	2.492,40	311030	501409	400115

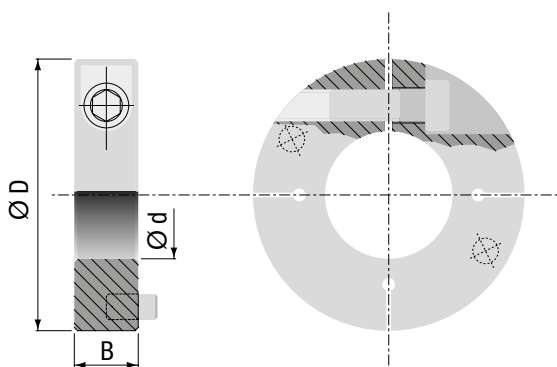
Pressione di serraggio massima: / Maximum bush clamping pressure: / Maximaler Pressdruck der Spannbüchse:
400 Bar



SERRAGGIO DELL'UTENSILE		CUTTERHEAD CLAMPING	AUFSPANNUNG DES WERKZEUGS
A	Assicurarsi che le valvole di scarico dell'utensile (1) e della pompa (2) siano chiuse.	Make sure that the grease-release nipple (1) of tool and pressure relief screw of pump (2) are tight.	Sicherstellen, dass die Auslassventile/Nippel (1) des Werkzeugs und der Pumpe (2) geschlossen sind.
B	Inserire il tubo flessibile (3) nell'ingrassatore (4).	Place flexible clamping hose (3) on grease nipple (4) and push in.	Anbringen des Pumpenschlauchs (3) auf das Einlassventil/Nippel (4) des Werkzeugs.
C	Azionare la pompa (5), fino alla pressione di 400 bar.	Pump grease (5) with level until pressure gauge indicates 400 bar.	Pumpe (5) bis auf 400 bar Druck bringen.
D	Scaricare il tubo allentando la valvola di scarico della pompa (2).	Loosen relief screw (2) of pump until pressure has dropped.	Entleerung des Pumpenschlauchs (3) durch Öffnen des Auslassventils (2) der Pumpe.
E	Staccare il tubo (3) dell'ingrassatore.	Detach hose (3)	Entfernen des Pumpenschlauchs (3).
F	Controllare che l'utensile risulti ben fissato.	check that tool is well clamped.	Überprüfen, dass das Werkzeug befestigt ist.
G	Montare l'anello di sicurezza (6).	Mount safety-ring (6)	Sicherheits-Spannring (6) befestigen.
DISSERRAGGIO DELL'UTENSILE		CUTTERHEAD UNCLAMPING	LÖSEN DES WERKZEUGS
A	Allentare le valvole di scarico dell'utensile (1) e lasciare defluire il grasso.	Untighten grease-release nipple (1) of tool and release grease.	Öffnen des Auslassventils/Nippels (1) des Werkzeugs und Fett auslaufen lassen.
B	Richiudere le valvole e sfilare l'utensile dalla macchina.	Tighten grease-release nipple and ease cutterhead off the spindle.	Schließen des Auslassventils/Nippels des Werkzeugs und Werkzeug von der Maschinenwelle entnehmen.

Ricambi / Spare Parts / Ersatzteile					
					
Ingrassatore / Nipple / Schmiernippel		Valvola / Valve / Entlastungsventil		Pompa / Grease pump / Hochleistungs-Fettpresse	
Art. Nr. 501810		Art. Nr. 501811		Art. Nr. HYP1	
€		€		€	
25,50		22,00		1.440,00	

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



Anello di sicurezza / Safety ring / Sicherheits-Spannring

Ø D [mm]	B [mm]	Ø d [mm]	Art. Nr.	€
75	20	35	10110001	170,00
85	20	40	10110002	170,00
95	20	50	10110003	170,00

Con le teste portacoltelli Hydro Stark viene fornito (a richiesta) un anello di sicurezza che assicura l'utensile serrato idraulicamente contro gli spostamenti assiali e radiali sull'albero. Sono disponibili 3 versioni in relazione alla dimensione del foro dell'utensile.

All Hydro cutter heads can be equipped (on request) with a safety ring which secures the tool against axial and radial movement on the machine spindle (force fit). Three versions are available in relation to the size of the tool bore.

Auf Anfrage können alle Hydro-Messerköpfe auch mit einem Sicherheits-Spannring geliefert werden, welcher das Werkzeug (kraftschlüssig) gegen axiale und radiale Bewegung auf der Maschinenspindel sichert.

TESTA ELICOIDALE A PRE-PIALLARE HELICAL CUTTER SPIRALFÜGEFRÄSER



STEEL BODY

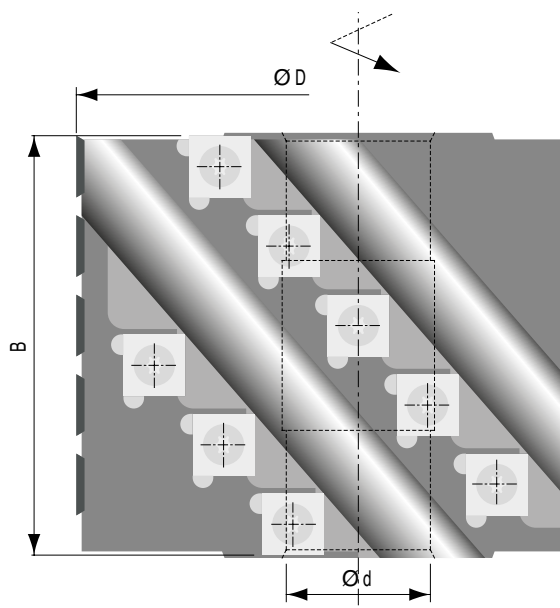
LIGHT ALLOY BODY

Testa elicoidale per medie finiture con corpo in acciaio o lega leggera equipaggiata di coltelli 14x14x2 in HM con quattro lati taglienti particolarmente adatta per grosse asportazioni. Le teste possono essere fornite di rasanti su uno o sui due lati. Il prezzo verrà aumentato in base al numero di rasanti montati. Possono essere costruite teste speciali fino ad un diametro massimo di 300 mm, lunghezza massima 310 mm e un numero di 4-6-8-10 eliche. Serraggio Hydro a richiesta.

Helical planing cutter in light alloy or steel execution, with standard TC knives 14x14x2 mm suitable for high feed rates and great removals, medium surface finishing in solid wood, available on demand with spurs for rebating, maximum diameter of 300 mm, maximum length of 680 mm with up to 10 helices on request. Execution with Hydro clamping on request.

Spiralfügefräser, Werkzeugkörper aus hochfestem Leichtmetall (FA) oder Stahl (FM), Schneiden 14x14x2 mm mit 4 Schneidfassen. Werkzeuge können auch nur mit einer Schneidfase geliefert werden auf Anfrage - Preis ändert sich je nach Anzahl der montierten Messer. Werkzeugdurchmesser bis 300 mm, Länge bis 680 mm und bis 10 Spiralen möglich. Hydro Spannung auf Anfrage.

TH74FA - TH74FM										Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Nr. Eliche Helices Spiralen	Z	RPM min-max	Lega leggera Light alloy Leichtmetall Art. Nr.	€	Acciaio Steel Stahl Art. Nr.	€			
70	90	25	4	14	19000	TH74FA01	395,10	TH74FM01	391,60	600201	500003	400420
80	90	30÷35	4	14	16700	TH74FA05	408,20	TH74FM05	404,70	600201	500003	400420
100	100	30÷40	4	16	13300	TH74FA10	421,50	TH74FM10	417,80	600201	500003	400420
125	100	40÷60	4	16	10600	TH74FA15	434,60	TH74FM15	431,80	600201	500003	400420
125	130	40÷60	4	20	10600	TH74FA16	484,70	TH74FM16	481,20	600201	500003	400420
125	180	40÷60	4	28	10600	TH74FA17	574,30	TH74FM17	569,70	600201	500003	400420
125	230	40÷60	4	36	10600	TH74FA18	669,10	TH74FM18	663,60	600201	500003	400420
125	100	40÷60	6	27	10600	TH74FA25	493,90	TH74FM25	492,30	600201	500003	400420
125	130	40÷60	6	30	10600	TH74FA26	559,00	TH74FM26	557,20	600201	500003	400420
125	180	40÷60	6	42	10600	TH74FA27	680,50	TH74FM27	678,10	600201	500003	400420
125	230	40÷60	6	54	10600	TH74FA28	802,80	TH74FM28	800,00	600201	500003	400420
140	100	40÷60	6	27	9500	TH74FA35	503,50	TH74FM35	500,20	600201	500003	400420
140	130	40÷60	6	30	9500	TH74FA36	571,20	TH74FM36	567,30	600201	500003	400420
140	180	40÷60	6	42	9500	TH74FA37	695,10	TH74FM37	689,60	600201	500003	400420
140	230	40÷60	6	54	9500	TH74FA38	824,20	TH74FM38	817,70	600201	500003	400420
140	100	40÷60	8	32	9500	TH74FA45	562,70	TH74FM45	560,70	600201	500003	400420
140	130	40÷60	8	40	9500	TH74FA46	645,70	TH74FM46	643,10	600201	500003	400420
140	180	40÷60	8	56	9500	TH74FA47	799,10	TH74FM47	795,80	600201	500003	400420
140	230	40÷60	8	72	9500	TH74FA48	957,90	TH74FM48	954,00	600201	500003	400420



TESTA ELICOIDALE A PIALLARE HELICAL PLANING CUTTER HEAD FEINHOBEL-SPIRALFÜGEFRÄSER



STEEL BODY

LIGHT ALLOY BODY



TH72FA
ADATTO PER
SUITABLE FOR
GEEIGNET FÜR
CNC

Testa pialla elicoidale con corpo in acciaio o lega leggera equipaggiata di coltelli in HM 15x15x2,5 con quattro lati taglienti. L'angolo assiale permette di lavorare con elevato avanzamento. Particolarmente adatta per ottenere buone finiture. Le teste possono essere equipaggiate di rasanti su uno o due lati. Il prezzo varierà in base al numero di rasanti montati. Possono essere costruite teste speciali fino a un diametro massimo di 300 mm, lunghezza massima 310 mm e un numero di 4-6-8-10 eliche.

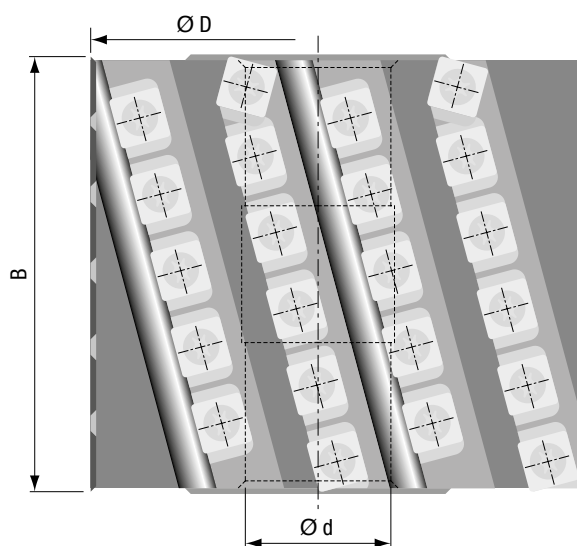
Serraggio Hydro a richiesta.

Helical planing cutter in light alloy or steel execution, axial angle alignment of the knives 15x15x2,5 mm for reduced cutting pressure, suitable for high feed rates, for excellent surface finishing in solid wood, available on demand with spurs for rebating, maximum diameter of 300 mm, maximum length of 310 mm with up to 10 helices on request.

Execution with Hydro clamping on request.

Spiralfügefräser, Werkzeugkörper aus hochfestem Leichtmetall (FA) oder Stahl (FM), Schneiden 15x15x2,5 mm mit 4 Schneidfassen, großer Achswinkel für reduzierten Schnittdruck. Werkzeuge können auch nur mit einer Schneidfase geliefert werden auf Anfrage - Preis ändert sich je nach Anzahl der montierten Messer. Werkzeugdurchmesser bis 300 mm, Länge bis 310 mm und bis 10 Spiralen möglich. Hydro Spannung auf Anfrage.

TH72FA - TH72FM										Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Nr. Eliche Helices Spiralen	Z	RPM min-max	Lega leggera Light alloy Leichtmetall Art. Nr.	€	Acciaio Steel Stahl Art. Nr.	€			
70	80	25	4	14	19000	TH72FA51	438,70	TH72FM51	436,80	600207	500003	400420
80	80	30÷35	4	14	16700	TH72FA55	424,00	TH72FM55	422,60	600207	500003	400420
100	100	30÷40	4	18	13300	TH72FA60	478,50	TH72FM60	475,10	600207	500003	400420
125	100	40÷60	4	18	10600	TH72FA65	491,70	TH72FM65	485,80	600207	500003	400420
125	130	40÷60	4	22	10600	TH72FA66	551,10	TH72FM66	543,90	600207	500003	400420
125	180	40÷60	4	32	10600	TH72FA67	675,00	TH72FM67	665,90	600207	500003	400420
125	230	40÷60	4	40	10600	TH72FA68	791,20	TH72FM68	780,20	600207	500003	400420
125	100	40÷60	6	27	10600	TH72FA75	578,40	TH72FM75	573,10	600207	500003	400420
125	130	40÷60	6	33	10600	TH72FA76	657,60	TH72FM76	651,30	600207	500003	400420
125	180	40÷60	6	48	10600	TH72FA77	827,00	TH72FM77	819,50	600207	500003	400420
125	230	40÷60	6	60	10600	TH72FA78	984,30	TH72FM78	975,00	600207	500003	400420
140	100	40÷60	6	27	9500	TH72FA85	588,10	TH72FM85	581,00	600207	500003	400420
140	130	40÷60	6	33	9500	TH72FA86	669,90	TH72FM86	661,40	600207	500003	400420
140	180	40÷60	6	48	9500	TH72FA87	855,20	TH72FM87	844,20	600207	500003	400420
140	230	40÷60	6	60	9500	TH72FA88	1.005,90	TH72FM88	992,70	600207	500003	400420
140	100	40÷60	8	36	9500	TH72FA95	674,80	TH72FM95	668,60	600207	500003	400420
140	130	40÷60	8	44	9500	TH72FA96	776,40	TH72FM96	768,80	600207	500003	400420
140	180	40÷60	8	64	9500	TH72FA97	1.002,80	TH72FM97	993,30	600207	500003	400420
140	230	40÷60	8	80	9500	TH72FA98	1.199,30	TH72FM98	1.187,50	600207	500003	400420





LIGHT ALLOY BODY

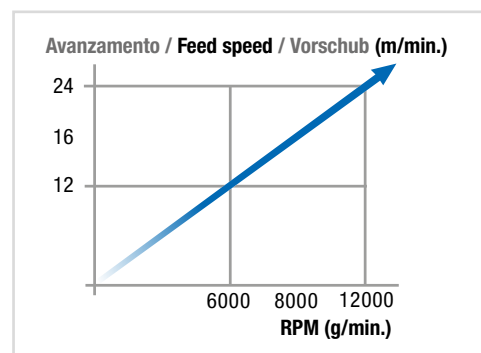
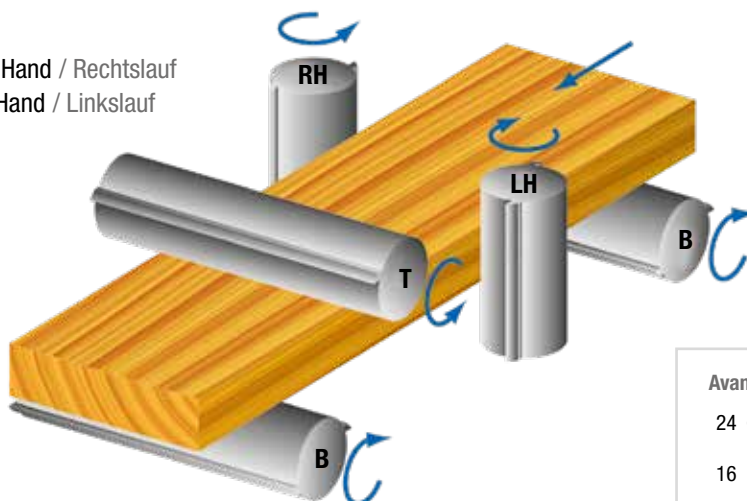
Testa pialla elicoidale con corpo in lega leggera montato su un opportuno attacco HSK 85 "PowerLock"® per 8000 RPM. È equipaggiata di coltelli in HW 15x15x2,5 con quattro lati taglienti a sviluppo elicoidale che le consentono di eseguire grosse asportazioni con buone finiture.

Helical head with aluminium body mounted on "PowerLock"® chuck.
It is equipped with 15x15x2,5 knives in HW with four cutting edges.

Spiralmesserkopf mit Aluminium Körper montiert auf Powerlock-Schaft®.
Bestückt mit HW-Messern 15x15x2,5 mm mit 4 Schneidfasen.

TH72PL POWER LOCK®										Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Z	RPM min-max	Rotazione Rotation Lauf	Art. Nr.	€	Rotazione Rotation Lauf	Art. Nr.	€			
90	80	14	8000	RH/T	TS72PL02	841,40	LH/B	TS72PL01	841,40	600207	500003	400420
90	100	18	8000	RH/T	TS72PL04	938,70	LH/B	TS72PL03	938,70	600207	500003	400420
90	130	26	8000	RH/T	TS72PL06	1.031,20	LH/B	TS72PL05	1.031,20	600207	500003	400420
90	150	30	8000	RH/T	TS72PL08	1.098,30	LH/B	TS72PL07	1.098,30	600207	500003	400420
90	170	34	8000	RH/T	TS72PL10	1.151,40	LH/B	TS72PL09	1.151,40	600207	500003	400420
90	180	34	8000	T	TS72PL12	1.219,10	B	TS72PL11	1.219,10	600207	500003	400420
90	190	36	8000	T	TS72PL14	1.285,60	B	TS72PL13	1.285,60	600207	500003	400420
90	210	42	8000	T	TS72PL16	1.420,10	B	TS72PL15	1.420,10	600207	500003	400420
90	240	46	8000	T	TS72PL18	1.454,80	B	TS72PL17	1.454,80	600207	500003	400420

RH: Rotazione Destra / Right Hand / Rechtslauf
LH: Rotazione Sinistra / Left Hand / Linkslauf
T: Superiore / Top / Oben
B: Inferiore / Bottom / Unten



TESTA PORTACOLTELLI PER GIUNZIONI TIPO "FINGER JOINT" FINGER JOINTING CUTTER MINIZINKENFRÄSER



STEEL BODY

Corpo utensili esclusi coltelli
Cutter excluding knives
Fräskopf ohne Messer

Teste portacoltelli modulari per eseguire giunzioni tipo "finger joint" per strutture portanti in legno lamellare (DIN 68140), serramenti e profili lamellari (DIN 1052). In acciaio ad alta resistenza con 4, 6 o 8 taglienti in HSS con rivestimento PVD, serraggio opposto al senso di rotazione. Solo per avanzamento meccanico.

High precision modular cutter system for longitudinal glue jointing (DIN 68140), optional with 4, 6 or 8 PVD-coated HSS-knives for highly stressed structural components in engineered timber construction (DIN 1052), window tooling and laminar profiling. Cutters with steel body, locked against rotation, suitable for mechanical feed only.

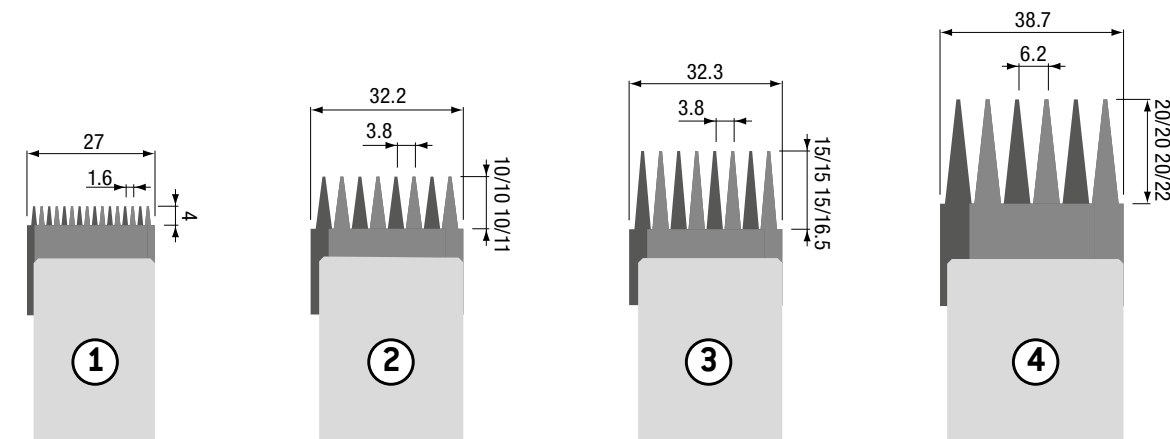
Hochpräzises, modulares Fräfersystem zum Einsatz auf Keilzinkenanlagen, Zinkenprofile für Längsverbindungen (DIN 68140) in hochbeanspruchten Bauteilen im Ingenieur-Holzbau (DIN 1052), sowie Fensterbau und in der Fußboden- und Leistenfabrikation. Tragkörper aus Stahl mit wahlweise 4, 6 oder 8 auswechselbaren PVD-beschichteten HSS- oder HW-Schneiden, Zinkenfräsersatz mit Verdrehsicherung, verlängerte Zinkenprofile für Maschinen mit Ablängvorrichtung erhältlich, für mechanischen Vorschub geeignet.

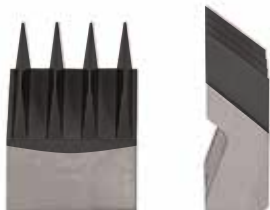
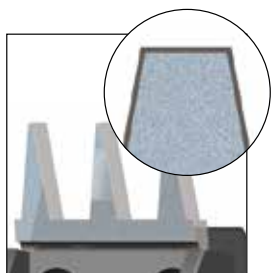
TG05FC									Ricambi / Spare Parts / Ersatzteile	
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	Type		€		
138 (160)	25,6	40÷50	4	8000	TG05FC01	①		202,50	501404	400003
226 (250)	25,6	40÷60	6	5500	TG05FC02	①		238,50	501404	400003
129 (160)	30,4	30	4	8500	TG05FC03030	②	•	162,00	501404	400003
129 (160)	30,4	40	4	8500	TG05FC03040	②	•	162,00		
129 (160)	30,4	50	4	8500	TG05FC03050	②	•	162,00		
129 (160)	30,4	30÷50	6	8500	TG05FC13	②		202,50	501404	400003
216 (250)	30,4	50	6	5500	TG05FC04050	②	•	238,50	501404	400003
216 (250)	30,4	30÷60	8	5500	TG05FC14	②		301,50	501404	400003
149 (170)	30,4	50	4	8000	TG05FC05050	③	•	229,50	501404	400003
149 (170)	30,4	30÷50	6	8000	TG05FC15	③		288,00	501404	400003
235 (260)	30,4	50	6	5200	TG05FC06050	③	•	333,00	501404	400003
235 (260)	30,4	30÷60	8	5200	TG05FC16	③		416,30	501404	400003
152 (180)	37,2	50	4	7500	TG05FC07050	④	•	270,00	501404	400003
232 (260)	37,2	50	6	5200	TG05FC08050	④	•	382,50	501404	400003

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Il diametro tra parentesi è quello con i coltelli montati. / The diameter in brackets is the diameter with the knives fitted.

Der in Klammern angegebene Durchmesser entspricht dem Durchmesser mit den montierten Messern.





Coltelli in HSS rivestiti PVD / HSS-knives with PVD coating / HSS-Messer mit PVD-Beschichtung

CGMZOS						
L [mm]	Passo / Pitch / Teilung [mm]	Dim. [mm]	Art. Nr.	per / for / für Type		€
4	1,6	25,4 x 33 x 14	CGMZOS31	①	•	112,50
10 / 10	3,8	28,4 x 38,5 x 14	CGMZOS62	②	•	72,00
10 / 11	3,8	28,4 x 38,5 x 14	CGMZOS63	②	•	72,00
15 / 15	3,8	28,4 x 38,5 x 14	CGMZOS64	③	•	112,50
15 / 16,5	3,8	28,4 x 38,5 x 14	CGMZOS65	③	•	112,50
20 / 20	6,2	32,5 x 48,5 x 14	CGMZOS66	④	•	130,50
20 / 22	6,2	32,5 x 48,5 x 14	CGMZOS67	④	•	130,50

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

COLTELLI PER "FINGER JOINT" PER TG05FC
FINGER JOINT KNIVES FOR TG05FC
MINIZINKENMESSER FÜR TG05FC



Coltelli in HM / TC-knives / HW-Messer

CGMZOM						
L [mm]	Passo / Pitch / Teilung [mm]	Dim. [mm]	Art. Nr.	per / for / für Type		€
10 / 10	3,8	28,4 x 38,5 x 14	CGMZOM62	②	•	200,00
10 / 11	3,8	28,4 x 38,5 x 14	CGMZOM63	②	•	200,00

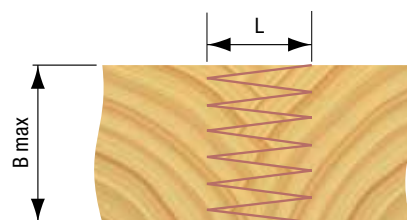
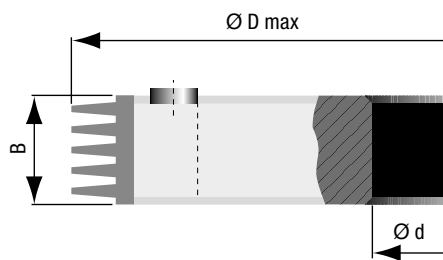
TESTA PORTACOLTELLI PER GIUNZIONI TIPO "FINGER JOINT" FINGER JOINTING CUTTER MINIZINKENFRÄSER

Tabella per determinare il numero di teste da utilizzare in relazione allo spessore legno lavorato.

Choosing the correct cutter system.

Auswahl des geeigneten Fräsersystems.

TG05FC				
L [mm]	B max [mm]	Teste / Cutters / Fräser nr.	Ø D [mm]	B [mm]
4 / 4 Passo Pitch Teilung 1,6 mm	25,2	1	160 / 250	27
	50,8	2	160 / 250	52,6
	76,4	3	160 / 250	78,2
	102	4	160 / 250	103,8
	127,6	5	160 / 250	129,4
	153,2	6	160 / 250	155
10 / 10 10 / 11 Passo Pitch Teilung 3,8 mm	29,8	1	160 / 250	32,2
	60,2	2	160 / 250	62,6
	90,6	3	160 / 250	93
	121	4	160 / 250	123,4
	151,4	5	160 / 250	153,8
	181,8	6	160 / 250	184,2
	212,2	7	160 / 250	214,6
15 / 15 15 / 16,5 Passo Pitch Teilung 3,8 mm	29,8	1	170 / 260	32,2
	60,2	2	170 / 260	62,6
	90,6	3	170 / 260	93
	121	4	170 / 260	123,4
	151,4	5	170 / 260	153,8
	181,8	6	170 / 260	184,2
	212,2	7	170 / 260	214,6
	242,6	8	170 / 260	245
	273	9	170 / 260	275,4
	303,4	10	170 / 260	305,8
20 / 20 20 / 22 Passo Pitch Teilung 6,2 mm	36,3	1	180 / 260	38,7
	73,5	2	180 / 260	75,9
	110,7	3	180 / 260	113,1
	147,9	4	180 / 260	150,3
	185,1	5	180 / 260	187,5
	222,3	6	180 / 260	224,7
	259,5	7	180 / 260	261,9
	296,7	8	180 / 260	299,1
	333,9	9	180 / 260	336,3



10 / 11
15 / 16.5
20 / 22

Per lavorazioni su macchine dotate di utensile ad intestare.
Usable on machines with cutt-off hogging set.
Beim Einsatz auf Maschinen mit Ablängvorrichtung.



15 / 15
20 / 20

Per macchine compatte
for compact machines
Für Kompaktmaschine

**SPECIFICHE TECNICHE
TECHNICAL FEATURES
TECHNISCHE EIGENSCHAFTEN**

PERFORMANCE / PERFORMANCE / LEISTUNG

Coltelli in HSS sinterizzato con nuovo rivestimento PVD.
Knives made of powder HSS with new PVD coating.
Formgepresste HSS Messer mit neuartiger PVD Beschichtung.

MANUTENZIONE / MAINTENANCE / SERVICE

Il sistema di bloccaggio dalla parte posteriore del coltello garantisce una maggiore pulizia delle viti con conseguente semplicità di sostituzione dei coltelli.

Knife backside-clamping protects screws from wood dust with relative advantages during knives replacement.

Messerspannung am Messerrücken und somit stets saubere Schraubenköpfe für schnellen und problemlosen Messerwechsel.

DESIGN

Ampio scarico frontale dell'utensile per ottimale evacuazione del truciolo.

Special recesses in tooling geometry for efficient chip removal.

Großer frontaler Werkzeugausslass für optimale hervorragende Spanabfuhr.

**PESO RIDOTTO / LIGHT WEIGHT /
GEWICHTSREDUKTION**

La forma scaricata, garantisce una riduzione del peso dell'utensile rendendolo paragonabile al saldobrasato.

Weight reduction thanks to wide recesses in tool bodies that makes it comparable to brazed tools.

Geringeres Werkzeuggewicht durch die offene Fräserform und die großen Spanräume.

**AUTOPOSIZIONAMENTO DEL COLTELLO BREVETTATO
KNIVES POSITIONING PRECISION
HOCHPRÄZISE MESSERSPANNUNG**

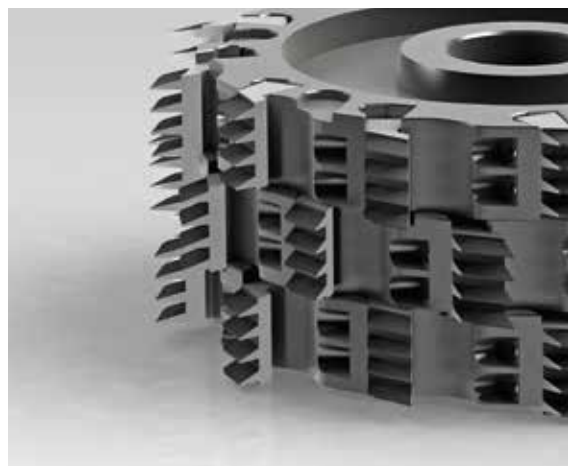
Massima precisione di accoppiamento tra utensile e coltello.
Granted by the special PATENTED knife geometry.
Patentierte Messerpositionierung.

ELEVATA PRODUTTIVITÀ / HIGH PRODUCTIVITY / HOCHLEISTUNG

Esecuzione fino a 12 denti (Z=6 + 6 sul Ø 250) per altissime prestazioni con avanzamenti oltre 6 cicli/min.

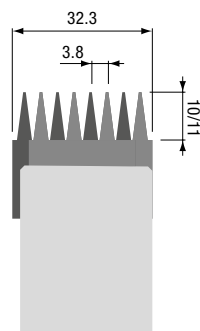
Up to 12 teeth (Z=6 + 6 on Ø 250) for extremely high performances with feed rates over 6 cycles/min.

Ausführung bis 12 Zähne (Z=6 + 6 auf Ø 250) für Hochgeschwindigkeit mit Vorschüben über 6 Zyklen/Min.





STEEL BODY



Corpo utensili esclusi coltelli
Cutter excluding knives
Fräskopf ohne Messer

Sistema modulare ad alte performances con serraggio dei coltelli brevettato per giunzioni longitudinali (DIN 68140), a 4-16 coltelli opzionali in HSS sinterizzato rivestiti PVD. Specifico per elementi ad alta sollecitazione strutturale nell'ingegneria del legno per costruzione (DIN 1052), serramenti e profili lamellari. Frese con corpo in acciaio con sistema di sicurezza anti-rotazione, serraggio posteriore ai coltelli per una sostituzione sicura e rapida dei coltelli, adatto solo per macchine automatiche. Corpo utensili esclusi coltelli.

High performance modular cutter system with patented knife clamping for longitudinal glue jointing (DIN 68140), optional with 4-16 PVD-coated powder HSS-knives for highly stressed structural components in engineered timber construction (DIN 1052), window tooling and laminar profiling. Cutters with steel body, locked against rotation, knife backside clamping for fast and easy knife change, suitable for mechanical feed only. Cutter excluding knives.

Hochpräzises, modulares Fräfersystem mit patentierter Messerspannung zum Einsatz auf Keilzinkenanlagen, Zinkenprofile für Längsverbindungen (DIN 68140) in hochbeanspruchten Bauteilen im Ingenieur-Holzbau (DIN 1052), sowie Fensterbau und in der Fußboden- und Leistenfabrikation.

Tragkörper aus Stahl mit wahlweise 4-16 auswechselbaren PVD-beschichteten, formgepressten HSS-Schneiden, wesentlich höhere Standwege und dadurch weniger Messerwechsel dank neuartigem Schneidwerkstoff, Zinkenfräsersatz mit Verdrehsicherung, Spannung der Messer lediglich rückseitig durch Schrauben für schnellen und komfortablen Messerwechsel, für mechanischen Vorschub geeignet. Fräskopf ohne Messer.

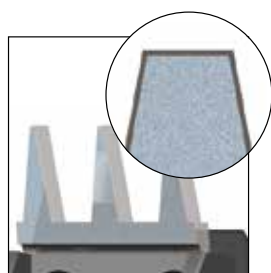
"JOINTEX" TG06FC							Ricambi / Spare Parts / Ersatzteile	
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	•	€	
129 (160)	30,4	50	4	8500	TG06FC03050	•	252,00	502901
129 (160)	30,4	50	6	8500	TG06FC13050	•	306,00	502901
218 (250)	30,4	50	6	5500	TG06FC04050	•	360,00	502901
218 (250)	30,4	50	8	5500	TG06FC14		414,00	502901
218 (250)	30,4	50	10	5500	TG06FC18		477,00	502901
218 (250)	30,4	50	12	5500	TG06FC28		549,00	502901
218 (250)	30,4	50	14	5500	TG06FC44		621,00	502901
218 (250)	30,4	50	16	5500	TG06FC54050	•	684,00	502901

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Il diametro tra parentesi è quello con i coltelli montati. / The diameter in brackets is the diameter with the knives fitted.
Der in Klammern angegebene Durchmesser entspricht dem Durchmesser mit den montierten Messern.



COLTELLI PER GIUNZIONI TIPO "FINGER JOINT" PER TG06FC
FINGER JOINT KNIVES - FOR TG06FC
MINIZINKENMESSERS FÜR TG06FC



RIVESTITO
COATED
BESCHICHTUNG

Coltelli in HSS sinterizzato con rivestimento PVD
Powder HSS-knives with PVD-coating
Formgepresste HSS-Messer mit PVD-Beschichtung



L [mm]	Passo / Pitch / Teilung [mm]	Dim. [mm]	Art. Nr.	•	€
10 / 11	3,8	28,5 x 40 x 14,1	CGMZ0S72	•	103,50

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar





STEEL BODY



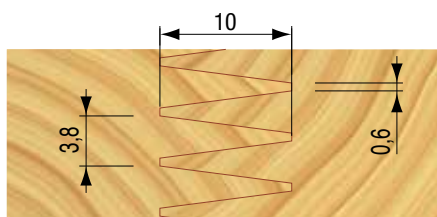
Teste in acciaio ad alta resistenza con inserti in HM per eseguire giunzioni tipo "finger joint" verticali e orizzontali profilo 10/11. L'utensile risulta molto versatile e garantisce un elevato rendimento sia nella lavorazione di legni teneri sia di quelli duri/esotici. Facile sostituzione e posizionamento dei coltelli, possibilità di riaffilatura (3,5 mm max), elevato rendimento sugli impianti industriali con basso consumo di energia e adatto unicamente all'utilizzo MEC.

Steel cutters mounted on coupling bush with Tungsten Carbide inserts for high-end horizontal and vertical profile 10/11 "finger"-type joints, usable on industrial finger joint lines, easy replacement and positioning of the TC-inserts, re-sharpening zone 3,5 mm, suitable for MEC feed only.

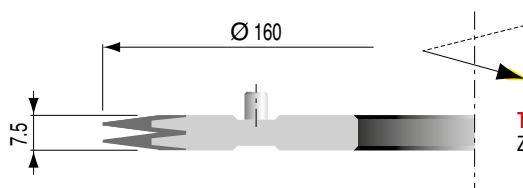
Modulares Fräsystem zum Einsatz auf Keilzinkenanlagen, für Zinkenverbindungen in Weich- und Hartholz, speziell für Fensterkanteln geeignet. Tragkörper aus Stahl, auf Spannbüchse montiert mit Messereinsätzen aus Hartmetall (HW), 4, 6 oder 8 Schneiden für höchste Produktivität und hohe Standwege auf Keilzinkenanlagen, 3,5 mm Nachschleifzone, komfortabler Messerwechsel und präzise Messerpositionierung, je nach Anlage mit Werkzeugdurchmesser 160 mm oder 250 mm lieferbar.

TG25FM								Ricambi / Spare Parts / Ersatzteile						
D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.		Type	€						
160	7,6	50	2+2	9000	TG25FM01050		①	378,00	600731	600732	500215			400425
160	7,6	50	3+3	9000	TG25FM11050			472,50	600731	600732	500215			400425
160	11,4	50	2+2+2	9000	TG25FM04050		②	583,00	600731	600732	500215			400425
160	11,4	50	3+3+3	9000	TG25FM14050			720,00	600731	600732	500215			400425
160	11,4	50	2+2	9000	TG25FM12050		③	495,00				600734	600735	500216
160	11,4	50	3+3	9000	TG25FM22050			639,00				600734	600735	500216
160	15,2	50	2+2+2	9000	TG25FM13050		④	621,00				600734	600735	500216
160	15,2	50	3+3+3	9000	TG25FM23050			810,00				600734	600735	500216
250	7,6	50	3+3	5500	TG25FM06050	•	⑤	558,00	600731	600732	500215			400425
250	7,6	50	4+4	5500	TG25FM16050	•		657,00	600731	600732	500215			400425
250	7,6	50	6+6	5500	TG25FM36050			760,50	600731	600732	500215			400425
250	11,4	50	3+3+3	5500	TG25FM09050	•	⑥	756,00	600731	600732	500215			400425
250	11,4	50	4+4+4	5500	TG25FM19050	•		900,00	600731	600732	500215			400425
250	11,4	50	5+5+5	5500	TG25FM29050			1.012,50	600731	600732	500215			400425
250	11,4	50	6+6+6	5500	TG25FM39050			1.120,50	600731	600732	500215			400425
250	11,4	50	3+3	5500	TG25FM10050	•	⑦	731,00				600734	600735	500216
250	11,4	50	4+4	5500	TG25FM20050	•		819,00				600734	600735	500216
250	11,4	50	6+6	5500	TG25FM50050			1.062,00				600734	600735	500216
250	15,2	50	3+3+3	5500	TG25FM30050		⑧	922,50				600734	600735	500216
250	15,2	50	4+4+4	5500	TG25FM40050			1.089,00				600734	600735	500216
250	22	50	3+3+3	5500	TG25FM18050		⑨	990,00	600731		500215		600735	500216
250	22	50	3+3+3	5500	TG25FM27050		⑩	990,00		600732	500215	600734		500216

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

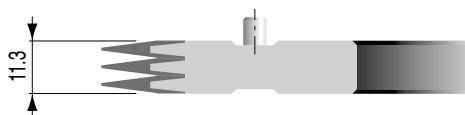


①



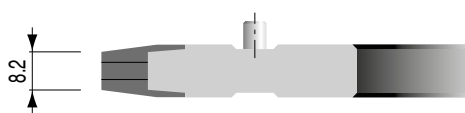
TG25FM01050 / **TG25FM11050**
Z= 2 + 2 / Z= 3 + 3

②



TG25FM04050 / **TG25FM14050**
Z= 2 + 2 + 2 / Z= 3 + 3 + 3

③



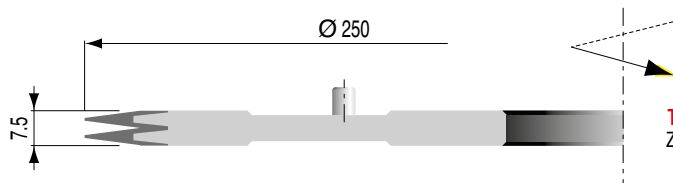
TG25FM12050 / **TG25FM22050**
Z= 2 + 2 / Z= 3 + 3

④



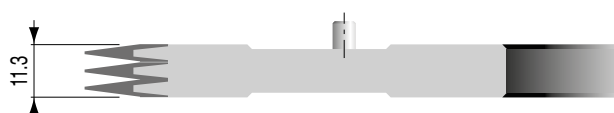
TG25FM13050 / **TG25FM23050**
Z= 2 + 2 + 2 / Z= 3 + 3 + 3

⑤



TG25FM06050 / **TG25FM16050** / **TG25FM36050**
Z= 3 + 3 / Z= 4 + 4 / Z= 6 + 6

⑥



TG25FM09050 / **TG25FM19050** / **TG25FM29050** / **TG25FM39050**
Z= 3 + 3 + 3 / Z= 4 + 4 + 4 / Z= 5 + 5 + 5 / Z= 6 + 6 + 6

⑦



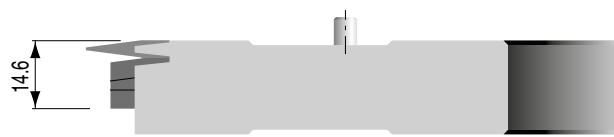
TG25FM10050 / **TG25FM20050** / **TG25FM50050**
Z= 3 + 3 / Z= 4 + 4 / Z= 6 + 6

⑧



TG25FM30050 / **TG25FM40050**
Z= 3 + 3 + 3 / Z= 4 + 4 + 4

⑨



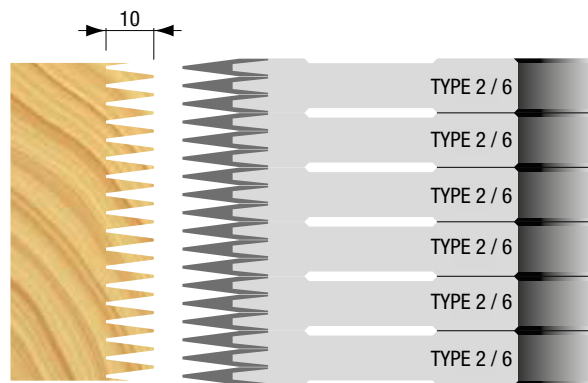
TG25FM18050
Z= 3 + 3 + 3

⑩

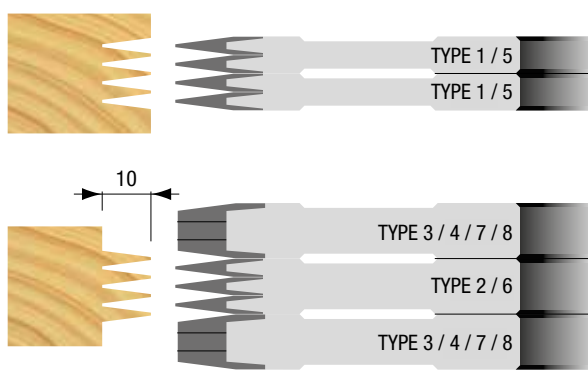


TG25FM27050
Z= 3 + 3 + 3

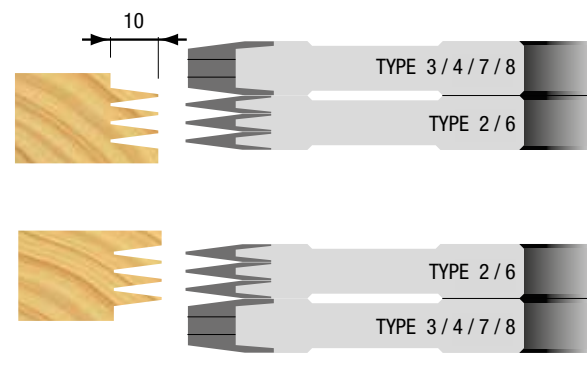
Giunto verticale / Vertical joint / Vertikale Zinkung



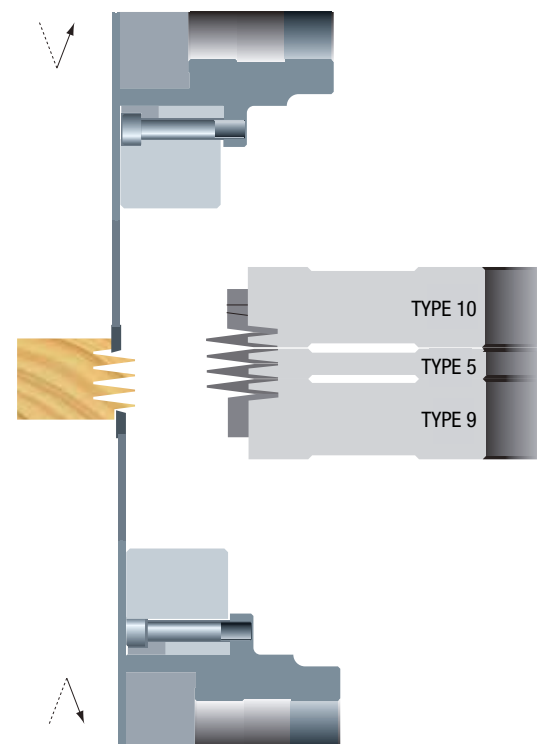
Giunto orizzontale per macchine "doppie"
Horizontal joints on double-end machines
Horizontale Zinkung mit unterschiedlichen Stegen



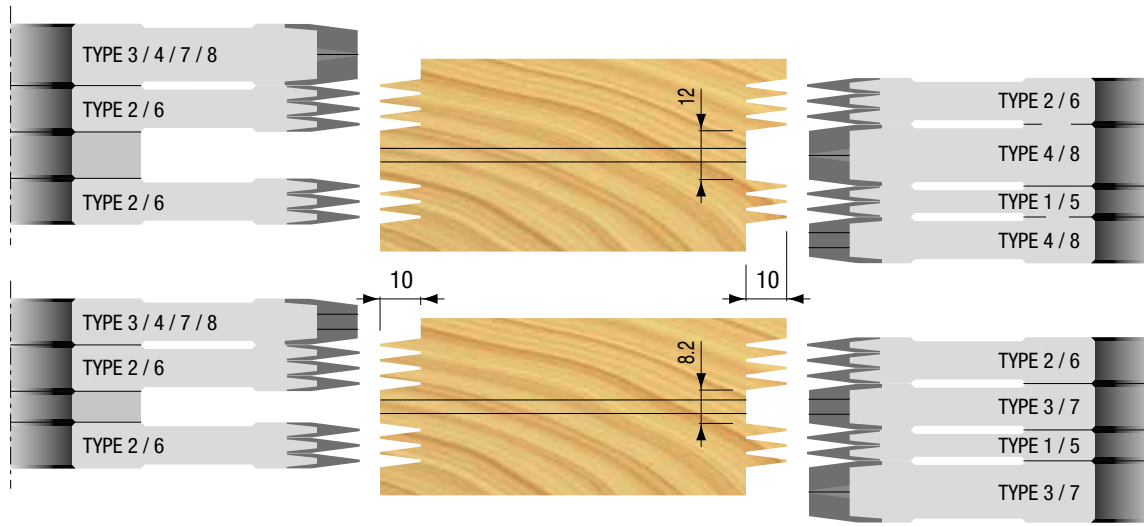
Giunto orizzontale / Horizontal joint / Horizontale Zinkung



Giunto orizzontale con piani laterali centrati
Horizontal joint with centred side plates
Horizontale Zinkung mit mittigem Steg



Giunto orizzontale "Re-saw" / Horizontale Zinkung / "Re-saw" horizontal joint



TRUCIOLATORE IN LEGA LEGGERA HOGGING UNITS SEGMENT-ZERSPANER



LIGHT ALLOY BODY

Il corpo in lega leggera è corredato da 4 oppure 6 «settori» con taglienti in HM riaffilabili come una sega circolare e sostituibili. L'accoppiamento di più elementi per spessori di taglio multipli di 30 mm può avvenire mediante specifico assemblaggio da richiedere in sede di ordinazione. I tipi «1» e «2» hanno il mozzo interno e i tipi «3» e «4» il mozzo a filo con lo spessore del corpo. Lama su richiesta.

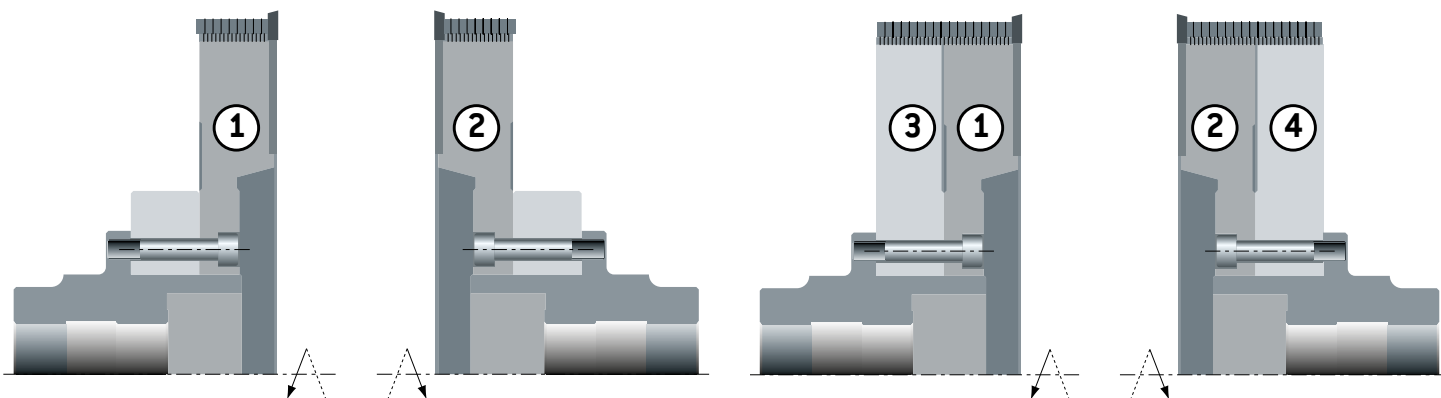
Light alloy body equipped with 4 or 6 TCT cutting segments (resharpenable), assembly system with cutting widths of multiples of 30 mm, used for hogging solid timber, panels and edge banding, suitable for mechanical feed. Saw Blade on request.

Alu-Tragkörper mit 4 bzw. 6 austauschbaren Hartmetall-Segmenten (nachscharfbar), Aufbausystem mit Verbreiterung des Zerspaners um jeweils 30 mm, für mechanische Vorschübe geeignet. «1» und «2» mit innenliegender Nabe, «3» und «4» haben eine bündige Nabe. Kreissäge auf Anfrage.

TAL2FM - Corpo truciolatore / Hogging unit body / Zerspanerkörper									Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Rotation	Art. Nr.	Type	€					
250	30	60	32	6000	SX	TAL2FM01060	①	500,00	601107 (4 pcs)	500605	500701	400114	400115
250	30	80	32	6000	SX	TAL2FM01080	①	500,00	601107 (4 pcs)	500605	500701	400114	400115
250	30	60	32	6000	DX	TAL2FM02060	②	500,00	601107 (4 pcs)	500605	500701	400114	400115
250	30	80	32	6000	DX	TAL2FM02080	②	500,00	601107 (4 pcs)	500605	500701	400114	400115
300	30	60	42	5000	SX	TAL2FM03060	①	740,00	601108 (6 pcs)	500605	500701	400114	400115
300	30	80	42	5000	SX	TAL2FM03080	①	740,00	601108 (6 pcs)	500605	500701	400114	400115
300	30	60	42	5000	DX	TAL2FM04060	②	740,00	601108 (6 pcs)	500605	500701	400114	400115
300	30	80	42	5000	DX	TAL2FM04080	②	740,00	601108 (6 pcs)	500605	500701	400114	400115
350	30	60÷80	48	4000	SX	TAL2FM05	①	875,00	601109 (6 pcs)	500605	500701	400114	400115
350	30	60÷80	48	4000	DX	TAL2FM06	②	875,00	601109 (6 pcs)	500605	500701	400114	400115

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

TAL2FM - Elementi per accoppiamento / Coupling elements / Erweiterungen									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Rotation	Art. Nr.	Type	€			
250	30	60÷80	32	6000	SX	TAL2FM11	③	590,00	601107 (4 pcs)	500701	400115
250	30	60÷80	32	6000	DX	TAL2FM12	④	590,00	601107 (4 pcs)	500701	400115
300	30	60÷80	42	5000	SX	TAL2FM13	③	780,00	601108 (6 pcs)	500701	400115
300	30	60÷80	42	5000	DX	TAL2FM14	④	780,00	601108 (6 pcs)	500701	400115
350	30	60÷80	48	4000	SX	TAL2FM15	③	900,00	601109 (6 pcs)	500701	400115
350	30	60÷80	48	4000	DX	TAL2FM16	④	900,00	601109 (6 pcs)	500701	400115



Bussole di accoppiamento solo su richiesta / Assembly bushes on request / Spannbüchsen auf Anfrage



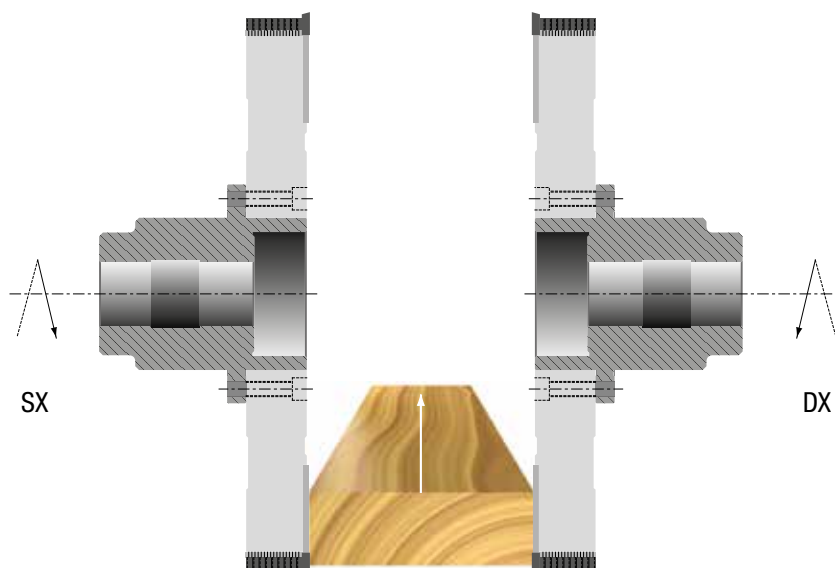
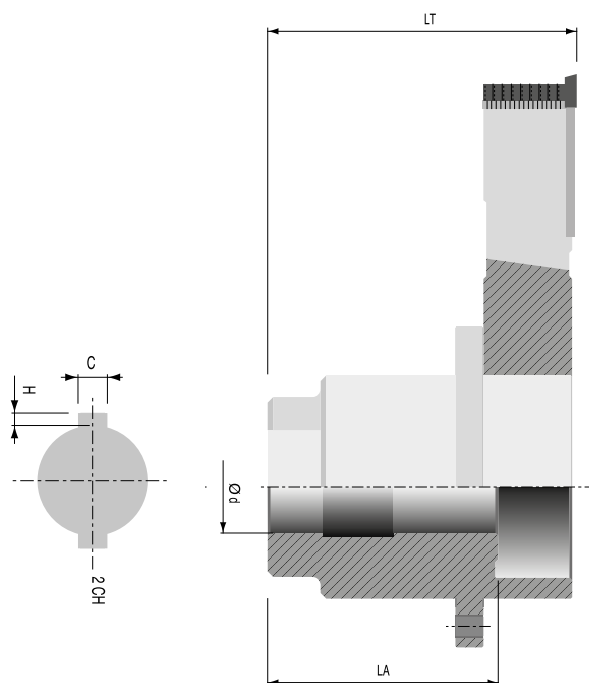
STR1FM - Lama circolare per truciolatore / Saw blade for hogging unit / Kreissäge für Zerspaner							
Ø D [mm]	B [mm]	Ø d [mm]	Z	Rotation	Art. Nr.		€
255	4,2	155	40	DX	STR1FM20155		127,50
255	4,2	155	60	DX	STR1FM22155	•	136,50
300	4,2	155	48	DX	STR1FM24155		135,50
300	4,2	155	72	DX	STR1FM26155	•	147,00
350	4,2	200	84	DX	STR1FM30155		180,00
255	4,2	155	40	SX	STR1FM21155		127,50
255	4,2	155	60	SX	STR1FM23155	•	136,50
300	4,2	155	48	SX	STR1FM25155		135,50
300	4,2	155	72	SX	STR1FM27155	•	147,00
350	4,2	200	84	SX	STR1FM31200		180,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

In fase di ordine è importante specificare il tipo di macchina sulla quale viene montato il truciolatore, e possibilmente tutte le dimensioni indicate, compresa la rotazione.

When placing an order please state all relevant technical requirements like machine type, rotation, dimension etc.

Bei Bestellung sind Angaben über Maschinentyp, technische Besonderheiten und Drehrichtung zwingend erforderlich.



GRUPPO TESTE CON COLTELLINI PER RAGGIARE E SMUSSARE ROUNDING CUTTER SET FÜGE- UND ABRUNDGARNITUR



STEEL BODY

Gruppo teste con coltellini composto da 3 elementi. L'elemento "1" e l'elemento "3" sono sagomati e consentono di effettuare smussi a 45° e/o raggi (R=2, 3, 4, 5, 6 mm). Gli elementi centrali "2" e "4", costruiti con angolo di taglio assiale, spianano la parte diritta del pannello da lavorare. In fase di ordine indicare il tipo di coltello desiderato e il profilo richiesto. Prezzo incluso coltelli.

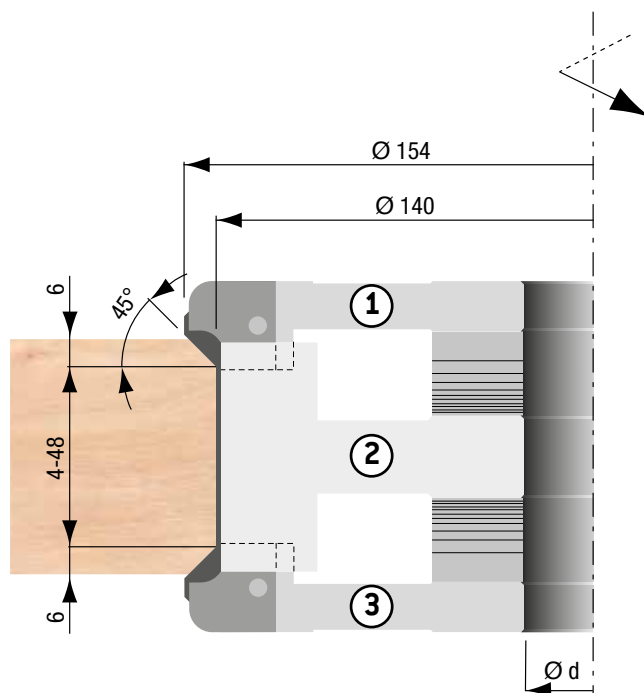
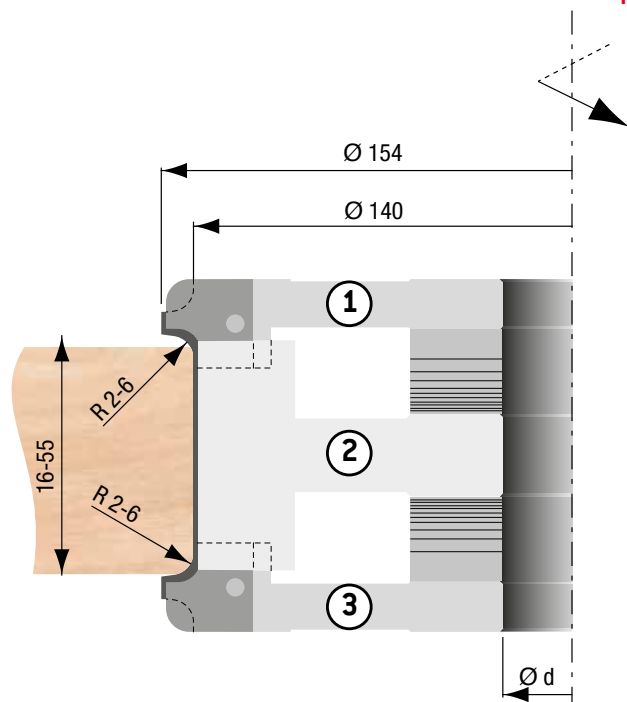
Cutter set consisting of 3 cutters with steel body and Tungsten Carbide knives for jointing and rounding/bevelling in moulding machines, axial angle alignment of the knives for reduced cutting pressure and excellent cutting results, suitable for mechanical feed. When ordering please specify the knives and the profile required. Price including knives.

Hochleistungs-Werkzeug zum zeitgleichen Fügen und Abrunden/Fasen der Kanten in Kehlautomaten und Vierseitern. Dreiteiliger Werkzeugsatz mit Tragkörpern aus Stahl und HW-Wechselmessern für hohe Standwege, Achswinkel der Fügescneiden für reduzierten Schnittdruck und exzellente Schnittleistung. In Profilfräser "1" und "3" können sowohl Radius- wie auch Fasemesser eingesetzt werden, für mechanische Vorschübe geeignet. Bitte das benötigte Profil bei Bestellung angeben. Profilmesser im Lieferumfang enthalten.

TH34FM									Ricambi / Spare Parts / Ersatzteile								
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	Type		€		R2	R3	R4	R5	R6	$\alpha = 45^\circ$		
154	20	30	3	9500	TH34FM01030	①	•	280,00		602017	602019	602021	602023	602025	602026	350055	502402
154	20	31,75	3	9500	TH34FM01031	①	•	300,00		602017	602019	602021	602023	602025	602026	350055	502402
154	20	35	3	9500	TH34FM01035	①	•	300,00		602017	602019	602021	602023	602025	602026	350055	502402
154	20	40	3	9500	TH34FM01040	①	•	280,00		602017	602019	602021	602023	602025	602026	350055	502402
154	20	50	3	9500	TH34FM01050	①	•	300,00		602017	602019	602021	602023	602025	602026	350055	502402
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140	50	31,75	3	9500	TH34FM02031	②	•	290,00	600006							350009	502402
140	50	35	3	9500	TH34FM02035	②	•	290,00	600006							350009	502402
140	50	40	3	9500	TH34FM02040	②	•	270,00	600006							350009	502402
140	50	50	3	9500	TH34FM02050	②	•	290,00	600006							350009	502402
154	20	30	3	9500	TH34FM03030	③	•	280,00		602017	602019	602021	602023	602025	602026	350053	502402
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140	60	30	3	9500	TH34FM04030	④	•	300,00	600007							350010	502402
140	60	31,75	3	9500	TH34FM04031	④	•	320,00	600007							350010	502402
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140	60	40	3	9500	TH34FM04040	④	•	300,00	600007							350010	502402
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• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

TH34FM10

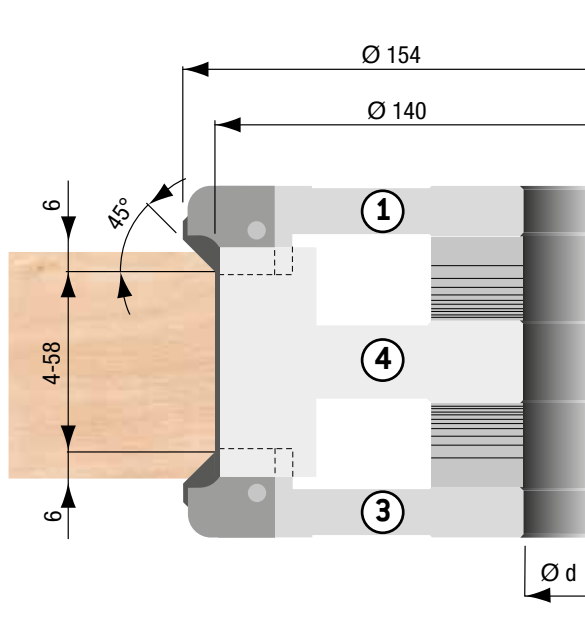
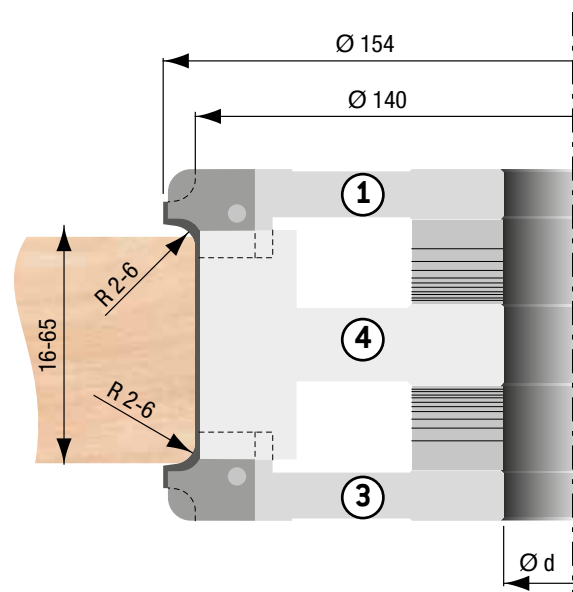


I tre elementi 1, 2 e 3 sono ordinabili in **SET** con codice **TH34FM10**.

The three elements 1, 2 and 3 can be ordered in **SET** with code **TH34FM10**.

Die drei Elemente 1, 2 und 3 können im **SET** mit dem Code **TH34FM10** bestellt werden.

TH34FM20



I tre elementi 1, 4 e 3 sono ordinabili in **SET** con codice **TH34FM20**.

The three elements 1, 4 and 3 can be ordered in **SET** with code **TH34FM20**.

Die drei Elemente 1, 4 und 3 können im **SET** mit dem Code **TH34FM20** bestellt werden.

GRUPPI TESTE CON COLTELLINI PER PARCHETTI E PERLINE TONGUE AND GROOVE CUTTER SET NUT- UND FEDERFRÄSERGARNITUR



STEEL BODY

Gruppi di teste con coltellini, intercambiabili tra loro per la realizzazione di parchetti e perline su macchine scorniciatrici. Gli utensili sono regolabili mediante anelli distanziali che permettono di ottenere gli spessori e i profili desiderati. I gruppi sono corredati da bussole di accoppiamento per l'assemblaggio delle singole teste.

Set of steel cutters mounted on assembly bush for producing up to 17 different variations of tongue and groove profiles on moulding machines, suitable for mechanical feed.

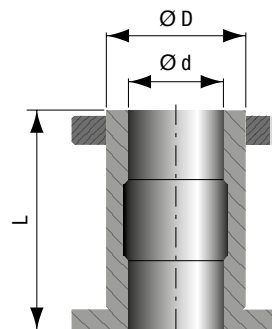
Fräsersatz zur Herstellung von Nut- und Federprofilen auf mehrspindigen Kehlautomaten. Fräskörper aus Stahl auf Büchse montiert mit Profil- und Wendemessern aus Hartmetall, bis zu 17 unterschiedlichen Profilvariationen. Für mechanische Vorschübe geeignet.

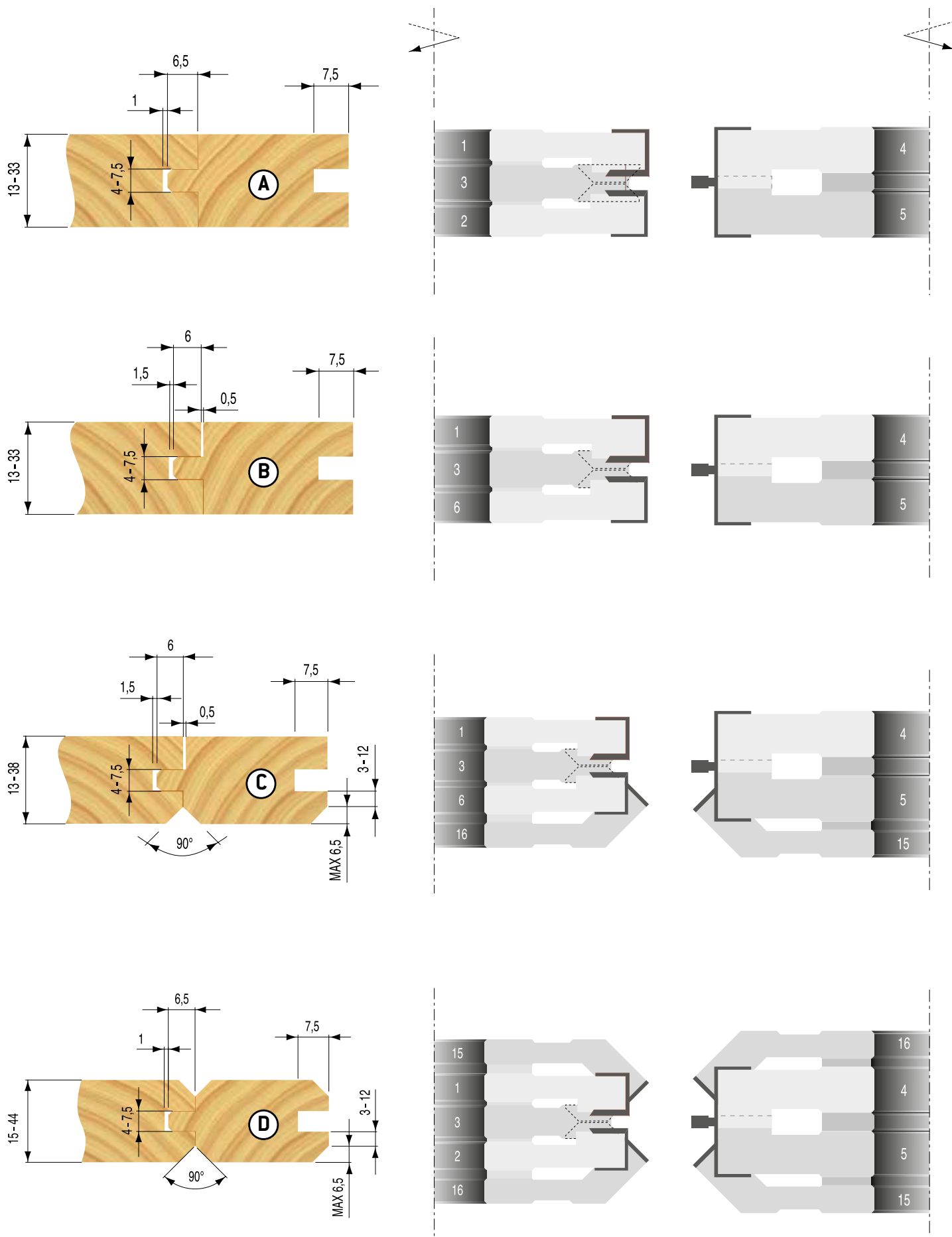
TH20FM											Ricambi / Spare Parts / Ersatzteile							
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	I	S	Nr.	RPM min-max	Art. Nr.		€							
140	15	50	4	2			1	10000	TH20FM01050	●	220,00	600003	350004	502404	600201	500002		
140	15	50	4	2			2	10000	TH20FM02050	●	220,00	600003	350004	502404	600201	500002		
127	12	50	2			2	3	10000	TH20FM03050	●	295,00	600002	350023	502403				500205
155	20	50	4		2		4	10000	TH20FM25050	●	315,00	600004	350005	502402			600766	500205
155	20	50	4		2		5	10000	TH20FM26050	●	315,00	600004	350005	502402			600766	500205
139	15	50	4	2			6	10000	TH20FM06050	●	220,00	600003	350004	502404	600201	500002		
175	15	50	4	2			7	8000	TH20FM07050	●	235,00	600003	350004	502402	600201	500002		500201 600601/02
155	20	50	4		2		8	9000	TH20FM27050		405,00	600004	350005	502404	600201	500002	600766	500205
160	15	50	4	2			9	9000	TH20FM09050		290,00	600003	350004	502402	600201	500002		500201 600601/02
155	20	50	4		2		10	9000	TH20FM28050		405,00	600004	350005	502404			600766	500205
168	20	50	4		2		11	9500	TH20FM11050		405,00	600004	350005	502402			600710	
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160	20	50	4		2		20	9000	TH20FM20050		395,00	600004	350005	502404			600703	500205
160	20	50	4		2		21	9000	TH20FM21050		395,00	600004	350005	502404			600703	500205
175	20	50	4	2			22	8000	TH20FM22050		395,00	601461	350024	502402	600201	500002		
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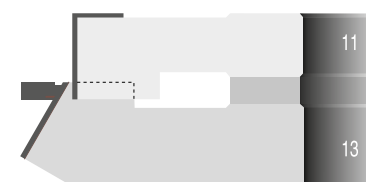
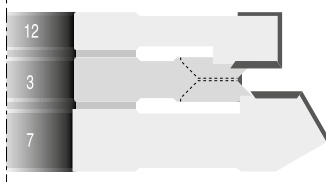
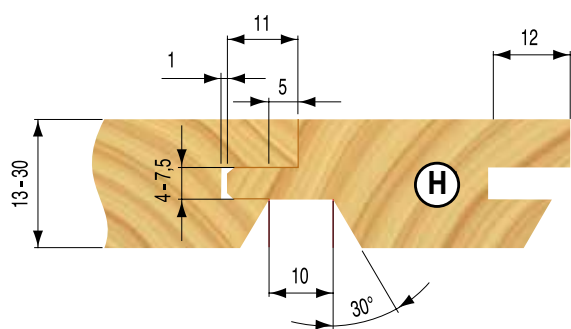
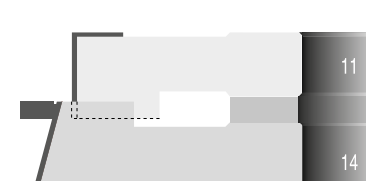
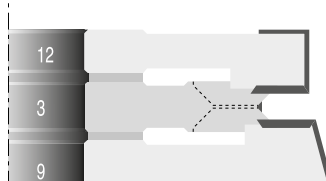
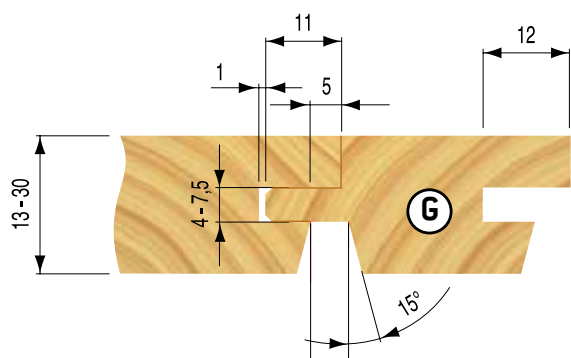
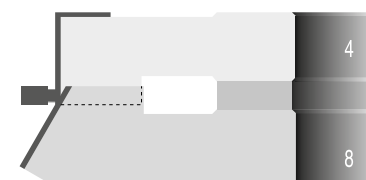
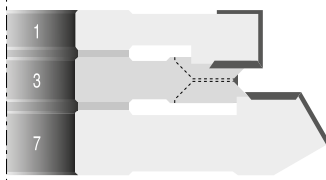
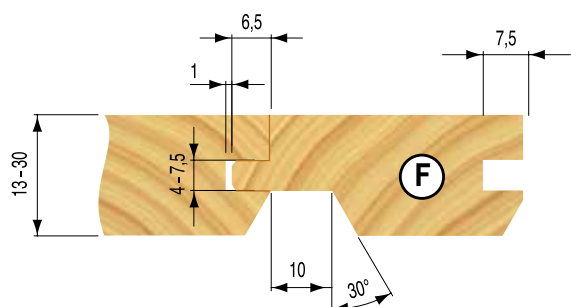
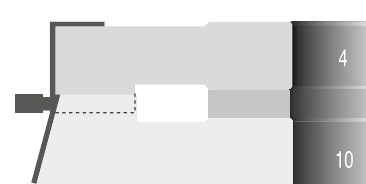
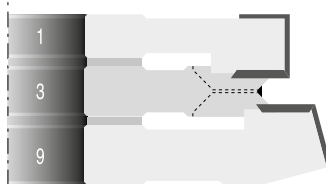
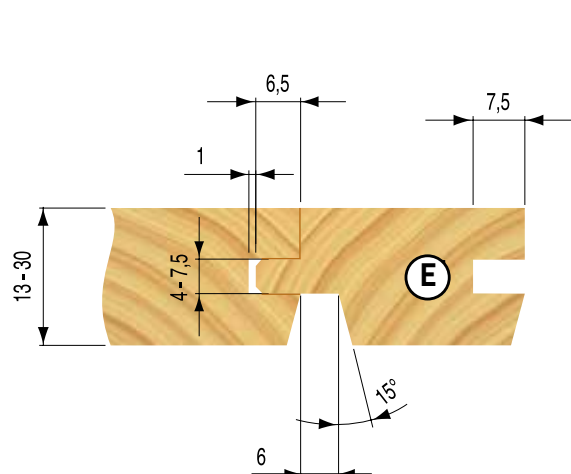
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

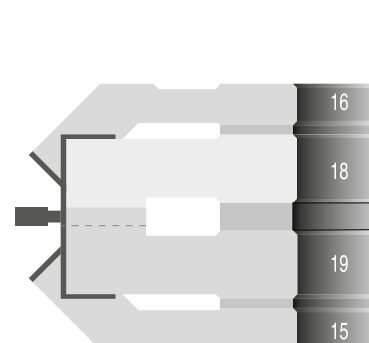
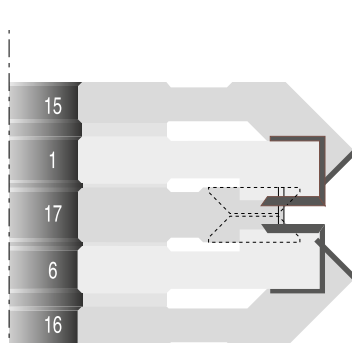
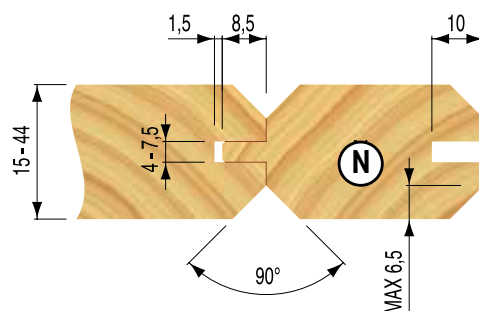
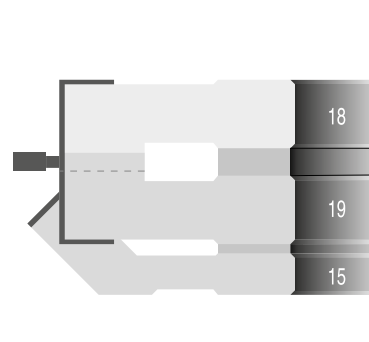
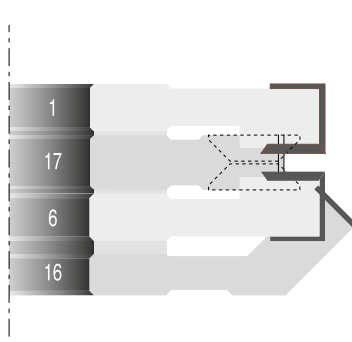
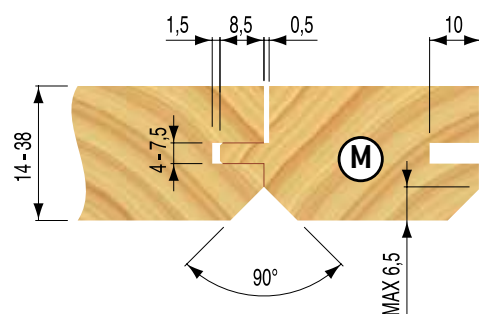
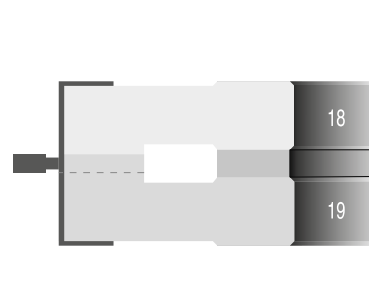
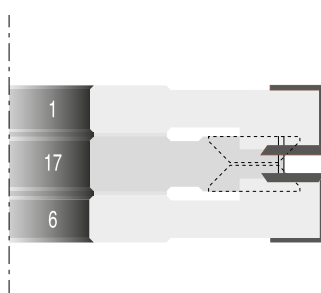
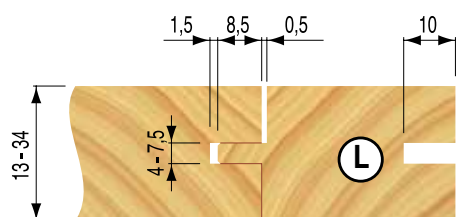
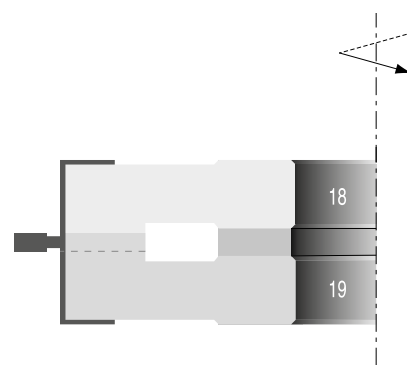
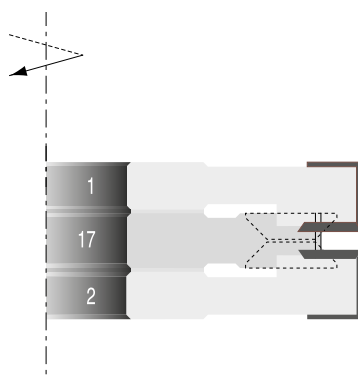
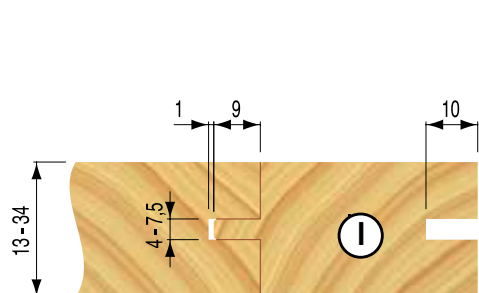
Bussole di accoppiamento / Assembly bushes / Spannbüchsen

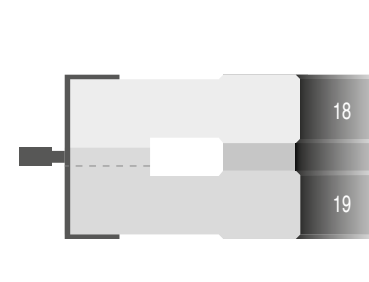
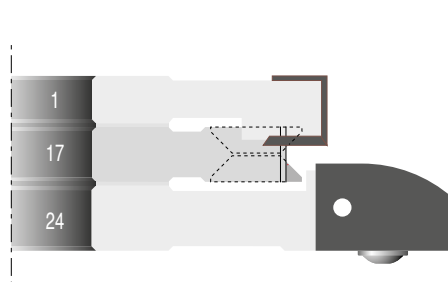
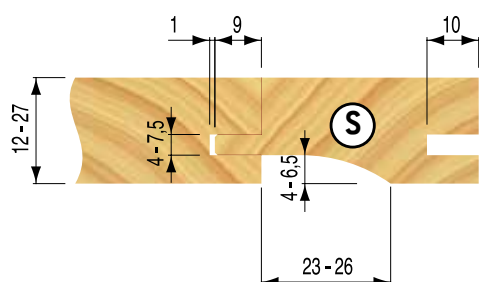
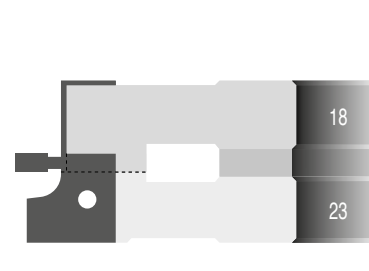
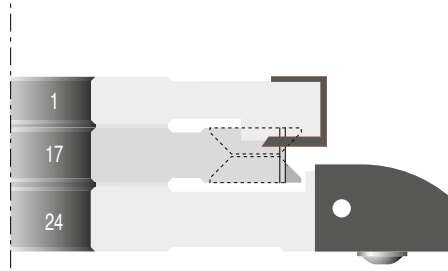
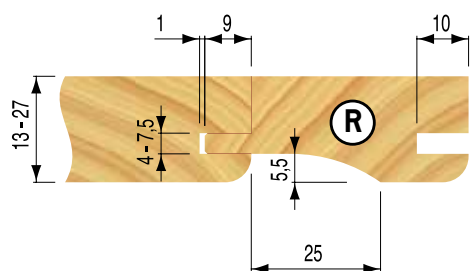
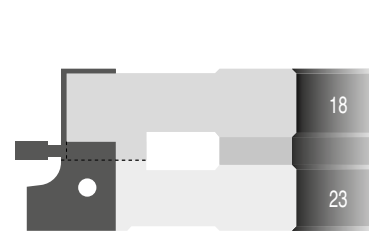
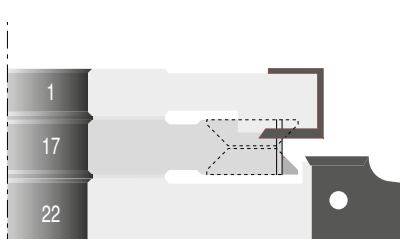
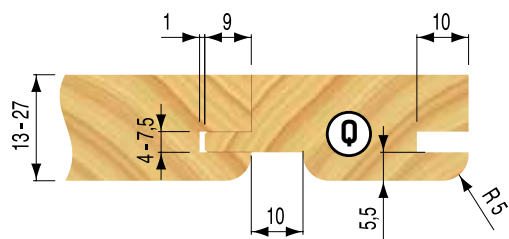
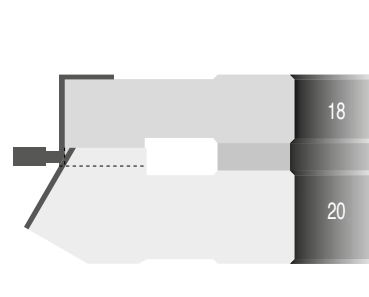
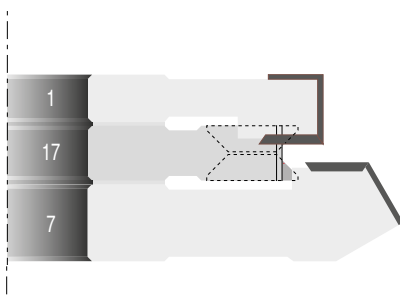
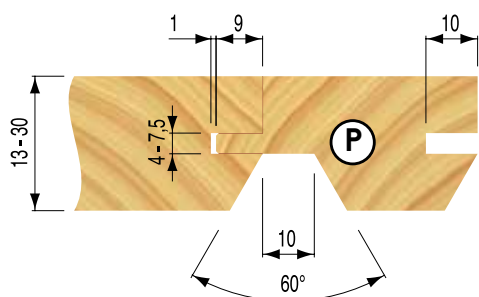
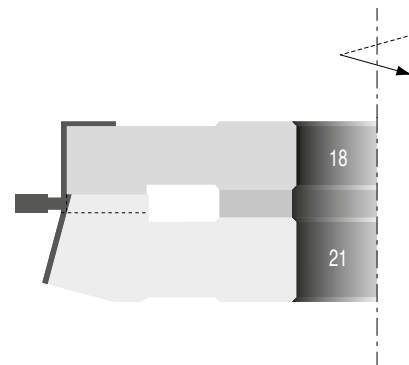
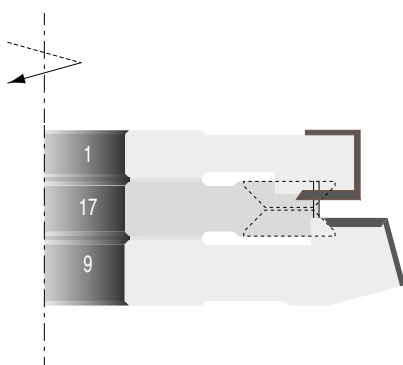
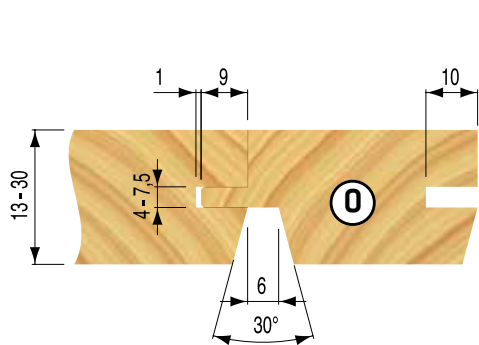
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		50 x 105 x 35	1002050035	185,00
		50 x 105 x 40	1002060040	185,00
sx		50 x 105 x 30	1002140030	185,00
		50 x 105 x 35	1002150035	185,00
		50 x 105 x 40	1002160040	185,00

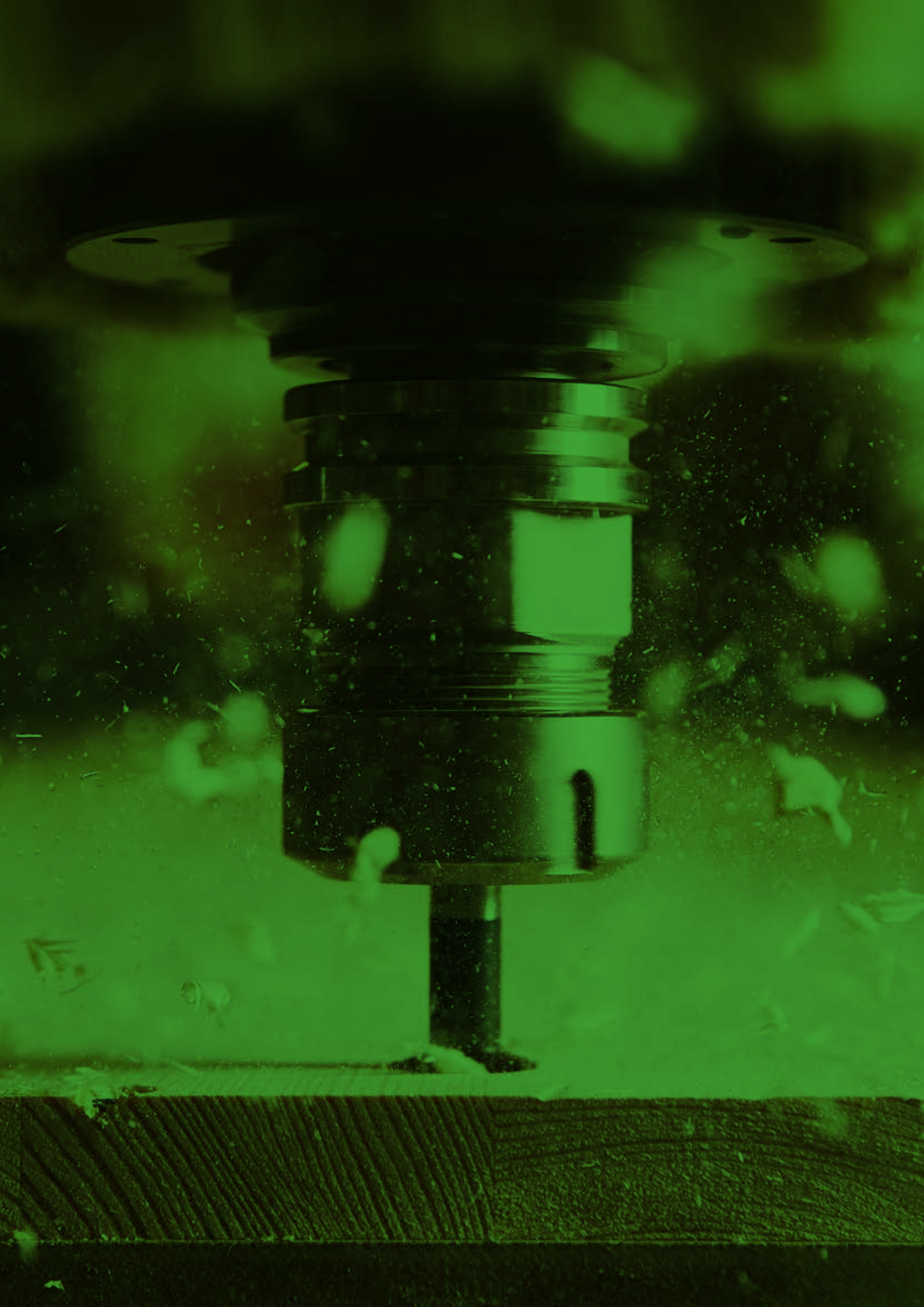














YOUR STORIES, OUR BLADES



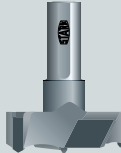
/03

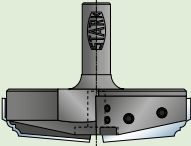
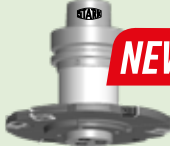
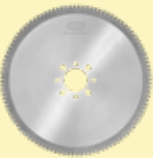
CNC

Utensili per macchine foratrici e pantografi CNC

Tooling line for drilling and CNC machining centers and routers

Werkzeuglinie für Bohr - und CNC Bearbeitungszenter

MANDRINI PRECISION CHUCKS FRÄSDORNE	MN53  p. 106	MN5703  p. 107	MN66  p. 108	P284  p. 108	P285  p. 109
	P286  p. 109	DBM  p. 110	PUNTE ELICOIDALI SOLID ROUTERS SCHAFTFRÄSER		
	P174  p. 113	P177  p. 113	P175  p. 114		
	P178  p. 115	P176  p. 116	P179  p. 117	P276  p. 118	P279  p. 119
	P296  NEW p. 120	P299  NEW p. 121	P290  p. 122	P290 D  p. 123	P288  p. 124
	P288 D  p. 124	PUNTE COMPONIBILI DOWEL DRILLS DÜBELBOHRER			
P151  p. 126	P152  p. 127	P154  p. 128	P161  p. 129	P162  p. 129	P163  p. 130
P281  p. 131	P282  p. 132	PUNTE COLTELLI A GETTARE KNIFE ROUTERS SCHAFTWERKZEUGE		PH71FM  p. 134	PH75FM  p. 135
GH151AAM  NEW p. 136	PH77FM01  p. 137	PH78FM  p. 138	PH79FM  p. 139	PH81FM  p. 140	PH80FM  p. 141
PH82FM  p. 142					

PH84FM01  p. 143	PH88FM  p. 144	PH88FM10  p. 145	PH88FM20  p. 146	PH88FM30  p. 147	PH88FM40  p. 148
PH95FM01  p. 149	GS107BZM  p. 150	GS112AZM  p. 151	GH152-156  p. 152	GH73FS  p. 153	GH23TM  p. 154
	PD13FD  p. 156	PD14FD  p. 157	PD15FD  p. 158	PD16FD  p. 159	PD18FD  p. 160
PD19FD  p. 161	PD42/52FD01  p. 162	PD12/32FD  p. 163	PD20FD  p. 164	PD21FD  p. 165	PD26/27FD  p. 166
PD23FD  p. 167	PD10FD  p. 168	PD11FD  p. 169	PD22FD  p. 170	FD06FD  p. 171	FD07FD  p. 172
TD01FD  p. 173	TD02FD  p. 174	GP27FM  p. 175	FD08FD  p. 176	LD01FD  p. 177	LD02FD  p. 178
LD03FD  p. 179	LD04FD  p. 180	LD05FD  p. 181	PD25FD  p. 182	LD06FD  p. 182	

Legenda dei Simboli / Explanations of Symbols / Legende

MATERIALE / MATERIAL / WERKSTOFF

 LGE Legno Generico Generic wood Holz allgemein	 LTE Legno Tenero Light Wood Weiches Holz	 LDU Legno Duro Hard Wood Hartes Holz
 PCB Truciolare / MDF Particle board / MDF Spanplatte / MDF	 LAM Truciolare / MDF rivestito Coated particle board / MDF Beschichtete Spanplatte / MDF	 HPL HPL / Corian HPL / Corian HPL / Corian

CARATTERISTICHE / FEATURES / EIGENSCHAFTEN

 MAN Manuale Manual Manuell	 MEC Meccanico Mechanic Mechanisch	 HM Coltello in HM HM Knife HM/HW-Messer
 C15 Coltello 1,5 mm 1,5 mm Knife 1,5 mm Messer	 C20 Coltello 2 mm 2 mm Knife 2 mm Messer	 PLANNEX C22 Coltello 2,2 mm 2,2 mm Knife 2,2 mm Messer
 C25 Coltello 2,5 mm 2,5 mm Knife 2,5 mm Messer	 LAL Utensile con lega leggera Light-alloy tool Leichtmetall Werkzeug	 ACC Accessori Accessories Zubehör
 DIA Altezza PCD in mm PCD Height in mm PCD-Höhe in mm	 Z1 Z = 1 Z = 1 Z = 1	 Z2 Z = 2 Z = 2 Z = 2
 Z3 Z = 3 Z = 3 Z = 3	 LOW+ Lama silenziata con intagli riempiti Low noise sawblade filled slots Geräuscharmes Sägeblatt mit gefüllten Schlitzten	 AXI Angolo assiale Axial Angle Axialwinkel
 HSK Attacco HSK HSK Connection Hydraulische Zentrierung	 BOX Cassetta in plastica inclusa Plastic box included Inklusive Kunststoffbox	

OPTIONAL



Cassetta in plastica inclusa
Plastic box included
Inklusive Kunststoffbox

STEEL BODY

SOLID HM BODY

DRILLING TIP **HW**

LIGHT ALLOY BODY

HDM BODY

DRILLING TIP **PCD**

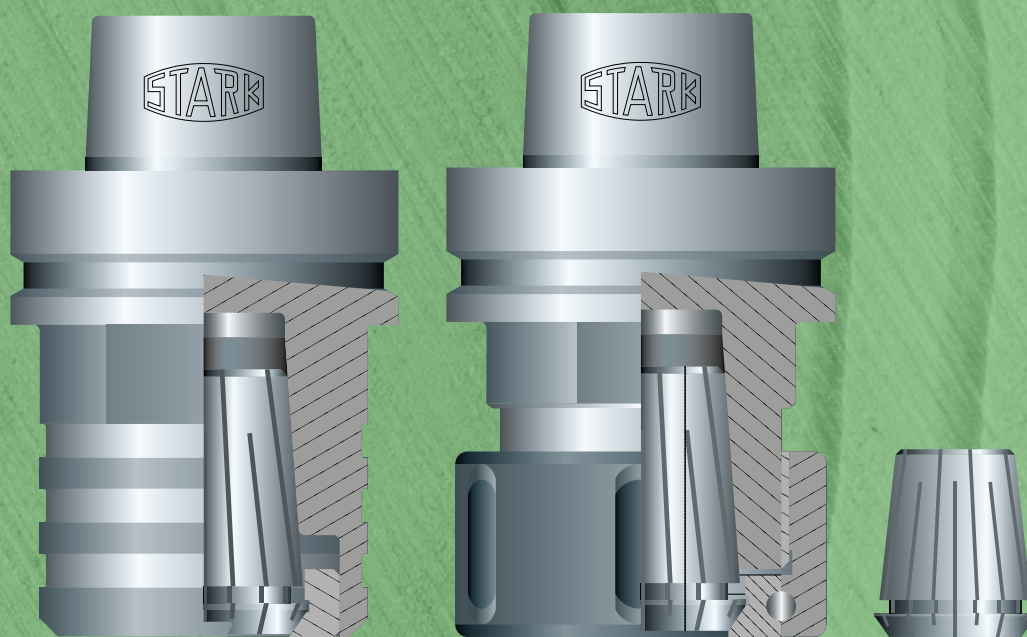
ESEMPI DI IMPIEGO / ROUTER APPLICATION / TECHNISCHE ERLÄUTERUNGEN

 A Rotazione destra, elica destra (Positiva) Right hand rotation, right hand spiral (Positive) Rechtslauf, Rechtsdrall (Positive Spirale)	 B Rotazione destra, elica sinistra (Negativa) Right hand rotation, left hand spiral (Negative) Rechtslauf, Linksdrall (Negative Spirale)	 C Rotazione sinistra, elica sinistra (Positiva) Left hand rotation, left hand spiral (Positive) Linkslauf, Linksdrall (Positive Spirale)
 D Rotazione sinistra, elica destra (Negativa) Left hand rotation, right hand spiral (Negative) Linkslauf, Rechtsdrall (Positive)	 E Rotazione destra, elica a compressione Right hand rotation, compression spiral Rechtslauf, Wechselseitigem Achswinkel	



YOUR STORIES, OUR BLADES

MANDRINI PORTAPINZE PRECISION CHUCKS FRÄSDORNE



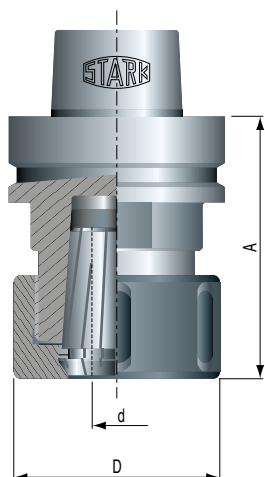
/03 CNC

Mandrini e pinze di precisione per macchine CNC

Precision chucks and spring collets for CNC machining

Präzisionsspannfutter und Federspannzangen für die CNC-Bearbeitung

MANDRINI PORTAPINZA HSK 63F GHIERA DI BLOCCAGGIO SENZA CUSCINETTO PRECISION CHUCKS HSK 63F WITH COLLET NUT W/OUT BALL-BEARING SPANNZANGENFUTTER HSK 63F OHNE KUGELGELAGERTE SPANNMUTTER



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

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

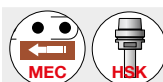
Mit Hohlkegelschaft nach Norm V DIN 69893-6 Form F, passend für Spannzangen nach DIN 6388 A, B, E und DIN 6499. **Technische Daten:** Gehärtet und geschliffen, fein gewuchtet.

MN53						
Ø D [mm]	A [mm]	Ø d [mm]		Art. Nr.		€
50	75	3-20	ER32	MN5327		81,70
63	78	3-26	ER40	MN5329	•	86,00
60	78	2-26	OZ25	MN5331		114,00

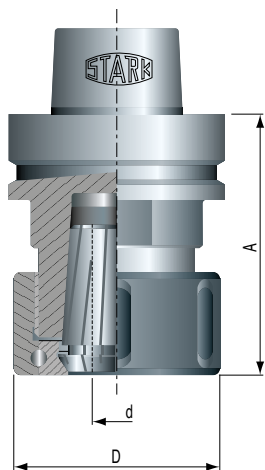
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 5 pz per tipo / Minimum quantity order: 5 pcs/each
Mindest bestellmengen: 5 Stück / pro

Mandrino fornito completo di ghiera / Chuck supplied complete with ring nut
Spannzangenfutter komplett mit Ringmutter geliefert



MANDRINI PORTAPINZA HSK 63F GHIERA DI BLOCCAGGIO CON CUSCINETTO PRECISION CHUCKS HSK 63F WITH BALL-BEARING COLLET NUT SPANNZANGENFUTTER HSK 63F MIT KUGELGELAGERTE SPANNMUTTER



Esecuzione cono V DIN 69893-6 Form F per pinze a norme DIN 6388 A, B, E e DIN 6499.
Corpo e ghiera perfettamente equilibrati. La ghiera con cuscinetto permette una maggior forza di bloccaggio con rotazione destra o sinistra.

Hollow taper shank according to V DIN 69893-6 Form F and suitable for spring collets manufactured according to DIN 6388 A, B, E and DIN 6499. Tool body and collet nut perfectly balanced. Ball bearing collet nut for an increased clamping pressure and improved concentricity. Suitable for both right and left hand rotation.

Mit Hohlkegelschaft nach Norm V DIN 69893-6 Form F, passend für Spannzangen nach DIN 6388 A, B, E und DIN 6499. **Technische Daten:** Gehärtet und geschliffen, fein gewuchtet. Die kugellagerte Spannmutter sorgt für hohe Spannkraft und schont die doppeltgeschlitzten Spannzangen, sowie den Innenkonus des Futters. Auch für Linkslauf lieferbar.

MN53						
Ø D [mm]	A [mm]	Ø d [mm]		Art. Nr.		€
50	75	3-20	ER32	MN5321	•	111,50
63	78	3-26	ER40	MN5323	•	119,50
60	78	2-26	OZ25	MN5325	•	128,50

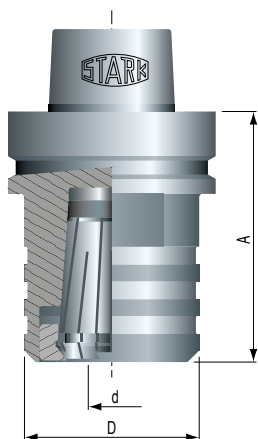
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 5 pz per tipo / Minimum quantity order: 5 pcs/each
Mindest bestellmengen: 5 Stück / pro

Mandrino fornito completo di ghiera con cuscinetto / Chuck supplied complete with ring nut with bearing
Spannzangenfutter komplett mit Ringmutter mit Lager geliefert



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



Pressione laterale
Push side ways
In diese Richtung drücken

Esecuzione cono V DIN 69893-6 Form F per pinze a norme DIN 6388 A, B, E e DIN 6499. Corpo e ghiera perfettamente equilibrati. Utilizzo fino alla velocità di 36.000 g/min con rotazione destra o sinistra.

Hollow taper shank according to V DIN 69893-6 Form F and suitable for spring collets manufactured according to DIN 6388 A, B, E and DIN 6499. Tool body and collet nut perfectly balanced. Suitable for both right and left hand rotation up to 36.000 rpm.

CNC Spannzangenfutter HSK 63F mit innenliegender Spannmutter für Schaftfräser, Oberfräser und Schaftwerkzeuge, für OZ25/462E Spannzangen nach DIN 6388 (Art. P286). Mit Rundlaufgenauigkeiten von 0,005 mm stehen diese Aufnahmen einem Schrumpffutter in nichts nach. Vorteil: zusätzliche Flexibilität durch Aufnahme von Spannzangen unterschiedlicher Durchmesser. Max. Drehzahl 36000 min-1. Bestens geeignet für 5-Achs Anwendungen, z.B. im Treppenbau.

MN5703

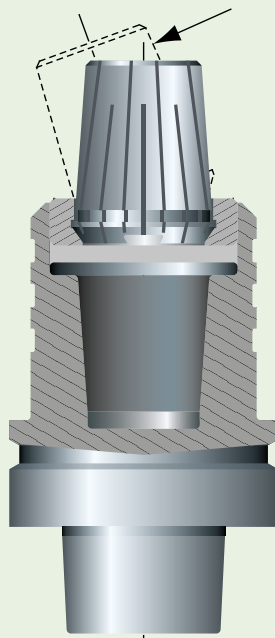
Ø D [mm]	A [mm]	Ø d [mm]		Art. Nr.	€
60	76	2-26	OZ25	MN5703	212,90

Quantità minima d'ordine: 5 pz per tipo / Minimum quantity order: 5 pcs/each

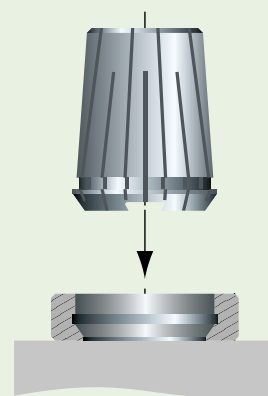
Mindest bestellmengen: 5 Stück / pro

Mandrino fornito completo di ghiera / Chuck supplied complete with ring nut

Spannzangenfutter komplett mit Ringmutter geliefert

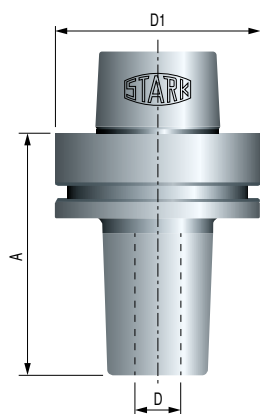


Sistema per sostituzione pinza
Spring collect changing system
Entfernen der Spannzangen



Sistema di inserimento pinza
Spring collect connecting system
Einsetzen der Spannmutter

MANDRINI PORTAPINZA CON CONO HSK-63F PER CALETTAMENTO A CALDO SHRINK FIT CHUCKS HSK 63F THERMO-SCHRUMPFSPANNFUTTER HSK 63F



I mandrini portapinza a calettamento sfruttano la dilatazione termica del cono generata dalla stazione di calettamento, per poterci inserire utensili in HM e HSS. Il successivo raffreddamento mediante l'apposito modulo, riporta il cono alle dimensioni originarie garantendo così una stretta sicura e stabile. Portautensili ad alta precisione grazie alla stretta termica. Le elevate stabilità e rigidità li rendono adatti per lavorazioni particolarmente gravose. Alloggiano utensili con gambi cilindrico tolleranza h6.

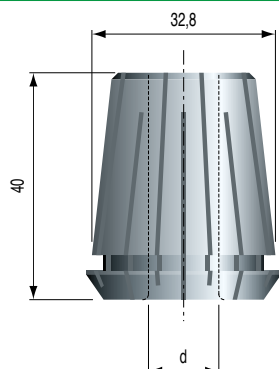
These high precision tool holders ensure high precision thanks to the special tight on the shank tool by thermal clamping. The collet is heated with the special shrink fit unit, causing it to expand. The shank is inserted and the collet is cooled to ambient temperature with the cooling machine. High precision tool holders with thermal induced shrink fit. Suitable for HSS and HM cutting tools and heavy CNC workings due to their high rigidity and high balance.

Diese hochpräzisen Werkzeugträger sorgen für höchste Präzision, dank der speziellen Dichtung am Schaftwerkzeug durch thermisches Spannen. Die Spannzange wird mit der speziellen Schrumpfeinheit erwärmt, wodurch sie sich ausdehnt. Der Schaft wird eingefügt und die Spannzange wird mit der Kühlmaschine auf Umgebungstemperatur abgekühlt. Hochpräzise Thermo-Schrumpfspannfutter, geeignet zur Aufnahme von HSS sowie HW-Werkzeugen im Bereich Hochleistungs-CNC-Bearbeitung durch höchste Steifigkeit und Rundlaufgenauigkeit.

MN66				
Ø D [mm]	A [mm]	Ø d [mm]	Art. Nr.	€
63	76	8	MN6601	215,60
63	76	10	MN6602	215,60
63	76	12	MN6603	215,60
63	76	1/2" (12,7 mm)	MN6604	226,80
63	76	16	MN6605	215,60
63	76	3/4" (19,05 mm)	MN6606	226,80
63	76	20	MN6607	215,60
63	76	25	MN6608	215,60



PINZE DI PRECISIONE ER32 SPRING COLLETS FOR PRECISION CHUCKS ER32 PRÄZISIONS - SPANNZANGEN ER32



Abbinabile a mandrini / To use with chucks / Zur verwendung an spannfuttern **MN5321 - MN5327**

P284 - DIN 6499					
Ø D [mm]	Ø d [mm]	Type	Art. Nr.		€
4	(4 - 3)	470E / ER32	P28404		11,80
6	(6 - 5)	470E / ER32	P28406		11,80
7	(7 - 6,35 - 6)	470E / ER32	P28407		11,80
8	(8 - 7)	470E / ER32	P28408		11,80
10	(10 - 9,52 - 9)	470E / ER32	P28410	•	11,80
12	(12 - 11)	470E / ER32	P28412	•	11,80
13	(13 - 12,7 - 12)	470E / ER32	P28413	•	11,80
14	(14 - 13)	470E / ER32	P28414		11,80
16	(16 - 15)	470E / ER32	P28416	•	11,80
18	(18 - 17)	470E / ER32	P28418		11,80
20	(20 - 19)	470E / ER32	P28420	•	11,80

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

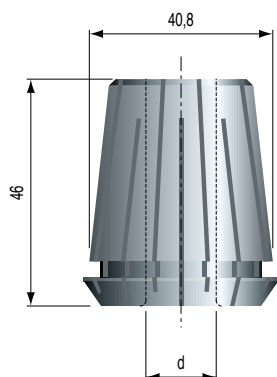
Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each
Mindest bestellmengen: 10 Stück / pro



PINZE DI PRECISIONE ER40

SPRING COLLETS FOR PRECISION CHUCKS ER40

PRÄZISIONS - SPANNZANGEN ER40



Abbinabile a mandrini / To use with chucks / Zur verwendung an spannfuttern MN5323 - MN5329

P285 - DIN 6499

Ø D [mm]	Ø d [mm]	Type	Art. Nr.	€
4	(4 - 3)	472E / ER40	P28504	14,70
6	(6 - 5)	472E / ER40	P28506	14,70
7	(7 - 6,35 - 6)	472E / ER40	P28507	14,70
8	(8 - 7)	472E / ER40	P28508	14,70
10	(10 - 9,52 - 9)	472E / ER40	P28510	14,70
12	(12 - 11)	472E / ER40	P28512	14,70
13	(13 - 12,7 - 12)	472E / ER40	P28513	14,70
14	(14 - 13)	472E / ER40	P28514	14,70
16	(16 - 15)	472E / ER40	P28516	14,70
18	(18 - 17)	472E / ER40	P28518	14,70
20	(20 - 19)	472E / ER40	P28520	14,70
25	(25 - 24)	472E / ER40	P28525	14,70
26	(26 - 25)	472E / ER40	P28526	14,70

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each

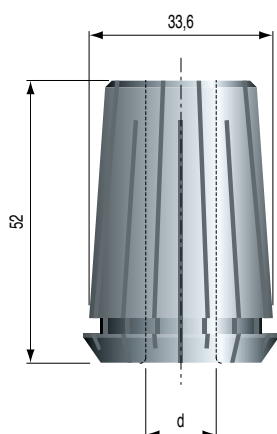
Mindest bestellmengen: 10 stück / pro



PINZE DI PRECISIONE OZ25

SPRING COLLETS FOR PRECISION CHUCKS OZ25

PRÄZISIONS - SPANNZANGEN OZ25



Abbinabile a mandrini / To use with chucks / Zur verwendung an spannfuttern MN5325 - MN5331 - MN5703

P286 - DIN 6388

Ø D [mm]	Ø d [mm]	Type	Art. Nr.	€
3	(3 - 2)	462E / OZ25	P28603	15,90
4	(4 - 3)	462E / OZ25	P28604	15,90
6	(6 - 5)	462E / OZ25	P28606	15,90
7	(7 - 6,35 - 6)	462E / OZ25	P28607	15,90
8	(8 - 7)	462E / OZ25	P28608	15,90
10	(10 - 9,52 - 9)	462E / OZ25	P28610	15,90
12	(12 - 11)	462E / OZ25	P28612	15,90
13	(13 - 12,7 - 12)	462E / OZ25	P28613	15,90
14	(14 - 13)	462E / OZ25	P28614	15,90
16	(16 - 15)	462E / OZ25	P28616	15,90
18	(18 - 17)	462E / OZ25	P28618	15,90
20	(20 - 19)	462E / OZ25	P28620	15,90
25	(25 - 24)	462E / OZ25	P28625	15,90

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each

Mindest bestellmengen: 10 stück / pro



DISPOSITIVO BLOCCAGGIO MANDRINI CHUCKS MOUNTING DEVICE MONTAGEVORRICHTUNG

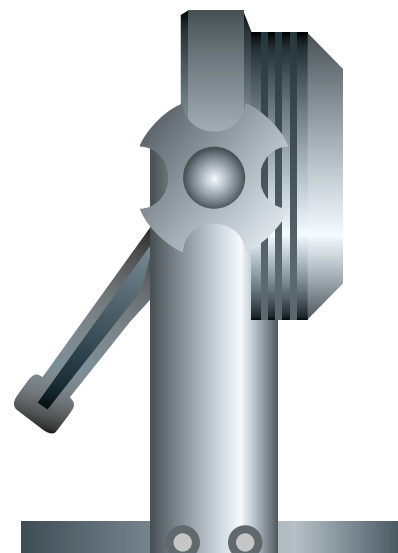
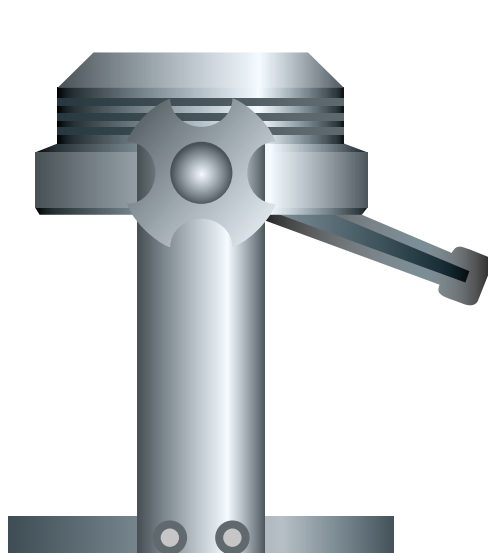


Dispositivo per il bloccaggio di mandrini portafrese e portapinzette.

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

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

DBM			
Ø D [mm]	Type	Art. Nr.	€
50	ISO 30	DBMISO30	230,40
58	ISO 30	DBMISO30E	374,40
63,5	ISO 40	DBMISO40	374,40
63	HSK 63F	DBMHSKF63	240,00





YOUR STORIES, OUR BLADES

PUNTE ELICOIDALI IN HM SOLID HM ROUTERS VHW SCHAFTFRÄSER



/03 CNC

Punte a forare per lavorazioni su CNC

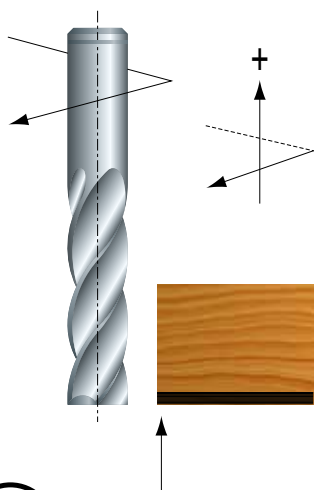
Solid HM Routers for CNC machining

Linie von Bohrern für die CNC-Bearbeitung

ROTAZIONE DESTRA,
ELICA DESTRA (POSITIVA)
Espulsione del truciolo verso l'alto
= buona finitura sotto

RIGHT HAND ROTATION,
RIGHT HAND SPIRAL (POSITIVE)
Upward chip ejection
= good finish below

RECHTSLAUF, RECHTSDRALL
(POSITIVE SPIRALE)
Spanauswurf nach oben
= Feine Seite unten

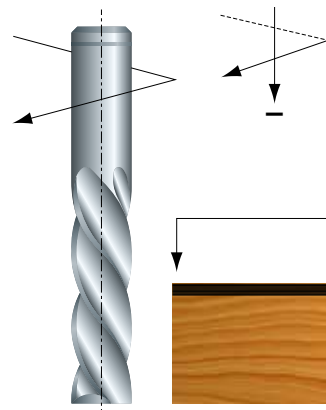


A

ROTAZIONE DESTRA,
ELICA SINISTRA (NEGATIVA)
Espulsione del truciolo verso il basso
= buona finitura sopra

RIGHT HAND ROTATION,
LEFT HAND SPIRAL (NEGATIVE)
Downward chip ejection
= good finish above

RECHTSLAUF, LINKSDRALL
(NEGATIVE SPIRALE)
Spanauswurf nach unten
= Feine Seite oben

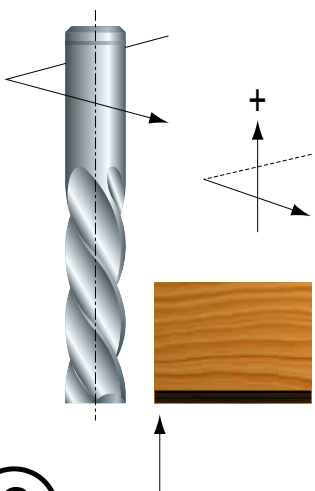


B

ROTAZIONE SINISTRA,
ELICA SINISTRA (POSITIVA)
Espulsione del truciolo verso l'alto
= buona finitura sotto

LEFT HAND ROTATION,
LEFT HAND SPIRAL (POSITIVE)
Upward chip ejection
= good finish below

LINKSLAUF, LINKSDRALL
(POSITIVE SPIRALE)
Spanauswurf nach oben
= Feine Seite unten

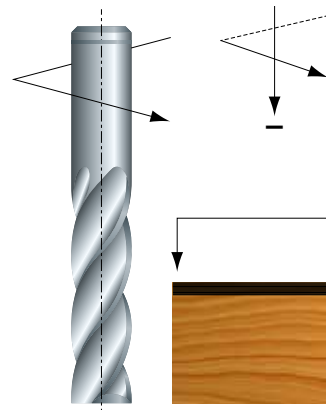


C

ROTAZIONE SINISTRA,
ELICA DESTRA (NEGATIVA)
Espulsione del truciolo verso il basso
= buona finitura sopra

LEFT HAND ROTATION,
RIGHT HAND SPIRAL (NEGATIVE)
Downward chip ejection
= good finish above

LINKSLAUF, RECHTSDRALL
(POSITIVE)
Spanauswurf nach unten
= Feine Seite oben

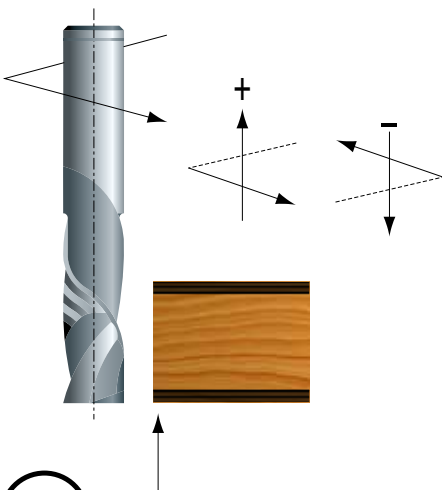


D

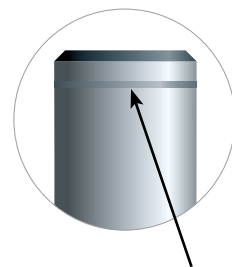
ROTAZIONE DESTRA,
ELICA A COMPRESSIONE
Doppia elica a compressione
= buona finitura su entrambi i lati

RIGHT HAND ROTATION,
COMPRESSION SPIRAL
Double compression spiral
= good finish on both sides

RECHTSLAUF, WECHSELSEITIGEM
ACHSWINKEL
Doppelhelix
= Feine auf beiden Seiten



E

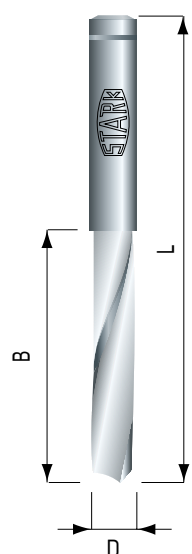


Sede anello Seeger a partire
dal diametro 12 mm

Seeger ring seat starting
from diameter 12 mm.

Seeger ringsitz ab
durchmesser 12 mm.

PUNTE ELICOIDALI IN HM INTEGRALE - ELICA DESTRA SOLID HM ROUTERS WITH RIGHT HAND SPIRAL VHW SPIRALSCHLICHTFRÄSER MIT RECHTSDRALL



SOLID HM BODY



IMPIEGO: Lavori di foratura e contornatura.

USE: For boring and routing operations.

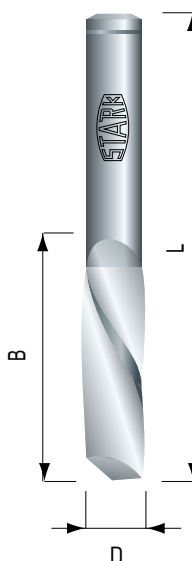
ANWENDUNG: Zum Bohren und Fräsen.

P174

Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
3	12	50	1	P174RM0312	14,00
4	15	50	1	P174RM0415	14,80
5	17	50	1	P174RM0517	16,00
5	22	60	1	P174RM0522	18,20
6	22	60	1	P174RM0622	21,10
8	22	63	1	P174RM0822	27,50
8	32	80	1	P174RM0832	32,20
10	32	80	1	P174RM1032	40,20
10	42	100	1	P174RM1042	47,20
12	32	80	1	P174RM1232	53,40
12	42	100	1	P174RM1242	61,40
3,18	12,7	50,8	1	P174RM318127	13,80
4,76	15,87	50,8	1	P174RM476158	15,90
6,35	19,05	50,8	1	P174RM635190	20,60
6,35	25,4	63,5	1	P174RM635254	23,80
9,52	28,57	76,2	1	P174RM952285	37,50



PUNTE ELICOIDALI IN HM INTEGRALE - ELICA SINISTRA SOLID HM ROUTERS WITH LEFT HAND SPIRAL VHW SPIRALSCHLICHTFRÄSER MIT LINKSDRALL



SOLID HM BODY



IMPIEGO: Lavori di foratura e contornatura.

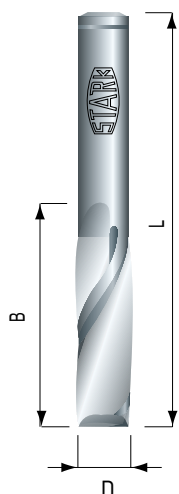
USE: For boring and routing operations.

ANWENDUNG: Zum Bohren und Fräsen.

P177

Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
3	12	50	1	P177RM0312	14,00
4	15	50	1	P177RM0415	14,00
5	17	50	1	P177RM0517	14,00
5	22	60	1	P177RM0522	14,00
6	22	60	1	P177RM0622	14,00
8	22	63	1	P177RM0822	14,00
8	32	80	1	P177RM0832	14,00
10	32	80	1	P177RM1032	14,00
10	42	100	1	P177RM1042	14,00
12	32	80	1	P177RM1232	14,00
3,18	12,7	50,8	1	P177RM318127	14,00
4,76	15,87	50,8	1	P177RM476158	14,00
6,35	19,05	50,8	1	P177RM635190	14,00
6,35	25,4	63,5	1	P177RM635254	14,00
9,52	28,57	76,2	1	P177RM952285	14,00





SOLID HM BODY



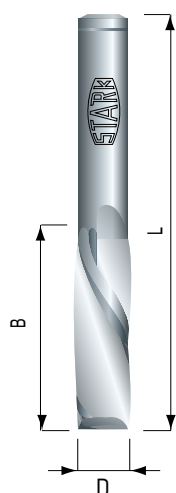
IMPIEGO: Lavori di foratura e contornatura con alto grado di finitura.

USE: For boring and routing operations with high quality finish.

ANWENDUNG: Zum Bohren und Fräsen mit ausgezeichneter Schnittqualität.

P175						
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX		€
3	12	50	2	P175RM0312		15,60
4	15	50	2	P175RM0415		16,20
5	17	50	2	P175RM0517		17,40
6	22	60	2	P175RM0622		20,90
6	27	60	2	P175RM0627	•	22,70
8	22	63	2	P175RM0822		27,00
8	32	80	2	P175RM0832	•	32,60
8	42	100	2	P175RM0842		37,50
10	32	80	2	P175RM1032		41,10
10	42	100	2	P175RM1042	•	47,70
10	52	100	2	P175RM1052		50,90
12	32	80	2	P175RM1232		53,90
12	42	100	2	P175RM1242		61,40
12	52	100	2	P175RM1252	•	65,10
14	32	100	2	P175RM1432		78,20
14	42	100	2	P175RM1442		78,90
14	52	100	2	P175RM1452		83,50
16	42	100	2	P175RM1642		97,30
16	52	100	2	P175RM1652		102,60
18	52	100	2	P175RM1852		180,70
3,18	12,7	50,8	2	P175RM318127		24,20
3,97	12,7	50,8	2	P175RM397127		24,20
4,76	19,05	50,8	2	P175RM476190		24,20
6,35	19,05	50,8	2	P175RM635190		20,30
6,35	25,4	63,5	2	P175RM635254		23,80
7,94	25,4	76,2	2	P175RM794254		55,30
9,52	31,75	76,2	2	P175RM952317		61,60
12,7	31,75	76,2	2	P175RM127317		54,00
12,7	38,1	88,9	2	P175RM127381		60,10
12,7	50,8	101,6	2	P175RM127508		69,40

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SOLID HM BODY



IMPIEGO: Lavori di foratura e contornatura con alto grado di finitura.

USE: For boring and routing operations with high quality finish.

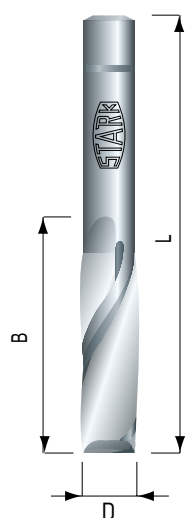
ANWENDUNG: Zum Bohren und Fräsen mit ausgezeichneter Schnittqualität.

P178					
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr.  DX	€
3	12	50	2	P178RM0312	15,60
4	15	50	2	P178RM0415	16,20
5	17	50	2	P178RM0517	17,40
6	22	60	2	P178RM0622	20,90
6	27	60	2	P178RM0627	22,70
8	22	63	2	P178RM0822	27,00
8	32	80	2	P178RM0832	32,60
10	32	80	2	P178RM1032	41,10
10	42	100	2	P178RM1042	47,70
10	52	100	2	P178RM1052	50,90
12	32	80	2	P178RM1232	53,90
12	42	100	2	P178RM1242	61,40
12	52	100	2	P178RM1252	65,10
14	32	100	2	P178RM1432	78,20
14	42	100	2	P178RM1442	78,90
14	52	100	2	P178RM1452	83,50
16	42	100	2	P178RM1642	97,30
16	52	100	2	P178RM1652	102,60
16	62	106	2	P178RM1662	113,50
3,18	12,7	50,8	2	P178RM318127	24,20
3,97	12,7	50,8	2	P178RM397127	24,20
4,76	19,05	50,8	2	P178RM476190	24,20
6,35	19,05	50,8	2	P178RM635190	20,30
6,35	25,4	63,5	2	P178RM635254	23,80
7,94	25,4	76,2	2	P178RM794254	55,10
9,52	31,75	76,2	2	P178RM952317	61,40
12,7	31,75	76,2	2	P178RM127317	53,80
12,7	38,1	88,9	2	P178RM127381	59,90
12,7	50,8	101,6	2	P178RM127508	69,10

PUNTE ELICOIDALI IN HM INTEGRALE - ELICA DESTRA

SOLID HM ROUTERS WITH RIGHT HAND SPIRAL

VHW SPIRALSCHLICHTFRÄSER MIT RECHTSDRALL



SOLID HM BODY



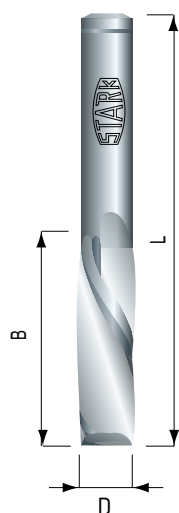
IMPIEGO: Lavori di foratura e contornatura con alto grado di finitura.

USE: For boring and routing operations with high quality finish.

ANWENDUNG: Zum Bohren und Fräsen mit ausgezeichneter Schnittqualität.

P176						
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX		€
8	22	63	3	P176RM0822		28,40
8	32	80	3	P176RM0832	•	33,50
8	42	100	3	P176RM0842		39,30
10	32	80	3	P176RM1032		43,10
10	42	100	3	P176RM1042		49,60
10	52	100	3	P176RM1052		53,40
12	32	80	3	P176RM1232		56,00
12	42	100	3	P176RM1242	•	63,40
12	52	100	3	P176RM1252	•	67,60
14	32	80	3	P176RM1432		71,20
14	42	100	3	P176RM1442		81,50
14	52	100	3	P176RM1452		86,50
16	42	100	3	P176RM1642		100,50
16	52	100	3	P176RM1652	•	106,40
16	62	106	3	P176RM1662		119,90
18	52	100	3	P176RM1852		134,00
18	72	120	3	P176RM1872		152,20
20	52	100	3	P176RM2052		157,50
20	72	120	3	P176RM2072	•	190,10
20	102	150	3	P176RM20102		238,90

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SOLID HM BODY

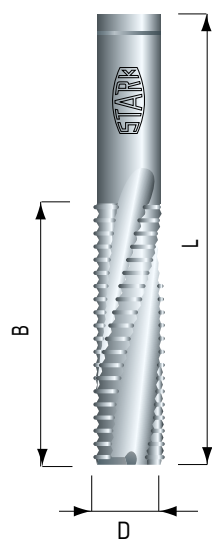


IMPIEGO: Lavori di foratura e contornatura con alto grado di finitura.

USE: For boring and routing operations with high quality finish.

ANWENDUNG: Zum Bohren und Fräsen mit ausgezeichneter Schnittqualität.

P179					
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
8	22	63	3	P179RM0822	28,40
8	32	80	3	P179RM0832	34,20
8	42	100	3	P179RM0842	39,30
10	32	80	3	P179RM1032	43,10
10	42	100	3	P179RM1042	49,60
10	52	100	3	P179RM1052	53,40
12	32	80	3	P179RM1232	56,00
12	42	100	3	P179RM1242	63,40
12	52	100	3	P179RM1252	67,60
14	32	80	3	P179RM1432	71,20
14	42	100	3	P179RM1442	81,50
14	52	100	3	P179RM1452	86,50
16	42	100	3	P179RM1642	100,50
16	52	100	3	P179RM1652	106,40
16	62	106	3	P179RM1662	119,90
18	52	100	3	P179RM1852	134,00
18	72	120	3	P179RM1872	152,20
20	52	100	3	P179RM2052	157,50
20	72	120	3	P179RM2072	190,10
20	102	150	3	P179RM20102	235,80



SOLID HM BODY



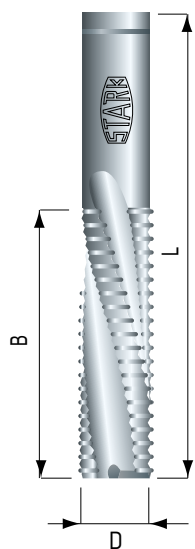
IMPIEGO: Punta studiata per lavorazioni di sgrossatura.

USE: Router developed for roughing operations.

ANWENDUNG: Fräser entwickelt für grober Vorzerspannung.

P276						
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr.  DX		€
8	22	60	3	P276RM0822		28,80
8	32	70	3	P276RM0832	•	32,30
10	25	65	3	P276RM1025		37,80
10	32	70	3	P276RM1032		41,40
10	42	90	3	P276RM1042	•	47,90
10	52	100	3	P276RM1052	•	54,60
12	32	80	3	P276RM1232		57,20
12	42	90	3	P276RM1242	•	60,30
12	52	100	3	P276RM1252	•	69,10
14	42	100	3	P276RM1442		82,80
14	52	110	3	P276RM1452		93,50
16	42	100	3	P276RM1642		102,10
16	52	110	3	P276RM1652	•	115,00
18	52	110	3	P276RM1852		144,60
18	62	120	3	P276RM1862		155,30
20	52	110	3	P276RM2052	•	170,50
20	62	120	3	P276RM2062		183,80
20	72	130	3	P276RM2072	•	203,50
20	102	150	3	P276RM20102		240,10
12,7	38,1	88,9	3	P276RM127381		63,70

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SOLID HM BODY

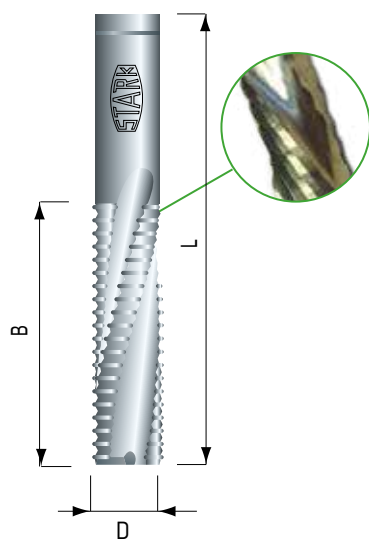


IMPIEGO: Punta studiata per lavorazioni di sgrossatura.

USE: Router developed for roughing operations.

ANWENDUNG: Fräser entwickelt für grober Vorzerspannung.

P279					
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
8	22	60	3	P279RM0822	28,80
8	32	70	3	P279RM0832	32,30
10	25	70	3	P279RM1025	38,80
10	32	80	3	P279RM1032	44,00
10	42	90	3	P279RM1042	47,90
12	32	90	3	P279RM1232	59,50
12	42	100	3	P279RM1242	64,60
12	52	110	3	P279RM1252	72,90
14	42	100	3	P279RM1442	82,80
14	52	110	3	P279RM1452	93,50
16	42	110	3	P279RM1642	108,70
16	52	120	3	P279RM1652	121,50
18	52	120	3	P279RM1852	151,70
18	62	130	3	P279RM1862	164,10
20	52	120	3	P279RM2052	180,40
20	62	130	3	P279RM2062	193,70
20	72	140	3	P279RM2072	212,00
20	102	150	3	P279RM2102	240,10
12,7	38,1	88,9	3	P279RM127381	63,80



SOLID HM BODY



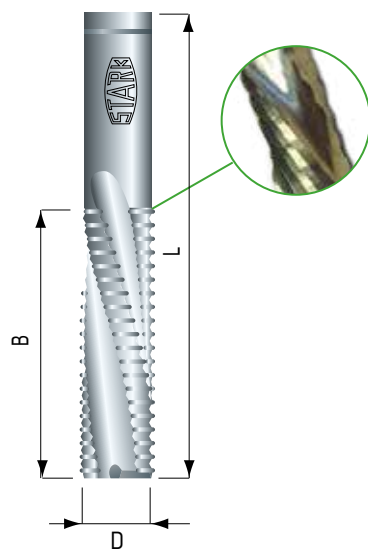
IMPIEGO: Punta studiata per lavori di buona finitura con alta asportazione di materiale.

USE: Designed for good finishing work with high removal cutting.

ANWENDUNG: Konzipiert für gute Endbearbeitung mit hohem Materialabtrag.

P296

Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
8	22	60	3	P296RM0822	48,90
8	32	70	3	P296RM0832	55,90
10	32	70	3	P296RM1032	68,10
10	42	90	3	P296RM1042	77,40
10	52	100	3	P296RM1052	92,20
12	32	80	3	P296RM1232	89,10
12	42	90	3	P296RM1242	96,80
12	52	100	3	P296RM1252	111,90
14	42	100	3	P296RM1442	120,30
14	52	110	3	P296RM1452	126,50
16	42	100	3	P296RM1642	146,70
16	52	110	3	P296RM1652	156,00
18	52	110	3	P296RM1852	184,20
18	72	120	3	P296RM1872	213,70
20	52	110	3	P296RM2052	222,00
20	72	130	3	P296RM2072	288,10
20	102	150	3	P296RM20102	322,20



SOLID HM BODY



IMPIEGO: Punta studiata per lavori di buona finitura con alta asportazione di materiale.

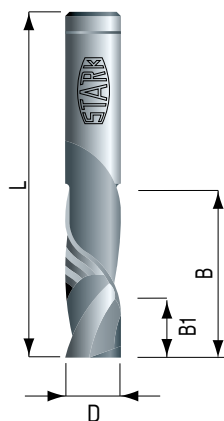
USE: Designed for good finishing work with high removal cutting.

ANWENDUNG: Konzipiert für gute Endbearbeitung mit hohem Materialabtrag.

P299

Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
8	22	60	3	P299RM0822	51,30
8	32	70	3	P299RM0832	58,70
10	32	80	3	P299RM1032	71,40
10	42	90	3	P299RM1042	81,30
10	52	90	3	P299RM1052	96,80
12	32	90	3	P299RM1232	93,50
12	42	100	3	P299RM1242	101,60
12	52	110	3	P299RM1252	117,60
14	42	100	3	P299RM1442	126,30
14	52	110	3	P299RM1452	132,70
16	42	110	3	P299RM1642	154,00
16	52	120	3	P299RM1652	171,50
18	52	120	3	P299RM1852	202,60
18	72	130	3	P299RM1872	235,10
20	52	120	3	P299RM2052	244,20
20	72	140	3	P299RM2072	315,60
20	102	150	3	P299RM20102	354,30

HM FRESA UP-DOWN INTEGRALE ELICOIDALE HM SOLID CARBIDE COMPRESSION SPIRAL ROUTERS VHW VOLLHARTMETALLFRÄSER



SOLID HM BODY

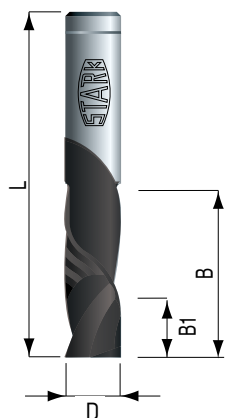
IMPIEGO: Contornatura con buona finitura sui piani superiore ed inferiore.

USE: Routing with good finishing on both top and bottom panel sides.

ANWENDUNG: Besonders geeignet für gute Oberflächengüte und ausrissfreie Kanten.

P290						
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX		€
8	22	80	2+2	P290RM0822		34,80
8	32	80	2+2	P290RM0832	•	37,90
10	32	80	2+2	P290RM1032	•	49,40
10	42	100	2+2	P290RM1042		58,00
12	22	73	2+2	P290RM1222		57,60
12	32	80	2+2	P290RM1232	•	64,60
12	42	100	2+2	P290RM1242	•	74,50
12	52	110	2+2	P290RM1252	•	81,50
14	42	100	2+2	P290RM1442		89,50
14	52	100	2+2	P290RM1452		92,70
16	42	100	2+2	P290RM1642		107,10
16	52	100	2+2	P290RM1652	•	110,20
6,35	22,2	63,5	2+2	P290RM635222		27,70
9,52	28,6	76,2	2+2	P290RM952286		46,60
12,7	25,4	76,2	2+2	P290RM127254		61,60
12,7	28,6	88,9	2+2	P290RM127286		70,10
12,7	34,9	101,6	2+2	P290RM1273492		78,80
9,52	25,4	76,2	3+3	P290RM952254		54,50
12,7	22,2	76,2	3+3	P290RM127222		72,70
12,7	34,9	88,9	3+3	P290RM1273493		82,70

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SOLID HM BODY

EXTRA DURABLE
www.starktools.com

IMPIEGO: Punta con rivestimento PVD dedicato EXTRA-DURABLE, per massimizzare vita utile e parametri di utilizzo. Contornatura con alto grado di finitura su entrambi i lati.

USE: PVD dedicated coating EXTRA-DURABLE, for maximization of lifetime and working parameters. Routing with good finishing on both top and bottom panel sides.

ANWENDUNG: PVD-Beschichtung EXTRA-DURABLE, zur Maximierung der Lebensdauer und der Arbeitsparameter. Fräsapplikation mit hohe Oberflächengüte auf beiden Seiten.

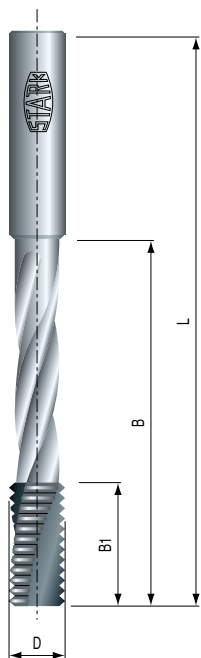
P290 EXTRA-DURABLE					
Ø D [mm]	B [mm]	L [mm]	Z	Art. Nr. DX	€
8	22	80	2+2	P290RM0822X	50,80
8	32	80	2+2	P290RM0832X	54,20
10	32	80	2+2	P290RM1032X	69,30
12	22	73	2+2	P290RM1222X	79,10
12	32	80	2+2	P290RM1232X	86,90
6,35	22,2	63,5	2+2	P290RM63522X	42,70
9,52	28,6	76,2	2+2	P290RM95228X	66,20
12,7	25,4	76,2	2+2	P290RM12725X	83,60
12,7	28,6	88,9	2+2	P290RM12728X	93,10
12,7	34,9	101,6	2+2	P290RM12734X2	104,50
9,52	25,4	76,2	3+3	P290RM95225X	74,80
12,7	22,2	76,2	3+3	P290RM12722X	95,80
12,7	34,9	88,9	3+3	P290RM12734X3	108,90

Quantità minima d'ordine: 5 pezzi per tipo.

Minimum quantity order: 5 pieces / each.

Mindest bestellmengen: 5 stück / pro.

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



SOLID HM BODY

IMPIEGO: Esecuzione sedi per le serrature delle porte.

USE: Router developed for cutting the lock-cases and the face-plates in the doors.

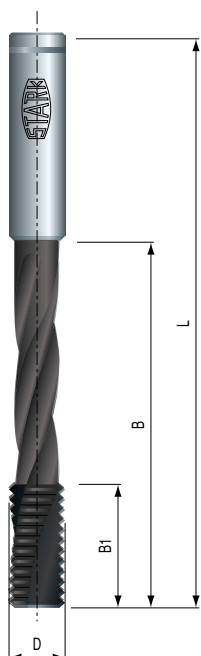
ANWENDUNG: Zur Herstellung von Schlosskastenausfräsungen. Bei stufenweiser Zustellung.

P288					
Ø D [mm]	B [mm]	L [mm]	Shank	Art. Nr.	€
14	50	150	14X50	P288RM14150	134,50
14	50	170	14X50	P288RM14170	148,50
16	50	150	16X50	P288RM16150	161,80
16	50	170	16X50	P288RM16170	176,80
18	50	150	18X50	P288RM18150	191,70
18	50	170	18X50	P288RM18170	212,90

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



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



SOLID HM BODY

IMPIEGO: Punta con rivestimento PVD dedicato EXTRA-DURABLE, per massimizzare vita utile e parametri di utilizzo. Contornatura con alto grado di finitura su entrambi i lati.

USE: PVD dedicated coating EXTRA-DURABLE, for maximization of lifetime and working parameters. Routing with good finishing on both top and bottom panel sides.

ANWENDUNG: PVD-Beschichtung EXTRA-DURABLE, zur Maximierung der Lebensdauer und der Arbeitsparameter. Fräsapplikation mit hohe Oberflächengüte auf beiden Seiten.

P288 EXTRA-DURABLE					
Ø D [mm]	B [mm]	L [mm]	Shank	Art. Nr.	€
14	50	150	14X50	P288RM14150X	178,20
14	50	170	14X50	P288RM14170X	194,90
16	50	150	16X50	P288RM16150X	210,30
16	50	170	16X50	P288RM16170X	230,10

Quantità minima d'ordine: 2 pezzi per tipo. / Minimum quantity order: 2 pieces / each.
Mindest bestellmengen: 2 Stück / pro.

EXTRA DURABLE
www.starktools.com





YOUR STORIES, OUR BLADES

PUNTE COMPONIBILI E PUNTE PER CERNIERE DOWEL DRILLS AND HINGE BORING BITS DÜBELBOHRER UND BESCHLAGBOHRER



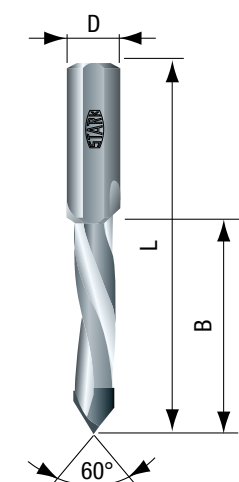
/03 CNC

Punte componibili e punte per cerniere per macchine CNC

Dowel drills and hinge boring bits for CNC machining

Dübelbohrer und Beschlagbohrer für die CNC-Bearbeitung

PUNTE componibili per fori passanti DOWEL DRILLS FOR THROUGH-OUT DRILLING DÜBELBOHRER FÜR DURCHGANGSBOHRUNGEN



IMPIEGO: Punte componibili per fori passanti. Attacco Ø 10 x 25.

USE: Dowel drills for through-out drilling. Chuck: Ø 10 x 25.

ANWENDUNG: Dübelbohrer für Durchgangsbohrungen. Schaft Ø 10 x 25.

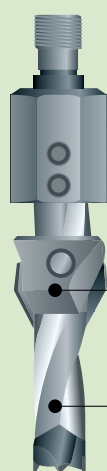
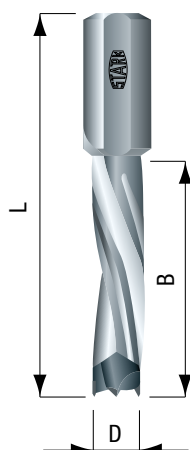
P151 - HM						
Ø D [mm]	B [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
4	27	57,5	10	P151RM0427	P151LM0427	14,50
5	27	57,5	10	P151RM0527	P151LM0527	15,20
6	27	57,5	10	P151RM0627	P151LM0627	15,90
7	27	57,5	10	P151RM0727	P151LM0727	17,30
8	27	57,5	10	P151RM0827	P151LM0827	17,70
9	27	57,5	10	P151RM0927	P151LM0927	18,00
10	27	57,5	10	P151RM1027	P151LM1027	18,70
4	37	70	10	P151RM0437	P151LM0437	15,70
5	37	70	10	P151RM0537	P151LM0537	15,20
6	37	70	10	P151RM0637	P151LM0637	16,10
7	37	70	10	P151RM0737	P151LM0737	17,50
8	37	70	10	P151RM0837	P151LM0837	18,10
9	37	70	10	P151RM0937	P151LM0937	18,10
10	37	70	10	P151RM1037	P151LM1037	18,70
12	37	70	10	P151RM1237	P151LM1237	22,70

PUNTE componibili per fori ciechi a 4 eliche DOWEL DRILLS FOR BLIND DRILLING WITH 4 SPIRALS DÜBELBOHRER FÜR SACKLOCHBOHRUNGEN MIT RÜCKENFÜHRUNG

IMPIEGO: Punte componibili per fori ciechi. Attacco Ø 10 x 20.

USE: Dowel drills for blind drilling. Chuck: Ø 10 x 20.

ANWENDUNG: Dübelbohrer für Sacklochbohrungen. Schaft Ø 10 x 20.



P161-P162

P152-P154

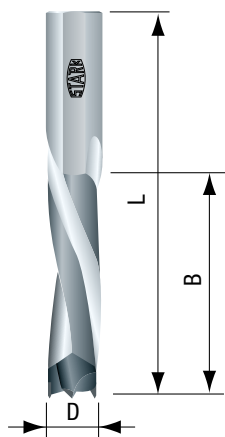
Per macchine foratrici,
utilizzabili con art. **P161**

On boring machines,
use with item **P161**

Auf Bohrmaschinen,
zur Verwendung mit Art. **P161**

P152 - HM						
Ø D [mm]	B [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
4	30	57,5	10	P152RM0430	P152LM0430	13,20
5	30	57,5	10	P152RM0530	P152LM0530	10,70
5,5	30	57,5	10	P152RM5530	P152LM5530	11,40
6	30	57,5	10	P152RM0630	P152LM0630	11,70
6,35(1/4")	30	57,5	10	P152RM63530	P152LM63530	12,60
7	30	57,5	10	P152RM0730	P152LM0730	13,60
8	30	57,5	10	P152RM0830	P152LM0830	12,10
9	30	57,5	10	P152RM0930	P152LM0930	14,50
9,5 (3/8")	30	57,5	10	P152RM9530	P152LM9530	16,00
10	30	57,5	10	P152RM1030	P152LM1030	14,20
10,5	30	57,5	10	P152RM10530	P152LM10530	15,20
11	30	57,5	10	P152RM1130	P152LM1130	15,40
12	30	57,5	10	P152RM1230	P152LM1230	15,60
12,7(1/2")	30	57,5	10	P152RM12730	P152LM12730	20,50
13	30	57,5	10	P152RM1330	P152LM1330	21,00
14	30	57,5	10	P152RM1430	P152LM1430	21,30
15	30	57,5	10	P152RM1530	P152LM1530	23,30
16	30	57,5	10	P152RM1630	P152LM1630	24,70
4	43	70	10	P152RM0443	P152LM0443	13,90
5	43	70	10	P152RM0543	P152LM0543	11,10
5,5	43	70	10	P152RM5543	P152LM5543	11,70
6	43	70	10	P152RM0643	P152LM0643	12,40
6,35(1/4")	43	70	10	P152RM63543	P152LM63543	13,60
7	43	70	10	P152RM0743	P152LM0743	14,20
7,5	43	70	10	P152RM7543	P152LM7543	14,70
8	43	70	10	P152RM0843	P152LM0843	12,60
8,2	43	70	10	P152RM8243	P152LM8243	14,50
9	43	70	10	P152RM0943	P152LM0943	15,40
9,5 (3/8")	43	70	10	P152RM9543	P152LM9543	15,40
10	43	70	10	P152RM1043	P152LM1043	14,50
10,5	43	70	10	P152RM10543	P152LM10543	16,60
11	43	70	10	P152RM1143	P152LM1143	16,00
12	43	70	10	P152RM1243	P152LM1243	16,10
12,7(1/2")	43	70	10	P152RM12743	P152LM12743	19,50
13	43	70	10	P152RM1343	P152LM1343	21,50
14	43	70	10	P152RM1443	P152LM1443	22,00
15	43	70	10	P152RM1543	P152LM1543	24,10

PUNTE componibili per fori ciechi con 2 eliche DOWEL DRILLS FOR BLIND DRILLING WITH 2 SPIRALS DÜBELBOHRER FÜR SACKLOCHBOHRUNGEN



P161-P162

P152-P154

Per macchine foratrici,
utilizzabili con art. **P162**

On boring machines,
use with item **P162**

Auf Bohrmaschinen,
zur Verwendung mit Art. **P162**

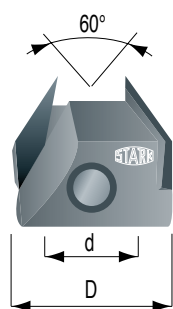
IMPIEGO: Punte componibili per fori ciechi con 2 eliche. Attacco Ø 10 x 27 L = 57,5 / Ø 10 x 35 L = 70.

USE: Dowel drills for blind drilling with 2 spirals. Chuck: Ø 10 x 27 L = 57,5 / Ø 10 x 35 L = 70.

ANWENDUNG: Dübelbohrer für Sacklochbohrungen. Schaft Ø 10 x 25.

Schaft Ø 10 x 27 L = 57,5 / Ø 10 x 35 L = 70.

P154 - HM						
Ø D [mm]	B [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
4	27	57,5	10	P154RM0427	P154LM0427	13,20
5	27	57,5	10	P154RM0527	P154LM0527	10,70
6	27	57,5	10	P154RM0627	P154LM0627	11,70
6,35(1/4")	27	57,5	10	P154RM63527	P154LM63527	12,60
7	27	57,5	10	P154RM0727	P154LM0727	13,60
8	27	57,5	10	P154RM0827	P154LM0827	12,10
8,2	27	57,5	10	P152RM8227	P152LM8227	13,60
9	27	57,5	10	P154RM0927	P154LM0927	14,50
9,5 (3/8")	27	57,5	10	P154RM9527	P154LM9527	16,00
10	27	57,5	10	P154RM1027	P154LM1027	14,20
11	27	57,5	10	P154RM1127	P154LM1127	15,40
12	27	57,5	10	P154RM1227	P154LM1227	15,60
12,7(1/2")	27	57,5	10	P154RM12727	P154LM12727	20,50
14	27	57,5	10	P154RM1427	P154LM1427	21,30
15	27	57,5	10	P154RM1527	P154LM1527	23,30
4	35	70	10	P154RM0435	P154LM0435	13,90
5	35	70	10	P154RM0535	P154LM0535	11,10
6	35	70	10	P154RM0635	P154LM0635	12,40
6,35(1/4")	35	70	10	P154RM63535	P154LM63535	13,60
7	35	70	10	P154RM0735	P154LM0735	14,20
8	35	70	10	P154RM0835	P154LM0835	12,60
9	35	70	10	P154RM0935	P154LM0935	15,40
9,5 (3/8")	35	70	10	P154RM9535	P154LM9535	15,40
10	35	70	10	P154RM1035	P154LM1035	14,50
11	35	70	10	P154RM1135	P154LM1135	16,00
12	35	70	10	P154RM1235	P154LM1235	16,10
12,7(1/2")	35	70	10	P154RM12735	P154LM12735	19,50
13	35	70	10	P154RM1335	P154LM1335	21,60
14	35	70	10	P154RM1435	P154LM1435	22,00
16	35	70	10	P154RM1635	P154LM1635	24,10



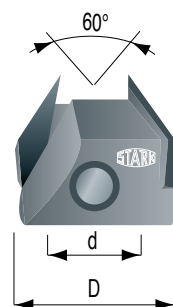
P161 - HM				
Ø D [mm]	Ø d [mm]	Art. Nr. 	Art. Nr. 	€
15,5	4	P161RM04155	P161LM04155	15,60
15,5	5	P161RM05155	P161LM05155	15,60
15,5	6	P161RM06155	P161LM06155	15,60
15,5	6,4	P161RM64155	P161LM64155	15,60
18	7	P161RM0718	P161LM0718	15,60
18	8	P161RM0818	P161LM0818	15,60
18	9	P161RM0918	P161LM0918	15,60
20	10	P161RM1020	P161LM1020	16,40
22	12	P161RM1222	P161LM1222	16,40

Per macchine foratrici, utilizzabili con art. **P152**

On boring machines, use with item **P152**

Auf Bohrmaschinen, zur Verwendung mit Art. **P152**

SVASATORI componibili
SHELL COUNTERSINK
AUFSTECKSENKER



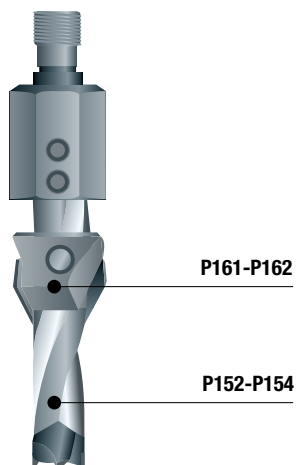
P162 - HM				
Ø D [mm]	Ø d [mm]	Art. Nr. 	Art. Nr. 	€
20	5÷10	P162RM0520	P162LM0520	18,10
22	11÷12	P162RM1222	P162LM1222	18,10

Per macchine foratrici, utilizzabili con art. **P154**

On boring machines, use with item **P154**

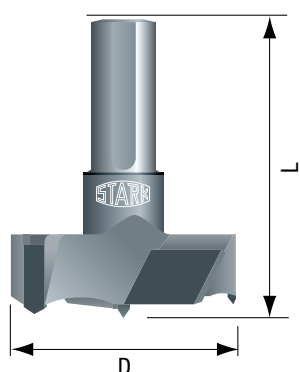
Auf Bohrmaschinen, zur Verwendung mit Art. **P154**

ESEMPI DI ASSEMBLAGGIO / ASSEMBLY EXAMPLE / MONTAGEBEISPIEL



Esempio di foro cieco con svasatura
Examples of blind drilling with countersink
Beispiel

PUNTE PER CERNIERE HINGE BORING BITS BESCHLAGBOHRER



IMPIEGO: Punta per cerniere. Attacco Ø 10 x 26. Su macchine foratrici, esecuzione di fori non passanti o sedi per cerniere.

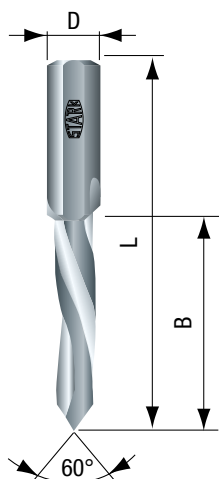
USE: Hinge boring bits. Chuck: Ø 10 x 26. On boring machines, for hardware recessing and pocket hole drilling.

ANWENDUNG: Beschlagbohrer. Schaft Ø 10 x 26. Auf Bohrmaschinen, für Sacklochbohrungen und Beschlagbohrungen.

P163 - HM					
Ø D [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
15	57,5	5	P163RM1557	P163LM1557	24,00
16	57,5	5	P163RM1657	P163LM1657	24,00
17	57,5	5	P163RM1757	P163LM1757	25,00
18	57,5	5	P163RM1857	P163LM1857	25,50
20	57,5	5	P163RM2057	P163LM2057	25,50
22	57,5	5	P163RM2257	P163LM2257	27,50
24	57,5	5	P163RM2457	P163LM2457	27,90
25	57,5	5	P163RM2557	P163LM2557	27,90
26	57,5	5	P163RM2657	P163LM2657	27,90
28	57,5	5	P163RM2857	P163LM2857	29,30
30	57,5	5	P163RM3057	P163LM3057	29,30
32	57,5	5	P163RM3257	P163LM3257	27,10
34	57,5	5	P163RM3457	P163LM3457	28,20
35	57,5	5	P163RM3557	P163LM3557	27,10
36	57,5	5	P163RM3657	P163LM3657	28,90
38	57,5	5	P163RM3857	P163LM3857	34,50
40	57,5	5	P163RM4057	P163LM4057	34,50
15	70	5	P163RM1570	P163LM1570	24,80
16	70	5	P163RM1670	P163LM1670	24,80
20	70	5	P163RM2070	P163LM2070	26,40
25	70	5	P163RM2570	P163LM2570	28,90
26	70	5	P163RM2670	P163LM2670	28,90
30	70	5	P163RM3070	P163LM3070	31,40
35	70	5	P163RM3570	P163LM3570	32,40



PUNTE componibili in HM integrale per fori passanti SOLID HM DOWEL DRILLS FOR THROUGH-OUT DRILLING VHW DÜBELBOHRER FÜR DURCHGANGSBOHRUNGEN



SOLID HM BODY



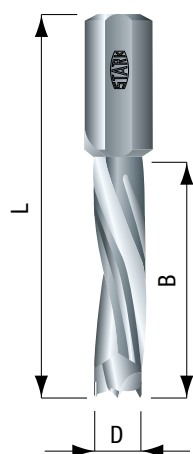
IMPIEGO: Punte componibili, con corpo elicoidale in HM, per fori passanti. Attacco in acciaio speciale ad alta resistenza.

USE: Dowel drills, with solid carbide spiral body, for through-out drilling. Shank in special high-strength steel.

ANWENDUNG: Dübelbohrer für Durchgangsbohrungen. Vollhartmetall-Spiralkörper. Befestigung aus Hochfestem Spezialstahl.

P281						
Ø D [mm]	B [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
3	18	57,5	10	P281RM318	P281LM318	20,30
4	22	57,5	10	P281RM422	P281LM422	22,40
5	20	57,5	10	P281RM520	P281LM520	23,60
6	20	57,5	10	P281RM620	P281LM620	29,60
8	20	57,5	10	P281RM857	P281LM857	33,20
10	20	57,5	10	P281RM1020	P281LM1020	40,50
3	20	70	10	P281RM320	P281LM320	20,50
4	25	70	10	P281RM420	P281LM420	25,70
5	33	70	10	P281RM533	P281LM533	23,90
6	33	70	10	P281RM633	P281LM633	29,90
8	33	70	10	P281RM833	P281LM833	33,80
10	33	70	10	P281RM1033	P281LM1033	41,20

PUNTE componibili in HM integrale per fori ciechi SOLID HM ROUTERS DOWEL DRILLS FOR BLIND DRILLING VHW DÜBELBOHRER FÜR BLINDBOHRUNGEN



SOLID HM BODY



IMPIEGO: Punte componibili per fori ciechi. Corpo elicoidale in HM. Attacco in acciaio.

USE: Dowel drills for blind drilling. Solid Carbide Spiral Body. Steel Shank.

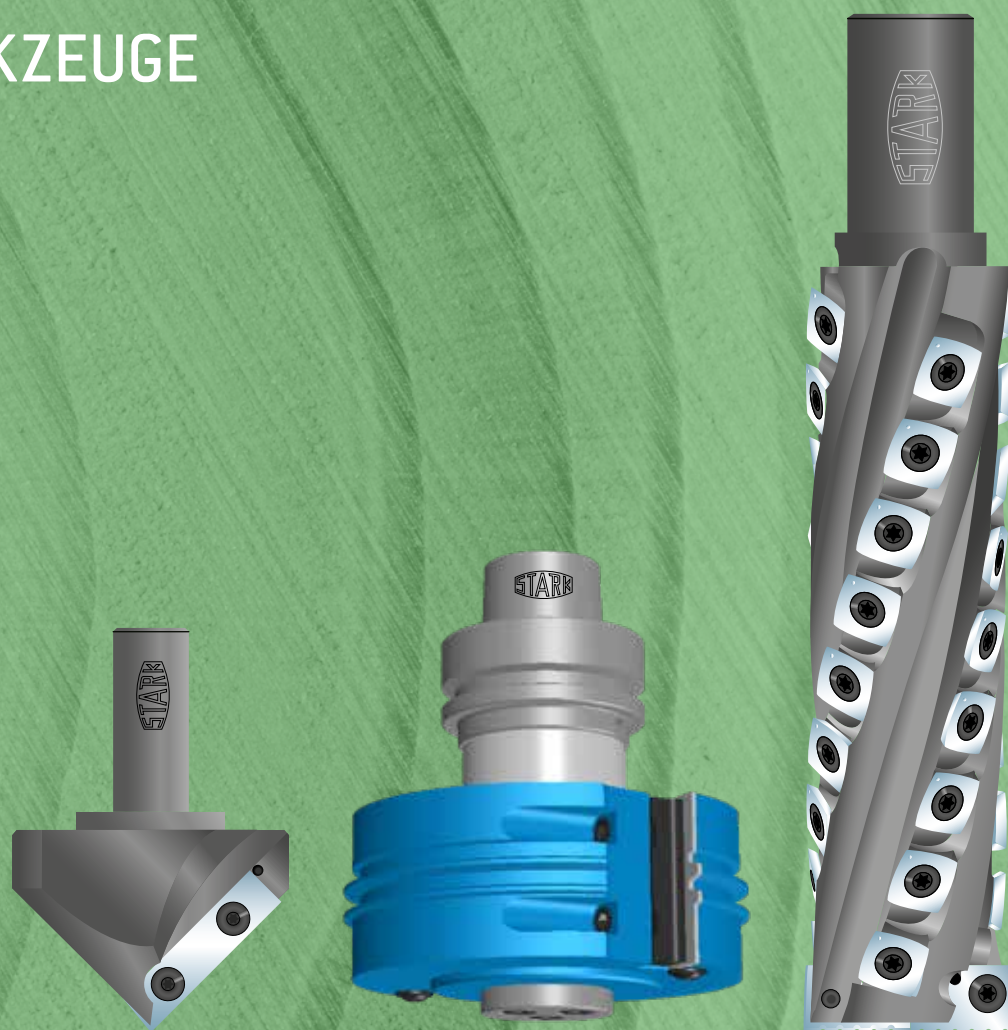
ANWENDUNG: Dübelbohrer für Blindbohrungen. Vollhartmetall-Spiralkörper. Stahl-Schaft.

P282						
Ø D [mm]	B [mm]	L [mm]	Nr. pz.	Art. Nr. DX	Art. Nr. SX	€
3	18	57,5	10	P282RM318	P282LM318	15,70
4	20	57,5	10	P282RM420	P282LM420	17,20
5	22	57,5	10	P282RM522	P282LM522	19,60
6	22	57,5	10	P282RM622	P282LM622	22,60
8	22	57,5	10	P282RM822	P282LM822	28,10
10	22	57,5	10	P282RM1022	P282LM1022	31,70
3	20	70	10	P282RM320	P282LM320	16,30
4	27	70	10	P282RM427	P282LM427	17,80
5	35	70	10	P282RM535	P282LM535	20,30
6	35	70	10	P282RM635	P282LM635	23,20
8	35	70	10	P282RM835	P282LM835	28,70
10	35	70	10	P282RM1035	P282LM1035	34,90



YOUR STORIES, OUR BLADES

PUNTE E TESTE CON COLTELLI A GETTARE KNIFE ROUTERS AND CUTTERHEADS SCHAFTWERKZEUGE



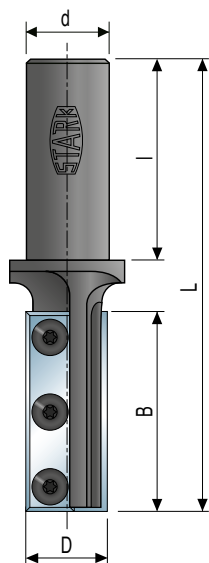
/03 CNC

Punte e teste coltelli a gettare dritte e sagomate

Straight and profiled knife routers and cutterheads

Schaftwerkzeuge

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



STEEL BODY

Fresa CNC con corpo in acciaio, completa di coltelli diritti intercambiabili in HM, ideale per contornare elementi in legno e pannelli.

CNC cutter with steel body, with interchangeable HM straight knives, ideal for contouring wooden elements and panels.

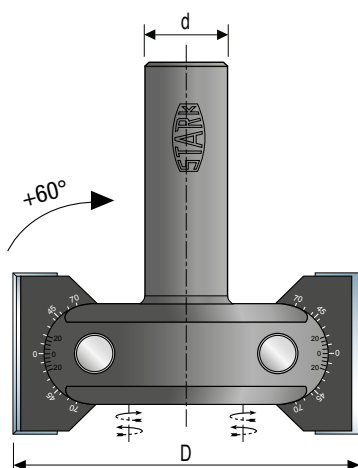
CNC-Fräser mit Stahlkörper, komplett mit austauschbaren geraden HM-Messern, ideal für die Konturbearbeitung von Holzelementen und Platten.

PH71FM									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	R	Art. Nr.	€			
			Ø d [mm]	l [mm]							
20	30	95	20/25	50	2	R	PH71FM01	216,60	607101	507101	400405
20	30	95	20/25	50	2	L	PH71FM02	216,60	607101	507101	400405
20	50	115	20/25	50	2	R	PH71FM03	227,70	607102	507101	400405
20	50	115	20/25	50	2	L	PH71FM04	227,70	607102	507101	400405
25	50	115	20/25	50	2	R	PH71FM05	236,00	607102	507101	400405
25	50	115	20/25	50	2	L	PH71FM06	236,00	607102	507101	400405

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



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



STEEL BODY

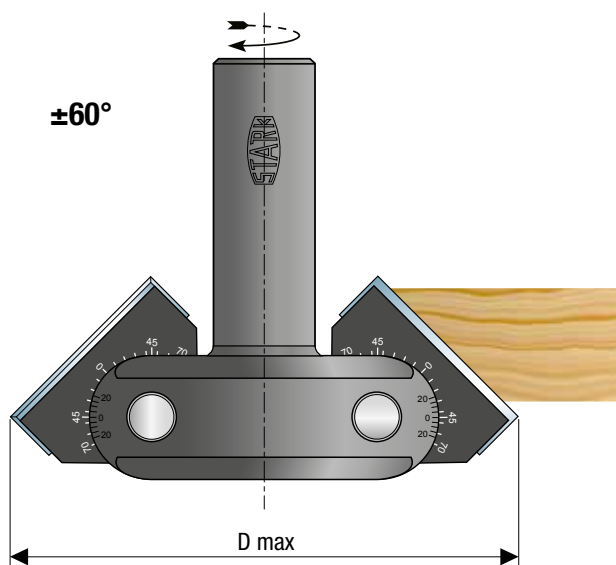
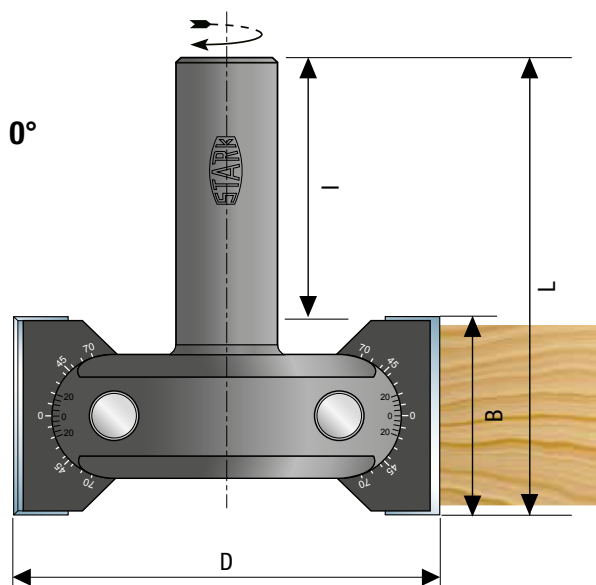
Fresa CNC con corpo in acciaio a inclinazione variabile, completa di coltelli intercambiabili diritti in HM.
Regolazione di 2,5°.

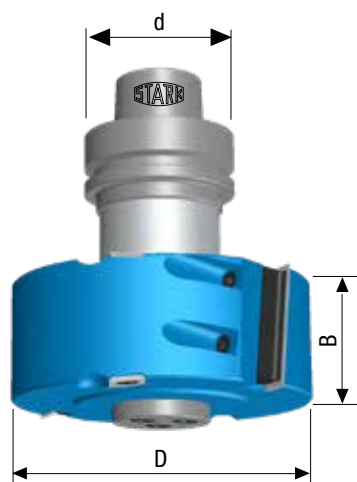
CNC cutter with variable inclination steel body, complete with interchangeable straight HM knives.
Steps of 2,5°.

CNC-Fräser mit Stahlkörper mit variabler Neigung, komplett mit austauschbaren geraden HM-Messern.
Verstellung in 2,5°-Schritten.

PH75FM									Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	D Max [mm]	L [mm]	Attacco / Shank Schaft		Z	Art. Nr.	€					
				Ø d [mm]	l [mm]								
105	40	121	93	20	50	2	PH75FM01	549,90	600011	307501	507501	400002	400003

ESEMPI DI LAVORAZIONE
WORKING EXAMPLE
EINSATZBEISPIEL





LIGHT ALLOY BODY

Gruppo CNC con testa in lega leggera con coltellini e rasanti in HM reversibili per eseguire battute e contornature. L'angolo assiale favorisce un miglior scarico del truciolo e una maggiore resa in termini di avanzamento oltre a migliorare la tenuta di taglio.

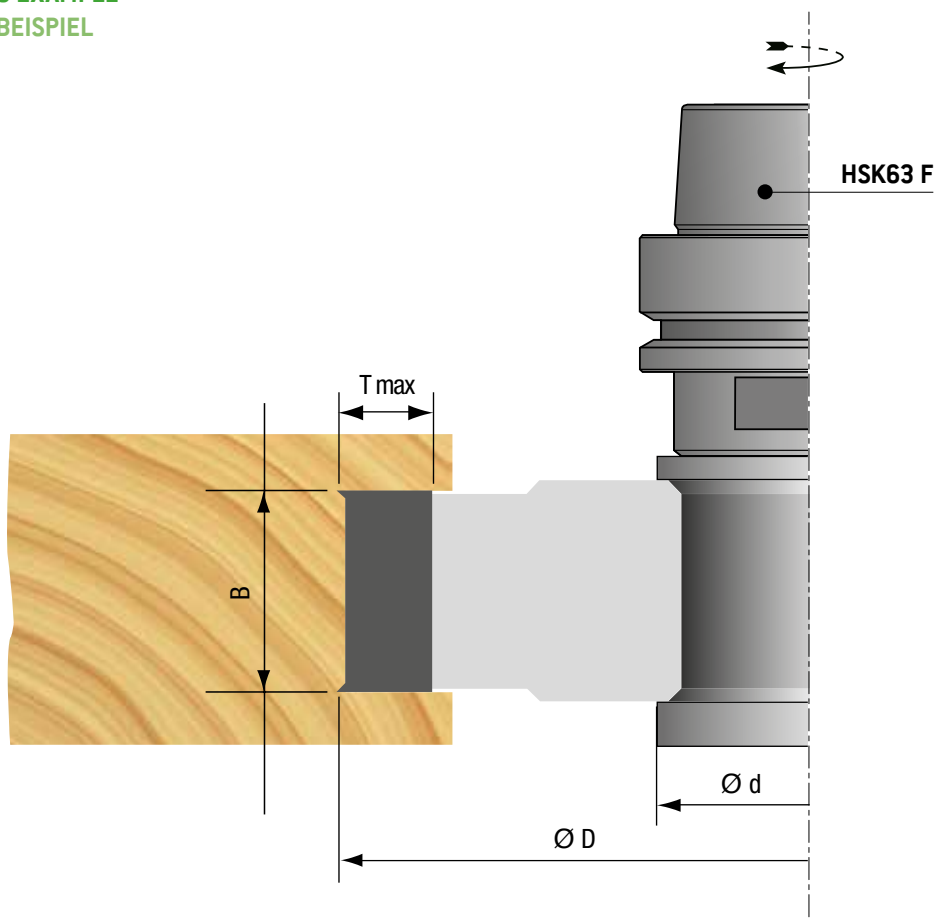
CNC cutterhead with light alloy head with reversible HM knives and spurs for rebating and contouring. The axial angle favours better chip removal and greater feed rate as well as improving cutting grip.

CNC-Fräskopf mit Leichtmetallkopf mit wendbaren HM-Messern und Vorschneider zum Fälzen und Konturfräsen. Der axiale Winkel begünstigt eine bessere Spanabfuhr und einen höheren Vorschub sowie eine bessere Schnitfführung.

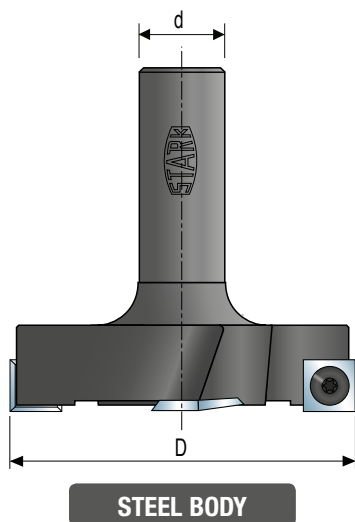
GH151AAM										Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.		€					
125	50	30	2	4	25	6100 - 10600	GH151AAM030	•	419,10	600006	341002	501403	600201	500002

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

ESEMPI DI LAVORAZIONE
WORKING EXAMPLE
EINSATZBEISPIEL



PUNTA PER SPIANARE DISPOSABLE KNIFE PLANING ROUTER WECHSELPLATTEN-PLANFRÄSER



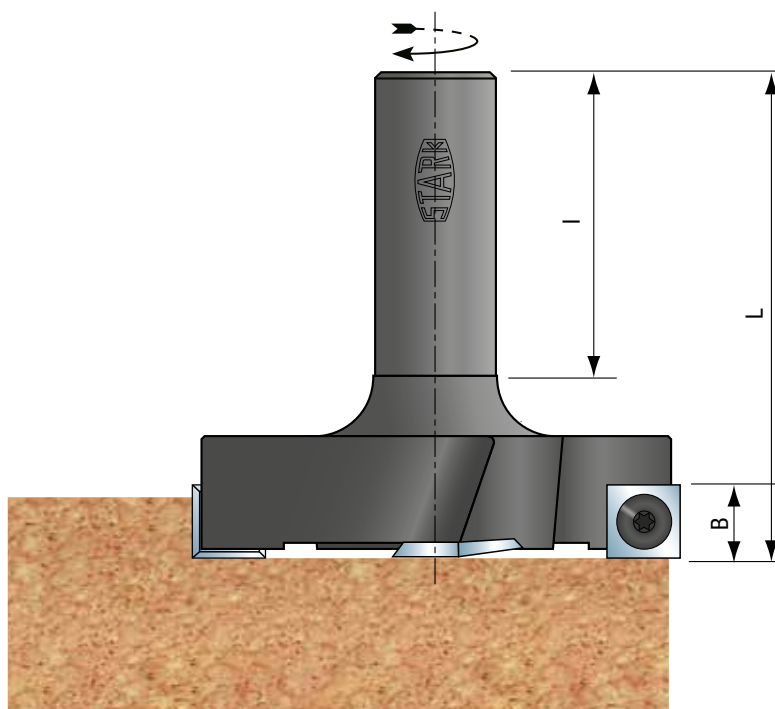
Fresa CNC con corpo in acciaio per spianare, con coltelli reversibili a quattro taglienti in HM.

CNC cutter with steel body for face milling, with reversible knives with four HM cutting edges.

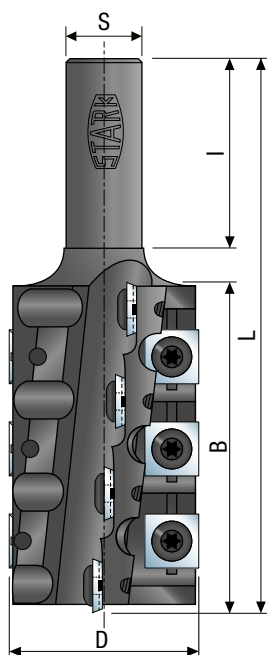
CNC-Fräser mit Stahlkörper zum Planfräsen, mit Wendemessern mit vier HM-Schneiden.

PH77FM01								Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	Art. Nr.	€					
			Ø d [mm]	l [mm]								
80	12	80	20/25	50	2+2	PH77FM01	208,60	600002	600201	507701	507702	400405

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL

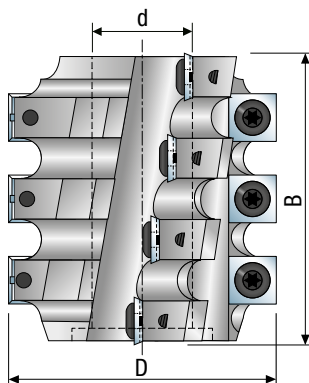


PUNTA PER CONTORNARE E SPIANARE - GRANDI ASPORTAZIONI DISPOSABLE KNIFE ROUTER FOR SIZING AND PLANING - BIG REMOVAL FRÄSER ZUM FÜGEN UND PLANFRÄSEN



STEEL BODY

TYPE ①



LIGHT ALLOY BODY

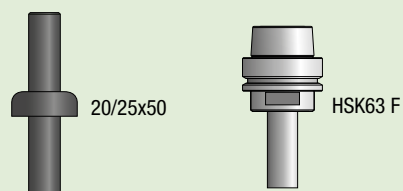
TYPE ②

Fresa CNC con corpo in acciaio per contornare e spianare, ideale per grandi asportazioni, con coltelli reversibili in HM a quattro taglienti.

CNC cutter with steel body for contouring and face milling, ideal for big removal, with HM reversible knives with four cutting edges.

CNC-Fräser mit Stahlkörper zum Kontur- und Planfräsen, ideal für hohen Materialabtrag, mit HM-Wendemessern mit vier Schneiden.

ATTACCO PER TIPO 2 / SHANK FOR TYPE 2 / SCHAFT FÜR 2



Attacchi per corpi in lega leggera da ordinare a parte.

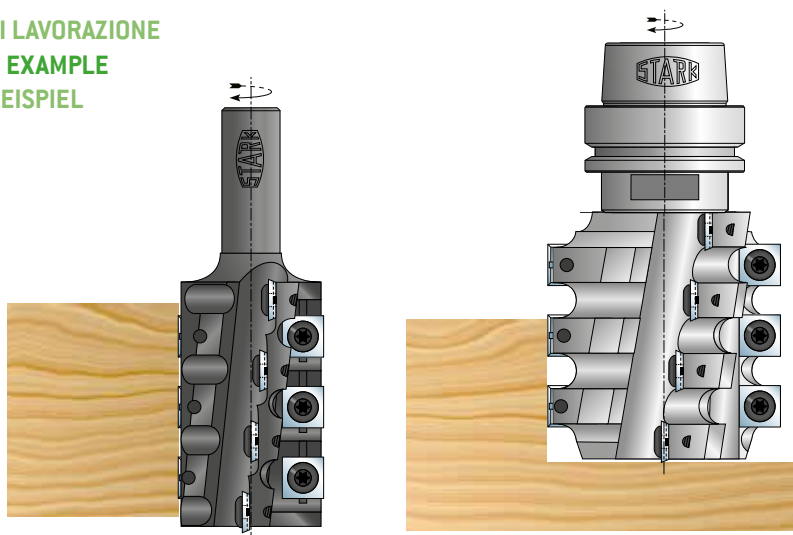
Toolholders for light alloy bodies to be ordered separately.

Die Aufnahmen für die Körper aus Leichtmetall sind separat zu bestellen.

TYPE ① : Corpo in Acciaio / Steel body / Stahlkörper | **TYPE ②** : Corpo in lega leggera / Light alloy body / Leichtmetallgehäuse

PH78FM									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	Art. Nr.	Type	€			
			Ø S [mm]	l [mm]							
50	62	121	20	50	2+2	PH78FM01	①	349,80	607801	507801	400420
50	74	133	20	50	2+2	PH78FM02		360,90	607801	507801	400420
50	86	145	20	50	2+2	PH78FM03		374,50	607801	507801	400420
Ø D [mm]	B [mm]	L [mm]	Ø d [mm]	l [mm]	Z	Art. Nr.	Type	€			
80	62	-	25	-	2+2	PH78FM04	②	405,00	607801	507801	400420
80	74	-	25	-	2+2	PH78FM05		416,30	607801	507801	400420
80	86	-	25	-	2+2	PH78FM06		430,30	607801	507801	400420

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL

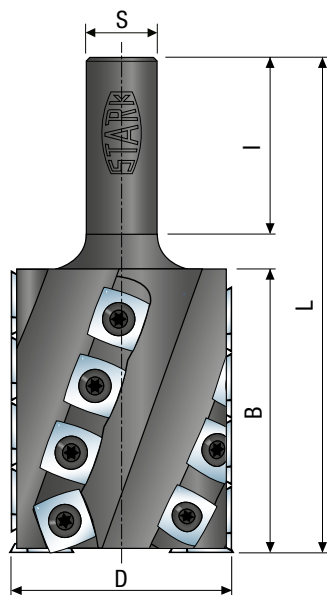


PUNTA PER CONTORNARE E SPIANARE - BUONA FINITURA CUTTER FOR SIZING AND PLANING - GOOD FINISHING SPIRALFÜGEFRÄSER - GROBE ZERSPANUNG

Fresa elicoidale CNC con corpo in acciaio per contornare e spianare con buona finitura, con coltelli reversibili in HM a quattro taglienti.

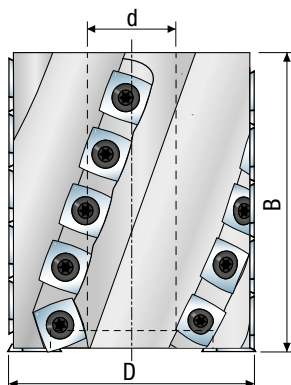
CNC helical cutter with steel body for sizing and planing with good finish, with HM reversible knives with four cutting edges.

CNC-Spiralfräser mit Stahlkörper zum Kalibrieren und Hobeln mit guter Schnittqualität, mit HM-Wendemessern mit vier Schneiden.



STEEL BODY

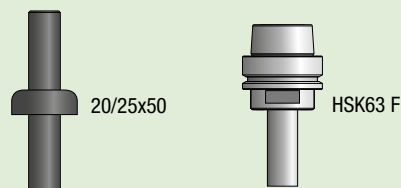
TYPE ①



LIGHT ALLOY BODY

TYPE ②

ATTACCO PER TIPO 2 / SHANK FOR TYPE 2 / SCHAFT FÜR 2



Attacchi per corpi in lega leggera da ordinare a parte.

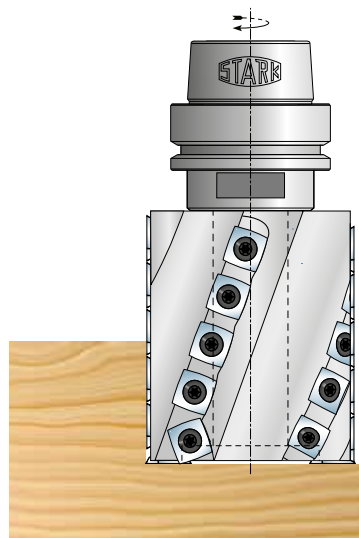
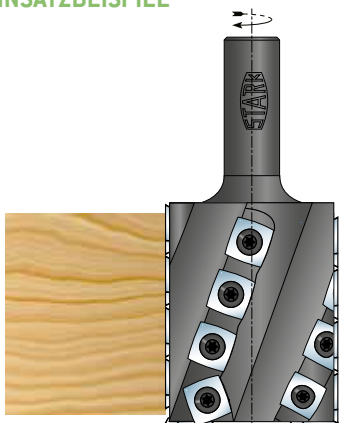
Toolholders for light alloy bodies to be ordered separately.

Die Aufnahmen für die Körper aus Leichtmetall sind separat zu bestellen.

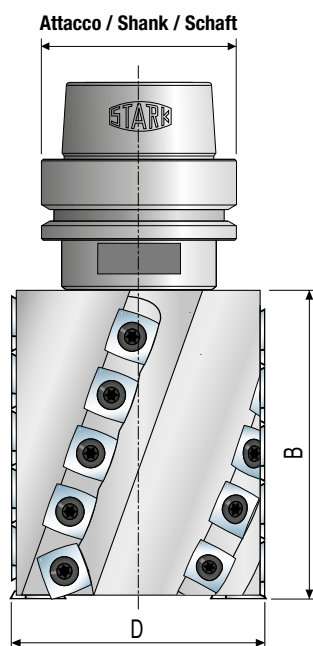
TYPE ① : Corpo in Acciaio / Steel body / Stahlkörper | **TYPE ②** : Corpo in lega leggera / Light alloy body / Leichtmetallgehäuse

PH79FM										Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	V	Art. Nr.	Type	€					
			Ø S [mm]	l [mm]										
50	60	122	20/25	50	2+2	2	PH79FM01	①	319,10	600207	600201	507901	507902	400420
50	80	141	20/25	50	2+2	2	PH79FM02		374,50	600207	600201	507901	507902	400420
50	110	170	20/25	50	2+2	2	PH79FM03		457,80	600207	600201	507901	507902	400420
60	60	-	20	-	2+2	2	PH79FM04	②	374,50	600207	600201	507901	507902	400420
60	80	-	20	-	2+2	2	PH79FM05		410,90	600207	600201	507901	507902	400420
80	80	-	30	-	2+2	2	PH79FM06		449,50	600207	600201	507901	507902	400420
80	100	-	30	-	2+2	2	PH79FM07		527,20	600207	600201	507901	507902	400420

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



FRESA MULTITAGLIANTE CON COLTELLO BOMBATO MULTI-CUTTING CUTTER WITH ROUNDED KNIFE Z4 SPIRALFÜRGERFRÄSER



LIGHT ALLOY BODY

Fresa elicoidale CNC con corpo in alluminio per contornare e spianare con buona finitura, con coltelli reversibili in HM a quattro taglienti.

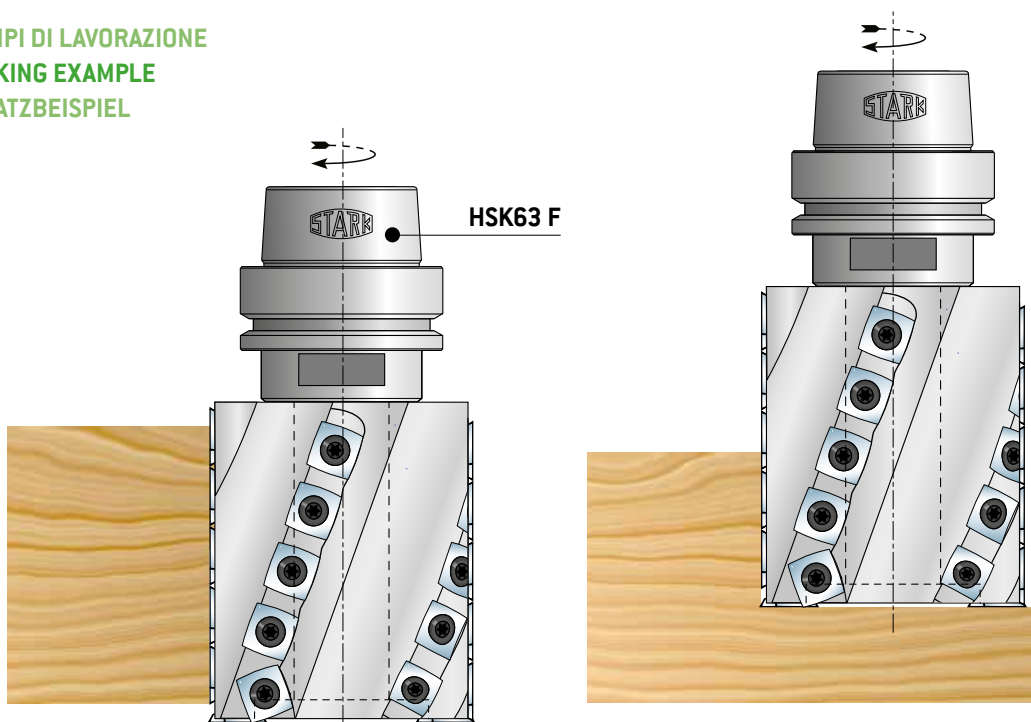
CNC helical cutter with aluminium body for sizing and planing with good finish, with HM reversible knives with four cutting edges.

CNC-Spiralfräser mit Aluminiumkörper zum Kalibrieren und Hobeln mit guter Schnittqualität, mit HM-Wendemessern mit vier Schneiden.

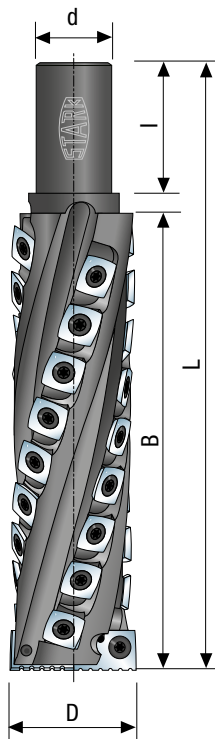
PH81FM														
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	Attacco Shank Schaft	R	Art. Nr.	€						
80	122	30	4	2	HSK 63F	DX	PH81FM01	943,00	600207	600201	508101	508102	400420	4000045
80	122	30	4	2	HSK 63F	SX	PH81FM02	943,00	600207	600201	508101	508102	400420	4000045

Corpo in Acciaio / Steel body / Stahlkörper

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



FRESA MULTITAGLIANTE ELICOIDALE Z4 HELICAL MULTI-CUTTING CUTTER Z4 SPIRALFÖRMIGER MEHRSCHEIDIGER-SCHAFTFRÄSER Z4



STEEL BODY

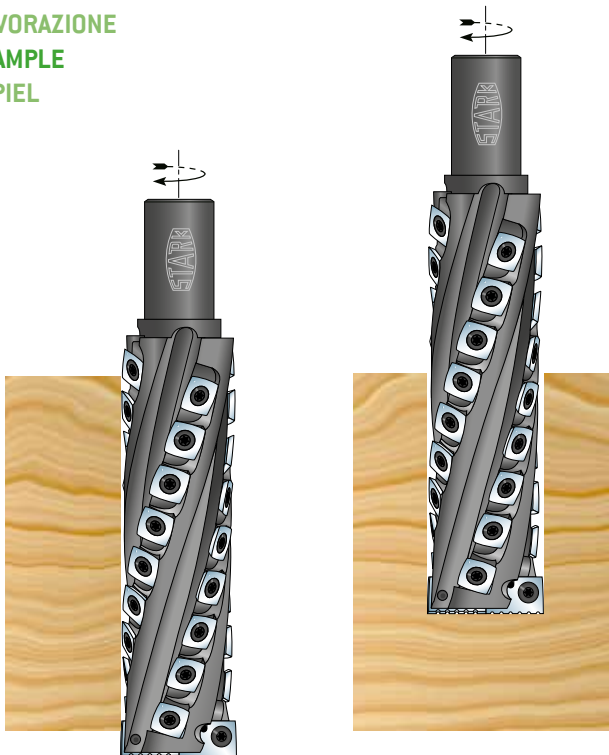
Fresa CNC multitagliante elicoidale Z4, con corpo in acciaio, con coltelli reversibili raggiati in HM a quattro taglienti.

CNC multi-cutter helical Z4 cutter, steel body, with HM radiused reversible knives with four cutting edges.

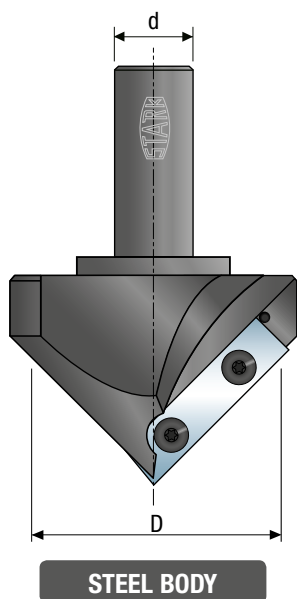
Spiralförmiger, Mehrschneidiger CNC-Schaftfräser Z4, Stahlkörper, mit abgerundeten HM-Wendemessern mit vier Schneiden.

PH80FM									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	R	Art. Nr.	€						
			Ø d [mm]	l [mm]										
50	180	240	25/30	50	4	DX	PH80FM01	1.012,30	600207	608021	508001	508002	400405	400420
50	180	240	25/30	50	4	SX	PH80FM02	1.012,30	600207	608022	508001	508002	400405	400420
50	210	270	25/30	50	4	DX	PH80FM03	1.095,20	600207	608021	508001	508002	400405	400420
50	210	270	25/30	50	4	SX	PH80FM04	1.095,20	600207	608022	508001	508002	400405	400420

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



FRESA PER FOLDING ROUTER BIT FOR FOLDING FOLDINGFRÄSER



Fresa CNC a V con corpo in acciaio, per lavorazioni tipo "FOLDING", completa di coltelli in HM.

V-shaped CNC router with steel body, for "FOLDING" type machining, complete with HM knives.

V-förmiger CNC-Fräser mit Stahlkörper, für die "FOLDING"-Bearbeitung, komplett mit HM-Messern.

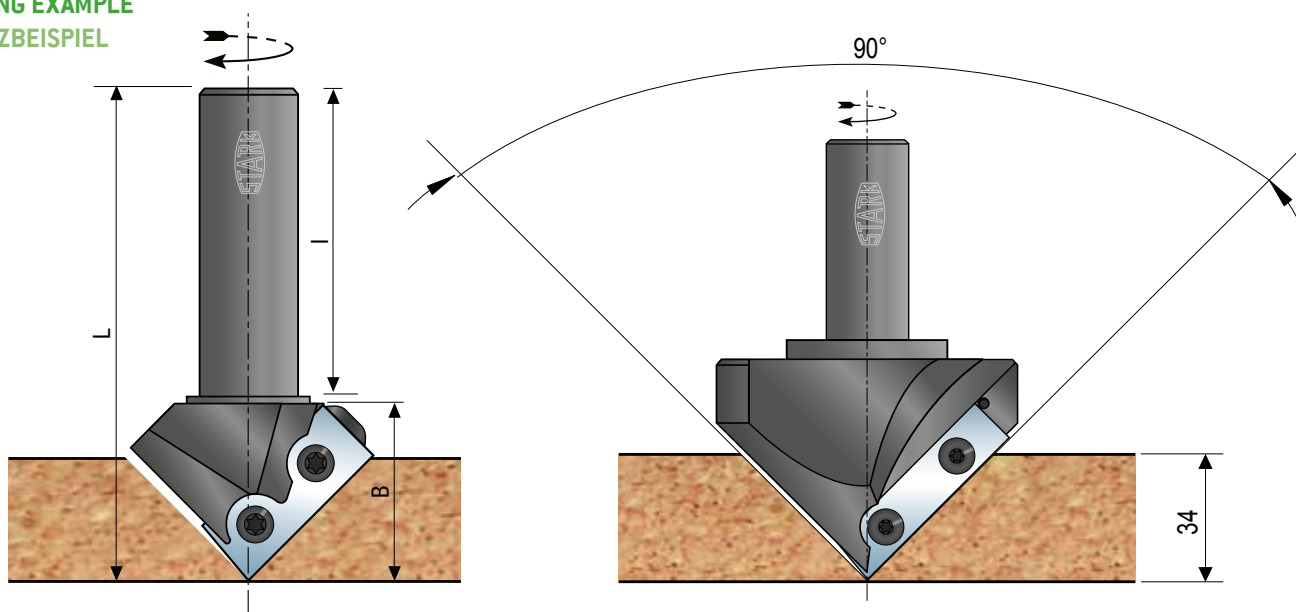
PH82FM										Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	R	Art. Nr.	€				
			Ø d [mm]	l [mm]								
38	19	80	16	50	1	DX	PH82FM01	180,70	608201	508201	400405	
38	19	80	16	50	1	SX	PH82FM02	180,70	608202	508201	400405	
65	34	110	20	50	1	DX	PH82FM03	205,60	608203	508202	400405	
65	34	110	20	50	1	SX	PH82FM04	205,60	608204	508202	400405	

Punte con angoli diversi a richiesta

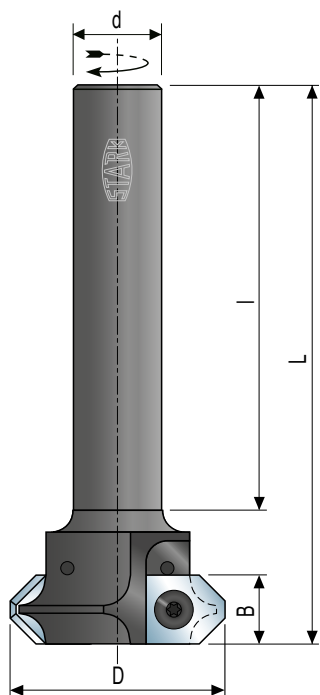
Folding router with other angles available on request

Foldingfräser mit anderen Winkel auf Anfrage

ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



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



STEEL BODY

Fresa CNC a coltellini sagomati intercambiabili, con corpo in acciaio, per la realizzazione di smussi e raggi.

CNC router with interchangeable shaped knives, with steel body, for rounding and chamfering.

CNC-Fräser mit austauschbaren Profilmessern, mit Stahlkörper, zum Abrunden und Anfasen.

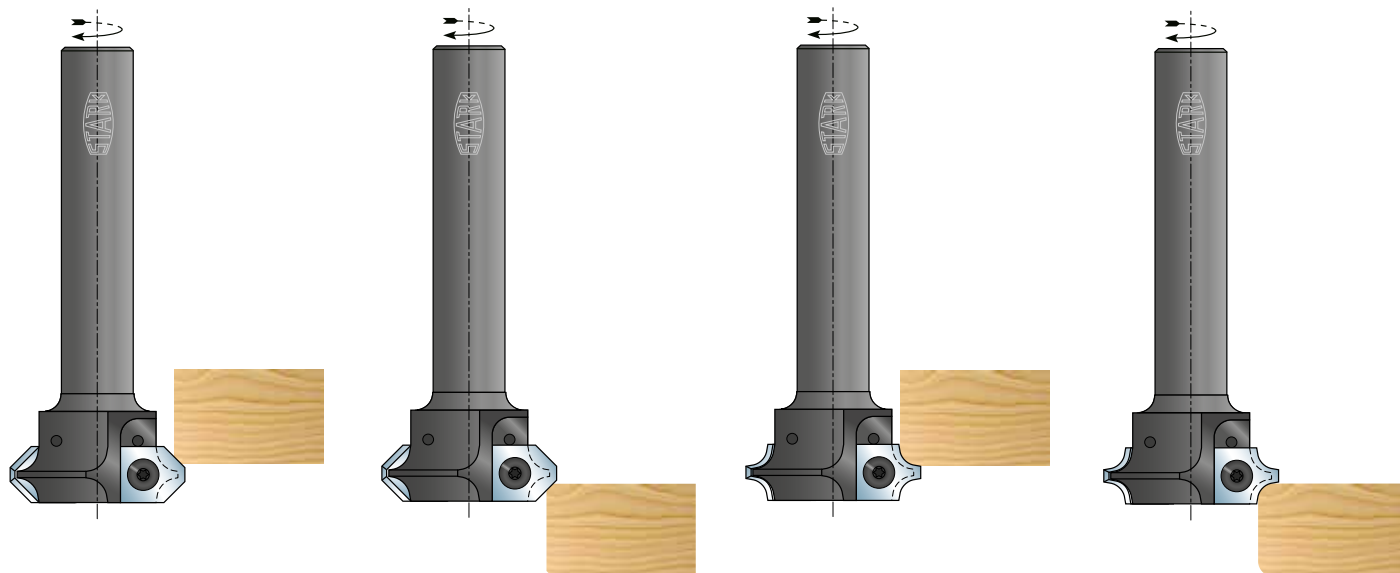
PH84FM01									Ricambi / Spare Parts / Ersatzteile						
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	R	Art. Nr.	€	α = 45°	R 2	R 3	R 4	R 5		
			Ø d [mm]	l [mm]											
50	16	130	20/25	100	2	DX	PH84FM01	274,50							

Punta compresa di coltelli. In fase d'ordine specificare il profilo richiesto.

Router already equipped with profiled knives. When ordering please specify the profile required.

Profilmesser im Lieferumfang enthalten. Bitte das benötigte Profil bei Bestellung angeben.

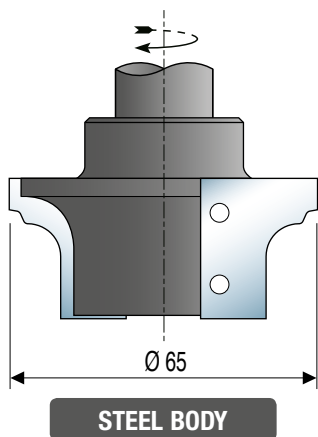
ESEMPI DI LAVORAZIONE WORKING EXAMPLE EINSATZBEISPIEL



Frese CNC a coltellini sagomati intercambiabili, con corpo in acciaio, per la realizzazione di antine.

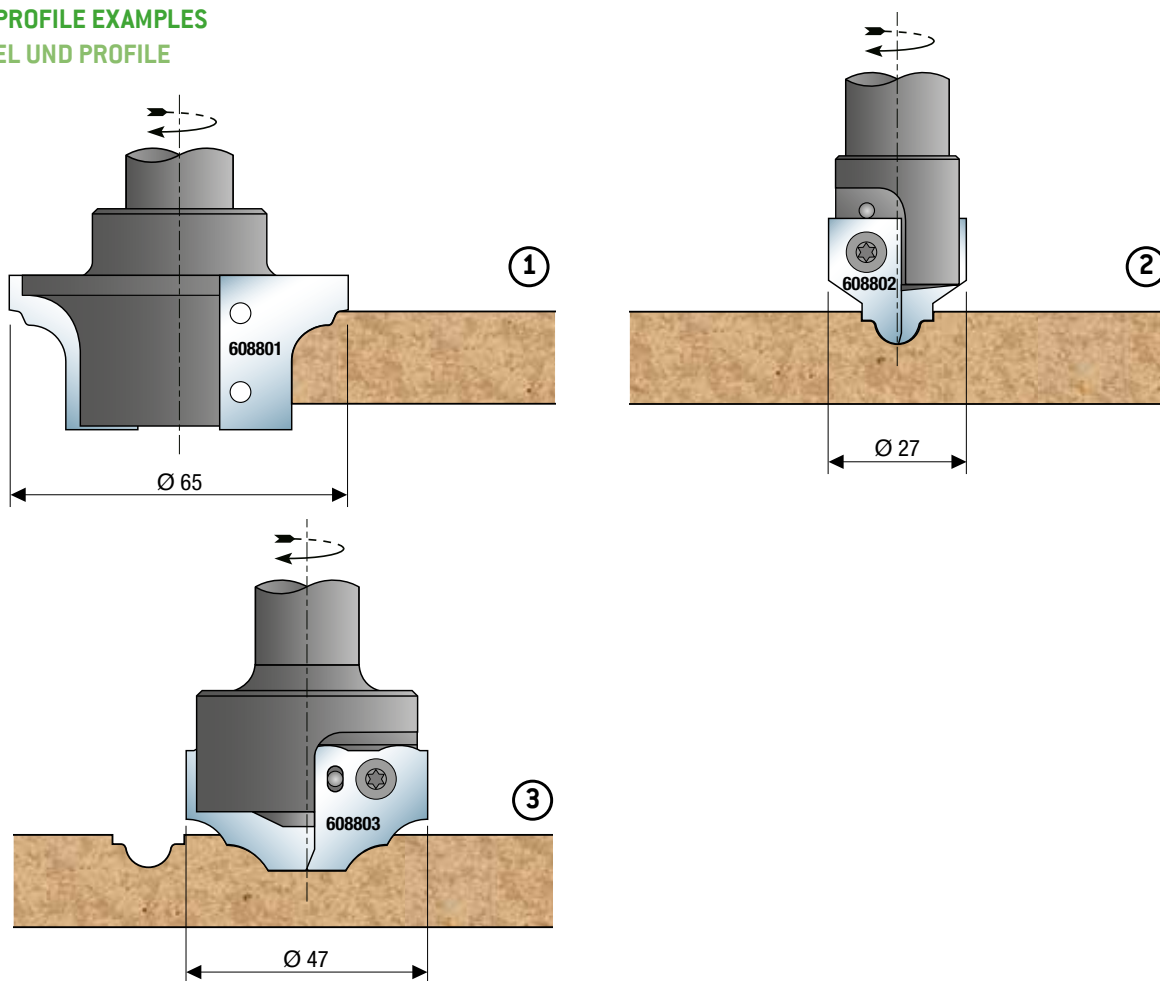
CNC router with interchangeable shaped knives, with steel body, for cabinets.

CNC-Fräser mit Stahlkörper, mit austauschbaren Formmessern für die Herstellung von Möbeltüren.



PH88FM								Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Attacco / Shank Schaft		Z	Art. Nr.	Type	€			
		Ø d [mm]	l [mm]							
65	30	20	50	2	PH88FM01	①	309,40	308801	508801	400003
27	25	20	50	2	PH88FM02	②	238,20	-	508802	400405
47	25	20	50	2	PH88FM03	③	325,20	-	508803	400405

**ESEMPI DI LAVORAZIONE E PROFILO
WORKING AND PROFILE EXAMPLES
EINSATZBEISPIEL UND PROFILE**



**SET PER ANTINE
SET FOR CABINETS
SET FÜR MOBELFRÖNTEN**



STEEL BODY

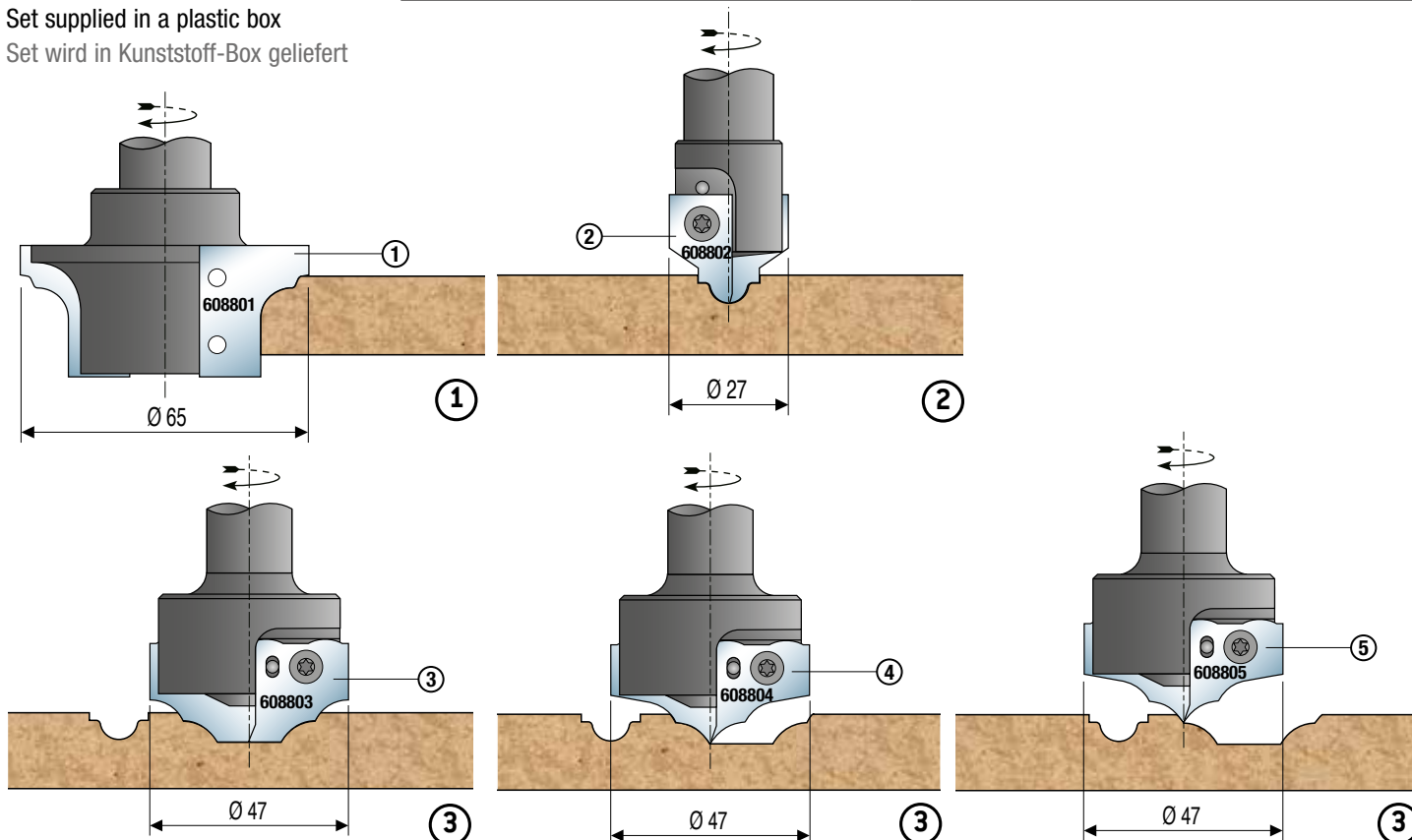
Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

Set di 5 frese CNC a coltellini intercambiabili, con corpo in acciaio, per la realizzazione di profilo antine.
Il set è completo di 5 profili e chiave di ricambio.

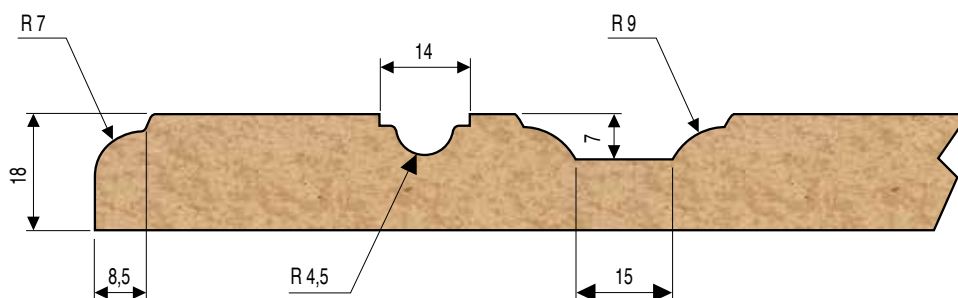
Set of 5 CNC cutters with interchangeable knives, with steel body, for making cabinets. The set includes 5 profiles and a spare key.

Satz von 5 CNC-Fräsern mit austauschbaren Messern, mit Stahlkörper, für die Herstellung von Möbeltüren. Das Set enthält 5 Profile und einen Ersatzschlüssel.

PH88FM10						Ricambi / Spare Parts / Ersatzteile				
Dim. Dim. Ab. [mm]	Z	Attacco Shank Schaft	PZ	Art. Nr.	Type					
Ø 65 x 30	Z2	att. 20 x 50	1 Pz.	PH88FM01	①	608801				
Ø 27 x 25	Z2	att. 20 x 50	1 Pz.	PH88FM02	②		608802			
Ø 47 x 25	Z2	att. 20 x 50	3 Pz.	PH88FM03	③			608803	608804	608805
Art. Nr. SET						€				
PH88FM10						1.192,50				



PROFILO / PROFILE / PROFIL



SET PER ANTINE
SET FOR CABINETS
SET FÜR MOBELFRÖNTEN



STEEL BODY

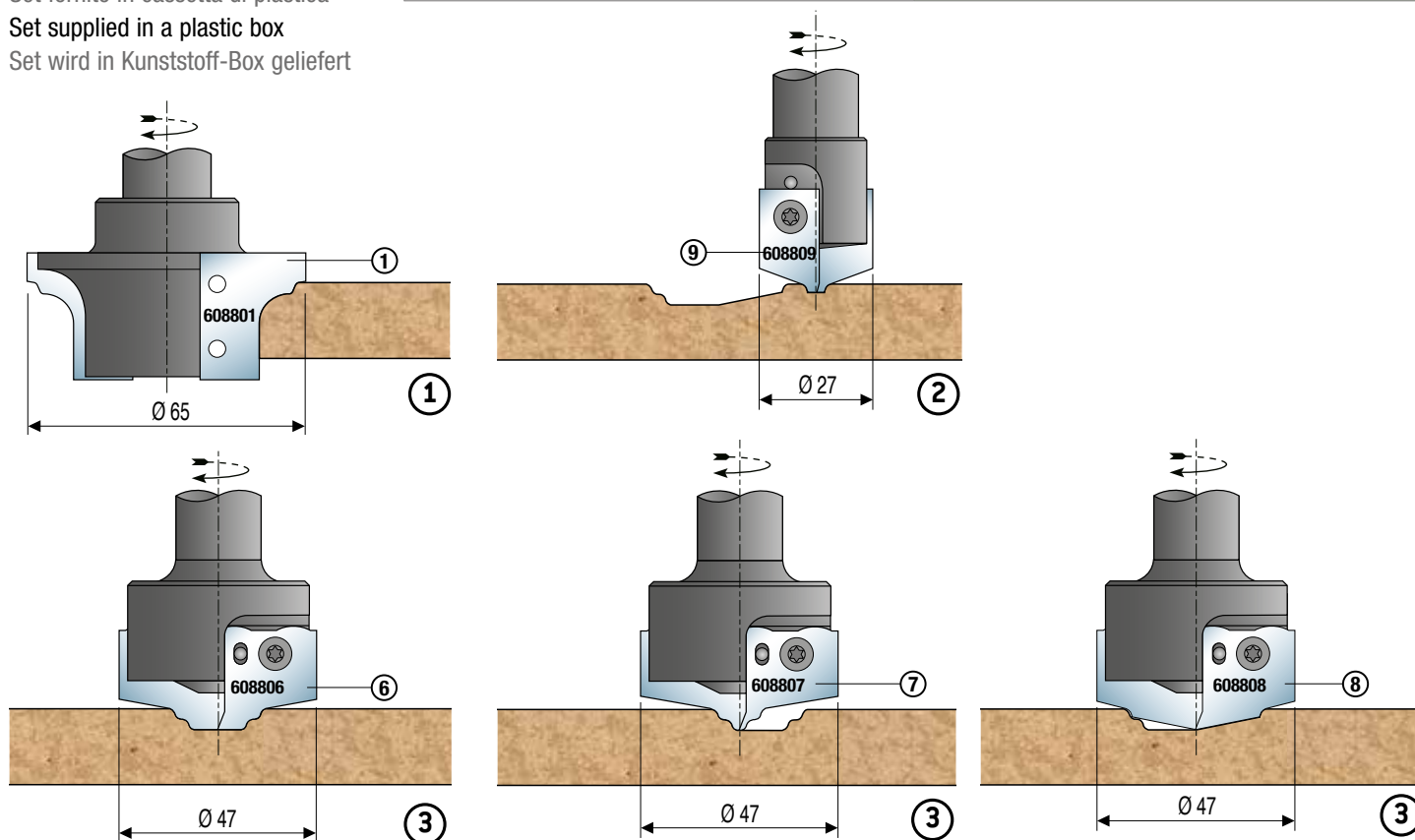
Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

Set di 5 frese CNC a coltellini intercambiabili, con corpo in acciaio, per la realizzazione di profilo antine.
Il set è completo di 5 profili e chiave di ricambio.

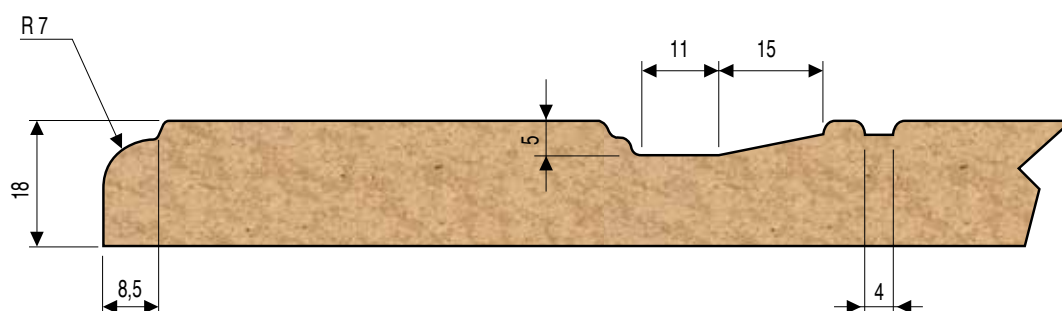
Set of 5 CNC cutters with interchangeable knives, with steel body, for making cabinets. The set includes 5 profiles and a spare key.

Satz von 5 CNC-Fräsern mit austauschbaren Messern, mit Stahlkörper, für die Herstellung von Möbeltüren. Das Set enthält 5 Profile und einen Ersatzschlüssel.

PH88FM20						Ricambi / Spare Parts / Ersatzteile				
Dim. Dim. Ab. [mm]	Z	Attacco Shank Schaft	PZ	Art. Nr.	Type					
Ø 65 x 30	Z2	att. 20 x 50	1 Pz.	PH88FM01	①	608801				
Ø 27 x 25	Z2	att. 20 x 50	1 Pz.	PH88FM02	②		608809			
Ø 47 x 25	Z2	att. 20 x 50	3 Pz.	PH88FM03	③			608806	608807	608808
Art. Nr. SET						€				
PH88FM20						1.192,50				



PROFILO / PROFILE / PROFIL



SET PER ANTINE
SET FOR CABINETS
SET FÜR MOBELFRÖNTEN



STEEL BODY

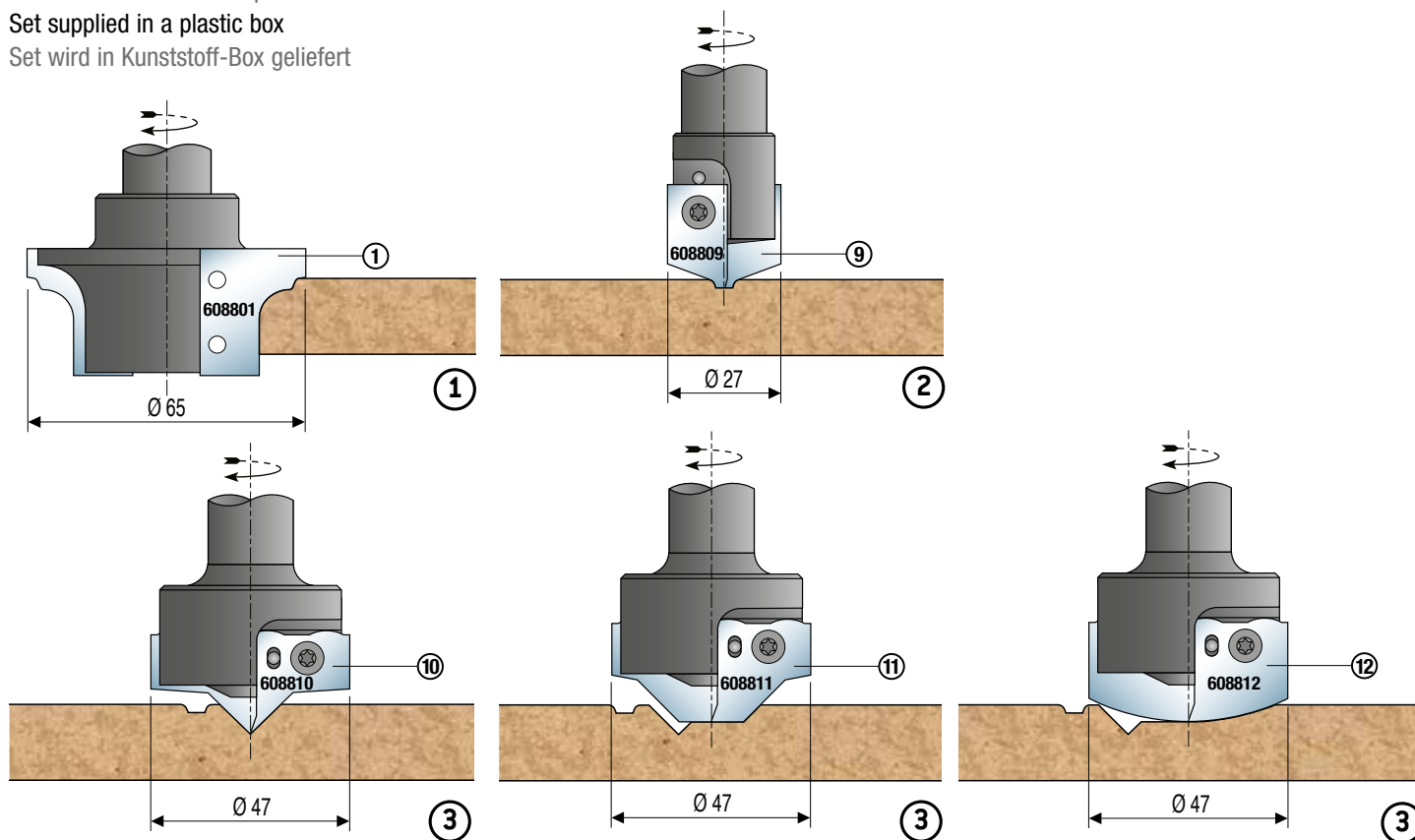
Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

Set di 5 frese CNC a coltellini intercambiabili, con corpo in acciaio, per la realizzazione di profilo antine.
Il set è completo di 5 profili e chiave di ricambio.

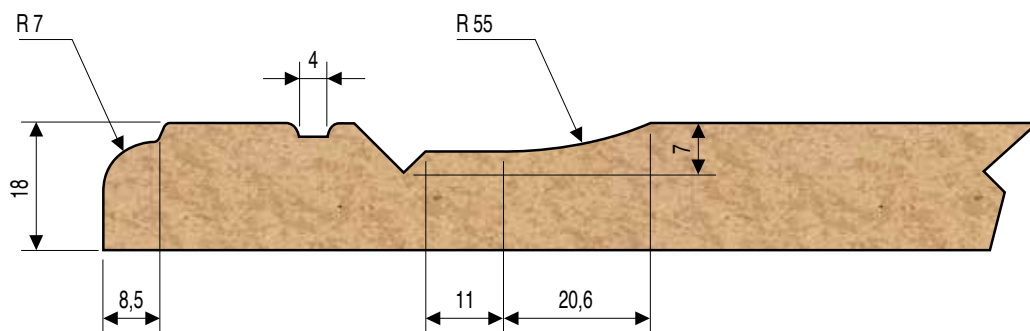
Set of 5 CNC cutters with interchangeable knives, with steel body, for making cabinets. The set includes 5 profiles and a spare key.

Satz von 5 CNC-Fräsern mit austauschbaren Messern, mit Stahlkörper, für die Herstellung von Möbeltüren. Das Set enthält 5 Profile und einen Ersatzschlüssel.

PH88FM30						Ricambi / Spare Parts / Ersatzteile				
Dim. Dim. Ab. [mm]	Z	Attacco Shank Schaft	PZ	Art. Nr.	Type					
Ø 65 x 30	Z2	att. 20 x 50	1 Pz.	PH88FM01	①	608801				
Ø 27 x 25	Z2	att. 20 x 50	1 Pz.	PH88FM02	②		608809			
Ø 47 x 25	Z2	att. 20 x 50	3 Pz.	PH88FM03	③			608810	608811	608812
Art. Nr. SET						€				
PH88FM30						1.192,50				



PROFILO / PROFILE / PROFIL



SET PER ANTINE
SET FOR CABINETS
SET FÜR MOBELFRÖNTEN



STEEL BODY

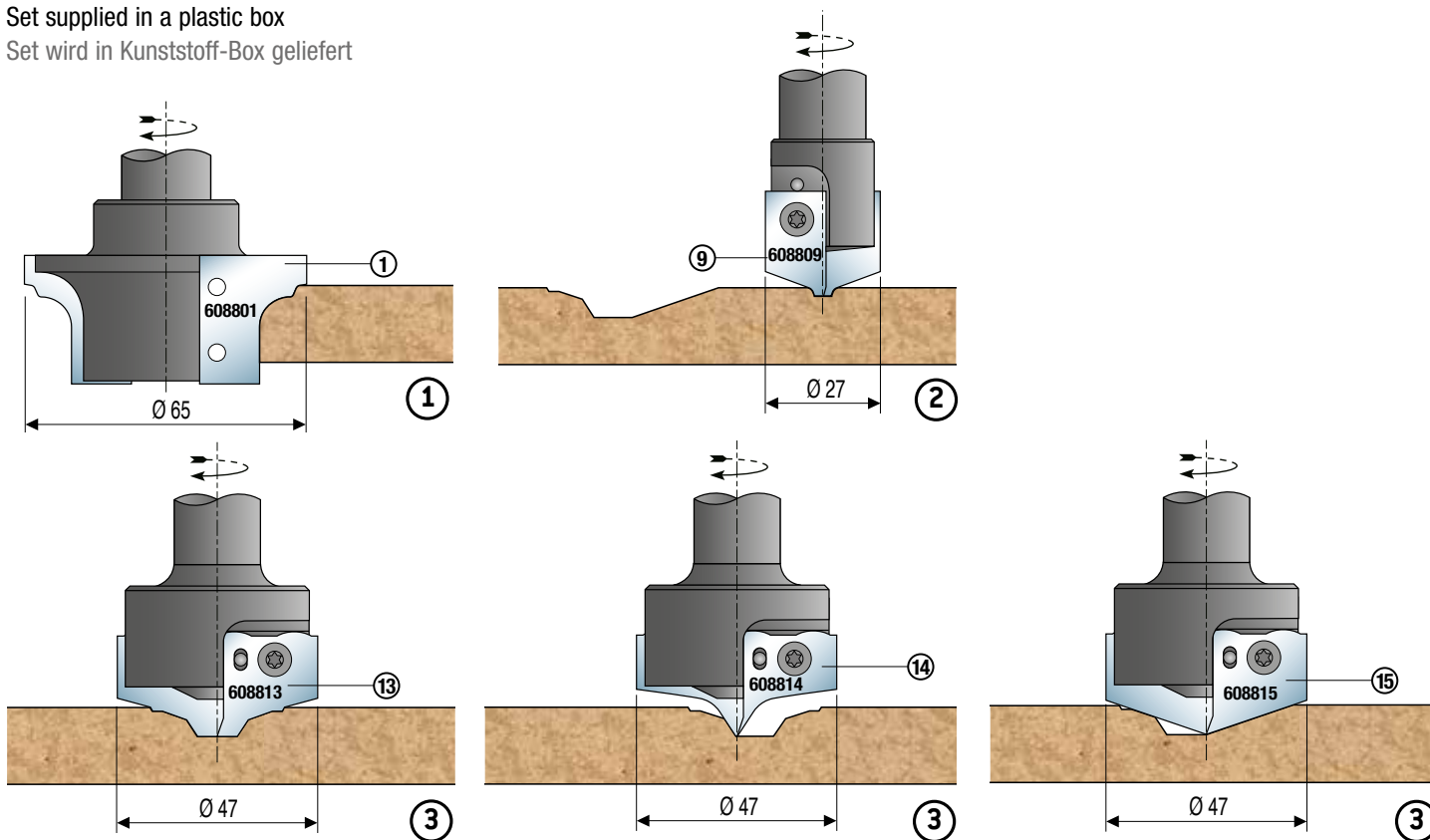
Set fornito in cassetta di plastica
Set supplied in a plastic box
Set wird in Kunststoff-Box geliefert

Set di 5 frese CNC a coltellini intercambiabili, con corpo in acciaio, per la realizzazione di profilo antine.
Il set è completo di 5 profili e chiave di ricambio.

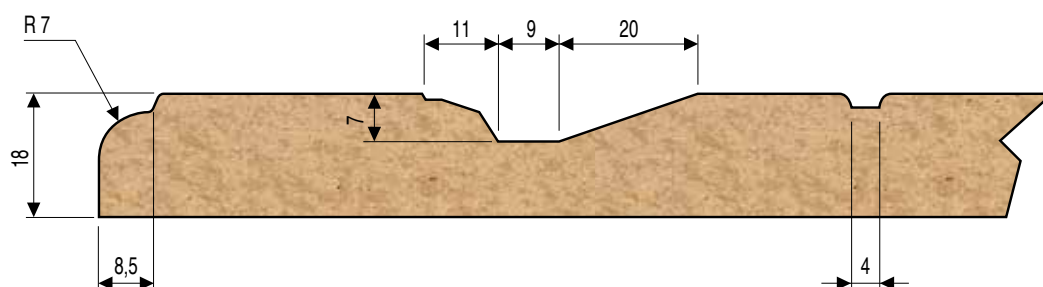
Set of 5 CNC cutters with interchangeable knives, with steel body, for making cabinets. The set includes 5 profiles and a spare key.

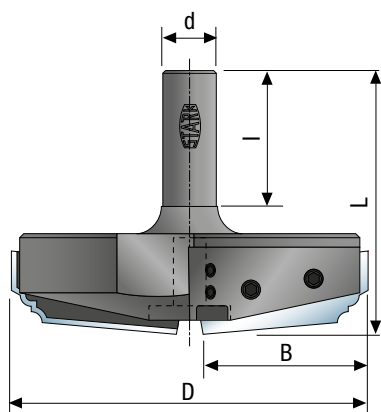
Satz von 5 CNC-Fräsern mit austauschbaren Messern, mit Stahlkörper, für die Herstellung von Möbeltüren. Das Set enthält 5 Profile und einen Ersatzschlüssel.

PH88FM40						Ricambi / Spare Parts / Ersatzteile				
Dim. Dim. Ab. [mm]	Z	Attacco Shank Schaft	PZ	Art. Nr.	Type					
Ø 65 x 30	Z2	att. 20 x 50	1 Pz.	PH88FM01	①	608801				
Ø 27 x 25	Z2	att. 20 x 50	1 Pz.	PH88FM02	②		608809			
Ø 47 x 25	Z2	att. 20 x 50	3 Pz.	PH88FM03	③			608813	608814	608815
Art. Nr. SET						€				
PH88FM40						1.192,50				



PROFILO / PROFILE / PROFIL





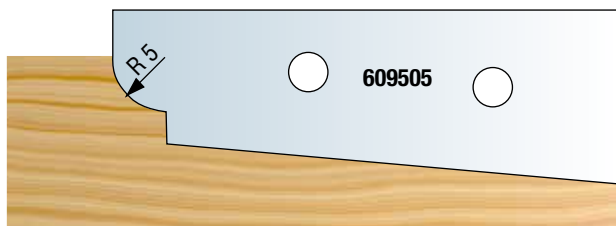
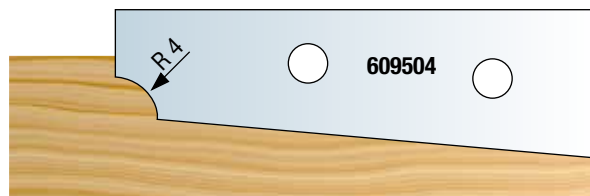
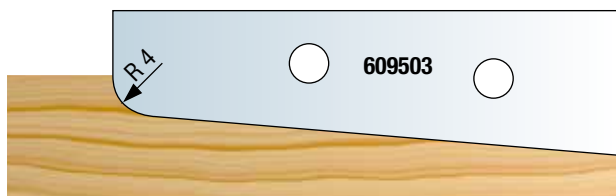
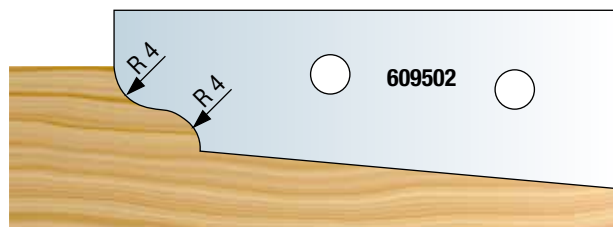
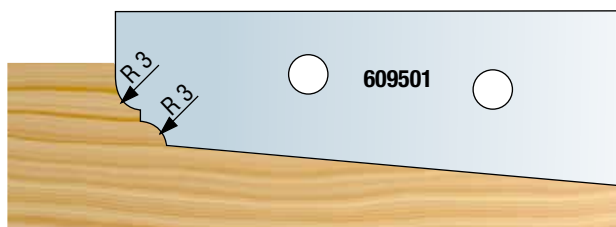
STEEL BODY

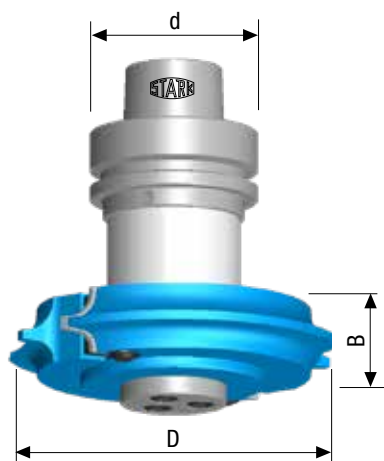
Fresa CNC Z2 a coltellini intercambiabili, con corpo in acciaio, ideale per la realizzazione di profili piattabanda. La fresa è compresa di coltelli. In fase d'ordine specificare il profilo richiesto.

CNC cutter Z2 with interchangeable knives, with steel body, ideal for flat profiles. The router is already equipped with profiled knives. When ordering please specify the profile required.

CNC-Fräser Z2 mit auswechselbaren Messern, mit Stahlkörper, ideal für die Herstellung von Flachprofilen. Der Fräser ist mit Messern ausgestattet. Bitte geben Sie bei der Bestellung das gewünschte Profil an.

PH95FM01								Ricambi / Spare Parts / Ersatzteile				
Ø D [mm]	B [mm]	L [mm]	Attacco / Shank Schaft		Z	Art. Nr.	€					
			Ø d [mm]	l [mm]								
138	46,5	97	20 / 25	50	2	PH95FM01	560,50	609501	CC9501	309501	509501	400003
								609502	CC9502			
								609503	CC9503			
								609504	CC9504			
								609505	CC9505			





LIGHT ALLOY BODY

Set fresa CNC, con corpo in alluminio, completa di attacco HSK 63F.

Il set, pensato per la realizzazione di molteplici profili raggiati, è composto da una testa in lega leggera con due coltelli di R 5/10 mm montati sull'utensile e quattro coltelli con R 3/6 mm e R 4/8 mm di ricambio.

CNC cutter set, with aluminium body, complete with HSK 63F attachment.

The set, designed for the production of multiple radius profiles, consists of a light alloy head with two knives of R 5/10 mm mounted on the tool and four spare knives of R 3/6 mm and R 4/8 mm.

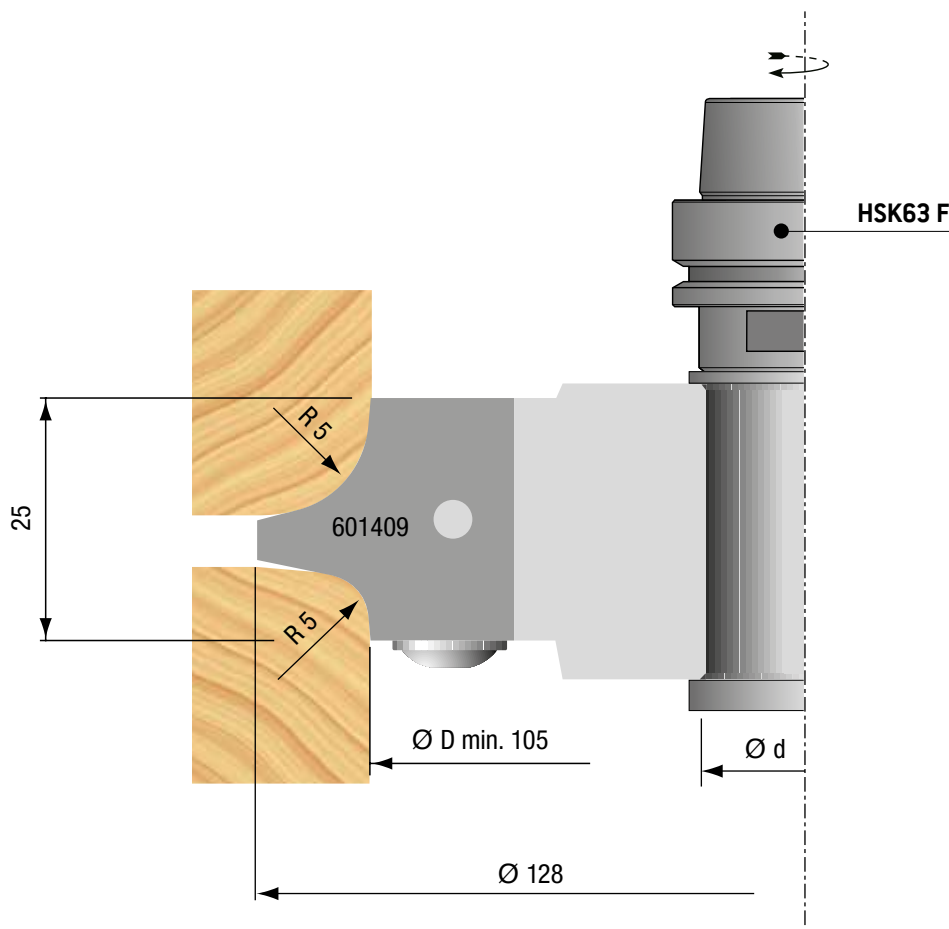
CNC-Fräasersatz, mit Aluminiumkörper, komplett mit HSK 63F-Aufnahme.

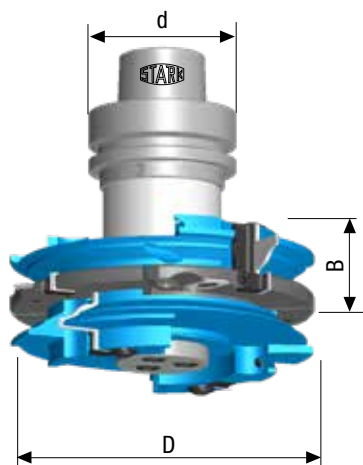
Das Set, welches für die Herstellung von Profilen mit mehreren Radien gedacht ist, besteht aus einem Leichtmetallkopf mit zwei auf dem Werkzeug montierten Messern von R 5/10 mm und vier Ersatzmessern von R 3/6 mm und R 4/8 mm.

GS107BZM									Ricambi / Spare Parts / Ersatzteile:					
Ø D [mm]	B [mm]	Ø d [mm]	Z	R [mm]	RPM min-max	Art. Nr.		€						
128	25	30	2	3-4-5-6-8-10	5800 - 10200	GS107BZM030	•	389,80	YH110BAM	601409	601410	601411	340025	501404

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Coltelli in dotazione 601409 / Knives supplied 601409 / Mitgelieferte Messer 601409





LIGHT ALLOY BODY

Set fresa CNC, con corpo in alluminio, completa di attacco HSK 63F. Il set, composto da 2 teste a profilare, 1 testa per incastri regolabile e di anelli distanziali di regolazione, è stato creato per realizzare con la massima flessibilità antine e porte (cinque profili diversi possibili, A di serie). L'incastro registrabile presente nel gruppo può essere utilizzato anche singolarmente per l'esecuzione di incastri regolabili da 8 a 15 mm di spessore.

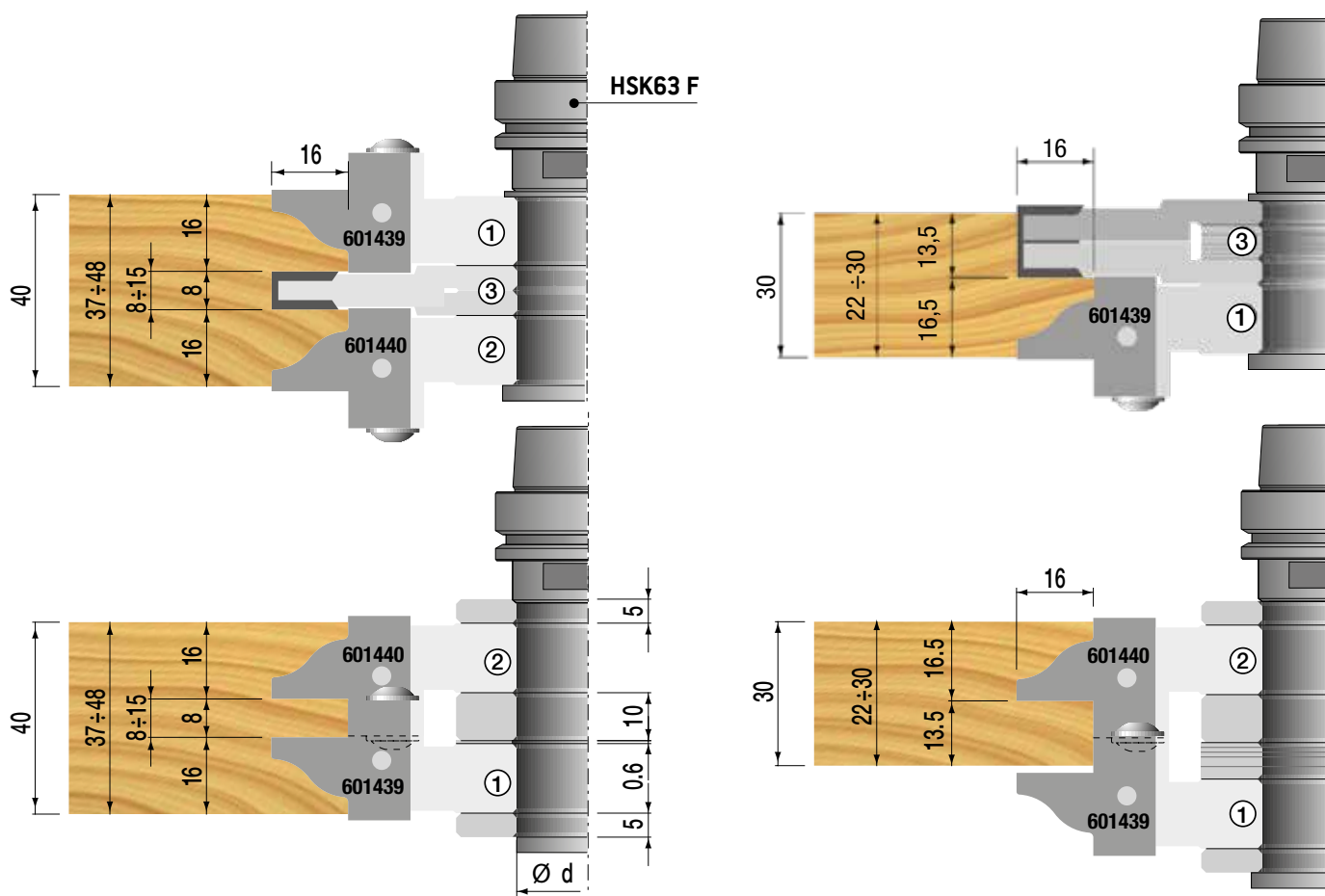
CNC router set, with aluminium body, complete with HSK 63F attachment. The set, consisting of 2 profile heads, 1 adjustable groove head and adjusting spacer rings, is designed to produce doors and cabinets with maximum flexibility (five different profiles possible, A as standard). The adjustable groove in the unit can also be used individually to make adjustable grooves from 8 to 15 mm thick.

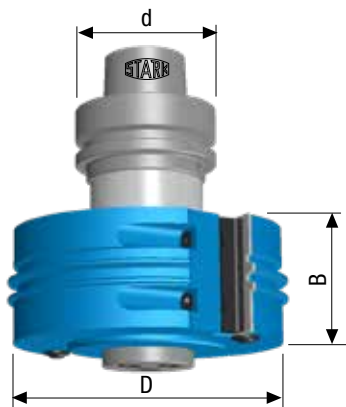
CNC-Fräasersatz, mit Aluminiumkörper, komplett mit HSK 63F-Aufnahme. Das Set, bestehend aus 2 Profilköpfen, 1 verstellbaren Nutkopf und verstellbaren Distanzringen, und ist für die flexible Herstellung von Türen und Klappen konzipiert (fünf verschiedene Profile möglich, A als Standard). Der im Set enthaltene einstellbare Rillenkopf kann auch einzeln verwendet werden, um Rillen mit von 8 bis 15 mm verstellbarer Breite herzustellen.

GS112AZM								Ricambi / Spare Parts / Ersatzteile								
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	RPM min-max	Art. Nr.	€									
132	65	30	2+2+2	4	5700 - 9800	GS112AZM030	655,80	① YH115AAM	601439	601441	601443	601445	601447	340018	501316	
								② YH116AAM	601440	601442	601444	601446	601448	340019	501316	
								③ YH117ACM	600001					350021	502403	600201

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Coltelli in dotazione 601439 e 601440 / Knives supplied 601439 and 601440 / Mitgelieferte Messer 601439 und 601440





LIGHT ALLOY BODY

Set fresa CNC, con corpo in alluminio, completa di attacco HSK 63F. Utensile a due taglienti con corpo in lega leggera e coltelli in HM. Adatto per realizzare giunzioni lungo e trasverso vena.

CNC cutter set, with aluminium body, complete with HSK 63F attachment. Two-cutter tool with light alloy body and HM knives. Suitable for making along and cross grain joints.

CNC-Frärsatz, mit Aluminiumkörper, komplett mit HSK 63F-Aufnahme. Zweischneidiges Werkzeug mit Leichtmetallkörper und HM-Messern. Geeignet für die Herstellung von Längs- und Quer-Verbindungsstellen.

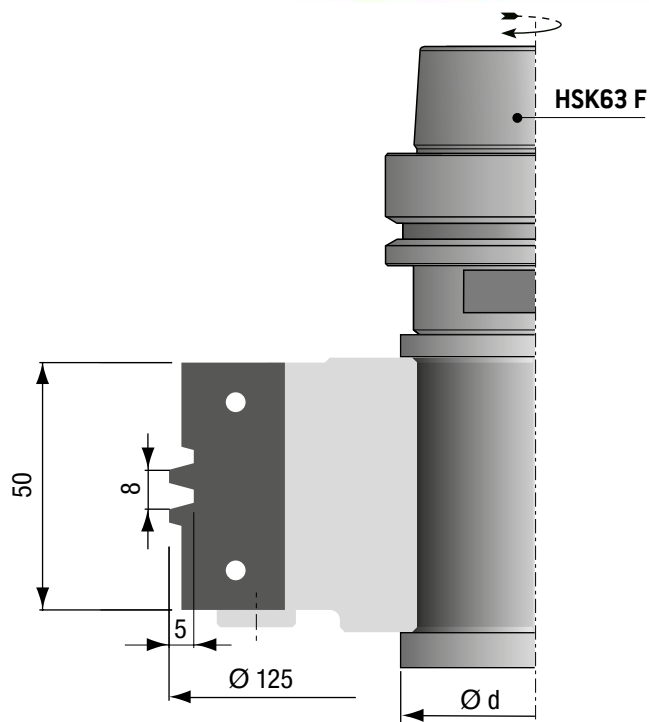
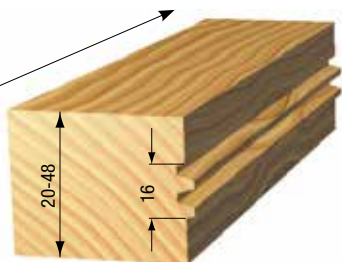
GH152AAM									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Type	Art. Nr.		€			
125	50	30	2	6100 - 10600	①	GH152AAM030	•	420,50	605002	340011	501403

GH156AAM									Ricambi / Spare Parts / Ersatzteile		
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Type	Art. Nr.		€			
125	60	30	3	6100 - 10600	②	GH156AAM030	•	451,90	605004	340041	501403

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

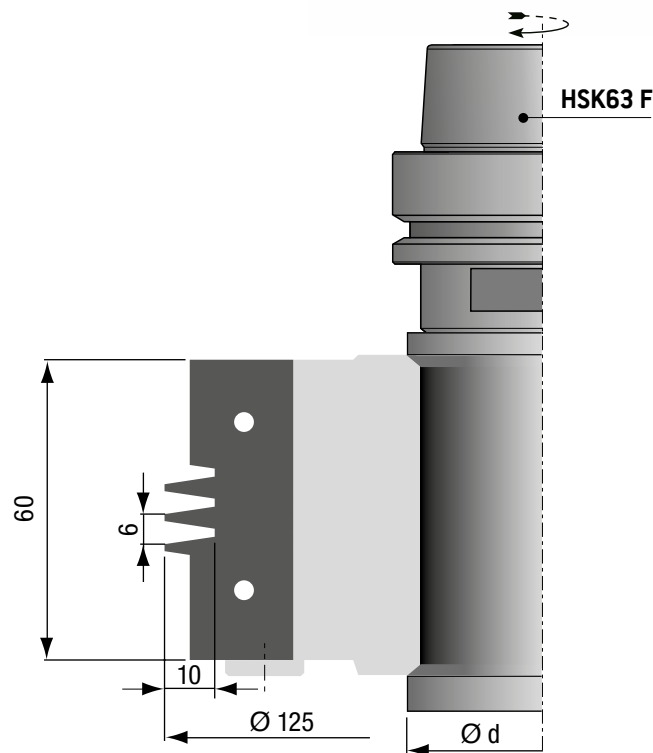
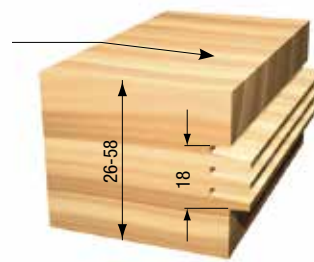
GIUNZIONI LUNGO VENA
ALONG THE GRAIN JOINTS
LÄNGSSCHNITT

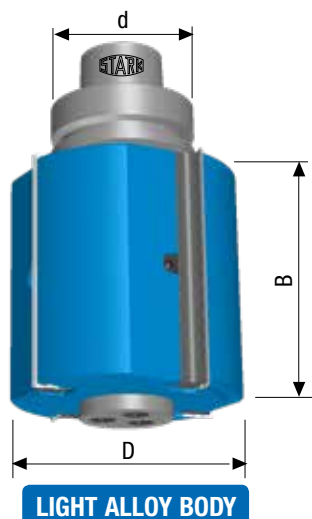
GH152AAM



GIUNZIONI TRAVERSO VENA
ACROSS THE GRAIN JOINTS
QUERSCHNITT

GH156AAM





Set fresa CNC, con corpo in alluminio, completa di attacco HSK 63F. Testa a piallare con coltelli reversibili intercambiabili adatta per lavorare legni teneri e duri, truciolari e composti, su scorniciatrici e profilatrici automatiche. Il brevettato bloccaggio centrifugo consente la sostituzione rapida e precisa dei coltelli. L'utensile può montare indifferentemente coltelli in acciaio HSS (standard) o in HM integrale (ordinabili separatamente).

CNC router set, with aluminium body, complete with HSK 63F attachment. Planing head with interchangeable reversible knives, suitable for machining soft and hard wood, chipboard and composites, on automatic moulding and profiling machines. The patented centrifugal locking system allows fast and accurate knife replacement. The tool can be fitted with either HSS (standard) or solid HM knives (can be ordered separately).

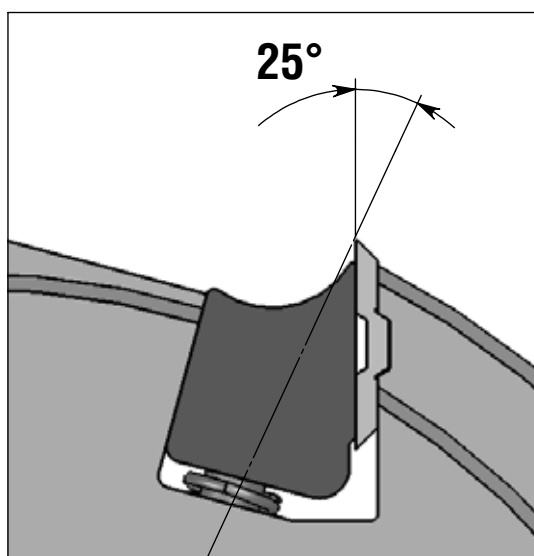
CNC-Fräasersatz, mit Aluminiumkörper, komplett mit HSK 63F-Aufnahme. Hobelkopf mit austauschbaren Wendemessern, geeignet für die Bearbeitung von Weich- und Hartholz, Spanplatten und Verbundwerkstoffen, auf automatischen Kehl- und Profiliermaschinen. Das patentierte Zentrifugalverriegelungssystem ermöglicht einen schnellen und präzisen Messerwechsel.

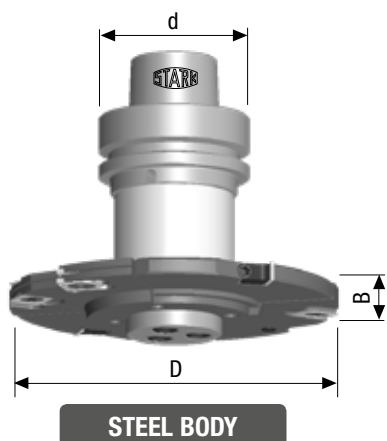
Das Werkzeug kann entweder mit HSS- (Standard) oder mit HM-Messer (separat zu bestellen) ausgestattet werden.

"PLANNEX" GH73FS							Ricambi / Spare Parts / Ersatzteile			
Ø D [mm]	B [mm]	Ø d [mm]	Z	RPM min-max	Art. Nr.	€				
125	130	40	4	10000	GH73FS15040	576,80	CT080S04	371004	501701	400003

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

ANGOLI DI TAGLIO
RAKE ANGLES
SPANWILKEN
25°



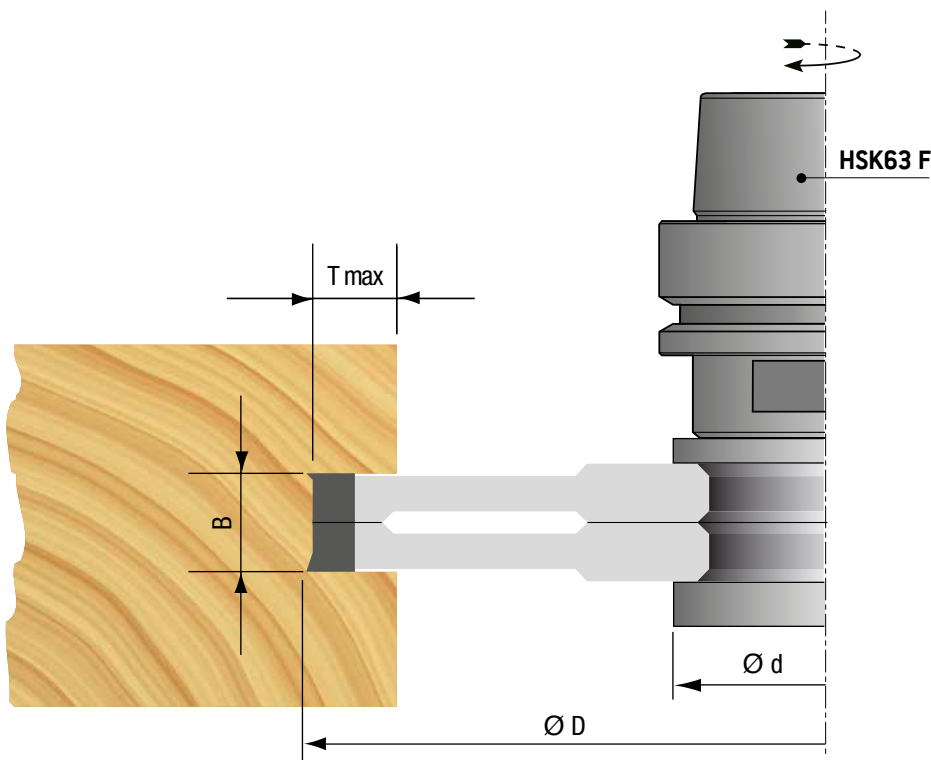


Set fresa CNC, con corpo in acciaio, completa di attacco HSK 63F, con coltellini e rasanti in HM reversibili per eseguire incastri sottili di precisione (da 4 a 15 mm). L'utensile viene fornito completo di anelli distanziali. L'elemento centrale (tipo B) a due taglienti, monta coltelli standard da 7,65x12x1,5 mm.

CNC cutter set, with steel body, complete with HSK 63F attachment, with reversible HM knives and spurs for precision thin joints (4 to 15 mm). The tool is supplied complete with spacer rings. The central element (type B) with two cutting edges, mounts standard 7.65x12x1.5 mm knives.

CNC-Fräasersatz, mit Stahlkörper, komplett mit HSK 63F-Aufnahme, mit wendbaren HM-Messern und Vorschneidern für dünne Präzisionsverbindungen (4 bis 15 mm). Das Werkzeug wird komplett mit Distanzringen geliefert. Das zentrale Element (Typ B) mit zwei Schneiden, nimmt Standardmesser der Größe 7,65x12x1,5 mm auf.

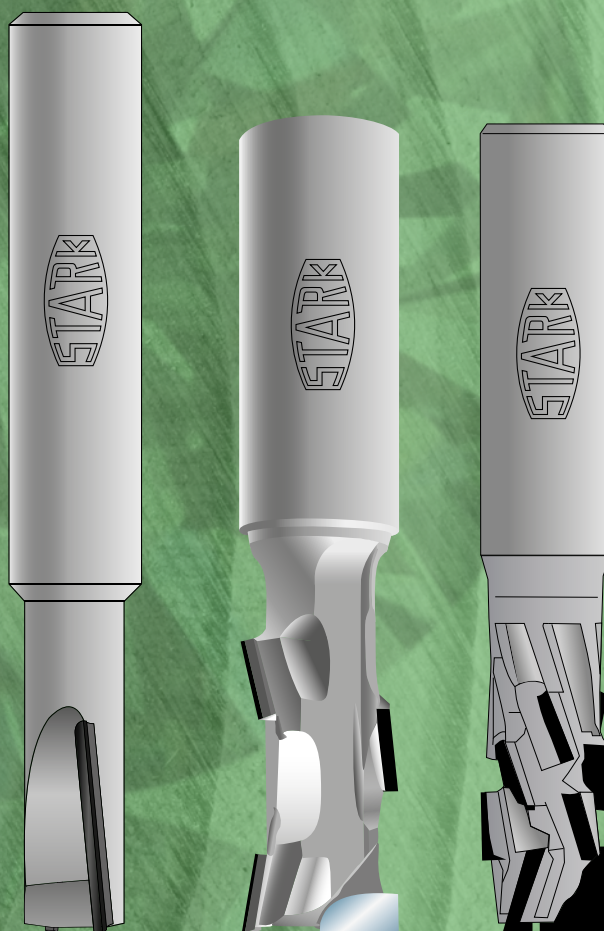
GH23TM									Ricambi / Spare Parts / Ersatzteile					
Ø D [mm]	B [mm]	Ø d [mm]	Z	V	T max [mm]	RPM min-max	Art. Nr.	€						
140	4 - 7,5	30	4	4	32	5500 - 9400	GH23TM15030	419,20	600301	500401	501101	600202	500401	501001





YOUR STORIES, OUR BLADES

UTENSILI IN DIAMANTE DIAMOND TOOLS LINE DIAMANT-WERKZEUGE



/03 CNC

Utensili con taglienti in PCD per una maggiore vita

Tools with PCD cutting edge for a longer lifetime

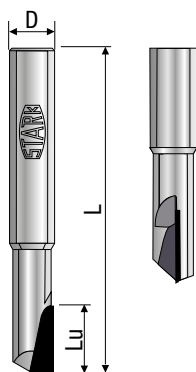
Werkzeuge mit PCD-Schneide für eine längere Lebensdauer

PUNTA PER SCANALATURE CON CORPO IN HM (DIA) ROUTER BIT WITH HM BODY (PCD) SCHAFTFRÄSER MIT HW KÖRPER (PKD)

IMPIEGO: Punta per scanalature con corpo in HM. Forante in Diamante a richiesta.

USE: Router bit with HM body. Diamond drilling tip on request.

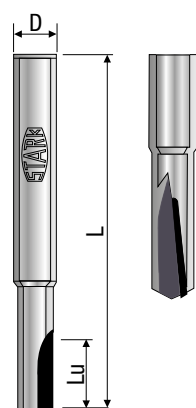
ANWENDUNG: Schaftfräser MIT Hw Körper. DIA Einbohrschneide auf Anfrage.



SOLID HM BODY

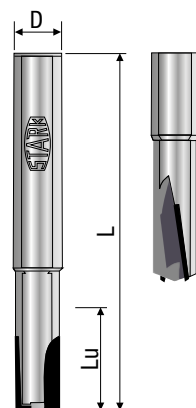
PD13FD										
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Axial Angle	Placchetta Tip Schneide		Art. Nr.
			Ø d [mm]	l [mm]				n°	Mat.	
5	10	60	6	40	1	DX	0°	1	PCD/PKD	PD13FD28
6	12	60	6	40	1	DX	0°	1	PCD/PKD	PD13FD29

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



SOLID HM BODY

PD13FD										
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Axial Angle	Placchetta Tip Schneide		Art. Nr.
			Ø d [mm]	l [mm]				n°	Mat.	
8	12	70	8	45	1	DX	-6°	1	PCD/PKD	PD13FD30

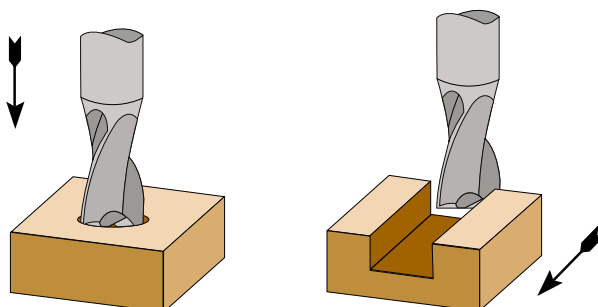


SOLID HM BODY

PD13FD										
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Axial Angle	Placchetta Tip Schneide		Art. Nr.
			Ø d [mm]	l [mm]				n°	Mat.	
8	15	70	8	45	2	DX	-6°	2	PCD/PKD	PD13FD31
8	20	70	12	45	2	DX	-4°	2	PCD/PKD	PD13FD32
10	15	75	12	45	2	DX	-8°	2	PCD/PKD	PD13FD33
10	20	75	10	45	2	DX	-5°	2	PCD/PKD	PD13FD34

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

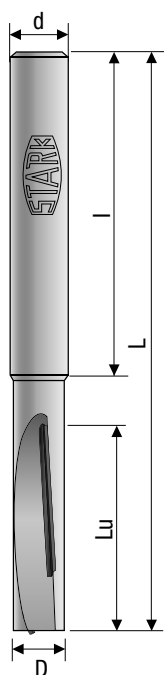


**PUNTA CON CORPO IN HM (DIA)
ROUTER BIT WITH HM BODY (PCD)
SCHAFTFRÄSER MIT HW KÖRPER (PKD)**

IMPIEGO: Punta con corpo in HM per forare e contornare.

USE: Router bit for drilling and routing with HM body.

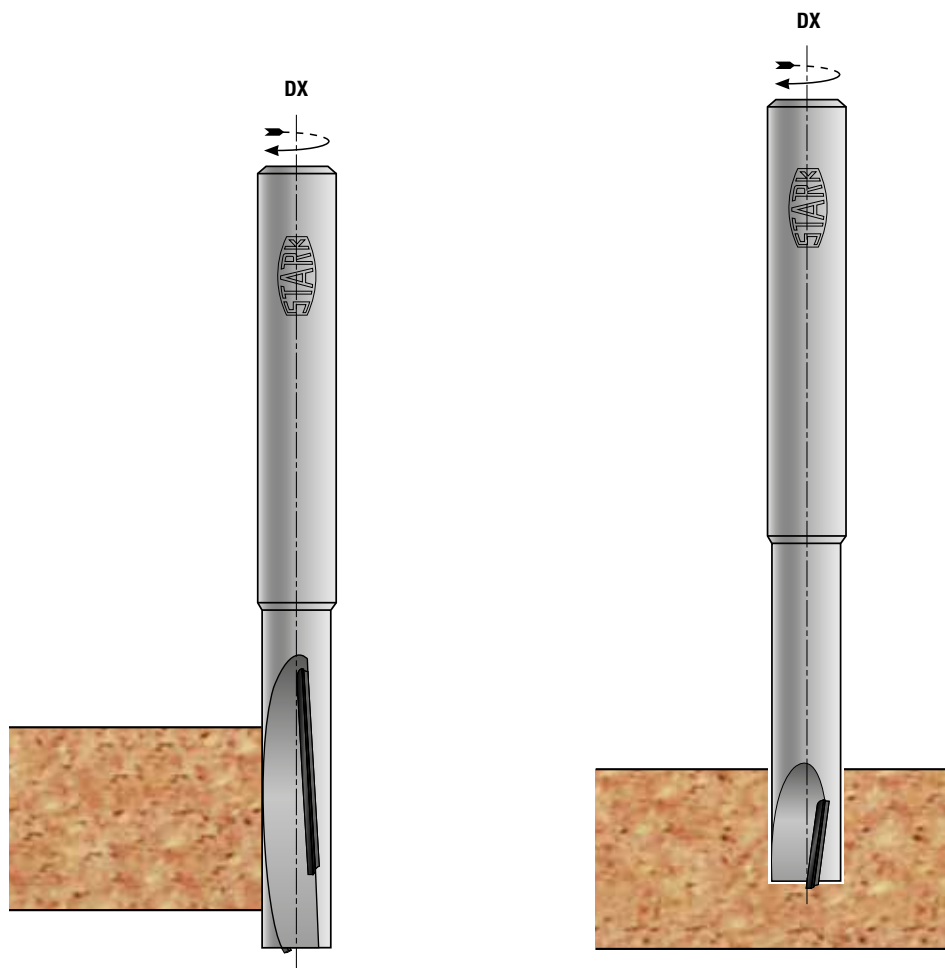
ANWENDUNG: Schaftfräser mit Hw Körper.



SOLID HM BODY

PD14FD										
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	 DX	Placchetta Tip Schneide		Art. Nr.	€
			Ø d [mm]	l [mm]			Mat.	h [mm]		
8	28	80	8	45	1+1	DX	PCD	3	PD14FD01	166,50
10	28	80	8	45	1+1	DX	PCD	3	PD14FD02	184,50

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

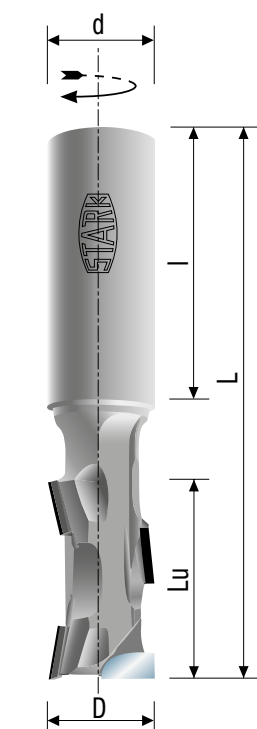


PUNTA PER FORARE E CONTORNARE Z 1+1 (DIA)
ROUTER BIT FOR DRILLING AND ROUTING Z 1+1 (PCD)
SCHAFTFRÄSER Z 1+1 (PKD)

IMPIEGO: Punta per forare e contornare. Forante in diamante a richiesta. Corpo in acciaio.

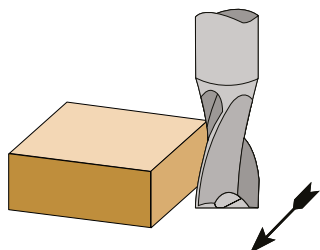
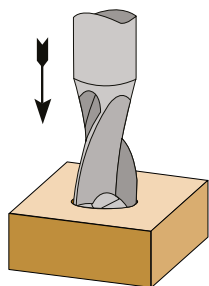
USE: Router bit for drilling and routing. Diamond drilling tip on request. Steel body.

ANWENDUNG: Schaftfräser. DIA Einbohrschneide auf Anfrage. Stahlkörper.



STEEL BODY

DRILLING TIP HW



PD15FD									
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide	Art. Nr.	€
			Ø d [mm]	l [mm]			n°		
10	25	75	10	40	1+1	DX	3 + 1HM	PD15FD07	64,30
12	25	75	12	40	1+1	DX	3 + 1HM	PD15FD09	64,30
12	34	84	12	40	1+1	DX	4 + 1HM	PD15FD11	85,70
12	43	93	12	40	1+1	DX	5 + 1HM	PD15FD67	107,10
16	25	85	16	50	1+1	DX	3 + 1HM	PD15FD13	64,30
16	34	94	16	50	1+1	DX	4 + 1HM	PD15FD15	85,70
16	43	103	16	50	1+1	DX	5 + 1HM	PD15FD17	107,10
18	25	85	20	50	1+1	DX	3 + 1HM	PD15FD19	64,30
18	34	94	20	50	1+1	DX	4 + 1HM	PD15FD21	85,70
18	43	103	20	50	1+1	DX	5 + 1HM	PD15FD23	107,10
20	25	85	20	50	1+1	DX	3 + 1HM	PD15FD27	64,30
20	35	95	20	50	1+1	DX	4 + 1HM	PD15FD29	85,70
20	43	103	20	50	1+1	DX	5 + 1HM	PD15FD31	107,10
20	52	112	20	50	1+1	DX	6 + 1HM	PD15FD33	128,60
20	61	121	20	50	1+1	DX	7 + 1HM	PD15FD35	150,00
20	70	130	20	50	1+1	DX	8 + 1HM	PD15FD37	171,40

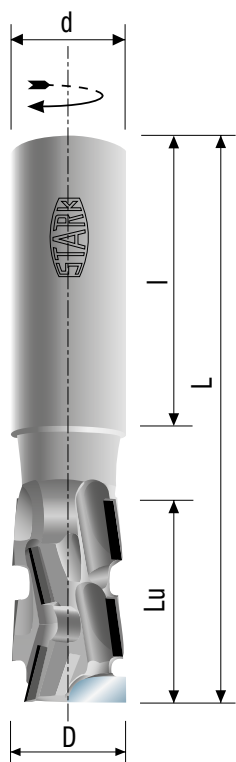
12,7 (1/2")	25	75	12,7 (1/2")	40	1+1	DX	4 + 1HM	PD15FD39	99,60
12,7 (1/2")	35	80	12,7 (1/2")	40	1+1	DX	5 + 1HM	PD15FD41	124,50
15,87 (5/8")	25	95	15,87 (5/8")	50	1+1	DX	3 + 1HM	PD15FD43	93,40
15,87 (5/8")	34	95	15,87 (5/8")	50	1+1	DX	4 + 1HM	PD15FD45	124,50
15,87 (5/8")	43	105	15,87 (5/8")	50	1+1	DX	5 + 1HM	PD15FD47	155,60
15,87 (5/8")	25	95	19,05 (3/4")	50	1+1	DX	3 + 1HM	PD15FD49	93,40
15,87 (5/8")	34	95	19,05 (3/4")	50	1+1	DX	4 + 1HM	PD15FD51	124,50
15,87 (5/8")	43	105	19,05 (3/4")	50	1+1	DX	5 + 1HM	PD15FD53	155,60
19,05 (3/4")	25	95	19,05 (3/4")	50	1+1	DX	3 + 1HM	PD15FD55	93,40
19,05 (3/4")	35	95	19,05 (3/4")	50	1+1	DX	4 + 1HM	PD15FD57	124,50
19,05 (3/4")	43	105	19,05 (3/4")	50	1+1	DX	5 + 1HM	PD15FD59	155,60
19,05 (3/4")	50	110	19,05 (3/4")	50	1+1	DX	6 + 1HM	PD15FD61	186,70
19,05 (3/4")	58	120	19,05 (3/4")	50	1+1	DX	7 + 1HM	PD15FD63	217,80
19,05 (3/4")	66	125	19,05 (3/4")	50	1+1	DX	8 + 1HM	PD15FD65	248,90

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 5 pz per tipo / Minimum quantity order: 5 pcs/each

Mindest bestellmengen: 5 stück /pro

PUNTA PER FORARE E CONTORNARE Z 2+2 (DIA)
ROUTER BIT FOR DRILLING AND ROUTING Z 2+2 (PCD)
SCHAFTFRÄSER Z 2+2 (PKD)



STEEL BODY

DRILLING TIP HW

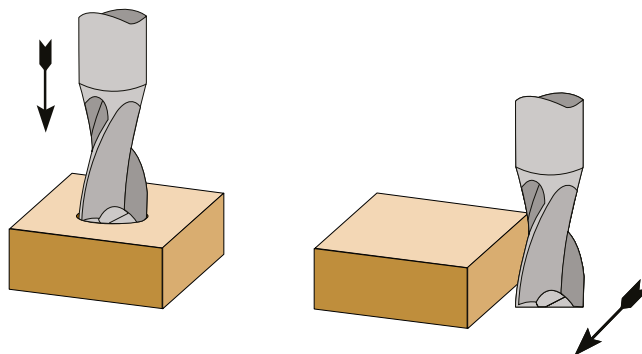
IMPIEGO: Punta per forare e contornare. Forante in diamante a richiesta. Corpo in acciaio.

USE: Router bit for drilling and routing. Diamond drilling tip on request. Steel body.

ANWENDUNG: Schaftfräser. DIA Einbohrschneide auf Anfrage. Stahlkörper.

PD16FD									
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide	Art. Nr.	€
			Ø d [mm]	l [mm]			n°		
18	25	85	20	50	2+2	DX	6 + 1HM	PD16FD13	114,30
18	34	94	20	50	2+2	DX	9 + 1HM	PD16FD15	152,40
18	43	103	20	50	2+2	DX	10 + 1HM	PD16FD01	190,40
20	25	85	20	50	2+2	DX	6 + 1HM	PD16FD05	114,30
20	34	94	20	50	2+2	DX	8 + 1HM	PD16FD07	152,40
20	43	103	20	50	2+2	DX	10 + 1HM	PD16FD09	190,40
20	52	112	20	50	2+2	DX	12 + 1HM	PD16FD11	228,50
20	70	130	20	50	2+2	DX	16 + 1HM	PD16FD17	304,70

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

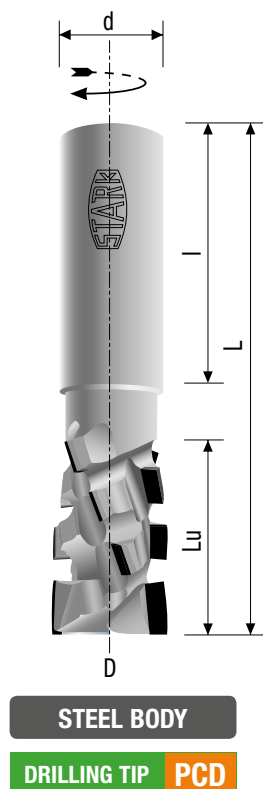


PUNTA MULTIDENTI AD ALTA RESA Z 2+2 (DIA)
HIGH PERFORMANCE MULTI-CUTTING ROUTER BIT Z 2+2 (PCD)
HOCHSLEISTUNGS-SCHAFTFRÄSER Z 2+2 (PKD)

IMPIEGO: Punta multidententi ad alta resa per forare e contornare. Forante in diamante.

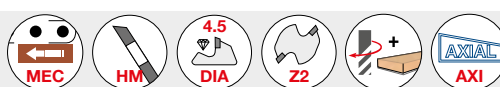
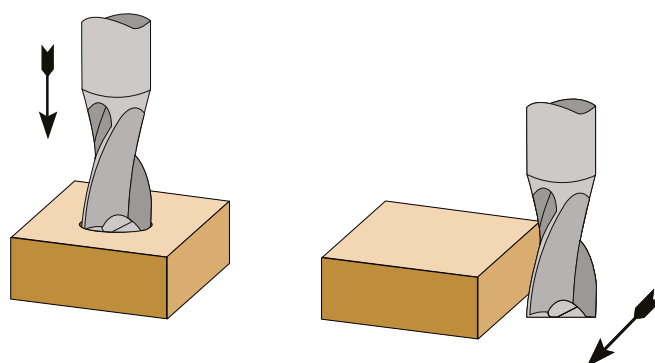
USE: High performance multi-cutting router bit for drilling and routing. Diamond drilling tip.

ANWENDUNG: Hochleistungs-schaftfräser. DIA Einbohrschneide.



PD18FD										
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide		Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.		
20	26	85	20	50	2+2	DX	9	PCD / PKD	PD18FD29	272,20
20	31	91	20	50	2+2	DX	11	PCD / PKD	PD18FD31	332,70
20	36	96	20	50	2+2	DX	13	PCD / PKD	PD18FD33	393,20
20	43	101	20	50	2+2	DX	15	PCD / PKD	PD18FD35	453,60
20	47	107	20	50	2+2	DX	17	PCD / PKD	PD18FD37	514,10
22	26	85	20	50	2+2	DX	9	PCD / PKD	PD18FD01	272,20
22	36	96	20	50	2+2	DX	13	PCD / PKD	PD18FD03	393,20
22	43	101	20	50	2+2	DX	15	PCD / PKD	PD18FD05	453,60
22	47	107	20	50	2+2	DX	17	PCD / PKD	PD18FD07	514,10
22	57	117	20	50	2+2	DX	21	PCD / PKD	PD18FD09	635,10
25	43	106	25	55	2+2	DX	15	PCD / PKD	PD18FD17	453,60
25	47	112	25	55	2+2	DX	17	PCD / PKD	PD18FD19	514,10
25	52	117	25	55	2+2	DX	19	PCD / PKD	PD18FD21	574,60
25	57	122	25	55	2+2	DX	21	PCD / PKD	PD18FD23	635,10
25	63	128	25	55	2+2	DX	23	PCD / PKD	PD18FD25	695,60
25	68	133	25	55	2+2	DX	25	PCD / PKD	PD18FD27	756,00

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

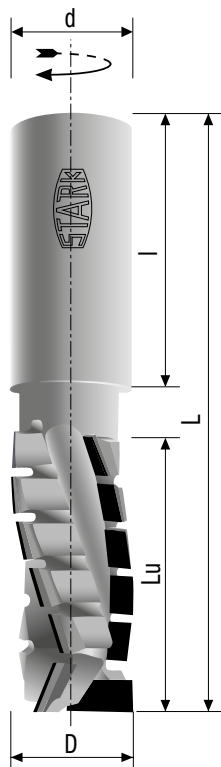


PUNTA ELICOIDALE MULTIDENTI Z 3+3 (DIA)
HELICAL MULTI-CUTTING ROUTER BIT Z 3+3 (PCD)
DIA-SCHAFTFRÄSER Z 3+3 (PKD)

IMPIEGO: Punta elicoidale multidententi per forare e contornare. Corpo in acciaio.

USE: Helical multi-cutting router bit for drilling and routing. Steel Body.

ANWENDUNG: Spiralförmiger, mehrschneidiger Fräser zum Bohren und Fräsen. Stahlkörper.

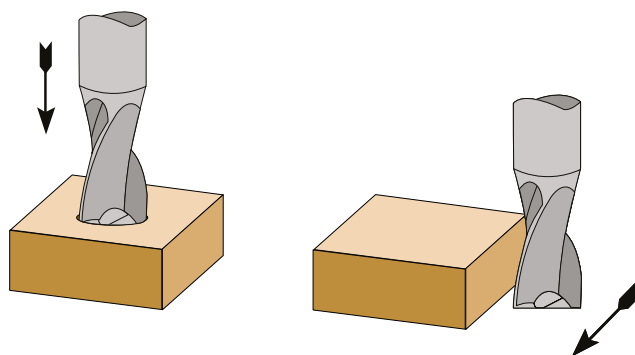


STEEL BODY

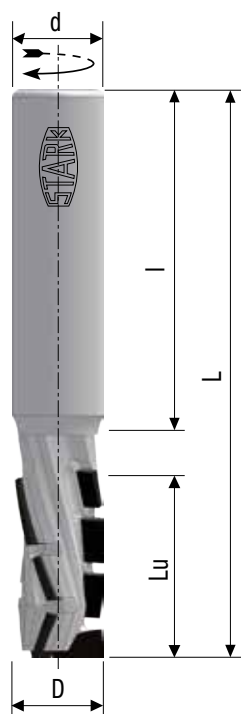
DRILLING TIP PCD

PD19FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
20	25	85	20	50	3+3	DX	11	PCD / PKD	4,5	PD19FD01	277,20
20	30	90	20	50	3+3	DX	14	PCD / PKD	4,5	PD19FD03	352,80
20	35	95	20	50	3+3	DX	17	PCD / PKD	4,5	PD19FD05	428,40
20	45	105	20	50	3+3	DX	23	PCD / PKD	4,5	PD19FD07	579,60
25	30	95	25	55	3+3	DX	14	PCD / PKD	4,5	PD19FD17	352,80
25	45	110	25	55	3+3	DX	23	PCD / PKD	4,5	PD19FD21	579,60
25	50	115	25	55	3+3	DX	26	PCD / PKD	4,5	PD19FD23	655,20
25	55	115	25	55	3+3	DX	29	PCD / PKD	4,5	PD19FD25	730,80

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage



PUNTA PER NESTING ELICOIDALE H3,5 (DIA)
SPIRAL ROUTER BIT FOR NESTING H3,5 (PCD)
NESTINGFRÄSER H3,5 (PKD)



HDM BODY

DRILLING TIP PCD

IMPIEGO: Punta per nesting elicoidale Z 2+2 / Z 3+3 H3,5. Corpo in metallo pesante.

USE: Spiral router bit for nesting Z 2+2 / Z 3+3 H3,5. High density metal body.

ANWENDUNG: Nestingfräser Z 2+2 / Z 3+3 H3,5. Schwermetallkörper.

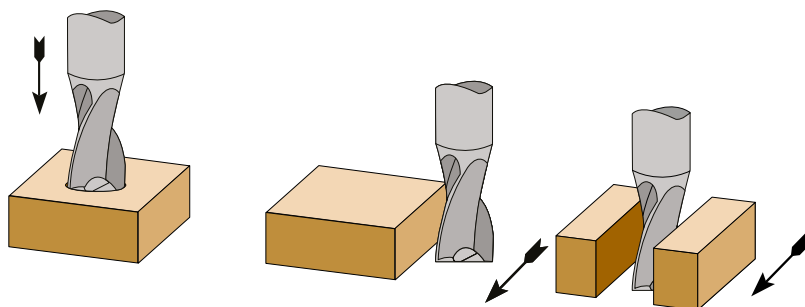
PD42FD

Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
12	18	70	12	40	2+2	DX	6	PCD / PKD	3,5	PD42FD01	212,00
12	25	70	12	40	2+2	DX	8	PCD / PKD	3,5	PD42FD02	257,40
12	28	75	12	40	2+2	DX	9	PCD / PKD	3,5	PD42FD03	280,10
12	34	80	12	40	2+2	DX	11	PCD / PKD	3,5	PD42FD04	325,60

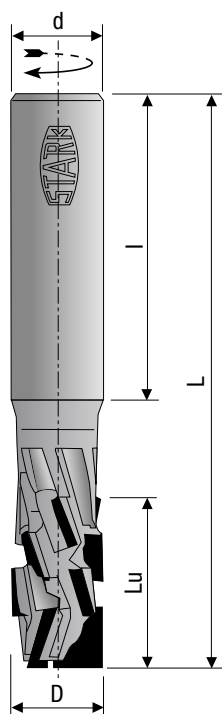
PD52FD

Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
12	21	70	12	40	3+3	DX	8	PCD / PKD	3,5	PD52FD01	270,00
12	25	75	12	40	3+3	DX	10	PCD / PKD	3,5	PD52FD02	315,40
12	27	75	12	40	3+3	DX	11	PCD / PKD	3,5	PD52FD03	338,20
14	27	85	16	50	3+3	DX	11	PCD / PKD	3,5	PD52FD04	401,30

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage



PUNTA PER NESTING H3,5 (DIA)
ROUTER BIT FOR NESTING H3,5 (PCD)
NESTINGFRÄSER H3,5 (PKD)



HDM BODY

DRILLING TIP PCD

IMPIEGO: Punta per nesting Z 2+2 / Z 3+3 H3,5. Corpo in metallo pesante, forante in PCD.

USE: Router bit for nesting Z 2+2 / Z 3+3 H3,5. High density metal body, PCD Drilling tip.

ANWENDUNG: Nestingfräser Z 2+2 / Z 3+3 H3,5. Schwermetallkörper.

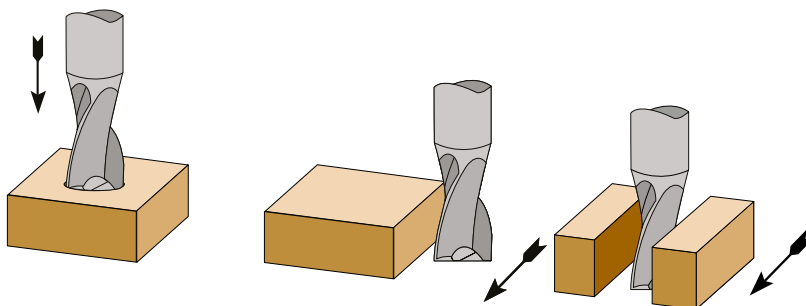
Schwermetallkörper, DIA Einbohrschneide.

PD12FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
12	19	65	12	40	2+2	DX	8	PCD / PKD	3,5	PD12FD07	224,70
12	22	70	12	40	2+2	DX	8	PCD / PKD	3,5	PD12FD01	270,00
12	24	70	12	40	2+2	DX	10	PCD / PKD	3,5	PD12FD02	270,00
12	29	75	12	40	2+2	DX	10	PCD / PKD	3,5	PD12FD03	315,40

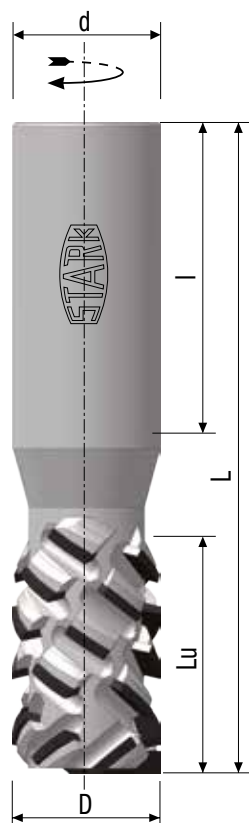
PD32FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
12	19	65	12	40	3+3	DX	9	PCD / PKD	3,5	PD32FD01	292,70
12	22	70	12	40	3+3	DX	12	PCD / PKD	3,5	PD32FD02	360,90
12	24	70	12	40	3+3	DX	12	PCD / PKD	3,5	PD32FD03	360,90
12	29	75	12	40	3+3	DX	15	PCD / PKD	3,5	PD32FD07	428,90
14	24	80	16	50	3+3	DX	12	PCD / PKD	3,5	PD32FD04	423,90
14	29	85	16	50	3+3	DX	15	PCD / PKD	3,5	PD32FD06	492,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage



PUNTA ELICOIDALE MULTIDENTI 54° PER L'OTTIMA FINITURA (DIA)
SPECIAL HELICAL MULTI-CUTTING ROUTER BIT 54° FOR EXCELLENT FINISH (PCD)
HOCHLEISTUNGS-DIA-SCHAFTFRÄSER 54° FÜR FEINBEARBEITUNG (PKD)



STEEL BODY

DRILLING TIP **PCD**

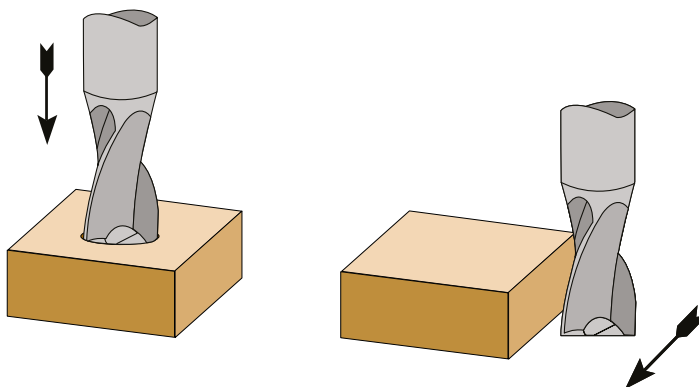
IMPIEGO: Punta elicoidale multidenti 54° per l'ottima finitura. Corpo in acciaio.

USE: Special helical multi-cutting router bit 54° for excellent finish. Steel Body.

ANWENDUNG: Hochleistungs-dia-schaftfräser 54° für feinarbeitung. Stahlkörper.

PD20FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	 DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
25	30	100	25	55	2+2	DX	13	PCD / PKD	4,5	PD20FD01	524,20
25	40	110	25	55	2+2	DX	17	PCD / PKD	4,5	PD20FD03	685,50
25	50	120	25	55	2+2	DX	21	PCD / PKD	4,5	PD20FD05	846,80
25	60	130	25	55	2+2	DX	25	PCD / PKD	4,5	PD20FD07	1.008,00
25	65	135	25	55	2+2	DX	27	PCD / PKD	4,5	PD20FD09	1.088,70

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

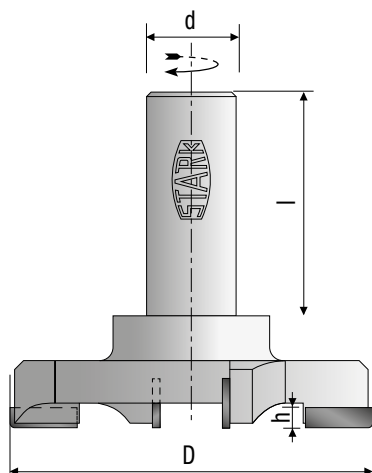


PUNTA PER SPIANARE (DIA)
PLANING ROUTER BIT (PCD)
PLANFRÄSER (PKD)

IMPIEGO: Punta per spianare. Corpo in acciaio.

USE: Planing router bit. Steel Body.

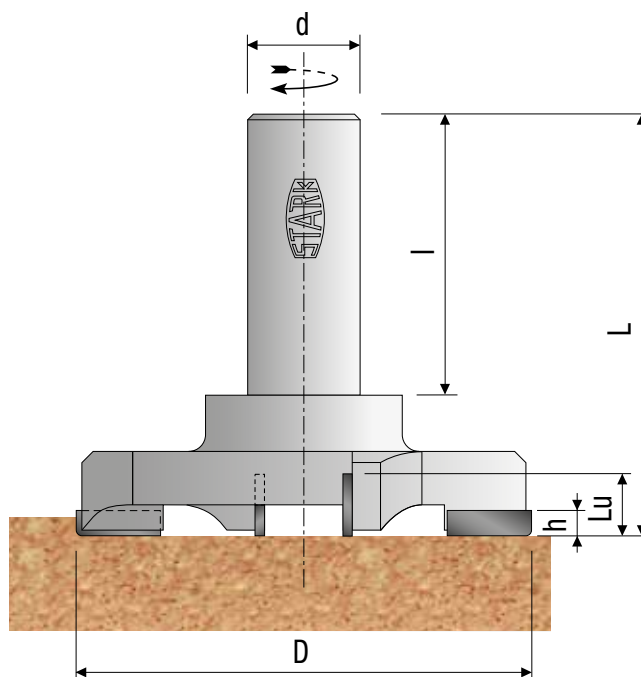
ANWENDUNG: Planfräser. Stahlkörper.



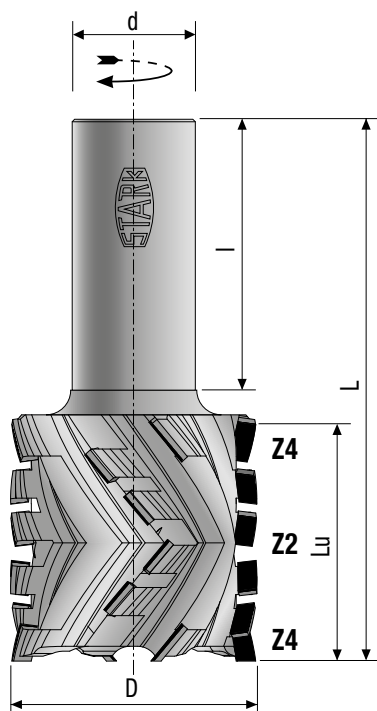
STEEL BODY

PD21FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	 DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
60	12	80	20	50	2+2	DX	4	PCD / PKD	4,5	PD21FD02	459,90
80	12	80	20	50	2+2	DX	4	PCD / PKD	4,5	PD21FD03	459,90
100	12	85	20	50	2+2	DX	4	PCD / PKD	4,5	PD21FD04	480,10

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage



PUNTA ELICOIDALE MULTIDENTI PER AVANZAMENTO RAPIDO (DIA)
SPECIAL HELICAL MULTI-CUTTING ROUTER BIT FOR QUICK FEED RATES (PCD)
HOCHSLEISTUNGS-SPIRALFÖRMIG SCHAFTFRÄSER (PKD)



STEEL BODY

IMPIEGO: Punta elicoidale multidententi per contornate, per avanzamento rapido. Corpo in acciaio.

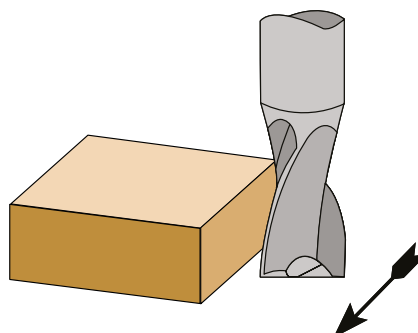
USE: Special helical multi-cutting router bit for routing, for quick feed rates. Steel Body.

ANWENDUNG: Hochleistungs-spiralförmig schaftfräser. Stahlkörper.

PD26FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
50	22	85	25	55	4+2+4	DX	12	PCD / PKD	4	PD26FD01	532,40
50	30	90	25	55	4+2+4	DX	16	PCD / PKD	4	PD26FD03	678,40
50	39	100	25	55	4+2+4	DX	20	PCD / PKD	4	PD26FD05	753,70
50	48	110	25	55	4+2+4	DX	24	PCD / PKD	4	PD26FD07	847,90

PD27FD												
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	 DX	Axial Angle	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]				n°	Mat.	h [mm]		
50	25	85	20	50	4+4	DX	40°	16	PCD / PKD	4,5	PD27FD01	483,90
50	25	90	25	60	4+4	DX	40°	16	PCD / PKD	4,5	PD27FD03	483,90
50	35	95	20	50	4+4	DX	40°	24	PCD / PKD	4,5	PD27FD05	725,80
50	35	95	25	60	4+4	DX	40°	24	PCD / PKD	4,5	PD27FD07	725,80
50	55	115	20	50	4+4	DX	40°	28	PCD / PKD	4,5	PD27FD09	1.209,60
50	55	115	25	60	4+4	DX	40°	28	PCD / PKD	4,5	PD27FD11	1.209,10

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

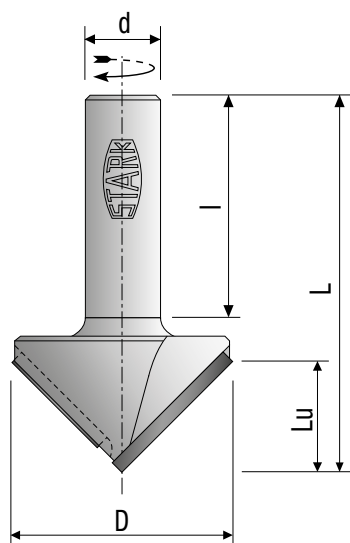


PUNTA PER FOLDING (DIA)
ROUTER BIT FOR FOLDING (PCD)
FOLDINGFRÄSER (PKD)

IMPIEGO: Punta per folding. Corpo in acciaio.

USE: Router bit for folding. Steel Body.

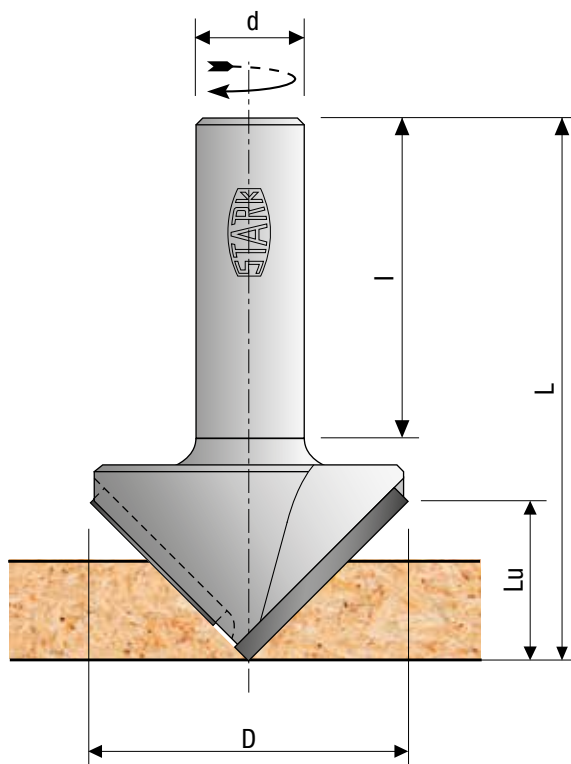
ANWENDUNG: Foldingfräser. Stahlkörper.



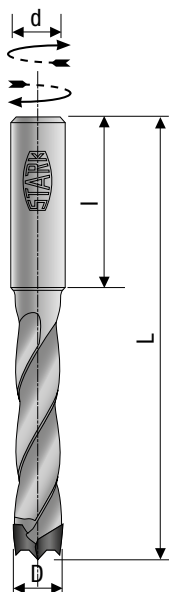
STEEL BODY

PD23FD											
Ø D [mm]	Lu [mm]	L [mm]	Attacco / Shank Schaft		Z	DX	Placchetta Tip Schneide			Art. Nr.	€
			Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
48	24	90	20	50	1+1	DX	2	PCD / PKD	4	PD23FD01	340,30
65	32,5	95	20	50	1+1	DX	2	PCD / PKD	4	PD23FD02	448,30

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage



PUNTA PER FORATRICE - FORO CIECO (DIA)
BLIND HOLE DRILL BIT (PCD)
DÜBELLOCHBOHRER (PKD)



SOLID HM BODY

* Only Ø D 12 mm

STEEL BODY



IMPIEGO: Punta per foratrice - foro cieco.

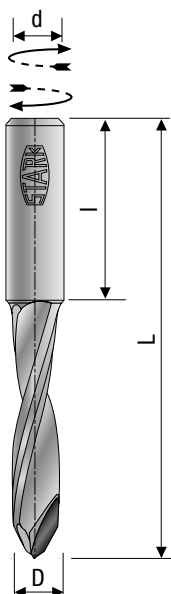
USE: Blind hole drill bit.

ANWENDUNG: Dübellochbohrer.

PD10FD									
Ø D [mm]	L [mm]	Attacco / Shank Schaft		Z	DX SX	Placchetta Tip Schneide		Art. Nr.	€
		Ø d [mm]	l [mm]			n°	Mat.		
5	57,5	10	20	2	DX	2	PCD / PKD	PD10FD01	138,60
5	57,5	10	20	2	SX	2	PCD / PKD	PD10FD02	138,60
6	57,5	10	20	2	DX	2	PCD / PKD	PD10FD03	138,60
6	57,5	10	20	2	SX	2	PCD / PKD	PD10FD04	138,60
7	57,5	10	20	2	DX	2	PCD / PKD	PD10FD05	138,60
7	57,5	10	20	2	SX	2	PCD / PKD	PD10FD06	138,60
8	57,5	10	20	2	DX	2	PCD / PKD	PD10FD07	138,60
8	57,5	10	20	2	SX	2	PCD / PKD	PD10FD08	138,60
9	57,5	10	20	2	DX	2	PCD / PKD	PD10FD09	151,20
9	57,5	10	20	2	SX	2	PCD / PKD	PD10FD10	151,20
10	57,5	10	20	2	DX	2	PCD / PKD	PD10FD11	151,20
10	57,5	10	20	2	SX	2	PCD / PKD	PD10FD12	151,20
12 *	57,5	10	20	2	DX	2	PCD / PKD	PD10FD13	151,20
12 *	57,5	10	20	2	SX	2	PCD / PKD	PD10FD14	151,20
5	70	10	20	2	DX	2	PCD / PKD	PD10FD15	138,60
5	70	10	20	2	SX	2	PCD / PKD	PD10FD16	138,60
6	70	10	20	2	DX	2	PCD / PKD	PD10FD17	138,60
6	70	10	20	2	SX	2	PCD / PKD	PD10FD18	138,60
7	70	10	20	2	DX	2	PCD / PKD	PD10FD19	138,60
7	70	10	20	2	SX	2	PCD / PKD	PD10FD20	138,60
8	70	10	20	2	DX	2	PCD / PKD	PD10FD21	138,60
8	70	10	20	2	SX	2	PCD / PKD	PD10FD22	138,60
9	70	10	20	2	DX	2	PCD / PKD	PD10FD23	151,20
9	70	10	20	2	SX	2	PCD / PKD	PD10FD24	151,20
10	70	10	20	2	DX	2	PCD / PKD	PD10FD25	151,20
10	70	10	20	2	SX	2	PCD / PKD	PD10FD26	151,20
12 *	70	10	20	2	DX	2	PCD / PKD	PD10FD27	151,20
12 *	70	10	20	2	SX	2	PCD / PKD	PD10FD28	151,20

Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

PUNTA PER FORATRICE - FORO PASSANTE (DIA)
THROUGH-OUT DRILL BIT (PCD)
DURCHGANGSBOHRER (PKD)



SOLID HM BODY

* Only Ø D 12 mm

STEEL BODY



IMPIEGO: Punta per foratrice - foro passante.

USE: Through-out drill bit.

ANWENDUNG: Durchgangsbohrer.

PD11FD										
Ø D [mm]	L [mm]	Attacco / Shank Schaft		Z		Placchetta Tip Schneide			Art. Nr.	€
		Ø d [mm]	l [mm]			n°	Mat.	h [mm]		
5	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD01	138,60
5	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD02	138,60
6	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD03	138,60
6	57,5	10	20	2	SXL	2	PCD / PKD	4	PD11FD04	138,60
7	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD05	138,60
7	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD06	138,60
8	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD07	138,60
8	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD08	138,60
9	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD09	151,20
9	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD10	151,20
10	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD11	151,20
10	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD12	151,20
12 *	57,5	10	20	2	DX	2	PCD / PKD	4	PD11FD13	151,20
12 *	57,5	10	20	2	SX	2	PCD / PKD	4	PD11FD14	151,20
5	70	10	20	2	DX	2	PCD / PKD	4	PD11FD15	138,60
5	70	10	20	2	SX	2	PCD / PKD	4	PD11FD16	138,60
6	70	10	20	2	DX	2	PCD / PKD	4	PD11FD17	138,60
6	70	10	20	2	SX	2	PCD / PKD	4	PD11FD18	138,60
7	70	10	20	2	DX	2	PCD / PKD	4	PD11FD19	138,60
7	70	10	20	2	SXL	2	PCD / PKD	4	PD11FD20	138,60
8	70	10	20	2	DX	2	PCD / PKD	4	PD11FD21	138,60
8	70	10	20	2	SX	2	PCD / PKD	4	PD11FD22	138,60
9	70	10	20	2	DX	2	PCD / PKD	4	PD11FD23	151,20
9	70	10	20	2	SX	2	PCD / PKD	4	PD11FD24	151,20
10	70	10	20	2	DX	2	PCD / PKD	4	PD11FD25	151,20
10	70	10	20	2	SX	2	PCD / PKD	4	PD11FD26	151,20
12 *	70	10	20	2	DX	2	PCD / PKD	4	PD11FD27	151,20
12 *	70	10	20	2	SX	2	PCD / PKD	4	PD11FD28	151,20

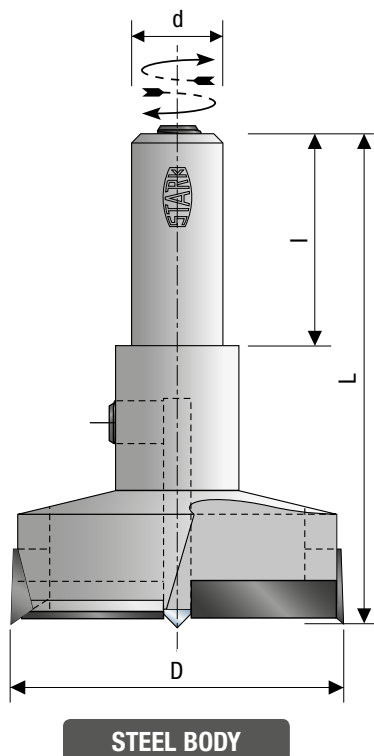
Altre misure su richiesta / Other dimension available on request / Weitere Abmessungen auf Anfrage

PUNTA PER CERNIERE (DIA)
HINGE BORING BIT (PCD)
BESCHLAGSBOHRER MIT ZENTRIERSTIFT (PKD)

IMPIEGO: Punta per cerniere.

USE: Hinge boring bit.

ANWENDUNG: Beschlagsbohrer mit zentrierstift.



PD22FD									
Ø D [mm]	L [mm]	Attacco / Shank Schaft		Z	DX SX	Placchetta Tip Schneide		Art. Nr.	€
		Ø d [mm]	l [mm]			Mat.	h [mm]		
14	57,5	10	20	2+2	DX	PCD	4	PD22FD01	176,40
14	57,5	10	20	2+2	SX	PCD	4	PD22FD02	176,40
15	57,5	10	20	2+2	DX	PCD	4	PD22FD03	176,40
15	57,5	10	20	2+2	SX	PCD	4	PD22FD04	176,40
16	57,5	10	20	2+2	DX	PCD	4	PD22FD05	176,40
16	57,5	10	20	2+2	SX	PCD	4	PD22FD06	176,40
18	57,5	10	20	2+2	DX	PCD	4	PD22FD07	176,40
18	57,5	10	20	2+2	SX	PCD	4	PD22FD08	176,40
20	57,5	10	20	2+2	DX	PCD	4	PD22FD09	176,40
20	57,5	10	20	2+2	SX	PCD	4	PD22FD10	176,40
22	57,5	10	20	2+2	DX	PCD	4	PD22FD11	201,60
22	57,5	10	20	2+2	SX	PCD	4	PD22FD12	201,60
24	57,5	10	20	2+2	DX	PCD	4	PD22FD13	201,60
24	57,5	10	20	2+2	SX	PCD	4	PD22FD14	201,60
25	57,5	10	20	2+2	DX	PCD	4	PD22FD15	201,60
25	57,5	10	20	2+2	SX	PCD	4	PD22FD16	201,60
26	57,5	10	20	2+2	DX	PCD	4	PD22FD17	201,60
26	57,5	10	20	2+2	SX	PCD	4	PD22FD18	201,60
28	57,5	10	20	2+2	DX	PCD	4	PD22FD19	201,60
28	57,5	10	20	2+2	SX	PCD	4	PD22FD20	201,60
30	57,5	10	20	2+2	DX	PCD	4	PD22FD21	201,60
30	57,5	10	20	2+2	SX	PCD	4	PD22FD22	201,60
32	57,5	10	20	2+2	DX	PCD	4	PD22FD23	201,60
32	57,5	10	20	2+2	SX	PCD	4	PD22FD24	201,60
35	57,5	10	20	2+2	DX	PCD	4	PD22FD25	201,60
35	57,5	10	20	2+2	SX	PCD	4	PD22FD26	201,60
38	57,5	10	20	2+2	DX	PCD	4	PD22FD27	201,60
38	57,5	10	20	2+2	SX	PCD	4	PD22FD28	201,60
40	57,5	10	20	2+2	DX	PCD	4	PD22FD29	201,60
40	57,5	10	20	2+2	SX	PCD	4	PD22FD30	201,60
14	70	10	20	2+2	DX	PCD	4	PD22FD31	176,40
14	70	10	20	2+2	SX	PCD	4	PD22FD32	176,40
15	70	10	20	2+2	DX	PCD	4	PD22FD33	176,40
15	70	10	20	2+2	SX	PCD	4	PD22FD34	176,40
16	70	10	20	2+2	DX	PCD	4	PD22FD35	176,40
16	70	10	20	2+2	SX	PCD	4	PD22FD36	176,40
18	70	10	20	2+2	DX	PCD	4	PD22FD37	176,40
18	70	10	20	2+2	SX	PCD	4	PD22FD38	176,40
20	70	10	20	2+2	DX	PCD	4	PD22FD39	176,40
20	70	10	20	2+2	SX	PCD	4	PD22FD40	176,40
22	70	10	20	2+2	DX	PCD	4	PD22FD41	201,60
22	70	10	20	2+2	SX	PCD	4	PD22FD42	201,60
24	70	10	20	2+2	DX	PCD	4	PD22FD43	201,60
24	70	10	20	2+2	SX	PCD	4	PD22FD44	201,60
25	70	10	20	2+2	DX	PCD	4	PD22FD45	201,60
25	70	10	20	2+2	SX	PCD	4	PD22FD46	201,60
26	70	10	20	2+2	DX	PCD	4	PD22FD47	201,60
26	70	10	20	2+2	SX	PCD	4	PD22FD48	201,60
28	70	10	20	2+2	DX	PCD	4	PD22FD49	201,60
28	70	10	20	2+2	SX	PCD	4	PD22FD50	201,60
30	70	10	20	2+2	DX	PCD	4	PD22FD51	201,60
30	70	10	20	2+2	SX	PCD	4	PD22FD52	201,60
32	70	10	20	2+2	DX	PCD	4	PD22FD53	201,60
32	70	10	20	2+2	SX	PCD	4	PD22FD54	201,60
35	70	10	20	2+2	DX	PCD	4	PD22FD55	201,60
35	70	10	20	2+2	SX	PCD	4	PD22FD56	201,60
38	70	10	20	2+2	DX	PCD	4	PD22FD57	201,60
38	70	10	20	2+2	SX	PCD	4	PD22FD58	201,60
40	70	10	20	2+2	DX	PCD	4	PD22FD59	201,60
40	70	10	20	2+2	SX	PCD	4	PD22FD60	201,60



FRESA A FINIRE PER BORDATRICE MONOSPALLA DIA H=2,5 (DIA)
FINISHING EDGE BANDING CUTTER DIA H=2,5 (PCD)
DIA-FÜGEFRÄSER DIA H=2,5 (PKD)



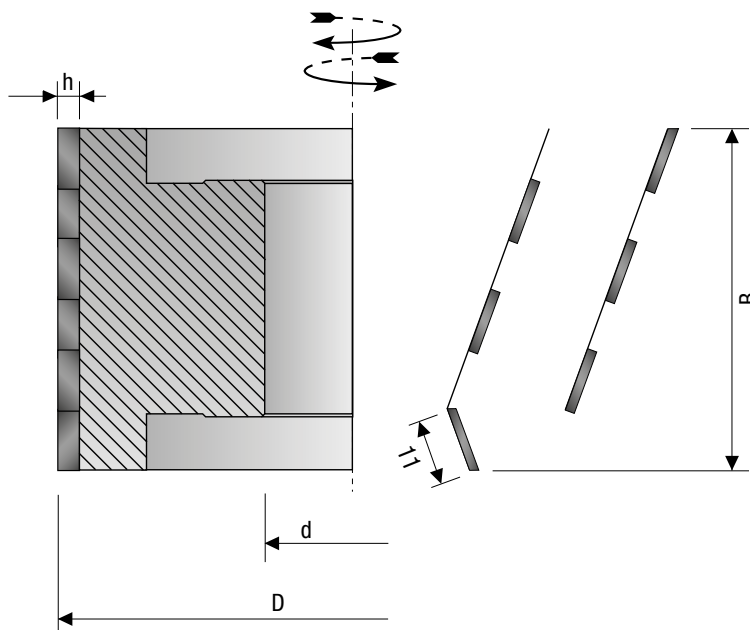
STEEL BODY

IMPIEGO: Fresa per rettifica a finire.

USE: Diamond jointing cutter.

ANWENDUNG: DIA-Fugenschneider.

FD06FD									
Ø D [mm]	B [mm]	Ø d [mm]	Chiavetta Keyway Doppelkeilnute [mm]	Z		Placchetta Tip Schneide		Art. Nr.	€
						n°	h [mm]		
80	40	30	2 - 8x4	3	DX	15	2,5	FD06FD01	415,80
80	48	30	2 - 8x4	3	DX	18	2,5	FD06FD02	499,00
80	55	30	2 - 8x4	3	DX	21	2,5	FD06FD03	582,20
100	35	30	2 - 8x4	3	DX	12	2,5	FD06FD04	393,20
100	45	30	2 - 8x4	3	DX	18	2,5	FD06FD05	499,00
100	48	30	2 - 8x4	3	DX	18	2,5	FD06FD06	499,00
100	55	30	2 - 8x4	3	DX	21	2,5	FD06FD07	582,20
125	45	30	2 - 8x4	3	DX	18	2,5	FD06FD08	499,00
125	48	30	2 - 8x4	3	DX	18	2,5	FD06FD09	499,00
125	55	30	2 - 8x4	3	DX	21	2,5	FD06FD10	582,20
125	65	30	2 - 8x4	3	DX	24	2,5	FD06FD11	665,30
80	40	30	2 - 8x4	3	SX	15	2,5	FD06FD12	415,80
80	48	30	2 - 8x4	3	SX	18	2,5	FD06FD13	499,00
80	55	30	2 - 8x4	3	SX	21	2,5	FD06FD14	582,20
100	35	30	2 - 8x4	3	SX	12	2,5	FD06FD15	393,20
100	45	30	2 - 8x4	3	SX	18	2,5	FD06FD16	499,00
100	48	30	2 - 8x4	3	SX	18	2,5	FD06FD17	499,00
100	55	30	2 - 8x4	3	SX	21	2,5	FD06FD18	582,20
125	45	30	2 - 8x4	3	SX	18	2,5	FD06FD19	499,00
125	48	30	2 - 8x4	3	SX	18	2,5	FD06FD20	499,00
125	55	30	2 - 8x4	3	SX	21	2,5	FD06FD21	582,20
125	65	30	2 - 8x4	3	SX	24	2,5	FD06FD22	665,30



FRESA A FINIRE PER BORDATRICE MONOSPALLA DIA H=4,5 (DIA)
FINISHING EDGE BANDING CUTTER DIA H=4,5 (PCD)
DIA-FÜGEFRÄSER DIA H=4,5 (PKD)

IMPIEGO: Fresa per rettifica a finire.

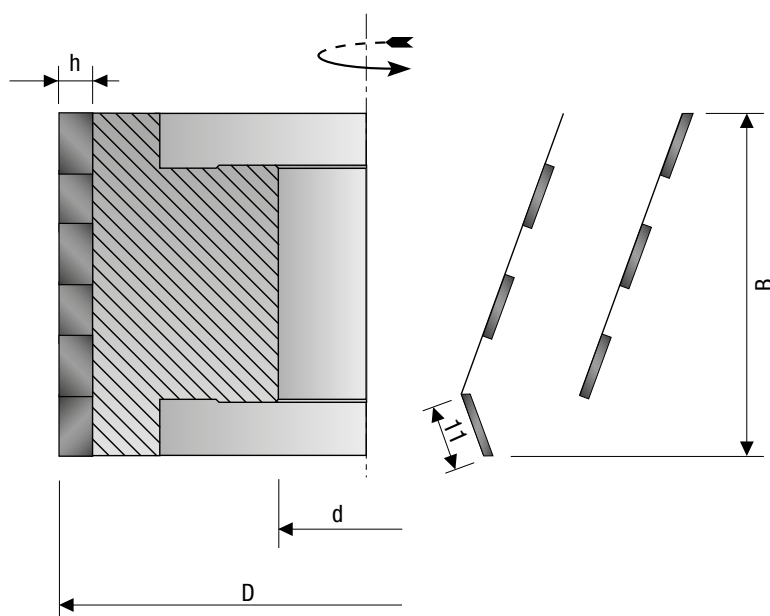
USE: Diamond jointing cutter.

ANWENDUNG: DIA-Fugenschneider.



STEEL BODY

FD07FD									
Ø D [mm]	B [mm]	Ø d [mm]	Chiavetta Keyway Doppelkeilnute [mm]	Z		Placchetta Tip Schneide		Art. Nr.	€
						n°	h [mm]		
80	40	30	2 - 8x4	3	DX	15	4,5	FD07FD01	491,40
80	48	30	2 - 8x4	3	DX	18	4,5	FD07FD02	589,70
80	55	30	2 - 8x4	3	DX	21	4,5	FD07FD03	688,00
100	35	30	2 - 8x4	3	DX	12	4,5	FD07FD04	423,40
100	45	30	2 - 8x4	3	DX	18	4,5	FD07FD05	589,70
100	48	30	2 - 8x4	3	DX	18	4,5	FD07FD06	589,70
100	55	30	2 - 8x4	3	DX	21	4,5	FD07FD07	688,00
125	45	30	2 - 8x4	3	DX	18	4,5	FD07FD08	589,70
125	48	30	2 - 8x4	3	DX	18	4,5	FD07FD09	589,70
125	55	30	2 - 8x4	3	DX	21	4,5	FD07FD10	688,00
125	65	30	2 - 8x4	3	DX	24	4,5	FD07FD11	786,30
80	40	30	2 - 8x4	3	SX	15	4,5	FD07FD12	491,40
80	48	30	2 - 8x4	3	SX	18	4,5	FD07FD13	589,70
80	55	30	2 - 8x4	3	SX	21	4,5	FD07FD14	688,00
100	35	30	2 - 8x4	3	SX	12	4,5	FD07FD15	423,40
100	45	30	2 - 8x4	3	SX	18	4,5	FD07FD16	589,70
100	48	30	2 - 8x4	3	SX	18	4,5	FD07FD17	589,70
100	55	30	2 - 8x4	3	SX	21	4,5	FD07FD18	688,00
125	45	30	2 - 8x4	3	SX	18	4,5	FD07FD19	589,70
125	48	30	2 - 8x4	3	SX	18	4,5	FD07FD20	589,70
125	55	30	2 - 8x4	3	SX	21	4,5	FD07FD21	688,00
125	65	30	2 - 8x4	3	SX	24	4,5	FD07FD22	786,30

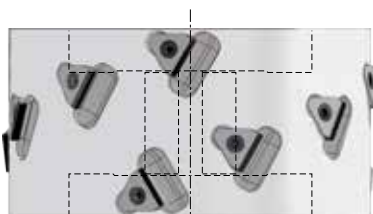


FRESA A FINIRE PER BORDATRICE CON INSERTI IN DIAMANTE A 30° (DIA) FINISHING EDGE BANDING CUTTER WITH DIAMOND INSERTS - 30° (PCD) FÜGEFRÄSER MIT DIAMANT-EINSÄTZEN 30° (PKD)

IMPIEGO: Fresa a finire per bordatrice con inserti in diamante a 30°. Materiale: Lega leggera.

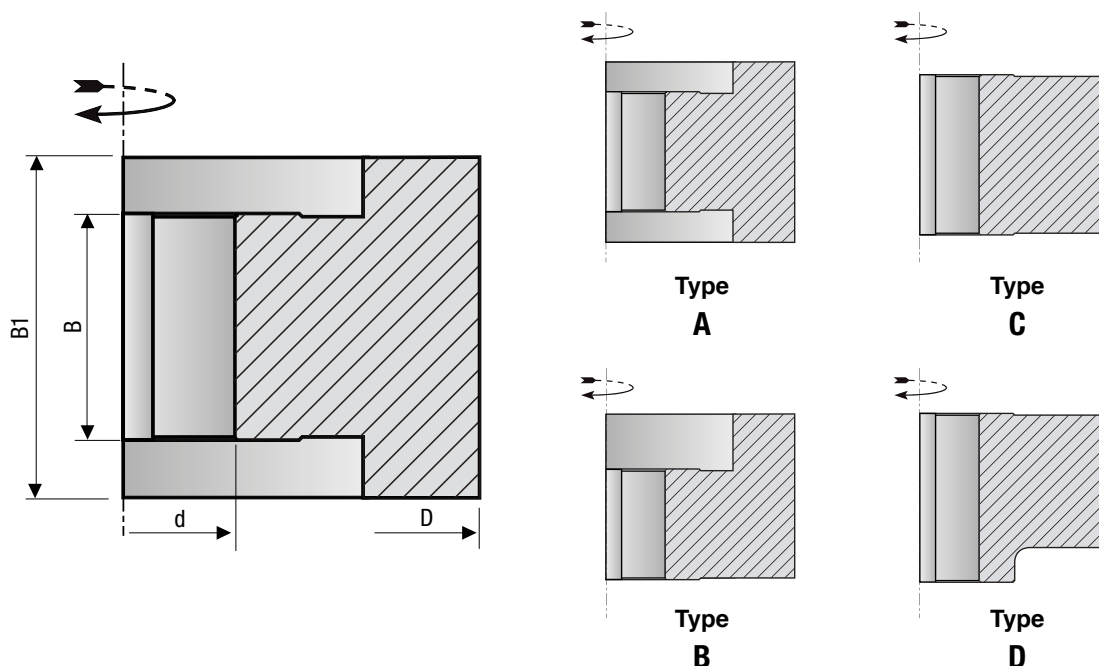
USE: Finishing edge banding cutter with diamond inserts - 30°. Material: Light alloy.

ANWENDUNG: Fügefräser mit diamant-einsätzen 30°. Werkstoff: Leicht Metall.

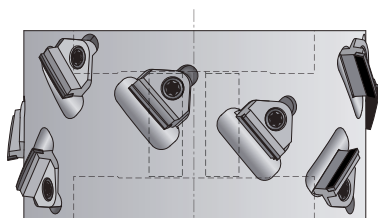


LIGHT ALLOY BODY

TD01FD										
Ø D [mm]	B [mm]	B1 [mm]	Ø d [mm]	Chiavetta Keyway Doppelkeilnute [mm]	Z	DX SX	Placchetta Tip Schneide		Art. Nr.	€
							n°	h [mm]		
80	43,5	51,5	30	2 8x4	3	DX	12	3	TD01FD01	614,50
80	64,5	72,5	30	2 8x4	3	DX	18	3	TD01FD02	921,70
85	43,5	51,5	30	2 8x4	3	DX	12	3	TD01FD03	614,50
100	33	41	30	2 8x4	3	DX	9	3	TD01FD04	460,90
100	43,5	51,5	30	2 8x4	3	DX	12	3	TD01FD05	614,50
100	54	63,5	30	2 8x4	3	DX	15	3	TD01FD06	768,10
100	64,5	72,5	30	2 8x4	3	DX	18	3	TD01FD07	921,70
125	33	41	30	2 8x4	3	DX	9	3	TD01FD08	460,90
125	43,5	51,5	30	2 8x4	3	DX	12	3	TD01FD09	614,50
125	54	63,5	30	2 8x4	3	DX	15	3	TD01FD10	768,10
125	64,5	72,5	30	2 8x4	3	DX	18	3	TD01FD11	921,70
125	75	83	30	2 8x4	3	DX	21	3	TD01FD12	1.075,30
80	43,5	51,5	30	2 8x4	3	SX	12	3	TD01FD13	614,50
80	64,5	72,5	30	2 8x4	3	SX	18	3	TD01FD14	921,70
85	43,5	51,5	30	2 8x4	3	SX	12	3	TD01FD15	614,50
100	33	41	30	2 8x4	3	SX	9	3	TD01FD16	460,90
100	43,5	51,5	30	2 8x4	3	SX	12	3	TD01FD17	614,50
100	54	63,5	30	2 8x4	3	SX	15	3	TD01FD18	768,10
100	64,5	72,5	30	2 8x4	3	SX	18	3	TD01FD19	921,70
125	33	41	30	2 8x4	3	SX	9	3	TD01FD20	460,90
125	43,5	51,5	30	2 8x4	3	SX	12	3	TD01FD21	614,50
125	54	63,5	30	2 8x4	3	SX	15	3	TD01FD22	768,10
125	64,5	72,5	30	2 8x4	3	SX	18	3	TD01FD23	921,70
125	75	83	30	2 8x4	3	SX	21	3	TD01FD24	1.075,30



FRESA A FINIRE PER BORDATRICE CON INSERTI IN DIAMANTE A 40° (DIA) FINISHING EDGE BANDING CUTTER WITH DIAMOND INSERTS - 40° (PCD) FÜGEFRÄSER MIT DIAMANT - EINSÄTZEN 40° (PKD)



LIGHT ALLOY BODY

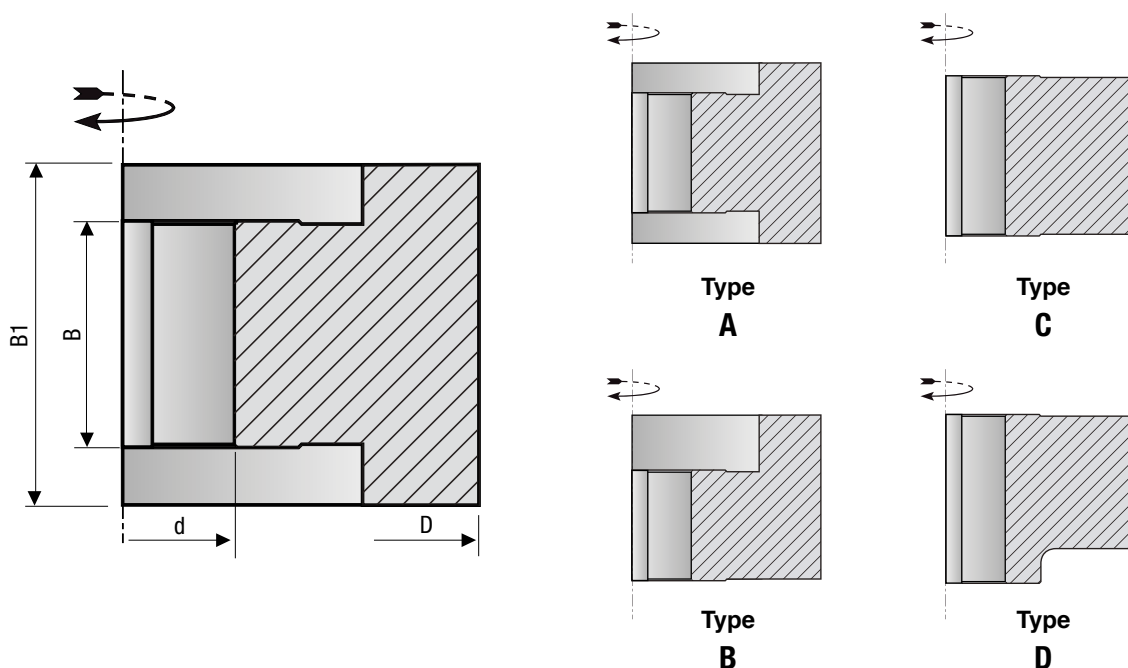
IMPIEGO: Fresa a finire per bordatrice con inserti in diamante a 40°. Materiale: Lega leggera.

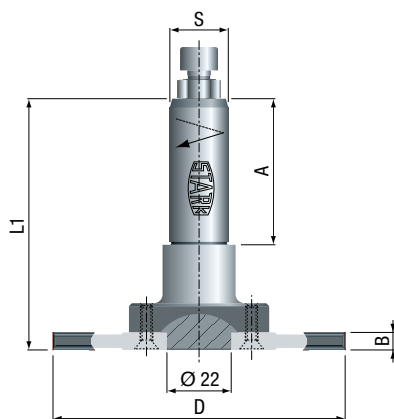
USE: Finishing edge banding cutter with diamond inserts - 40°. Material: Light alloy.

ANWENDUNG: Fügefräser mit Diamant - Einsätzen 40°. Werkstoff: Leicht Metall.

TD02FD

Ø D [mm]	B [mm]	B1 [mm]	Ø d [mm]	Chiavetta Keyway Doppelkeilnute [mm]	Z	DX SX	Placchetta Tip Schneide		Art. Nr.	€
							n°	h [mm]		
80	37,5	55	30	2 8x4	3	DX	9	5	TD02FD01	922,60
80	50	67	30	2 8x4	3	DX	12	5	TD02FD02	1.153,20
85	37,5	55	30	2 8x4	3	DX	9	5	TD02FD03	922,60
100	25,5	43	30	2 8x4	3	DX	6	5	TD02FD04	691,90
100	37,5	55	30	2 8x4	3	DX	9	5	TD02FD05	922,60
100	50	67	30	2 8x4	3	DX	12	5	TD02FD06	1.153,20
100	62	79	30	2 8x4	3	DX	15	5	TD02FD07	1.614,50
125	25,5	43	30	2 8x4	3	DX	6	5	TD02FD08	691,90
125	37,5	55	30	2 8x4	3	DX	9	5	TD02FD09	922,60
125	50	67	30	2 8x4	3	DX	12	5	TD02FD10	1.153,20
125	62	79	30	2 8x4	3	DX	15	5	TD02FD11	1.614,50
125	74	91	30	2 8x4	3	DX	18	5	TD02FD12	1.845,10
80	37,5	55	30	2 8x4	3	SX	9	5	TD02FD13	922,60
80	50	67	30	2 8x4	3	SX	12	5	TD02FD14	1.153,20
85	37,5	55	30	2 8x4	3	SX	9	5	TD02FD15	922,60
100	25,5	43	30	2 8x4	3	SX	6	5	TD02FD16	691,90
100	37,5	55	30	2 8x4	3	SX	9	5	TD02FD17	922,60
100	50	67	30	2 8x4	3	SX	12	5	TD02FD18	1.153,20
100	62	79	30	2 8x4	3	SX	15	5	TD02FD19	1.614,50
125	25,5	43	30	2 8x4	3	SX	6	5	TD02FD20	691,90
125	37,5	55	30	2 8x4	3	SX	9	5	TD02FD21	922,60
125	50	67	30	2 8x4	3	SX	12	5	TD02FD22	1.153,20
125	62	79	30	2 8x4	3	SX	15	5	TD02FD23	1.614,50
125	74	91	30	2 8x4	3	SX	18	5	TD02FD24	1.845,10





IMPIEGO: Gruppo con fresa per incastri.

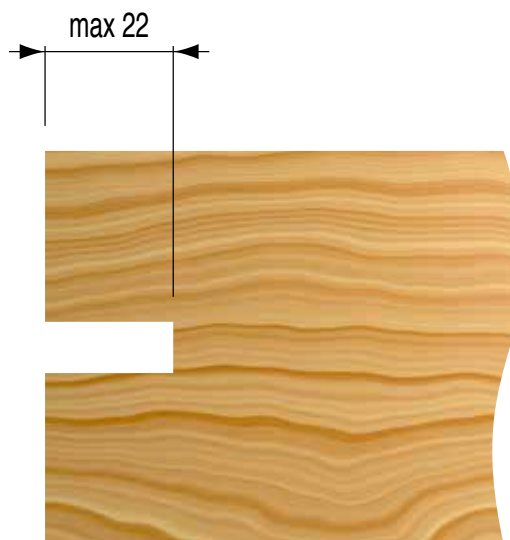
USE: Grooving router set.

ANWENDUNG: Lamellen-nutfräser.

GP27FM									HM
Ø D [mm]	B [mm]	Ø d [mm]	Attacco Shank Schaft		Z	V	Art. Nr.	Mat.	€
			Ø S [mm]	l [mm]					
100	3,95	22	20	60	2	4	GP27FM10 *	HM	190,20

* Con / with / mit Art. **IN03TM01** (Basic Line)

GP27FM									PCD
Ø D [mm]	B [mm]	Ø d [mm]	Attacco Shank Schaft		Z	V	Art. Nr.	Mat.	€
			Ø S [mm]	l [mm]					
100	3,95	22	20	60	4	-	GP27FM20	PCD	311,20



FRESA REGOLABILE CON ANELLI DISTANZIALI H6 (DIA)
ADJUSTABLE GROOVER H6 WITH DISTANCE RINGS (PCD)
VERSTELLNUTFRÄSER H6 (PKD)

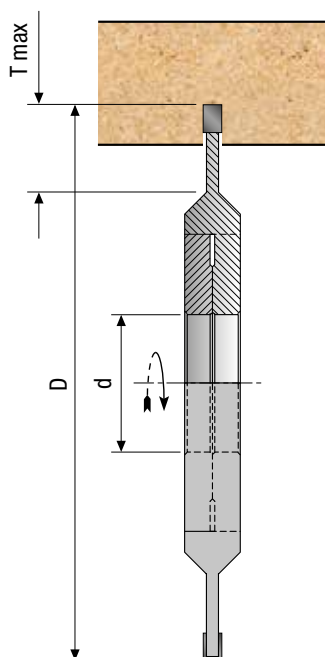


STEEL BODY

IMPIEGO: Fresa regolabile per incastri con anelli distanziali H6.

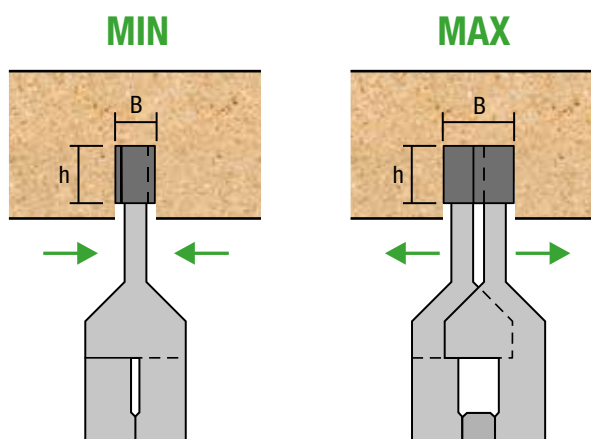
USE: Adjustable groover H6 with distance rings.

ANWENDUNG: Einstellbarer Nutenfräser mit H6-Distanzringen.



FD08FD								
Ø D [mm]	B [mm]	Ø d [mm]	Z	T max [mm]	Placchetta Tip Schneide		Art. Nr.	€
					n°	h [mm]		
120	3 / 5,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD01	461,30
120	4 / 7,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD02	529,90
120	5 / 9,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD03	645,20
120	6 / 11,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD04	714,50
150	3 / 5,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD05	461,30
150	4 / 7,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD06	529,90
150	5 / 9,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD07	645,20
150	6 / 11,5	25 / 30 / 35	6+6	20	2x6	6	FD08FD08	714,50
200	3 / 5,5	30 / 35 / 40	6+6	25	2x6	6	FD08FD09	461,30
200	4 / 7,5	30 / 35 / 40	6+6	25	2x6	6	FD08FD10	529,90
200	5 / 9,5	30 / 35 / 40	6+6	25	2x6	6	FD08FD11	645,20
200	6 / 11,5	30 / 35 / 40	6+6	25	2x6	6	FD08FD12	714,50
200	3 / 5,5	30 / 35 / 40	8+8	25	2x8	6	FD08FD13	615,10
200	4 / 7,5	30 / 35 / 40	8+8	25	2x8	6	FD08FD14	750,60
200	5 / 9,5	30 / 35 / 40	8+8	25	2x8	6	FD08FD15	967,70
200	6 / 11,5	30 / 35 / 40	8+8	25	2x8	6	FD08FD16	1.131,40
200	3 / 5,5	30 / 35 / 40	12+12	25	2x12	6	FD08FD17	853,20
200	4 / 7,5	30 / 35 / 40	12+12	25	2x12	6	FD08FD18	979,80
200	5 / 9,5	30 / 35 / 40	12+12	25	2x12	6	FD08FD19	1.187,10
200	6 / 11,5	30 / 35 / 40	12+12	25	2x12	6	FD08FD20	1.302,40

Chiavetta a richiesta / Keyways on request / Keilnut auf Anfrage

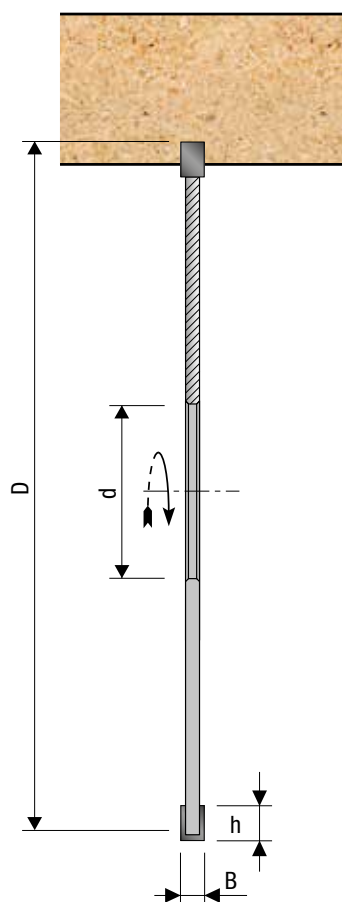




IMPIEGO: Lama per incastri.

USE: Groover.

ANWENDUNG: Dia-nutfräser.



LD01FD						
Ø D [mm]	B [mm]	Ø d [mm]	Z	h [mm]	Art. Nr.	€
120	3	30 / 35 / 40	12	6	LD01FD01	210,20
120	4	30 / 35 / 40	12	6	LD01FD02	280,20
120	5	30 / 35 / 40	12	6	LD01FD03	350,20
120	6	30 / 35 / 40	12	6	LD01FD04	420,30
120	7	30 / 35 / 40	12	6	LD01FD05	490,30
160	3	30 / 35 / 40	12	6	LD01FD06	210,20
160	4	30 / 35 / 40	12	6	LD01FD07	280,20
160	5	30 / 35 / 40	12	6	LD01FD08	350,20
160	6	30 / 35 / 40	12	6	LD01FD09	420,30
160	7	30 / 35 / 40	12	6	LD01FD10	490,30
180	3	30 / 35 / 40	12	6	LD01FD11	210,20
180	4	30 / 35 / 40	12	6	LD01FD12	280,20
180	5	30 / 35 / 40	12	6	LD01FD13	350,20
180	6	30 / 35 / 40	12	6	LD01FD14	420,30
180	7	30 / 35 / 40	12	6	LD01FD15	490,30
200	3	30 / 35 / 40	12	6	LD01FD16	210,20
200	4	30 / 35 / 40	12	6	LD01FD17	280,20
200	5	30 / 35 / 40	12	6	LD01FD18	350,20
200	6	30 / 35 / 40	12	6	LD01FD19	420,30
200	7	30 / 35 / 40	12	6	LD01FD20	490,30
160	3	30 / 35 / 40	24	6	LD01FD21	399,30
160	4	30 / 35 / 40	24	6	LD01FD22	532,60
160	5	30 / 35 / 40	24	6	LD01FD23	665,60
160	6	30 / 35 / 40	24	6	LD01FD24	798,50
160	7	30 / 35 / 40	24	6	LD01FD25	931,60
180	3	30 / 35 / 40	24	6	LD01FD26	399,30
180	4	30 / 35 / 40	24	6	LD01FD27	532,60
180	5	30 / 35 / 40	24	6	LD01FD28	665,60
180	6	30 / 35 / 40	24	6	LD01FD29	798,50
180	7	30 / 35 / 40	24	6	LD01FD30	931,60
200	3	30 / 35 / 40	24	6	LD01FD31	399,30
200	4	30 / 35 / 40	24	6	LD01FD32	532,60
200	5	30 / 35 / 40	24	6	LD01FD33	665,60
200	6	30 / 35 / 40	24	6	LD01FD34	798,50
200	7	30 / 35 / 40	24	6	LD01FD35	931,60

INCISORE CONICO (DIA) CONICAL SCORING SAWBLADE (PCD) VORRITZ-KREISSÄGEBLÄTTER, KONISCH (PKD)

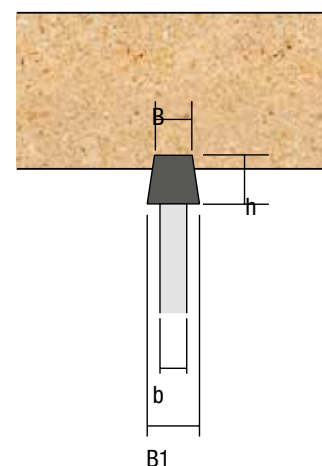
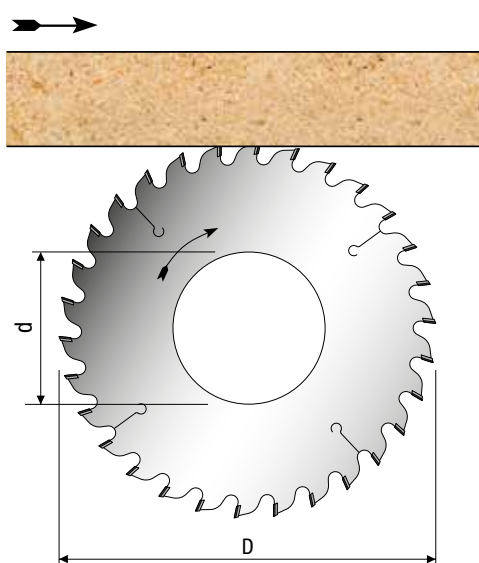


IMPIEGO: Lame utilizzabili in complemento alle lame sezionatrici per evitare scheggiature nella parte inferiore del materiale lavorato.

USE: These scoring blades are used together with panel sizing circular saw blades to avoid underside splintering.

ANWENDUNG: Vorritzsägeblatt für den Einsatz auf Plattenaufteilsägen zum Vermeiden von Kantenausbrüchen auf der Werkstück-Unterseite.

LD02FD							
Ø D [mm]	B/B1 [mm]	b [mm]	Ø d [mm]	Z	h [mm]	Art. Nr.	€
125	3,1 / 4,3	2,2	20	24	4	LD02FD01	380,70
125	4,4 / 5,6	2,8	20	24	4	LD02FD02	495,60
150	4,3 / 5,6	2,8	30	30	4	LD02FD03	619,30
160	4,3 / 5,6	2,8	55	36	4	LD02FD04	743,30
200	4,3 / 5,6	2,8	30 / 80	36	4	LD02FD05	743,30
200	4,6 / 5,8	2,8	45	36	4	LD02FD06	769,80
125	3,1 / 4,3	2,2	20	24	6	LD02FD07	485,30
125	4,4 / 5,6	2,8	20	24	6	LD02FD08	631,80
150	4,3 / 5,6	2,8	30	30	6	LD02FD09	801,00
160	4,3 / 5,6	2,8	55	36	6	LD02FD10	947,60
200	4,3 / 5,6	2,8	30 / 80	36	6	LD02FD11	947,60
200	4,6 / 5,8	2,8	45	36	6	LD02FD12	981,50



INCISORE REGOLABILE COMPLETO DI ANELLI (DIA) ADJUSTABLE SCORING SAWBLADE WITH DISTANCE RINGS (PCD) VORRITZ-KREISSÄGEBLÄTTER, VERSTELLBAR MIT DISTANZRINGEN (PKD)

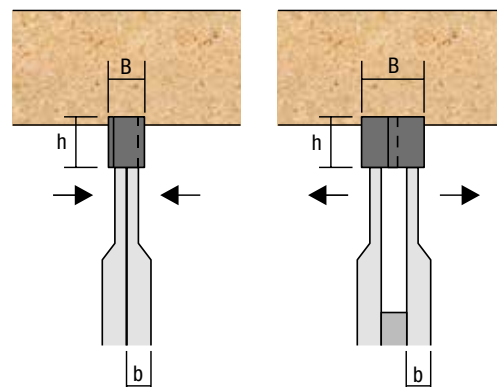
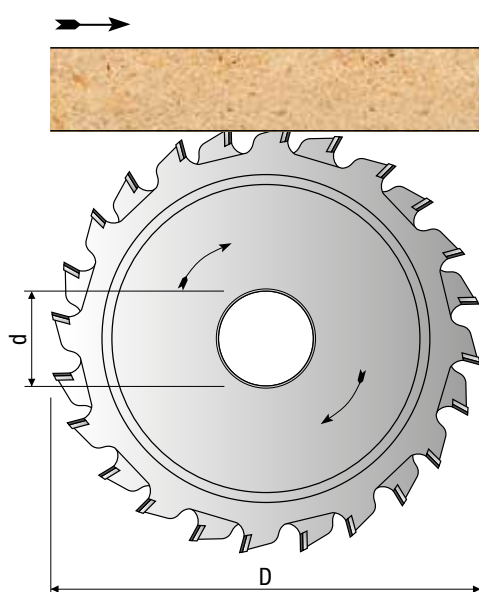


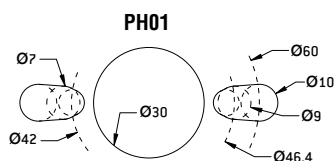
IMPIEGO: Lame utilizzabili in complemento alle lame sezionatrici per evitare scheggiature nella parte inferiore del materiale lavorato.

USE: These scoring blades are used together with panel sizing circular saw blades to avoid underside splintering.

ANWENDUNG: Sägeblatt für den Einsatz auf Plattensägen zum Vermeiden von Kantenausbrüchen auf der Plattenunterseite.

LD03FD							
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	h [mm]	Art. Nr.	€
80	2,8 / 3,6	2,2	20	12+12	4	LD03FD01	414,50
100	2,8 / 3,6	2,2	20 / 22	12+12	4	LD03FD02	414,50
120	2,8 / 3,6	2,2	20 / 22	12+12	4	LD03FD03	414,50
125	2,8 / 3,6	2,2	20 / 22	12+12	4	LD03FD04	414,50
120	2,8 / 3,6	2,2	50+4	12+12	4	LD03FD05	481,90
80	2,8 / 3,6	2,2	20	12+12	6	LD03FD06	460,90
100	2,8 / 3,6	2,2	20 / 22	12+12	6	LD03FD07	460,90
120	2,8 / 3,6	2,2	20 / 22	12+12	6	LD03FD08	460,90
125	2,8 / 3,6	2,2	20 / 22	12+12	6	LD03FD09	460,90
120	2,8 / 3,6	2,2	50+4	12+12	6	LD03FD10	530,20



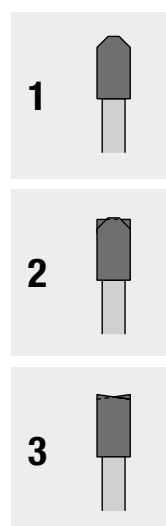
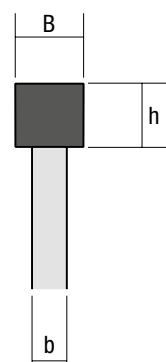
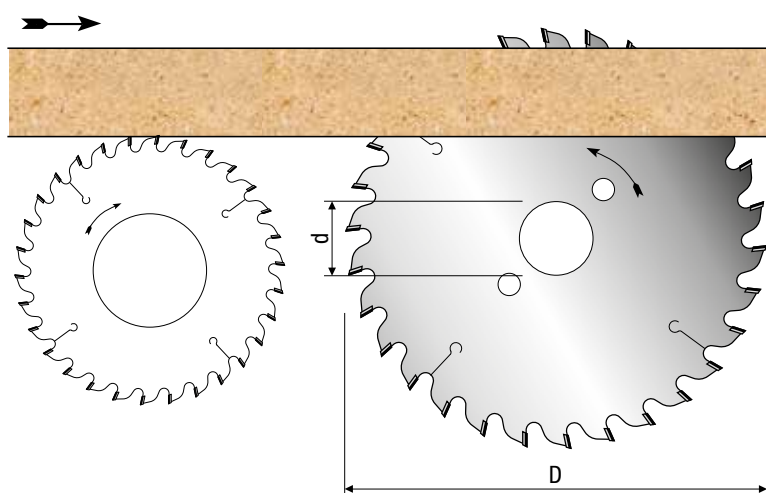


IMPIEGO: Lame per il taglio di legni e/o pannelli in relazione alla scelta del tipo di dentatura.
Su richiesta anche con corpo silenziato.

USE: Circular saw blades for cutting wood and/or panels in relation to the choice of tooth type.
On request the body can be produced silenced.

ANWENDUNG: Klingen zum Schneiden von Holz und/oder Platten in Abhängigkeit von der Wahl des Zahntyps. Geräuscharme Ausführung auf Anfrage.

LD04FD								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	h [mm]	Art. Nr.	€
250	3,2	2,2	30	PH01	48	6	LD04FD01	743,70
250	3,2	2,2	30	PH01	60	6	LD04FD02	929,50
300	3,2	2,2	30	PH01	48	6	LD04FD03	743,70
300	3,2	2,2	30	PH01	60	6	LD04FD04	929,50
300	3,2	2,2	30	PH01	72	6	LD04FD05	1.115,50
300	3,2	2,2	30	PH01	96	6	LD04FD06	1.487,20
350	3,5	2,5	30	PH01	54	6	LD04FD07	915,00
350	3,5	2,5	30	PH01	72	6	LD04FD08	1.220,00
350	3,5	2,5	30	PH01	84	6	LD04FD09	1.423,40



In fase d'ordine indicare tipologia dente (1 - 2 - 3)

When ordering please specify the tooth shape (1 - 2 - 3)

Im Auftragsfall bitte Zahnform angeben (1 - 2 - 3)

LAMA CIRCOLARE PER SEZIONATRICE (DIA) SIZING SAWBLADE PANEL (PCD) DIA-KREISSÄGEBLATT (PKD)



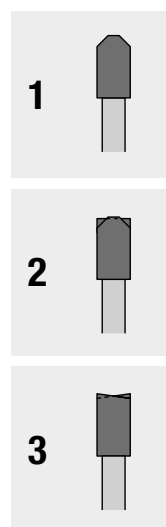
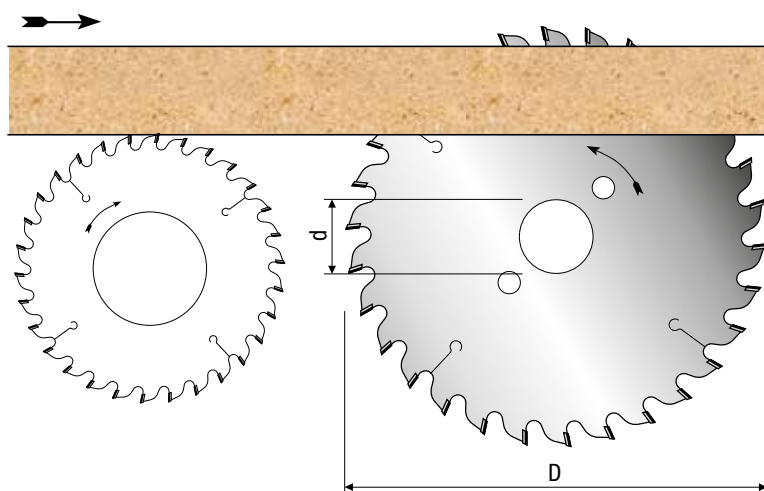
IMPIEGO: Lame per sezionare e squadrare pannelli truciolari singoli o in pacco, in MDF, bilaminati, impiallacciati e in fibra dura. Diametro del foro e corpo silenziato richiesta.

USE: Circular saw blades for dividing and sizing veneered and plastic laminated chipboards, single or stacked panels. On request bore's diameter and silenced body.

ANWENDUNG: Zum schneiden von Spanplatten einzeln oder im Paket, MDF-Platten, beschichtete Platten, Hartfaserplatten. Flach-/Trapezzahn. Bohrungsdurchmesser auf Anfrage. Geräuscharme Ausführung auf Anfrage.

LD05FD							
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	h [mm]	Art. Nr.	€
300	4,4	3,2	*	60	6	LD05FD01	1.240,90
350	4,4	3,2	*	54	6	LD05FD02	1.116,80
350	4,4	3,2	*	72	6	LD05FD03	1.489,10
400	4,4	3,5	*	36	6	LD05FD04	744,60
400	4,4	3,5	*	60	6	LD05FD05	1.240,90
400	4,4	3,5	*	72	6	LD05FD06	1.489,10
420	4,4	3,5	*	48	6	LD05FD07	992,70
420	4,4	3,5	*	60	6	LD05FD08	1.240,90
420	4,4	3,5	*	72	6	LD05FD09	1.489,10
430	4,4	3,5	*	60	6	LD05FD10	1.240,90
430	4,4	3,5	*	72	6	LD05FD11	1.489,10
450	4,6	3,5	*	48	6	LD05FD12	1.037,90
450	4,6	3,5	*	60	6	LD05FD13	1.297,30
450	4,6	3,5	*	72	6	LD05FD14	1.556,70
500	5,2	4	*	54	6	LD05FD15	1.319,90
500	5,2	4	*	72	6	LD05FD16	1.759,80
550	5,2	4	*	54	6	LD05FD17	1.319,90
550	5,2	4	*	72	6	LD05FD18	1.759,80
565	5,4	4	*	60	6	LD05FD19	1.522,90
565	5,4	4	*	72	6	LD05FD20	1.751,90
600	5,8	4	*	60	6	LD05FD21	1.659,90
600	5,8	4	*	72	6	LD05FD22	1.962,80
600	5,8	4	*	84	6	LD05FD23	2.290,00

*Su richiesta / On request / Auf Anfrage

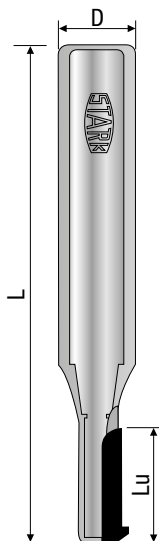


In fase d'ordine indicare tipologia dente (1 - 2 - 3)

When ordering please specify the tooth shape (1 - 2 - 3)

Im Auftragsfall bitte Zahnform angeben (1 - 2 - 3)

FRESA IN DIAMANTE PER GIUNZIONI LAMELLO® (DIA)
PCD SHANK CUTTER FOR LAMELLO® (PCD)
LAMELLO® SCHAFTFRÄSER (PKD)



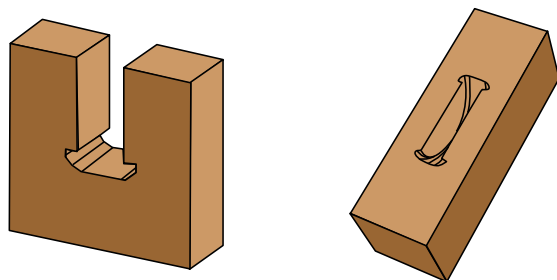
IMPIEGO: Fresa in diamante Z=1 a tagliente dritto per giunzioni Lamello® "Clamex P-System". No forante.

USE: PCD shank cutter Z=1 for Lamello® "Clamex P-System" jointing. No drilling tip.

ANWENDUNG: DIA-Schaftfräser Z=1 für Lamellen-Verbindungen "Clamex P-System". Ohne Einbohrschneide.

PD25FD

Ø D [mm]	Lu [mm]	L [mm]	Shank [mm]	Z	DX	Axial Angle	Placchetta Tip Schneide	Art. Nr.	€
							n°		
10	18	78	12	1	DX	0°	1	PD25FD07	249,90



FRESA LAMELLO® PER INCASTRI "CLAMEX P-SYSTEM" (DIA)
PCD BLADE FOR LAMELLO® "CLAMEX P-SYSTEM" (PCD)
LAMELLO® NUTFRÄSER FÜR "CLAMEX P-SYSTEM" (PKD)



IMPIEGO: Fresa in PCD Lamello® per incastri da utilizzare su macchine CNC e su fresatrice manuale Z P2®.

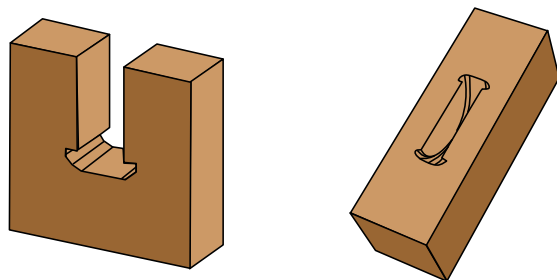
USE: PCD saw blade for Lamello® jointing system to be used on CNC machines or portable machine Z P2®.

ANWENDUNG: DIA-Kreissägeblatt für Lamellen-Verbindungen zur Verwendung auf CNC-Maschinen sowie auf manuellen Maschinen Z P2®.

LD06FD

Ø D [mm]	B [mm]	d [mm]	Z	DX	α Angle	Placchetta Tip Schneide	Art. Nr.		€
						h [mm]			
100,4	7	22	3	DX	10°	3,5	LD06FD01	•	126,00
100,4	7	30	3	DX	10°	3,5	LD06FD02	•	126,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar





YOUR STORIES, OUR BLADES



/04

DYNAMIC LINE

Programma lame circolari in HW

HW circular saw blades programme

HW-Kreissägeblätter Programm

Legenda dei Simboli / Explanations of Symbols / Legende

MATERIALE / MATERIAL / WERKSTOFF

 Legno Generico Generic wood Holz allgemein	 Legno Tenero Light Wood Weiches Holz	 Legno Duro Hard Wood Hartes Holz
 Truciolare / MDF Particle board / MDF Spanplatte / MDF	 Truciolare / MDF rivestito Coated particle board / MDF Beschichtete Spanplatte / MDF	 HPL / Corian HPL / Corian HPL / Corian
 Legno lungo vena Long grain wood Langfaseriges Holz	 Legno trasverso vena Cross grain wood Quer gemasertes Holz	 Metalli non ferrosi Alu & non-ferrous Alu Profile und NE-Met

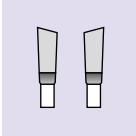
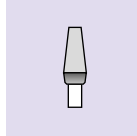
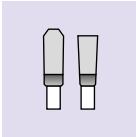
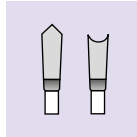
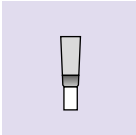
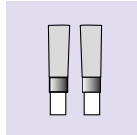
CARATTERISTICHE / FEATURES / EIGENSCHAFTEN

 Manuale Manual Manuell	 Meccanico Mechanic Mechanisch	 Coltello in HM HM Knife HM/HW-Messer
 Macchine sezionatrici verticali Vertical panel sizing machines Stehende Plattenaufteilsägen		

FONOASSORBENZA / SOUND ABSORBENCY / SCHALLABSORPTION

 Lama con intagli riempiti con materiale fonoassorbente Sawblade with low noise slots filled with sound-absorbing resin Geräuschreduzierte Sägeblätter mit Kunstharz-Inlays	 Lama con intagli non riempiti con materiale fonoassorbente Sawblade with low noise slots not filled with resin Geräuschreduzierte Sägeblätter ohne Kunstharz-Inlays
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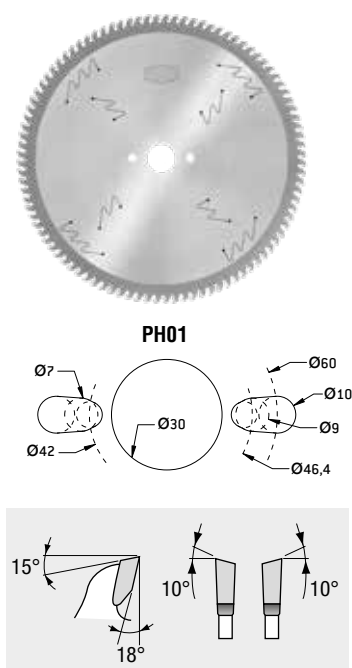
DENTATURA / TOOTH SHAPE / VERZÄHNUNG

 ATB Dente alterno Alternate top bevel tooth Wechselzahn	 CON Dente conico Conical tooth Konisch Zahn
 TCG Dente alterno piatto trapezoidale Triple chip-flat tooth Flach-Trapezzahn	 HDF Dente alterno concavo Hollow/inverted V and flat tooth Hohl-Dach-Flachzahn
 FLAT Dente piatto Flat tooth Flachzahn	 WWF (DRY CUT) Dente alternato-alternato-piatto Alternate-alternate-flat tooth Wechsel-Wechsel-Flachzahn



U02  p. 187	U04  p. 187	U07  p. 188	U09  p. 188
U10  p. 189	U11  p. 189	U13  p. 190	S05  p. 191
SU15  p. 191	C04/C09/C10  p. 192	C05  p. 192	S09  p. 194
M10  p. 194	M11  p. 195	M12  p. 196	M13  p. 197
S03  p. 198	I07  p. 199	I05/I06  p. 200	I20  p. 201
N02  p. 201	HMD  p. 202	HMN  p. 203	HMP  p. 204

LAME TCT UNIVERSALI CON INTAGLI "LOW NOISE" UNIVERSAL TCT SAW BLADES WITH LOW NOISE SLOTS HM UNIVERSALKREISSÄGEBLÄTTER - GERÄUSCHARM

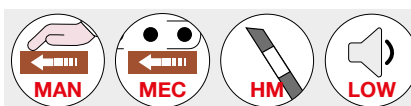


IMPIEGO: Lame per il taglio lungo vena di legni teneri e duri.

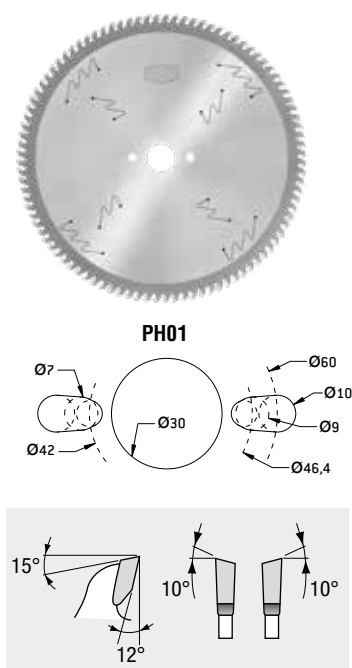
USE: Circular saw blades for ripping and cross-cutting hard and soft woods.

ANWENDUNG: Für Längs- und Querschnitte in Weichholz und Hartholz geeignet.

U02								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
180	3,2	2,2	30	-	24	ATB	U0218032024C	40,10
200	3,2	2,2	30	-	24	ATB	U0220032024C	44,00
250	3,2	2,2	30	PH01	30	ATB	U0225032030C	46,40
300	3,2	2,2	30	PH01	36	ATB	U0230032036C	56,00
350	3,5	2,5	30	PH01	42	ATB	U0235035042C	66,90
400	3,8	2,8	30	PH01	48	ATB	U0240038048C	78,30
450	4,2	3,2	30	2/10/60	54	ATB	U0245042054C	112,70
500	4,2	3,2	30	2/10/60	60	ATB	U0250042060C	145,10



LAME TCT UNIVERSALI CON INTAGLI "LOW NOISE" UNIVERSAL TCT SAW BLADES WITH LOW NOISE SLOTS HM UNIVERSALKREISSÄGEBLÄTTER - GERÄUSCHARM



IMPIEGO: Lame per il taglio lungo vena e trasverso vena di legni teneri e duri.

USE: Circular saw blades for ripping and cross-cutting hard and soft woods.

ANWENDUNG: Für Längs- und Querschnitte von weichen und harten Hölzern geeignet.

U04								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
100	3,2	2,2	30	-	16	ATB	U0410032016C	28,70
120	3,2	2,2	30	-	20	ATB	U0412032020C	32,00
125	3,2	2,2	30	-	20	ATB	U0412532020C	34,40
150	3,2	2,2	30	-	24	ATB	U0415032024C	37,60
180	3,2	2,2	30	-	30	ATB	U0418032030C	42,80
200	3,2	2,2	30	-	34	ATB	U0420032034C	48,00
250	3,2	2,2	30	PH01	40	ATB	U0425032040C	57,70
300	3,2	2,2	30	PH01	48	ATB	U0430032048C	64,40
350	3,5	2,5	30	PH01	54	ATB	U0435035054C	74,70
400	3,8	2,8	30	PH01	60	ATB	U0440038060C	88,70
450	4,2	3,2	30	2/10/60	72	ATB	U0445042072C	140,20
500	4,2	3,2	30	2/10/60	72	ATB	U0450042072C	167,50

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

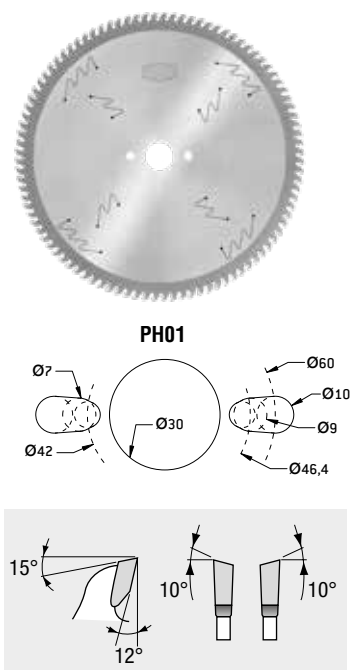


LAME TCT UNIVERSALI UNIVERSAL TCT SAW BLADES HM UNIVERSALKREISSÄGEBLÄTTER

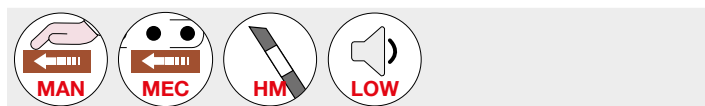
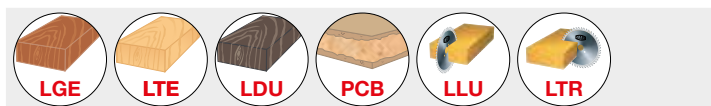
IMPIEGO: Lame per il taglio lungo vena e trasverso vena di legni teneri e duri.

USE: Circular saw blades for ripping and cross-cutting hard and soft woods.

ANWENDUNG: Für Längs- und Querschnitte von weichen und harten Hölzern geeignet.



U07								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
150	3,2	2,2	30	-	30	ATB	U0715032030C	42,60
180	3,2	2,2	30	-	36	ATB	U0718032036C	48,90
200	3,2	2,2	30	-	42	ATB	U0720032042C	54,50
250	3,2	2,2	30	PH01	48	ATB	U0725032048C	62,00
300	3,2	2,2	30	PH01	60	ATB	U0730032060C	75,10
350	3,5	2,5	30	PH01	72	ATB	U0735035072C	87,50
400	3,8	2,8	30	PH01	72	ATB	U0740038072C	99,60

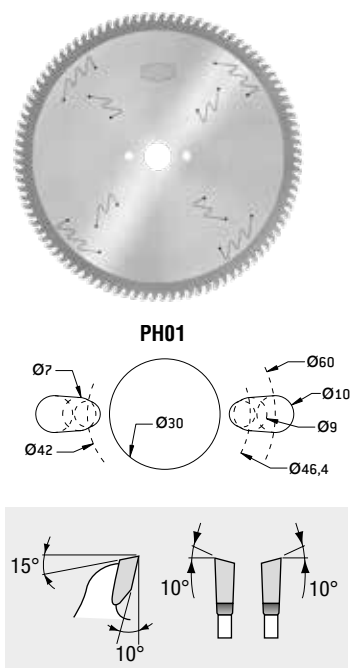


LAME TCT UNIVERSALI UNIVERSAL TCT SAW BLADES HM UNIVERSALKREISSÄGEBLÄTTER

IMPIEGO: Lame per il taglio lungo vena e trasverso vena di legni teneri e duri.

USE: Circular saw blades for ripping and cross-cutting hard and soft woods.

ANWENDUNG: Für Längs- und Querschnitte von weichen und harten Hölzern geeignet.

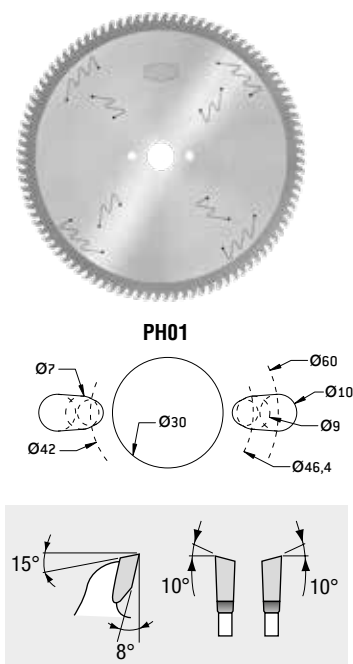


U09								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
100	3,2	2,2	30	-	24	ATB	U0910032024C	38,00
120	3,2	2,2	30	-	30	ATB	U0912032030C	40,70
125	3,2	2,2	30	-	30	ATB	U0912532030C	41,50
150	3,2	2,2	30	-	36	ATB	U0915032036C	46,80
180	3,2	2,2	30	-	42	ATB	U0918032042C	53,10
200	3,2	2,2	30	-	48	ATB	U0920032048C	58,60
250	3,2	2,2	30	PH01	60	ATB	U0925032060C	69,00
300	3,2	2,2	30	PH01	72	ATB	U0930032072C	81,30
350	3,5	2,5	30	PH01	84	ATB	U0935035084C	96,30
400	3,8	2,8	30	PH01	96	ATB	U0940038096C	112,10
450	4,2	2,8	30	2/10/60	108	ATB	U0945042108C	157,90
500	4,2	2,8	30	2/10/60	120	ATB	U0950042120C	247,90

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



LAME TCT UNIVERSALI CON INTAGLI "LOW NOISE" UNIVERSAL TCT SAW BLADES WITH LOW NOISE SLOTS HM UNIVERSALKREISSÄGEBLÄTTER - GERÄUSCHARM



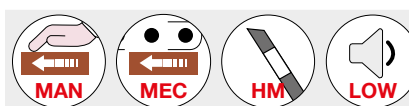
IMPIEGO: Lame per il taglio trasverso vena di legni teneri e duri.

USE: Circular saw blades for cross-cutting hard and soft woods.

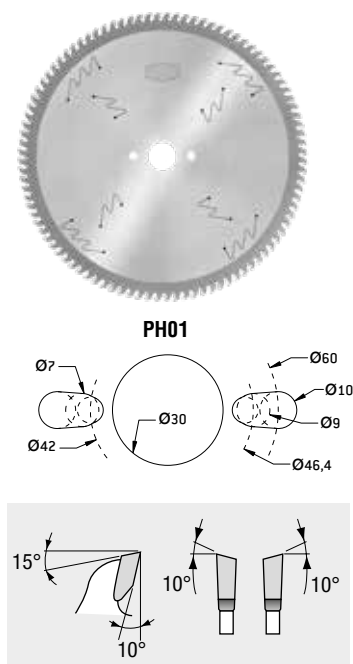
ANWENDUNG: Für Querschnitte von weichen und harten Hölzern geeignet.

U10								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
120	3,2	2,2	30	-	40	ATB	U1012032040C	49,20
125	3,2	2,2	30	-	40	ATB	U1012532040C	50,30
150	3,2	2,2	30	-	48	ATB	U1015032048C	56,60
180	3,2	2,2	30	-	56	ATB	U1018032056C	66,60
200	3,2	2,2	30	-	64	ATB	U1020032064C	70,40
250	3,2	2,2	30	PH01	80	ATB	U1025032080C	83,10
300	3,2	2,2	30	PH01	96	ATB	U1030032096C	99,50
350	3,5	2,5	30	PH01	108	ATB	U1035035108C	110,90
400	3,8	2,8	30	PH01	120	ATB	U1040038120C	122,10
450	4,2	2,8	30	2/10/60	132	ATB	U1045042132C	223,20

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



LAME TCT UNIVERSALI A SPESSORE SOTTILE THIN UNIVERSAL TCT SAW BLADES HM DUNNES UNIVERSALKREISSÄGEBLÄTTER

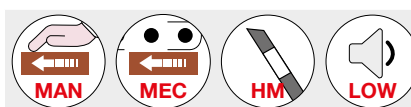


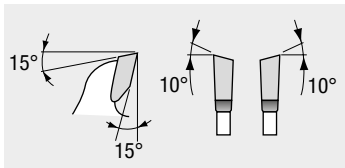
IMPIEGO: Lame per il taglio lungo vena e trasverso vena di legni teneri, duri e pregiati con ottima finitura.

USE: Circular saw blades for ripping and cross-cutting hard, soft and exotic woods, with high degree finish.

ANWENDUNG: Für Längs- und Querschnitte von weichen und harten Hölzern geeignet. Erzielt optimale Schnittoberflächen.

U11								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
200	2,4	1,7	30	-	48	ATB	U1120024048C	62,70
200	2,4	1,7	30	-	64	ATB	U1120024064C	73,50
250	2,5	1,7	30	PH01	60	ATB	U1125025060C	73,90
250	2,5	1,7	30	PH01	80	ATB	U1125025080C	88,00
300	2,5	1,7	30	PH01	72	ATB	U1130025072C	87,00
300	2,5	1,7	30	PH01	96	ATB	U1130025096C	103,40
350	2,6	2,0	30	PH01	108	ATB	U1135026108C	118,30





IMPIEGO: Lame per il taglio trasverso vena di legni teneri e duri.

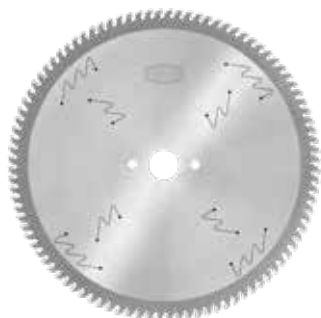
USE: Circular saw blades for cross-cutting hard and soft woods.

ANWENDUNG: Für Querschnitte von weichen und harten Hölzern geeignet.

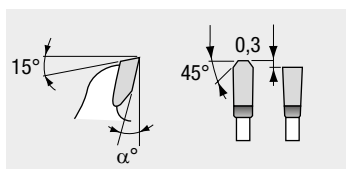
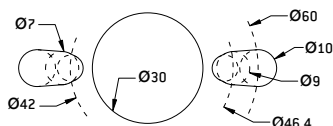
U13								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
450	4,2	2,8	30	2/10/60	36	ATB	U1345042036C	92,40
450	4,2	2,8	30	2/10/60	40 *	ATB	U1345042T40C	105,80
500	4,2	2,8	30	2/10/60	40	ATB	U1350042040C	117,80
500	4,2	2,8	30	2/10/60	44 *	ATB	U1350042T44C	119,50
550	5,2	3,6	30	2/10/60	44	ATB	U1355052044C	208,70
550	5,2	3,6	30	2/10/60	48 *	ATB	U1355052T48C	162,75
550	4,4	3,2	30	2/10/60	60	ATB	U1355044060C	205,80
550	5,2	3,5	30	2/10/60	60	ATB	U1355052060C	211,80
600	5,2	3,6	30	2/10/60	48	ATB	U1360052048C	246,60
600	5,2	3,6	30	2/10/60	48 *	ATB	U1360052T48C	181,60
600	4,4	3,2	30	2/10/60	60	ATB	U1360044060C	223,10
600	4,4	3,2	30	2/10/60	72	ATB	U1360044072C	230,30
600	5,2	3,5	30	2/10/60	60	ATB	U1360052060C	257,10
650	6,2	4,0	35	2/10/60	48	ATB	U1365062048C	295,00
650	6,2	4,0	35	2/10/60	48 *	ATB	U1365062T48C	460,40
700	6,2	4,0	30	2/10/60	48	ATB	U1370062048C	493,20
700	6,2	4,0	30	2/10/60	48 *	ATB	U1370062T48C	493,20
700	5,6	4,0	30	2/10/60	84	ATB	U1370056084C	530,50

* Con limitatore di truciolo / With chip limiter / Mit Abweiser zur Spandickenbegrenzung

LAME TCT UNIVERSALI PER IL TAGLIO DI PANNELLI UNIVERSAL TCT SAW BLADES FOR CUTTING PANELS HM UNIVERSALKREISSÄGEBLÄTTER FÜR PLATTEN



PH01



IMPIEGO: Lame per il taglio di pannelli di ogni genere, MDF, bilaminato, truciolare, multistrato. Per pannelli ricoperti da melaminico da ambo i lati si consiglia l'utilizzo di lama incisore. Angolo di taglio positivo.

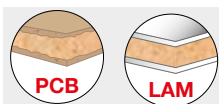
USE: Circular saw blades for cutting MDF, plastic laminated, hardboard and multilayer panels. We always recommend using a scoring saw blade when cutting double faced laminated panels. Positive cutting angle.

ANWENDUNG: Für den Schnitt von Platten jeder Art (MDF, Spanplatten, Tischlerplatten, auch beidseitig beschichtet). Bei beschichteten Platten wird der Einsatz von Vorritzsägen empfohlen. Positiver Spanwinkel.

S05

Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	α	Art. Nr.	€
200	3,2	2,2	30	PH01	64	TCG	5°	S0520032064C	75,70
250	3,2	2,2	30	PH01	60	TCG	10°	S0525032060C	62,00
250	3,2	2,2	30	PH01	80	TCG	5°	S0525032080C	67,50
300	3,2	2,2	30	PH01	72	TCG	10°	S0530032072C	76,40
300	3,2	2,2	30	PH01	96	TCG	5°	S0530032096C	78,40
350	3,5	2,5	30	PH01	84	TCG	10°	S0535035084C	107,30
350	3,5	2,5	30	PH01	108	TCG	5°	S0535035108C	99,20

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

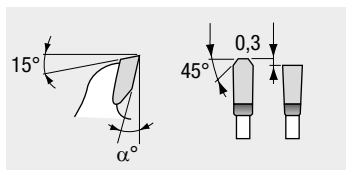
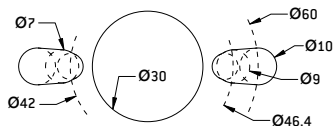


LAME TCT UNIVERSALI SILENZIATE LOW NOISE TCT UNIVERSAL SAW BLADES HM UNIVERSALKREISSÄGEBLÄTTER GERÄUSCHGEDÄMPFT

UPGRADE



PH01



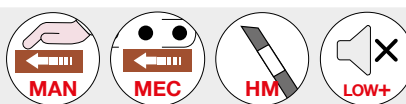
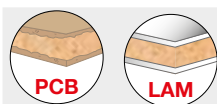
IMPIEGO: Lame per il taglio di pannelli di ogni genere, MDF, bilaminato, truciolare, multistrato. Per pannelli ricoperti da melaminico da ambo i lati si consiglia l'utilizzo di lama incisore. Dente piatto trapezoidale.

USE: Circular saw blades for cutting MDF, plastic laminated, hardboard and multilayer panels. We always recommend using a scoring saw blade when cutting double faced laminated panels. Triple chip-flat tooththing.

ANWENDUNG: Für den Schnitt von Platten jeder Art (MDF, Spanplatten, Tischlerplatten, auch beidseitig beschichtet). Bei beschichteten Platten wird der Einsatz von Vorritzsägen empfohlen. Flach-/Trapezzahn.

SU15

Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	α	Art. Nr.	€
250	3,2	2,2	30	PH01	60	TCG	10°	SU1525032060C	78,00
250	3,2	2,2	30	PH01	80	TCG	8°	SU1525032080C	94,30
300	3,2	2,2	30	PH01	72	TCG	10°	SU1530032072C	95,20
300	3,2	2,2	30	PH01	96	TCG	8°	SU1530032096C	112,40
350	3,5	2,5	30	PH01	84	TCG	10°	SU1535035084C	131,20
350	3,5	2,5	30	PH01	108	TCG	8°	SU1535035108C	140,50



La nuova linea **SILVER CHROME LINE** è caratterizzata da un nuovo rivestimento galvanico e da una nuova resina fonoassorbente appositamente sviluppati per questa gamma di seghe circolari.

The new **SILVER CHROME LINE** is characterized by a new galvanic coating and a new sound-absorbing resin specially developed for this range of circular saws.

Die neue **SILVER CHROME LINE** zeichnet sich durch eine neue galvanische Beschichtung und ein neues schallabsorbierendes Kunstharz aus, das speziell für diese Kreissägen-Baureihe entwickelt wurde.



Il nuovo rivestimento conferisce alla lama le seguenti caratteristiche:

The new coating gives the blade the following characteristics:

Die neue Beschichtung verleiht der Schneide folgende Eigenschaften:

- Un ridotto coefficiente d'attrito che è un fattore determinante per favorire lo scarico del truciolo.
- A reduced coefficient of friction which is a determining factor in facilitating chip discharge.
- Ein reduzierter Reibungskoeffizient, der ein entscheidender Faktor für die Begünstigung der Spanabfuhr ist.

- Un elevato potere anticorrosione che garantisce una elevata protezione contro le ossidazioni superficiali.
- A high anticorrosive power which guarantees high protection against surface oxidation.
- Ein hohes Korrosionsschutzvermögen, das einen hohen Schutz gegen Oberflächenoxidation garantiert.

- Un elevato potere antiaderente che riduce drasticamente l'incollaggio della resina sul corpo della lama.
- A high non-stick power which drastically reduces the sticking of the resin on the body of the blade.
- Eine hohe Antihaftkraft, die das Anhaften des Harzes am Kreissägen-Stammbblatt drastisch reduziert.

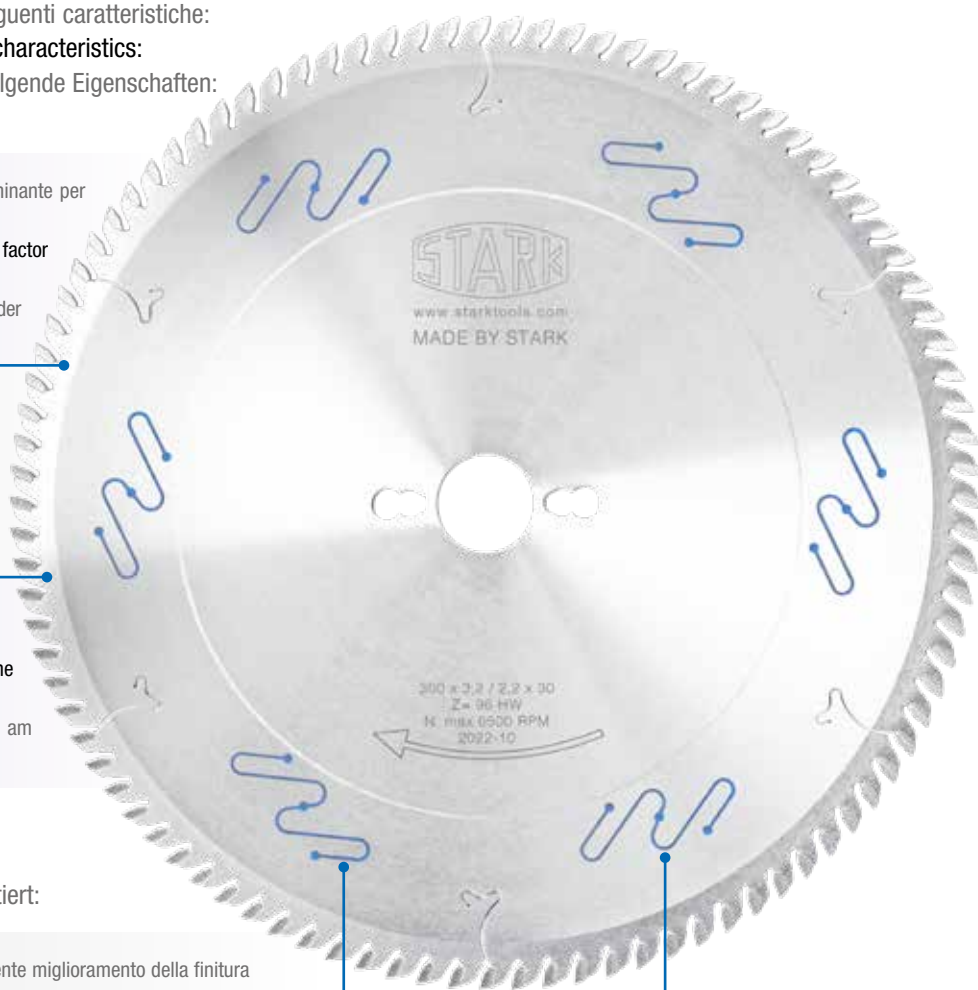
La nuova resina fonoassorbente garantisce:

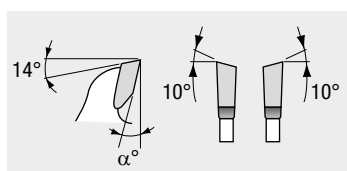
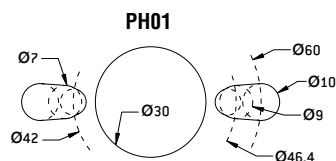
The new sound-absorbing resin guarantees:

Das neue schallabsorbierende Kunstharz garantiert:

- Una drastica riduzione delle vibrazioni con un conseguente miglioramento della finitura superficiale del pezzo tagliato.
- A drastic reduction of vibrations with consequent improvement of the surface finish of the cut piece.
- Eine drastische Reduzierung von Vibrationen mit einer daraus resultierenden Verbesserung der Oberflächengüte des geschnittenen Teils.

- Una drastica riduzione della rumorosità durante il taglio.
- A drastic reduction of noise during cutting.
- Eine drastische Geräuschreduzierung beim Schneiden.





IMPIEGO: Indicate per il taglio lungo vena di legni teneri e duri.

USE: Suitable for ripping and cross cutting hard and soft woods.

ANWENDUNG: Für Längs- und Querschnitte in Weichholz und Hartholz geeignet.

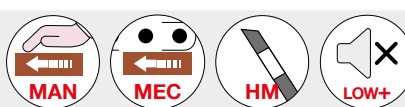


C04 · C09 · C10										
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	α	Art. Nr.		€ / Net
250	3,2	2,2	30	PH01	40	ATB	20°	C0425032040C	■	46,50
250	3,2	2,2	30	PH01	60	ATB	15°	C0925032060C	■	51,00
250	3,2	2,2	30	PH01	80	ATB	12°	C1025032080C	■	55,10
300	3,2	2,2	30	PH01	48	ATB	20°	C0430032048C	●	55,10
300	3,2	2,2	30	PH01	72	ATB	15°	C0930032072C	●	61,80
300	3,2	2,2	30	PH01	96	ATB	12°	C1030032096C	■	70,00
350	3,5	2,5	30	PH01	54	ATB	20°	C0435035054C	●	83,10
350	3,5	2,5	30	PH01	84	ATB	15°	C0935035084C	●	96,40
350	3,5	2,5	30	PH01	108	ATB	12°	C1035035108C	■	107,10

- Disponibile a magazzino / Ready from stock / Ab Lager lieferbar
- Non disponibile a magazzino - Consegna 8/10 settimane
Not available in stock - Delivery 8/10 weeks
Nicht auf Lager - Lieferzeit 8/10 Wochen

Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each / Mindest bestellmengen: 10 stück / pro

Metallo duro / Carbide Grade / Hartmetall: ISO K05 - HV10=1950

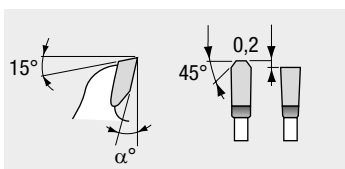
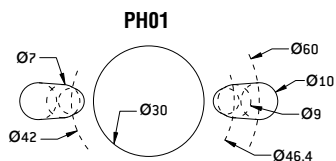




IMPIEGO: Angolo di taglio positivo. Indicate per il taglio di pannelli di ogni genere, MDF, bilaminato, truciolare, multistrato. Per pannelli ricoperti da melaminico da ambo i lati si consiglia l'utilizzo di lama incisore.

USE: Positive cutting angle. Suitable for cutting MDF, plastic laminates, hardboard and multilayer panels. We always recommend using a scoring saw blade when cutting double faced laminated panels.

ANWENDUNG: Positiver Spanwinkel. Für den Zuschnitt von Plattenwerkstoffen aller Art (MDF, Spanplatten, Tischlerplatten, auch beidseitig beschichtet). Bei beschichteten Platten empfehlen wir den Einsatz von Vorritzsägen.

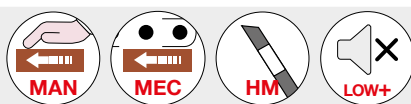
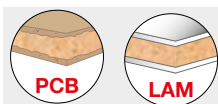


C05										
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	α	Art. Nr.		€/ Net
250	3,2	2,2	30	PH01	80	TCG	13°	C0525032080C	•	58,20
300	3,2	2,2	30	PH01	72	TCG	13°	C0530032072C	•	62,00
300	3,2	2,2	30	PH01	96	TCG	13°	C0530032096C	•	70,00
350	3,5	2,5	30	PH01	84	TCG	13°	C0535035084C	•	90,00
350	3,5	2,5	30	PH01	108	TCG	13°	C0535035108C	•	95,70

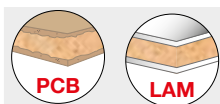
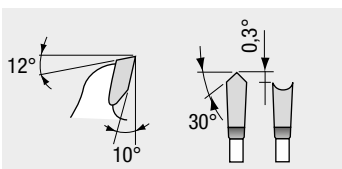
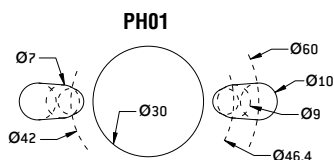
• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each / Mindest bestellmengen: 10 stück / pro

Metallo duro / Carbide Grade / Hartmetall: ISO K01 - HV10=2150



LAME TCT PER MACCHINE SEZIONATRICI VERTICALI PANEL SIZING TCT SAW BLADES FOR VERTICAL SIZING MACHINES HM KREISSÄGEBLÄTTER FÜR VERTICAL PLATTENAUFTEILANLAGEN-GERÄUSCHARM



IMPIEGO: Lame per seghe da banco e macchine sezionatrici verticali per il taglio di pannelli bilaminati senza l'utilizzo della lama incisore. Denti alterni concavi positivi.

USE: Circular saw blades for table and vertical dividing sawing machines for cutting plastic laminated panels without the scoring sawblade. With hollow/inverted V and flat teeth with positive angle.

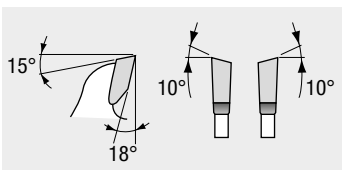
ANWENDUNG: Zum Einsatz auf Plattenaufteilsägen ohne Vorritzsäge für beschichtete Platten. Hohlzahn-dach-flach-positiv.

S09									
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.		€
220	3,2	2,2	30	PH01	42	HDF	S0922032042C		105,90
250	3,2	2,2	30	PH01	48	HDF	S0925032048C		107,90
303	3,2	2,2	30	PH01	60	HDF	S0930332060C	•	138,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



LAME TCT PER MULTILAME MULTI-RIPPING TCT SAW BLADES HM ZUSCHNITT-KREISSÄGEBLÄTTER



IMPIEGO: Lame per il taglio lungo vena di legni teneri, duri ed esotici.

USE: Circular saw blades for ripping hard, soft and exotic woods.

ANWENDUNG: Für Aufteilschnitte in weichen, harten und exotischen Hölzern.

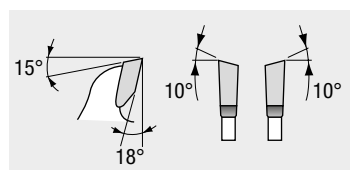
M10									
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	2 KW	Z	TYPE	Art. Nr.		€
200	3,2	2,2	30	-	16	ATB	M1020032016C		39,70
250	3,2	2,2	30	-	20	ATB	M1025032020C	•	42,50
250	3,2	2,2	70	21 x 7	20	ATB	M1025032020H	•	46,20
300	3,2	2,2	30	-	24	ATB	M1030032024C	•	49,20
300	3,2	2,2	70	21 x 7	24	ATB	M1030032024H		51,50
350	3,5	2,5	30	-	28	ATB	M1035035028C	•	59,60
350	3,5	2,5	70	21 x 7	28	ATB	M1035035028H		61,90
400	3,8	2,8	30	-	32	ATB	M1040038032C		70,70
400	3,8	2,8	70	21 x 7	32	ATB	M1040038032H		76,80

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

2 KW: 2 Chiavette / 2 Keyway / 2 Keylnute



LAME TCT CON LIMITATORE DI TRUCIOLO PER MULTILAME MULTI-RIPPING TCT SAW BLADES WITH CHIP LIMITOR HM ZUSCHNITT-KREISSÄGEBLÄTTER MIT ABWEISERN



IMPIEGO: Lame per il taglio lungo vena di legni teneri, duri ed esotici con o senza nodi.

USE: Circular saw blades for ripping hard, soft and exotic wood with or without knots.

ANWENDUNG: Für Aufteilschnitte in weichen, harten und exotischen Hölzern mit Ästen.

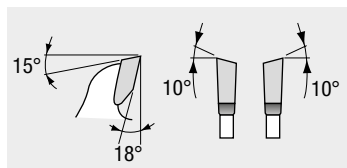
M11								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	2 KW	Z	TYPE	Art. Nr.	€
250	2,5	1,7	30	-	20	ATB	M1125025020C	62,90
250	2,5	1,7	70	21 x 7	20	ATB	M1125025020H	62,90
250	2,5	1,7	80	13 x 5	20	ATB	M1125025020I	62,90
250	3,2	2,2	30	-	20	ATB	M1125032020C	44,00
250	3,2	2,2	70	21 x 7	20	ATB	M1125032020H	46,20
250	3,2	2,2	80	13 x 5	20	ATB	M1125032020I	46,20
250	3,2	2,2	30	-	24	ATB	M1125032024C	44,00
250	3,2	2,2	70	21 x 7	24	ATB	M1125032024H	50,20
250	3,2	2,2	80	13 x 5	24	ATB	M1125032024I	50,20
300	2,5	1,7	30	-	24	ATB	M1130025024C	53,10
300	2,5	1,7	70	21 x 7	24	ATB	M1130025024H	53,10
300	2,5	1,7	80	13 x 5	24	ATB	M1130025024I	53,10
300	3,2	2,2	30	-	24	ATB	M1130032024C	49,20
300	3,2	2,2	70	21 x 7	24	ATB	M1130032024H	51,50
300	3,2	2,2	80	13 x 5	24	ATB	M1130032024I	51,50
300	3,2	2,2	30	-	28	ATB	M1130032028C	51,50
300	3,2	2,2	70	21 x 7	28	ATB	M1130032028H	57,70
300	3,2	2,2	80	13 x 5	28	ATB	M1130032028I	57,70
350	3,5	2,5	30	-	28	ATB	M1135035028C	65,30
350	3,5	2,5	70	21 x 7	28	ATB	M1135035028H	61,90
350	3,5	2,5	80	13 x 5	28	ATB	M1135035028I	61,90
350	3,5	2,5	30	-	32	ATB	M1135035032C	63,40
350	3,5	2,5	70	21 x 7	32	ATB	M1135035032H	69,50
350	3,5	2,5	80	13 x 5	32	ATB	M1135035032I	69,50
400	3,8	2,8	30	-	32	ATB	M1140038032C	70,70
400	3,8	2,8	70	21 x 7	32	ATB	M1140038032H	76,80
400	3,8	2,8	80	13 x 5	32	ATB	M1140038032I	76,80
400	3,8	2,8	30	-	36	ATB	M1140038036C	75,10
400	3,8	2,8	70	21 x 7	36	ATB	M1140038036H	81,20
400	3,8	2,8	80	13 x 5	36	ATB	M1140038036I	81,20

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

2 KW: 2 Chiavette / 2 Keyway / 2 Keylnute



LAME TCT CON RASANTI PER MULTILAME MULTI-RIPPING TCT SAW BLADES WITH WIPER SLOTS HM KREISSÄGEBLÄTTER MIT RÄUMERSCHNEIDEN FÜR MEHRBLATTSÄGEN



IMPIEGO: Lame per il taglio lungovena e per lavori gravosi su tutti i tipi di legname, sia esso tenero, duro, secco o umido. Adatte anche al taglio di tavolame distorto. Ideale per segherie e nella produzione di pallets o imballaggi.

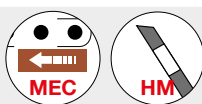
USE: Circular saw blades for heavy duty ripping and cutting of all types of soft, hard, dry or wet wood in sawmills and pallet manufacturing.

ANWENDUNG: Geeignet für grobe Aufteilschnitte von Hölzern aller Art (weich, hart, trocken, naß, gefroren) z.B. Bauholz, Holz für Paletten / Verpackungen / Verschalungen, etc.

M12									
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	2 KW	Z	TYPE	Art. Nr.		€
250	2,7	1,9	70	21 x 7	20+4	ATB	M1225027024H		62,90
250	2,7	1,9	80	13 x 5	20+4	ATB	M1225027024I		62,90
250	3,2	2,2	30	-	20+4	ATB	M1225032024C	•	65,10
250	3,2	2,2	70	21 x 7	20+4	ATB	M1225032024H	•	65,10
250	3,2	2,2	80	13 x 5	20+4	ATB	M1225032024I		65,10
280	3,2	2,2	70	21 x 7	22+4	ATB	M1228032026H		75,50
280	3,2	2,2	80	13 x 5	22+4	ATB	M1228032026I		75,50
300	3,2	2,2	70	21 x 7	20+4	ATB	M1230032024H		75,50
300	3,2	2,2	80	13 x 5	20+4	ATB	M1230032024I		75,50
300	3,2	2,2	30	-	24+4	ATB	M1230032028C	•	76,20
300	3,2	2,2	70	21 x 7	24+4	ATB	M1230032028H	•	76,20
300	3,2	2,2	80	13 x 5	24+4	ATB	M1230032028I		76,20
300	3,5	2,5	70	21 x 7	20+4	ATB	M1230035024H		79,20
300	3,5	2,5	80	13 x 5	20+4	ATB	M1230035024I		79,20
320	3,2	2,2	70	21 x 7	24+4	ATB	M1232032028H		101,50
320	3,2	2,2	80	13 x 5	24+4	ATB	M1232032028I		101,50
350	3,8	2,5	70	21 x 7	24+6	ATB	M1235038030H		101,50
350	3,8	2,5	80	13 x 5	24+6	ATB	M1235038030I		103,40
350	3,8	2,5	70	21 x 7	30+6	ATB	M1235038036H	•	106,00
350	3,8	2,5	80	13 x 5	30+6	ATB	M1235038036I	•	106,00
350	4,0	2,8	70	21 x 7	24+6	ATB	M1235040030H		111,30
350	4,0	2,8	80	13 x 5	24+6	ATB	M1235040030I		111,30
380	4,0	2,8	70	21 x 7	30+6	ATB	M1238040036H		131,10
380	4,0	2,8	80	13 x 5	30+6	ATB	M1238040036I		131,10
400	4,0	2,8	70	21 x 7	28+4	ATB	M1240040032H		133,90
400	4,0	2,8	80	13 x 5	28+4	ATB	M1240040032I		133,90
400	4,2	2,8	70	21 x 7	30+6	ATB	M1240042036H		133,60
400	4,2	2,8	80	13 x 5	30+6	ATB	M1240042036I		133,60

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

2 KW: 2 Chiavette / 2 Keyway / 2 Keynute

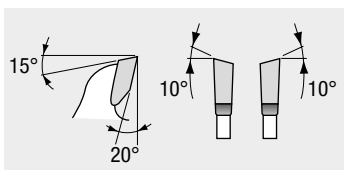




IMPIEGO: Lame per il taglio lungo vena di legni teneri, duri ed esotici con o senza nodi. Adatte anche per il taglio di tavolame distorto. Ideale per segherie e nella produzione di pallets o imballaggi.

USE: Circular saw blades or heavy duty ripping and cutting of all types of soft, hard, dry or wet wood, with or without knots, in saw mills and pallet manufacturing.

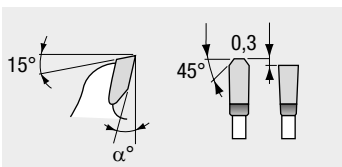
ANWENDUNG: Geeignet für den Längsschnitt von Hölzern aller Art (weich, hart, mit und ohne Äste), z.B. Bauholz, Holz für Paletten/Verpackungen/Verschalungen etc.



M13								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	2 KW	Z	TYPE	Art. Nr.	€
250	2,0	1,4	30	-	20+2	ATB	M1325020022C	72,10
250	2,0	1,4	60	21 x 7	20+2	ATB	M1325020022G	72,10
250	2,0	1,4	70	21 x 7	20+2	ATB	M1325020022H	72,10
250	2,0	1,4	80	13 x 5	20+2	ATB	M1325020022I	72,10
250	2,5	1,7	30	-	20+4	ATB	M1325025024C	63,10
250	2,5	1,7	60	21 x 7	20+4	ATB	M1325025024G	63,10
250	2,5	1,7	70	21 x 7	20+4	ATB	M1325025024H	63,10
250	2,5	1,7	80	13 x 5	20+4	ATB	M1325025024I	63,10
300	2,5	1,7	30	-	24+4	ATB	M1330025028C	75,50
300	2,5	1,7	60	21 x 7	24+4	ATB	M1330025028G	75,50
300	2,5	1,7	70	21 x 7	24+4	ATB	M1330025028H	75,50
300	2,5	1,7	80	13 x 5	24+4	ATB	M1330025028I	75,50

2 KW: 2 Chiavette / 2 Keyway / 2 KeyInute

LAME TCT PER MACCHINE SEZIONATRICI PANEL SIZING TCT SAW BLADES FOR DIVIDING MACHINES HM KREISSÄGEN FÜR PLATTENAUFTEILMASCHINEN

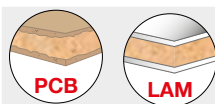


IMPIEGO: Lame per sezionare e squadrare pannelli truciolari singoli o in pacco, in MDF, bilaminati, impiallacciati e in fibra dura. Dente alterno piatto trapezoidale.

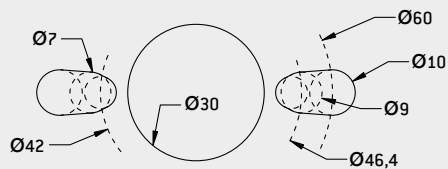
USE: Circular saw blades for dividing and sizing veneered and plastic laminated chipboards, single or stacked panels. Triple chip-flat toothing.

ANWENDUNG: Zum schneiden von Spanplatten einzeln oder im Paket, MDF-Platten, beschichtete Platten, Hartfaserplatten. Flach-/Trapezzahn.

S03									
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	α	Art. Nr.	€
300	4,4	2,8	30	PH01	48	TCG	10°	S0330044048C	104,40
300	4,4	2,8	75	PH05	48	TCG	10°	S0330044048M	125,60
300	4,4	2,8	80	PH06	48	TCG	10°	S0330044048I	125,60
300	4,4	2,8	30	PH01	60	TCG	10°	S0330044060C	126,10
300	4,4	2,8	75	PH05	60	TCG	10°	S0330044060M	126,10
300	4,4	2,8	80	PH06	60	TCG	10°	S0330044060I	126,10
320	4,4	3,2	50	GIBEN	72	TCG	10°	S0332044072L	169,20
320	4,4	3,2	75	PH05	72	TCG	10°	S0332044072I	169,20
350	4,4	3,2	30	PH01	54	TCG	10°	S0335044054C	124,50
350	4,4	3,2	75	PH05	54	TCG	10°	S0335044054M	124,50
350	4,4	3,2	80	PH06	54	TCG	10°	S0335044054I	124,50
350	4,4	3,0	30	PH01	72	TCG	10°	S0335044072C	141,90
350	4,4	3,0	75	PH05	72	TCG	10°	S0335044072M	156,00
350	4,4	3,0	80	PH06	72	TCG	10°	S0335044072I	141,90
380	4,4	3,2	60	HOLZMA	72	TCG	15°	S0338044072G	161,20
380	4,8	3,5	60	HOLZMA	72	TCG	15°	S0338048072G	195,00
400	4,4	3,2	30	PH01	60	TCG	15°	S0340044060C	142,40
400	4,4	3,2	75	PH05	60	TCG	15°	S0340044060M	142,40
400	4,4	3,2	80	PH06	60	TCG	15°	S0340044060I	142,40
400	4,4	3,2	30	PH01	72	TCG	15°	S0340044072C	161,20
400	4,4	3,2	75	PH05	72	TCG	15°	S0340044072M	161,20
400	4,4	3,2	80	PH06	72	TCG	15°	S0340044072I	160,90
420	4,8	3,5	60	HOLZMA	72	TCG	15°	S0342048072G	201,90
430	4,4	3,2	30	PH01	54	TCG	15°	S0343044054C	163,70
430	4,4	3,2	75	PH05	54	TCG	15°	S0343044054M	168,00
430	4,4	3,2	80	PH06	54	TCG	15°	S0343044054I	172,90
430	4,4	3,2	30	PH01	72	TCG	15°	S0343044072C	184,20
430	4,4	3,2	75	PH05	72	TCG	15°	S0343044072M	188,40
430	4,4	3,2	80	PH06	72	TCG	15°	S0343044072I	193,30
450	4,4	3,2	30	PH01	72	TCG	15°	S0345044072C	195,50
450	4,4	3,2	75	PH05	72	TCG	15°	S0345044072M	202,80
450	4,4	3,2	80	PH06	72	TCG	15°	S0345044072I	195,50
450	4,8	3,5	60	HOLZMA	72	TCG	15°	S0345048072G	227,70
500	4,4	3,2	30	PH01	60	TCG	15°	S0350044060C	177,30
500	4,4	3,2	75	GIBEN	60	TCG	15°	S0350044060M	199,00
500	4,4	3,2	80	PH06	60	TCG	15°	S0350044060I	199,00
500	4,4	3,2	30	PH01	72	TCG	15°	S0350044072C	201,00
500	4,4	3,2	75	GIBEN	72	TCG	15°	S0350044072M	222,10
500	4,4	3,2	80	PH06	72	TCG	15°	S0350044072I	222,10
500	4,8	3,5	60	HOLZMA	60	TCG	15°	S0350048060G	230,30
500	4,8	3,5	60	HOLZMA	72	TCG	15°	S0350048072G	249,30



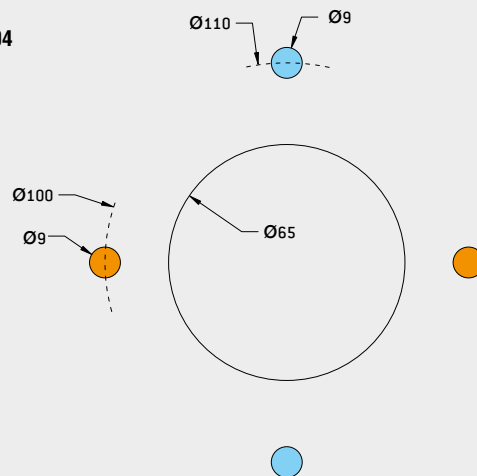
PH01



Per macchine: / For machines: / Für Maschinen:

PANHANS - SCM - SCHEER - SCHELLING - CASADEI

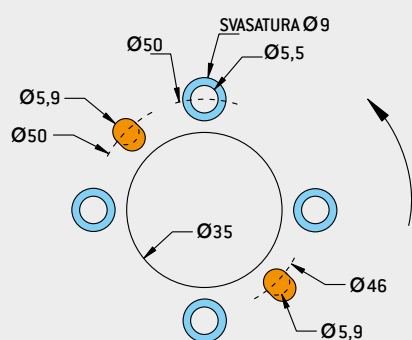
PH04



Per macchine: / For machines: / Für Maschinen:

SELCO

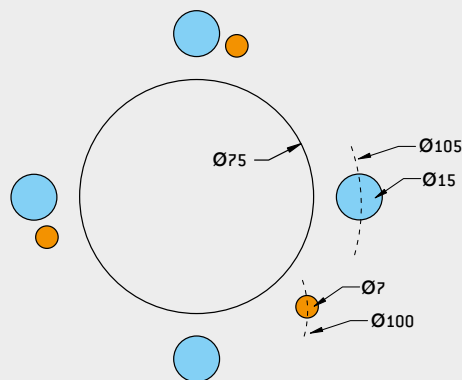
PH02



Per macchine: / For machines: / Für Maschinen:

BIESSE

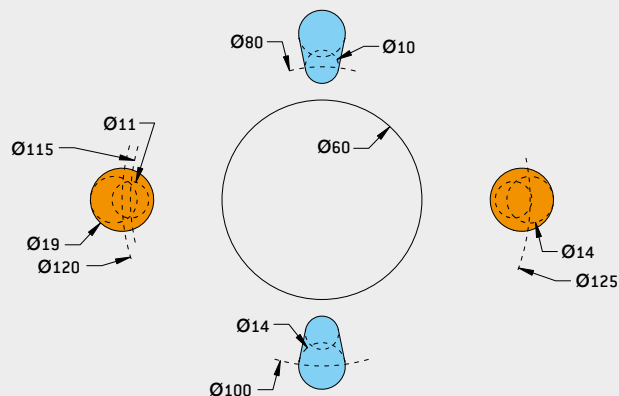
PH05



Per macchine: / For machines: / Für Maschinen:

GIBEN - EUROMAC

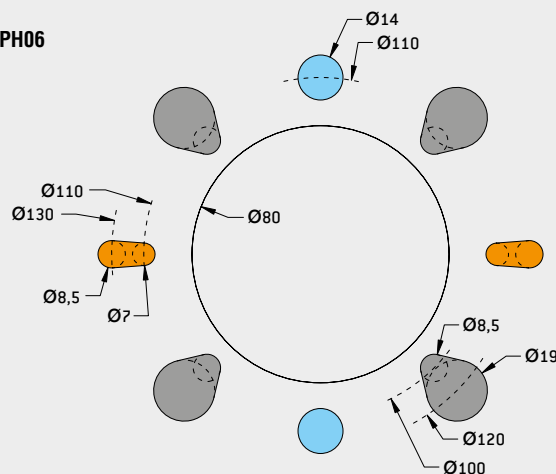
PH03



Per macchine: / For machines: / Für Maschinen:

HOLZMA

PH06



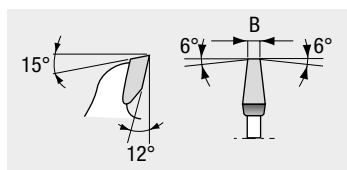
Per macchine: / For machines: / Für Maschinen:

GABBIANI - SELCO

INCISORI CONICI TCT

DIVIDING TCT CONICAL SCORING SAW BLADES

HM VORRITZSÄGEBLÄTTER FÜR PLATTENAUFTEILSÄGEN



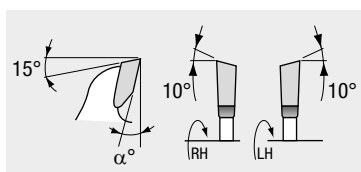
IMPIEGO: Lame utilizzabili in complemento alle lame sezionatrici per evitare scheggiature nella parte inferiore del materiale lavorato. Questo tipo di lama viene utilizzato su quelle macchine che hanno la possibilità di regolare in altezza l'albero sul quale vengono montate.

USE: These scoring blades are used together with panel sizing circular saw blades to avoid underside splintering. This type of scoring blade is used on machines with adjustable arbor.

ANWENDUNG: Vorritzsägeblatt für den Einsatz auf Plattenaufteilsägen zum Vermeiden von Kantenausbrüchen auf der Werkstück-Unterseite. Für Maschinen mit Höhenverstellung der Antriebswelle geeignet.

I07								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	TYPE	Art. Nr.		€
80	3,1 - 4,3	2,2	20	12	CON	I0708031012A		50,70
100	3,1 - 4,3	2,8	20	18	CON	I0710031018A		52,30
110	3,1 - 4,3	2,8	20	20	CON	I0711031020A		54,40
120	3,1 - 4,3	2,8	20	24	CON	I0712031024A	•	53,60
120	4,3 - 5,5	3,2	20	24	CON	I0712043024A		55,60
125	3,1 - 4,3	2,8	20	24	CON	I0712531024A		54,70
125	4,3 - 5,5	3,2	20	24	CON	I0712543024A		63,30
150	3,1 - 4,3	2,8	30	24	CON	I0715031024C		55,30
150	4,3 - 5,5	3,2	30	24	CON	I0715043024C		65,30
150	3,1 - 4,3	2,8	30	36	CON	I0715031036C		73,10
150	4,3 - 5,5	3,2	30	36	CON	I0715043036C		72,70
150	4,3 - 5,5	3,2	45	36	CON	I0715043036E		87,20
160	4,3 - 5,5	3,2	30	36	CON	I0716043036C		77,30
160	4,3 - 5,5	3,2	55	36	CON	I0716043036F		79,40
180	4,3 - 5,5	3,2	20	36	CON	I0718043036A		89,40
180	4,3 - 5,5	3,2	30	36	CON	I0718043036C		89,40
180	4,3 - 5,5	3,2	45	36	CON	I0718043036E		89,40
180	4,7-6,0	3,5	45	36	CON	I0718047036E		91,60
200	4,3 - 5,5	3,2	20	36	CON	I0720043036A		89,40
200	4,3 - 5,5	3,2	30	36	CON	I0720043036C		89,40
200	4,3 - 5,5	3,2	45	36	CON	I0720043036E		89,40
200	4,3 - 5,5	3,2	65	36	CON	I0720043036S		91,60
200	4,3 - 5,5	3,2	80	36	CON	I0720043036I		91,60
200	4,7 - 6,0	3,5	45	36	CON	I0720047036E		93,90
215	4,3 - 5,5	3,2	50	42	CON	I0721543042X		97,30
300	4,3 - 5,5	3,2	50	48	CON	I0730043048X		158,60
300	4,3 - 5,5	3,2	65	72	CON	I0730043072S		176,50

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



IMPIEGO: Lame adatte per incidere pannelli truciolari, listellari, impiallaciato o con rivestimento plastico.

USE: Circular saw blades for scoring compressed wood or double faced laminated panels.

ANWENDUNG: Geeignet für Span-, Tschler- und Furnierplatten für Kunststoff und beschichtete Platten, einteilig re/li.

I05/I06								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	α	Art. Nr.		€
150	3,2	2,2	20	24	12°	I05/0615032024A		76,80
150	3,2	2,2	30	24	12°	I05/0615032024C		76,80
150	3,2	2,2	55	24	12°	I05/0615032024F		76,80
150	3,2	2,2	20	36	10°	I05/0615032036A	•	48,10
150	3,2	2,2	30	36	10°	I05/0615032036C		48,10
150	3,2	2,2	55	36	10°	I05/0615032036F		48,10
150	3,2	2,2	55	48	8°	I05/0615032048F		58,60
150	3,2	2,2	60	48	8°	I05/0615032048G		58,60
160	3,2	2,2	20	36	10°	I05/0616032036A		48,90
160	3,2	2,2	30	36	10°	I05/0616032036C		48,90
170	3,2	2,2	20	36	10°	I05/0617032036A		50,10
170	3,2	2,2	30	36	10°	I05/0617032036C		50,10
180	3,2	2,2	40	30	12°	I05/0618032030J		44,30
180	3,2	2,2	55	30	12°	I05/0618032030F		44,30
180	3,2	2,2	60	30	12°	I05/0618032030G		44,30
180	3,2	2,2	40	42	10°	I05/0618032042J		54,40
180	3,2	2,2	55	42	10°	I05/0618032042F		54,40
180	3,2	2,2	60	42	10°	I05/0618032042G		54,40
180	3,2	2,2	40	56	8°	I05/0618032056J		67,60
180	3,2	2,2	55	56	8°	I05/0618032056F		67,60
180	3,2	2,2	60	56	8°	I05/0618032056G		67,60
200	3,2	2,2	40	34	12°	I05/0620032034J		49,30
200	3,2	2,2	55	34	12°	I05/0620032034F		49,30
200	3,2	2,2	60	34	12°	I05/0620032034G		49,30
200	3,2	2,2	40	48	10°	I05/0620032048J		59,70
200	3,2	2,2	55	48	10°	I05/0620032048F		59,70
200	3,2	2,2	60	48	10°	I05/0620032048G		59,70
200	3,2	2,2	40	64	8°	I05/0620032064J		70,00
200	3,2	2,2	55	64	8°	I05/0620032064F		70,00
200	3,2	2,2	60	64	8°	I05/0620032064G		70,00

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

I05: Rotazione destra / Right hand rotation / Rechtslauf

I06: Rotazione sinistra / Left hand rotation / Linkslauf

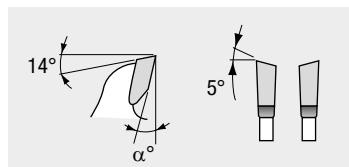




IMPIEGO: Lame utilizzabili in complemento alle lame sezionatrici per evitare scheggiature nella parte inferiore del materiale lavorato. Questo tipo di lama viene utilizzato su quelle macchine che non hanno la possibilità di regolare in altezza l'albero sul quale vengono montate.

USE: These scoring blades are used together with panel sizing circular saw blades to avoid underside splintering. This type of scoring blade is used on machines without adjustable arbor.

ANWENDUNG: Vorritzsägeblatt für den Einsatz auf Plattenaufteilsägen zum Vermeiden von Kantenausbrüchen auf der Werkstück-Unterseite. Für Maschinen ohne Höhenverstellung der Antriebswelle geeignet.

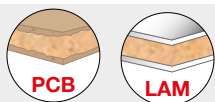


I20								
Ø D [mm]	B [mm]	Ø d [mm]	Z	TYPE	α	Art. Nr.		€ / Net
100	2,8-3,6	20	12+12	ATB	12°	I2010028024A	•	52,70
100	2,8-3,6	22	12+12	ATB	12°	I2010028024B	•	52,70
120	2,8-3,6	20	12+12	ATB	12°	I2012028024A	•	52,70
120	2,8-3,6	22	12+12	ATB	12°	I2012028024B	•	52,70
125	2,8-3,6	20	12+12	ATB	12°	I2012528024A	•	52,70
125	2,8-3,6	22	12+12	ATB	12°	I2012528024B	•	52,70

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

Quantità minima d'ordine: 10 pz per tipo / Minimum quantity order: 10 pcs/each / Mindest bestellmengen: 10 stück / pro

Metallo duro / Carbide Grade / Hartmetall: ISO K05 - HV10=1950

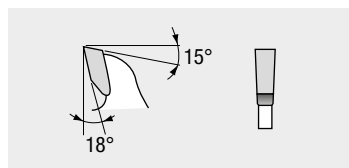


LAME TCT PER INCASTRI GROOVING TCT SAW BLADES HM NUTKREISSÄGEBLATT MECH. VORSCHUB

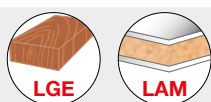
IMPIEGO: Lame adatte per l'esecuzione di incastri o per tagli longitudinali di legni teneri.

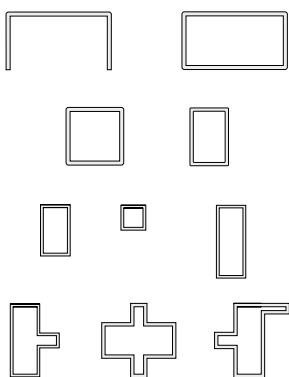
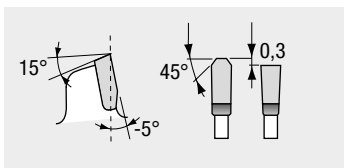
USE: Circular saw blades for longitudinal grain grooving of soft wood.

ANWENDUNG: Geeignet zum Nuten und Schlitzeln in Hölzern aller Art.



N02							
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	TYPE	Art. Nr.	€
125	2,0	1,4	30	12	FLAT	N0212520012	49,60
125	3,0	2,0	30	12	FLAT	N0212530012	49,60
125	4,0	2,8	30	12	FLAT	N0212540012	53,90
125	5,0	3,5	30	12	FLAT	N0212550012	61,70
125	6,0	3,5	30	12	FLAT	N0212560012	69,20
150	2,0	1,4	30	18	FLAT	N0215020018	56,20
150	3,0	2,0	30	18	FLAT	N0215030018	56,20
150	4,0	2,8	30	18	FLAT	N0215040018	59,30
150	5,0	3,5	30	18	FLAT	N0215050018	73,30
150	6,0	3,5	30	18	FLAT	N0215060018	83,00
150	8,0	6,0	30	18	FLAT	N0215080018	96,70
150	10,0	8,0	30	18	FLAT	N0215010018	123,00
180	4,0	2,8	30	18	FLAT	N0218040018	60,00
180	5,0	3,5	30	18	FLAT	N0218050018	79,20
180	6,0	3,5	30	18	FLAT	N0218060018	88,00
180	8,0	6,0	30	18	FLAT	N0218080018	103,70
180	10,0	8,0	30	18	FLAT	N0218010018	126,70





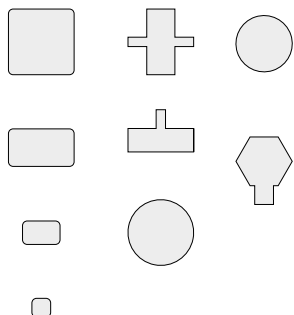
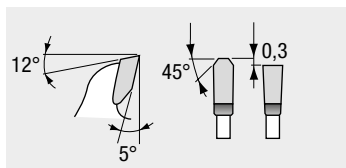
IMPIEGO: Lame adatte per il taglio di profilati in alluminio e/o metalli non ferrosi.

USE: Circular saw blades for cutting aluminium and non-ferrous profiles.

ANWENDUNG: Geeignet für Alu-Profile und NE-Metalle.

HMN									
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.		€
250	3,4	2,6	30	2/11/63	60	TCG	HMN25034HFT060S		76,50
250	3,4	2,6	32	2/11/63	60	TCG	HMN250343FT060S		76,50
250	3,4	2,6	30	2/11/63	80	TCG	HMN25034HFT080S	•	82,50
250	3,4	2,6	32	2/11/63	80	TCG	HMN250343FT080S	•	82,50
300	3,4	2,6	30	2/11/63	72	TCG	HMN30034HFT072S		88,40
300	3,4	2,6	32	2/11/63	72	TCG	HMN300343FT072S		88,40
300	3,4	2,6	30	2/11/63	96	TCG	HMN30034HFT096S	•	103,20
300	3,4	2,6	32	2/11/63	96	TCG	HMN300343FT096S	•	103,20
350	3,4	2,6	30	2/11/63	84	TCG	HMN35034HFT084S		105,20
350	3,4	2,6	32	2/11/63	84	TCG	HMN350343FT084S		105,20
350	3,4	2,6	30	2/11/63	108	TCG	HMN35034HFT108S	•	117,70
350	3,4	2,6	32	2/11/63	108	TCG	HMN350343FT108S	•	117,70
400	4,0	3,2	30	2/11/63	96	TCG	HMN40040HFT096S		135,90
400	4,0	3,2	32	2/11/63	96	TCG	HMN400403FT096S	•	135,90
400	4,0	3,2	30	2/11/63	108	TCG	HMN40040HFT108S		144,30
400	4,0	3,2	32	2/11/63	108	TCG	HMN400403FT108S		144,30
400	4,0	3,2	30	2/11/63	120	TCG	HMN40040HFT120S		156,50
400	4,0	3,2	32	2/11/63	120	TCG	HMN400403FT120S	•	156,50
450	4,0	3,2	30	2/11/63	108	TCG	HMN45040HFT108S		177,00
450	4,0	3,2	32	2/11/63	108	TCG	HMN450403FT108S	•	177,00
450	4,0	3,2	30	2/11/63	128	TCG	HMN45040HFT128S		189,50
450	4,0	3,2	32	2/11/63	128	TCG	HMN450403FT128S		189,50
500	4,6	3,6	30	2/11/63	120	TCG	HMN50046HFT120S	•	253,50
500	4,6	3,6	32	2/11/63	120	TCG	HMN500463FT120S	•	253,50
500	4,6	3,6	30	2/11/63	140	TCG	HMN50046HFT140S		288,10
550	4,6	3,6	30	2/11/63	140	TCG	HMN55046HFT140S		370,40

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar



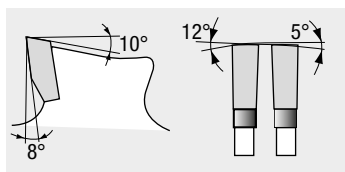
IMPIEGO: Lame per il taglio di sezioni piene in alluminio e/o altri metalli non ferrosi.

USE: Circular saw blades for cutting full sections in aluminium or non-ferrous solid materials.

ANWENDUNG: Geeignet für NE-Metalle, Vollmaterial.

HMP								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	PH	Z	TYPE	Art. Nr.	€
250	3,4	2,6	30,00	2/11/63	60	TCG	HMP25034HFT060S	76,50
250	3,4	2,6	32,00	2/11/63	60	TCG	HMP250343FT060S	76,50
250	3,4	2,6	30,00	2/11/63	80	TCG	HMP25034HFT080S	82,50
250	3,4	2,6	32,00	2/11/63	80	TCG	HMP250343FT080S	82,50
300	3,4	2,6	30,00	2/11/63	72	TCG	HMP30034HFT072S	88,40
300	3,4	2,6	32,00	2/11/63	72	TCG	HMP300343FT072S	88,40
300	3,4	2,6	30,00	2/11/63	96	TCG	HMP30034HFT096S	103,20
300	3,4	2,6	32,00	2/11/63	96	TCG	HMP300343FT096S	103,20
350	3,4	2,6	30,00	2/11/63	84	TCG	HMP35034HFT084S	105,20
350	3,4	2,6	32,00	2/11/63	84	TCG	HMP350343FT084S	105,20
350	3,4	2,6	30,00	2/11/63	108	TCG	HMP35034HFT108S	117,70
350	3,4	2,6	32,00	2/11/63	108	TCG	HMP350343FT108S	117,70
400	4,0	3,2	30,00	2/11/63	96	TCG	HMP40040HFT096S	135,90
400	4,0	3,2	32,00	2/11/63	96	TCG	HMP400403FT096S	135,90
400	4,0	3,2	30,00	2/11/63	108	TCG	HMP40040HFT108S	144,30
400	4,0	3,2	32,00	2/11/63	108	TCG	HMP400403FT108S	144,30
400	4,0	3,2	30,00	2/11/63	120	TCG	HMP40040HFT120S	156,50
400	4,0	3,2	32,00	2/11/63	120	TCG	HMP400403FT120S	156,50
450	4,0	3,2	30,00	2/11/63	108	TCG	HMP45040HFT108S	177,00
450	4,0	3,2	32,00	2/11/63	108	TCG	HMP450403FT108S	177,00
450	4,0	3,2	30,00	2/11/63	128	TCG	HMP45040HFT128S	189,50
450	4,0	3,2	32,00	2/11/63	128	TCG	HMP450403FT128S	189,50
500	4,6	3,6	30,00	2/11/63	120	TCG	HMP50046HFT120S	253,50
500	4,6	3,6	32,00	2/11/63	120	TCG	HMP500463FT120S	253,50
500	4,6	3,6	30,00	2/11/63	140	TCG	HMP50046HFT140S	288,10
550	4,6	3,6	30,00	2/11/63	120	TCG	HMP55046HFT120S	338,00
550	4,6	3,6	30,00	2/11/63	140	TCG	HMP55046HFT140S	370,40

LAME TCT DRY-CUT TCT DRY-CUT SAW BLADES HM SPEZIAL-KREISSÄGEBLÄTTER FÜR DRY CUTTER



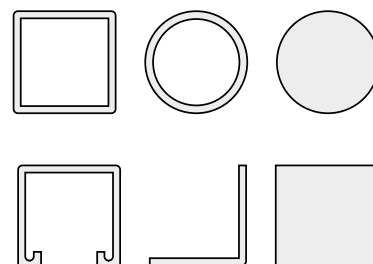
IMPIEGO: Lame per il taglio a secco di acciaio e metalli ferrosi. Non indicate per il taglio di acciaio inox.

USE: Circular saw blades for dry cutting steel and other ferrous materials. Not suitable for cutting stainless steel.

ANWENDUNG: Geeignet zum Schneiden von Stahl und weichem Eisen auf DRY -CUTTER Maschinen.
Nicht geeignet zum Schneiden von Edelstahl.

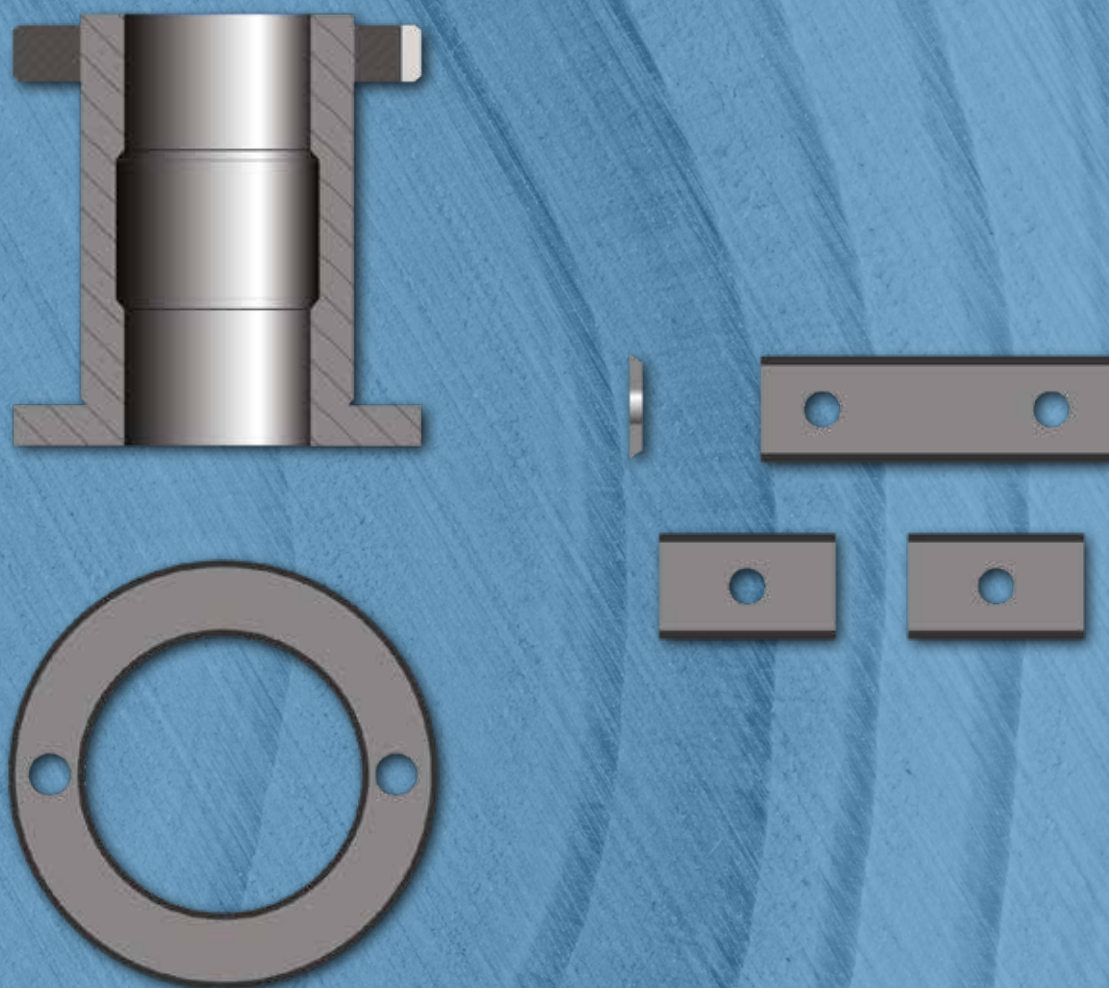
HMD								
Ø D [mm]	B [mm]	b [mm]	Ø d [mm]	Z	TYPE	Art. Nr.		€
150	2,20	1,60	20	26	WWF	HMD15022EAE026S		40,60
160	2,20	1,60	20	28	WWF	HMD16022EAE028S		40,60
180	2,20	1,60	30	32	WWF	HMD18022HAE032S		42,60
190	2,20	1,60	30	32	WWF	HMD19022HAE032S		42,60
200	2,20	1,60	30	34	WWF	HMD20022HAE034S		46,50
216	2,20	1,60	30	36	WWF	HMD21622HAE036S		46,50
230	2,20	1,80	30	44	WWF	HMD23022HAE044S	•	50,10
270	2,40	1,80	30	60	WWF	HMD27024HAE060S		88,90
300	2,40	1,80	30	60	WWF	HMD30024HAE060S		92,40
300	2,40	1,80	30	80	WWF	HMD30024HAE080S		106,20
305	2,20	1,80	25,4	60	WWF	HMD30522GAE060S	•	89,10
305	2,20	1,80	25,4	80	WWF	HMD30522GAE080S	•	100,10
350	2,50	2,00	30	70	WWF	HMD35025HAE070S		108,60
355	2,40	2,00	25,4	72	WWF	HMD35524GAE072S	•	104,50
355	2,40	2,00	25,4	90	WWF	HMD35524GAE090S	•	116,60

• Disponibile a magazzino / Ready from stock / Ab Lager lieferbar

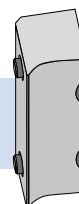
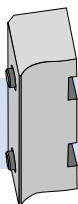




YOUR STORIES, OUR BLADES

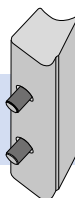


RICAMBI
SPARE PARTS
ERSATZTEILE



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
302504	9	2		13,90
302602	10	2	•	13,90
302801	7	2	•	6,60
303005	78	2	•	35,00
303009	58	2	•	31,70
303018	57	2	•	30,80
303039	17	2		26,30
303040	17	2		26,30
340002	11	2	•	23,70
340006	15	2	•	20,20
340011	48	2	•	26,30
340013	16	2	•	20,20
340014	54	2	•	26,30
340016	39	2	•	23,30
340018	23	2	•	22,90
340019	23	2	•	22,90
340020	27	2	•	23,30
340024	17	2	•	20,20
340025	22	2	•	23,30
340029	41	2	•	26,30
340030	42	2	•	26,30
340032	42	2	•	26,30
340041	58	2	•	26,30
341002	11	2	•	20,80
350004	11	2	•	13,00
350005	16	2	•	13,00
350007	26	2	•	14,50
350008	36	2	•	16,60

Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
350009	46	2	•	16,60
350010	54	2	•	16,60
350017	14	2		13,00
350018	94	2	•	16,60
350020	27	2	•	16,60
350021	6,8	2	•	16,60
350022	7,6	2	•	13,00
350023	9	2	•	13,00
350024	17,6	2	•	19,20
350025	17,6	2	•	19,20
350026	22,6	2	•	19,20
350028	27	2	•	19,20
350030	27	2	•	19,20
350034	46	2	•	15,70
350045	23	2	•	15,70
350051	26	2	•	15,70
350053	16	2	•	13,00
350054	26	2	•	15,70
350055	16	2	•	13,00
350056	55	2	•	16,60
350060	36	2	•	16,60
350063	26	2	•	16,60
350064	11	2	•	14,50
350065	11	2	•	14,50
350074	31	2	•	16,60
350075	31	2	•	16,60
350082	16,5	2		15,70
350086	13	2	•	15,70
350088	40	2	•	16,60



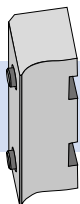
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
371001	78	2	•	18,70
371002	98	2		20,00
371003	118	2		22,30
371004	128	2	•	22,30
371005	138	2		26,50
371006	148	2		26,50
371007	168	2		28,50
371008	178	2		28,50

Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
371009	188	2	•	30,00
371011	228	2	•	31,20
371012	238	2		31,20
371013	218	2		31,20
371014	153	2		26,50
371015	248	2		32,60

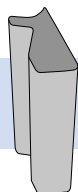


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
311003	40	2	15,80
311004	50	2	17,20
311005	60	2	17,20
311007	80	2	18,70
311009	100	2	20,00
311011	120	2	22,30
311012	130	2	22,30
311014	140	2	26,50
311015	160	2	26,50

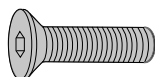
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
311016	170	2	28,50
311017	180	2	28,50
311018	190	2	30,00
311020	200	2	30,00
311022	230	2	31,20
311023	240	2	31,20
311024	250	2	32,60
311025	260	2	32,60
311030	310	2	38,50



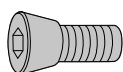
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
308801	28 x 15 x 8	2	19,90
307501	38 x 12 x 6	2	19,90



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz./pc./St.	€/pcs.
312001	60	2	20,00
312002	80	2	22,00
312003	100	2	24,00
312004	130	2	27,20
312005	150	2	30,40
312006	180	2	37,40
312007	200	2	43,00
312008	230	2	45,00
313001	40	2	18,50
313002	60	2	20,00
313003	80	2	22,00
313004	100	2	24,00
313005	130	2	27,20
313006	150	2	30,40
313008	180	2	37,40
313009	200	2	43,00
313010	230	2	45,00



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		3,10€/pcs.
501203	M5 x 10	10	•	4,20
500201	M6 x 12	10	•	3,10
500202	M6 x 16	10	•	3,10
500203	M6 x 19	10	•	3,10
500205	M6 x 15	10	•	4,80
500206	M6 x 19	10	•	4,80
500207	M6 x 21	10		4,80
500208	M6 x 17	10	•	4,80
500209	M6 x 15	10	•	4,80
500210	M6 x 10	10	•	4,80
500211	M6 x 14,5	10	•	4,80
500215	M5 x 7	10	•	4,80
500216	M5 x 13	10	•	5,00
500602	M4 x 8	10	•	5,00
500603	M4 x 12	10	•	2,80
500604	M5 x 10	10	•	2,80
500605	M6 x 16	10	•	3,10
500607	M5 x 16	10	•	3,10
500609	M4 x 10	10	•	3,10
500701	M8 x 20	10	•	3,10



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
502401	M7 x 26	10	•	5,30
502402	M7 x 21	10	•	6,20
502403	M5 x 18	10	•	4,00
502404	M7 x 19	10	•	6,20
502405	M7 x 17	10	•	6,20



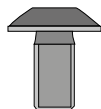
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
501701	M5 x 10	10	•	2,80
502901	M8 x 25	10	•	1,50
508801	M8 x 10	10		1,50
501305	M10 x 20	10	•	1,50
501308	M8 x 16	10	•	1,50
501309	M10 x 25	10	•	1,50
501310	M10 x 8	10	•	1,50
501311	M10 x 10	10	•	1,50
501313	M4 x 16	10	•	1,50
501315	M6 x 25	10	•	1,50
501316	M6 x 20	10	•	1,50
501317	M8 x 8	10	•	1,50
501318	M8 x 14	10	•	1,50
501320	M10 x 16	10	•	1,50
501321	M4 x 14	10	•	1,50
501503	M4 x 25	10	•	1,50
501505	M3 x 16	10	•	1,50



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
501401	M6 x 12	10	•	2,00
501402	M6 x 10	10	•	2,00
501403	M8 x 16	10	•	2,00
501404	M8 x 20	10	•	2,00
501405	M10 x 16	10	•	2,00
501406	M6 x 16	10	•	2,00
501409	M10 x 20	10	•	2,00
501410	M8 x 25	10	•	2,00
501411	M12 x 20	10	•	2,00
501414	M6 x 8	10	•	2,00
501416	M10 x 25	10	•	2,00
501420	M10 x 20	10		2,50
501430	M10 x 20	10		2,50
507501	M6 x 8	10		2,00



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
500001	M5 x 10	10	•	2,20
500002	M5 x 7	10	•	2,20
500003	M5 x 14	10	•	7,00
500004	M5 x 5,1	10	•	7,00
500005	M5 x 10	10	•	7,00
500401	M4 x 3,2	10	•	3,50
500402	M4 x 4	10	•	3,50
507702	M5 x 7	10		2,50
507902	M5 x 6,5	10		5,20
508102	M5 x 6,5	10		5,20
507901	M5 x 12,5	10		5,20
508001	M5 x 12,5	10		5,20
508002	M4 x 8,3	10		5,20
508101	M5 x 12,5	10		5,20

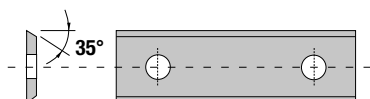


Art. nr.	Dim. / Dim. / Abm. [mm]	Diametro Diameter Durchmesser	Nr. pz.		€/pcs.
502301	M4 x 6	Ø 7,6	10	•	4,00
502302	M4 x 10	Ø 7,6	10	•	4,00
502303	M4 x 12	Ø 7,6	10	•	4,00
502305	M4 x 8	Ø 9	10	•	4,00
502306	M4 x 6	Ø 9	10	•	4,00
502307	M4 x 6	Ø 7	10	•	4,80
502310	M3,5 x 4,8	Ø 6	10	•	4,80
507101	M3,5 x 4	Ø 9	10		5,20
507701	M4 x 8	Ø 9	10		5,20
507801	M5 x 10,2	Ø 10,5	10		5,20
508201	M3,5 x 6,5	Ø 6	10		5,80
508202	M3,5 x 6,2	Ø 9	10		5,20
508401	M4 x 8,3	Ø 9	10		5,20
508802	M3,5 x 10	Ø 7,5	10		5,20
508803	M4 x 8,3	Ø 7,5	10		5,20
509501	M8 x 16	-	10		5,50

COLTELLINI DIRITTI REVERSIBILI HM

HM REVERSIBLE STRAIGHT KNIVES

HW WENDEPLATTEN STANDARD



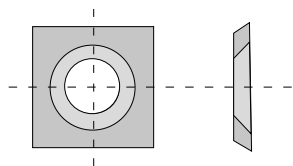
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600001	7,65 x 12 x 1,5	10	•	1,60
600002	12 x 12 x 1,5	10	•	1,80
600003	15 x 12 x 1,5	10	•	2,10
600004	20 x 12 x 1,5	10	•	2,20
600005	30 x 12 x 1,5	10	•	3,10
600006	50 x 12 x 1,5	10	•	4,00
600007	60 x 12 x 1,5	10	•	4,90
600008	80 x 13 x 2,2	10	•	42,60
600009	100 x 13 x 2,2	10	•	48,20
600010	120 x 13 x 2,2	10	•	54,90
600011	40 x 12 x 1,5	10	•	3,90
600012	9,6 x 12 x 1,5	10	•	5,00
600013	11,6 x 12 x 1,5	10	•	5,10
607101	29,5 x 12 x 1,5	10		6,30
607102	50 x 12 x 1,7	10		10,60
608201	29 x 12 x 1,5	10		11,70
608202	29 x 12 x 1,5	10		11,70
608203	49 x 12 x 1,5	10		13,30
608204	49 x 12 x 1,5	10		13,30

COLTELLI SAGOMATI HM

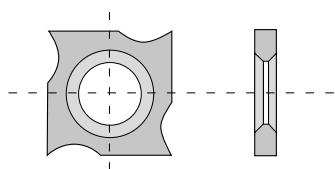
HM PROFILED KNIVES

HW PROFILMESSERN

	Art. nr.	Dim. / Dim. / Abm. [mm]	Raggio / Radius / Ray [mm]	Nr. pz.		€/pcs.
	601801	20 x 29 x 2	R 3	10	•	39,60
	601803	20 x 29 x 2	R 4	10	•	39,60
	601805	20 x 29 x 2	R 5	10	•	39,60
	601807	20 x 29 x 2	R 6	10	•	39,60
	601809	20 x 29 x 2	R 8	10	•	39,60
	601811	20 x 29 x 2	R 10	10	•	39,60
	601802	20 x 29 x 2	R 3	10	•	39,60
	601804	20 x 29 x 2	R 4	10	•	39,60
	601806	20 x 29 x 2	R 5	10	•	39,60
	601808	20 x 29 x 2	R 6	10	•	39,60
	601810	20 x 29 x 2	R 8	10	•	39,60
	601812	20 x 29 x 2	R 10	10	•	39,60
	601815	20 x 29 x 2	$\alpha = 45^\circ$	10	•	39,60
	601816	20 x 29 x 2	$\alpha = 45^\circ$	10	•	39,60

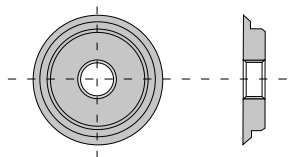


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600201	14 x 14 x 2	10	•	1,60
600202	14 x 14 x 1,2	10	•	2,30
600204	14 x 14 x 1,7	10	•	3,60
600205	22 x 19 x 2	10	•	4,50
600207	15 x 15 x 2,5	10	•	4,90
600208	17,14 x 17,14 x 2	10	•	23,30
600209	17,14 x 17,14 x 2	10	•	23,30
607801	14,3 x 14,3 x 2,8	10		12,30

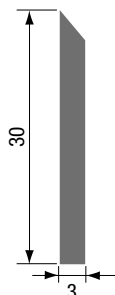


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600301	18 x 18 x 1,95	10	•	6,70
600302	18 x 18 x 2,45	10	•	7,40
600303	18 x 18 x 2,95	10	•	11,70

GHIERE FILETTATE THREADED RING MUTTERN



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
501001	10 x 1,65	10	•	3,50
501002	10 x 2,1	10	•	4,70
501101	12 x 1,7	10	•	3,50
501102	12 x 2,2	10	•	4,70

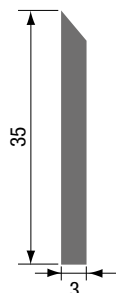


Altezza del coltello
Knife height
Messerhöhe:

30 mm

CT010SS HSS				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CT010SS01	60	2	•	2,00
CT010SS02	80	2	•	2,70
CT010SS03	100	2	•	3,30
CT010SS04	120	2	•	4,00
CT010SS05	130	2	•	4,30
CT010SS06	140	2		4,60
CT010SS07	150	2	•	5,00
CT010SS08	160	2		5,30
CT010SS09	170	2		5,60
CT010SS10	180	2	•	6,00
CT010SS11	190	2	•	6,30
CT010SS12	200	2		6,60
CT010SS30	210	2		6,90
CT010SS13	230	2	•	7,60
CT010SS31	240	2		7,90
CT010SS14	250	2		8,30
CT010SS35	260	2		8,60
CT010SS15	300	2	•	9,90
CT010SS37	310	2		10,20
CT010SS16	350	2	•	11,50
CT010SS17	400	2		13,20
CT010SS18	410	2		13,50
CT010SS19	500	2		16,50
CT010SS20	510	2	•	16,80
CT010SS21	520	2	•	17,10
CT010SS22	530	2		17,50
CT010SS23	600	2		19,80
CT010SS24	610	2	•	20,10
CT010SS25	630	2		20,70
CT010SS26	640	2		21,10
CT010SS27	710	2		23,40
CT010SS28	810	2		26,70
CT010SS29	1050	2		34,60
CT010SS39	1080	2	•	35,50

CT040M HM				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CT040M01	60	2		14,00
CT040M02	80	2		18,70
CT040M03	100	2		23,40
CT040M04	120	2		28,00
CT040M05	130	2		30,30
CT040M06	140	2		32,70
CT040M07	150	2		35,00
CT040M08	160	2		37,30
CT040M09	170	2		39,70
CT040M10	180	2		42,00
CT040M11	190	2		44,30
CT040M12	200	2		46,70
CT040M30	210	2		49,00
CT040M13	230	2		53,70
CT040M31	240	2		56,00
CT040M14	250	2		58,30
CT040M35	260	2		60,60
CT040M15	300	2		70,00
CT040M37	310	2		72,30
CT040M16	350	2		81,60
CT040M17	400	2		93,30
CT040M18	410	2		95,60
CT040M19	500	2		116,60
CT040M20	510	2		118,90
CT040M21	520	2		121,20
CT040M22	530	2		123,60
CT040M23	600	2		139,90
CT040M24	610	2		142,20
CT040M25	630	2		146,90
CT040M26	640	2		149,20
CT040M27	710	2		165,50
CT040M28	810	2		188,80
CT040M29	1010	2		235,40
CT040M39	1050	2		244,80

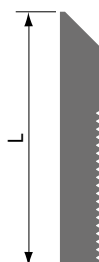


Altezza del coltello
Knife height
Messerhöhe:

35 mm

CP010SS HSS				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CP010SS01	150	2		5,60
CP010SS02	160	2		6,00
CP010SS03	180	2		6,70
CP010SS04	200	2		7,50
CP010SS05	210	2		7,80
CP010SS06	230	2		8,60
CP010SS29	240	2		8,90
CP010SS07	250	2		9,30
CP010SS08	260	2		9,70
CP010SS09	300	2		11,20
CP010SS10	310	2		11,50
CP010SS11	350	2		13,00
CP010SS12	400	2	•	14,90
CP010SS13	410	2	•	15,20
CP010SS14	450	2		16,70
CP010SS15	460	2		17,10
CP010SS16	500	2	•	18,60
CP010SS17	510	2	•	18,90
CP010SS18	520	2	•	19,30
CP010SS19	530	2	•	19,70
CP010SS20	550	2		20,40
CP010SS21	600	2		22,30
CP010SS22	610	2		22,60
CP010SS23	630	2	•	23,40
CP010SS24	640	2		23,70
CP010SS25	680	2		25,20
CP010SS26	710	2		26,30
CP010SS27	810	2		30,00
CP010SS28	1050	2		38,90
CP010SS38	1080	2	•	40,00

CP040M HM				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CP040M01	150	2		35,00
CP040M02	160	2		37,30
CP040M03	180	2		42,00
CP040M04	200	2		46,70
CP040M05	210	2		49,00
CP040M06	230	2		53,70
CP040M29	240	2		56,00
CP040M07	250	2		58,30
CP040M08	260	2		60,60
CP040M09	300	2		70,00
CP040M10	310	2		72,30
CP040M11	350	2		81,60
CP040M12	400	2		93,30
CP040M13	410	2		95,60
CP040M14	450	2		104,90
CP040M15	460	2		107,30
CP040M16	500	2		116,60
CP040M17	510	2		118,90
CP040M18	520	2		121,20
CP040M19	530	2		123,60
CP040M20	550	2		128,20
CP040M21	600	2		139,90
CP040M22	610	2		142,20
CP040M23	630	2		146,90
CP040M24	640	2		149,20
CP040M25	680	2		158,50
CP040M26	710	2		165,50
CP040M27	810	2		188,80
CP040M28	1010	2		235,40
CP040M38	1050	2		244,80



Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CT050S01	50	20		5,90
CT050S02	50	20		7,40
CT050S03	50	20		8,90
CT050S04	50	20		11,80
CT050S05	50	20		14,70
CT050S06	50	20		19,20
CT050S07	50	20		22,10
CT050S08	50	20		26,50
CT050S09	50	20		33,90
CT050S10	50	20		58,80
CT050S11	50	-	•	95,50
CT050S12	60	20		6,80
CT050S13	60	20		8,40
CT050S14	60	20		10,10
CT050S15	60	20		13,50
CT050S16	60	20		16,80
CT050S17	60	20		21,90
CT050S18	60	20		25,20
CT050S19	60	20		30,30
CT050S20	60	20		38,70
CT050S21	60	20		67,10
CT050S22	60	-	•	109,00
CT050S23	70	20		7,80
CT050S24	70	20		9,70
CT050S25	70	20		11,70
CT050S26	70	20		15,50
CT050S27	70	20		19,40
CT050S28	70	20		25,10
CT050S29	70	20		29,00
CT050S30	70	20		34,80
CT050S31	70	20		44,50
CT050S32	70	20		50,20
CT050S33	70	20		77,20
CT050S34	70	-	•	125,40

COLTELLI PIALLA "PLANEX"
"PLANEX" PLANING KNIVES
"PLANEX" HOBELMESSER



HSS M42				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CT080S21	60	20	•	6,10
CT080S01	80	20	•	8,10
CT080S02	100	20	•	10,30
CT080S03	120	20	•	12,20
CT080S04	130	20	•	13,20
CT080S05	140	20	•	14,20
CT080S06	150	20	•	15,20
CT080S14	160	20	•	16,20
CT080S07	170	20	•	17,20
CT080S08	180	20	•	18,30
CT080S09	190	20	•	19,30
CT080S22	210	20	•	21,30
CT080S10	220	20	•	22,30
CT080S11	230	20	•	23,30
CT080S12	240	20	•	24,30
CT080S15	250	20	•	25,30

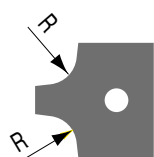
HM (su richiesta / on request / auf Anfrage)				
Art. Nr.	L [mm]	Nr. pz.		€/pcs.
CT080M21	60	20	•	31,80
CT080M01	80	20	•	42,30
CT080M02	100	20	•	52,90
CT080M03	120	20	•	63,50
CT080M04	130	20	•	68,80
CT080M05	140	20	•	74,10
CT080M06	150	20	•	79,40
CT080M14	160	20	•	84,70
CT080M07	170	20	•	90,00
CT080M08	180	20	•	95,30
CT080M09	190	20	•	100,50
CT080M22	210	20	•	111,10
CT080M10	220	20	•	116,40
CT080M11	230	20	•	121,70
CT080M12	240	20	•	127,00
CT080M15	250	20	•	132,30



Per / For / Für YS118AZM (pagina / page / seite 22)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
608001	R 2	20 x 21 x 2	2	•	22,50
608003	R 3	20 x 21 x 2	2	•	22,50
608005	R 4	20 x 21 x 2	2	•	22,50
608007	R 5	20 x 21 x 2	2	•	22,50
608009	R 6	20 x 21 x 2	2	•	22,50

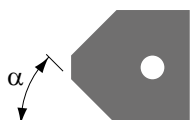


Per / For / Für YS118AZM (pagina / page / seite 22)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
608002	R 2	20 x 21 x 2	2	•	22,50
608004	R 3	20 x 21 x 2	2	•	22,50
608006	R 4	20 x 21 x 2	2	•	22,50
608008	R 5	20 x 21 x 2	2	•	22,50
608010	R 6	20 x 21 x 2	2	•	22,50



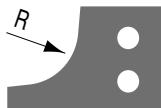
Per / For / Für YS118AZM (pagina / page / seite 22)				
Art. nr.	Raggio / Radius / Ray [mm]	Nr. pz.		€/pcs.
608012	R 2	2		22,50
608013	R 3	2		22,50
608014	R 4	2		22,50
608015	R 5	2		22,50
608016	R 6	2		22,50

Per / For / Für TH34FM (pagina / page / seite 93)				
Art. nr.	Raggio / Radius / Ray [mm]	Nr. pz./pc./St.		€/pcs.
602017	R 2	2	•	24,80
602019	R 3	2	•	24,80
602021	R 4	2	•	24,80
602023	R 5	2	•	24,80
602025	R 6	2	•	24,80

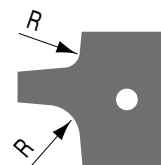


Per / For / Für YS118AZM (pagina / page / seite 22)				
Art. nr.	α	Nr. pz.		€/pcs.
608011	45°	2		22,50

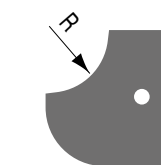
Per / For / Für TH34FM (pagina / page / seite 93)				
Art. nr.	α	Nr. pz.		€/pcs.
602026	45°	2	•	24,80



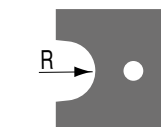
Per / For / Für TH70TM (pagina / page / seite 23)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601451	R 3	20 x 24 x 2	2	•	27,90
601452	R 4	20 x 24 x 2	2	•	27,90
601453	R 5	20 x 24 x 2	2	•	27,90
601454	R 6	20 x 24 x 2	2	•	27,90
601455	R 8	20 x 24 x 2	2	•	27,90
601456	R 10	20 x 24 x 2	2	•	27,90
601457	R 12	30 x 34 x 2	2	•	39,70
601458	R 15	30 x 34 x 2	2	•	39,70
601459	R 18	30 x 34 x 2	2		39,70
601460	R 20	30 x 34 x 2	2	•	39,70



Per / For / Für YS107BZM - GS107BZM (pagina / page / seite 24 - 150)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601409	R 5 / R 10	25 x 24,8 x 2	2	•	27,90
601410	R 4 / R 8	25 x 24,8 x 2	2	•	27,90
601411	R 3 / R 6	25 x 24,8 x 2	2	•	27,90



Per / For / Für YS108BZM (pagina / page / seite 25)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601412	R 15 / R 20	45 x 34,5 x 2	2	•	39,70
601413	R 12 / R 18	45 x 34,5 x 2	2	•	39,70



Per / For / Für YS105BZM (pagina / page / seite 26)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601414	R 4	24,8 x 23 x 2	2		27,90
601415	R 6	24,8 x 23,5 x 2	2	•	27,90
601416	R 8	24,8 x 23,5 x 2	22	•	27,90

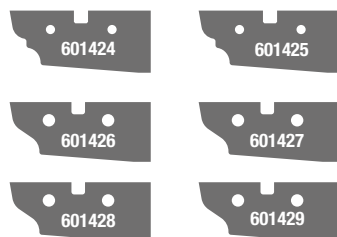


Per / For / Für YS104BZM (pagina / page / seite 27)					
Art. nr.	Raggio / Radius / Ray [mm]	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601408	R 10	30 x 26,5 x 2	2		28,80
601406	R 8	30 x 26,5 x 2	2		28,80
601407	R 9	30 x 26,5 x 2	2		28,80

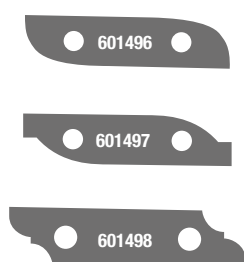


Per / For / Für TH48TM (pagina / page / seite 28)					
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.			€/pcs.
601480	60 x 17 x 2	2	•		38,70
601481	60 x 15,4 x 2	2	•		38,70
601490	60 x 17 x 2	2	•		38,70
601491	60 x 15,4 x 2	2	•		38,70

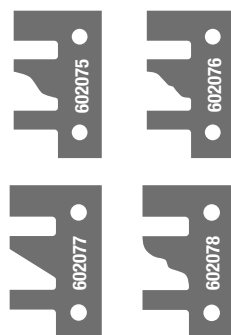
Per / For / Für TH48TM (pagina / page / seite 28)					
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.			€/pcs.
601482	19,3 x 27,5 x 2	2	•		33,80
601483	19,3 x 27,5 x 2	2	•		33,80
601484	19,3 x 27,5 x 2	2	•		33,80
601485	19,3 x 27,5 x 2	2	•		33,80
601492	19,3 x 27,5 x 2	2	•		33,80
601493	19,3 x 27,5 x 2	2	•		33,80
601494	19,3 x 27,5 x 2	2	•		33,80
601495	19,3 x 27,5 x 2	2	•		33,80



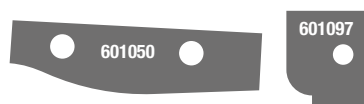
Per / For / Für YS149AZM (pagina / page / seite 31)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601424	52 x 25 x 2	2	•	42,80
601425	52 x 25 x 2	2	•	42,80
601426	52 x 25 x 2	2	•	42,80
601427	52 x 25 x 2	2		42,80
601428	52 x 25 x 2	2	•	42,80
601429	52 x 25 x 2	2	•	42,80



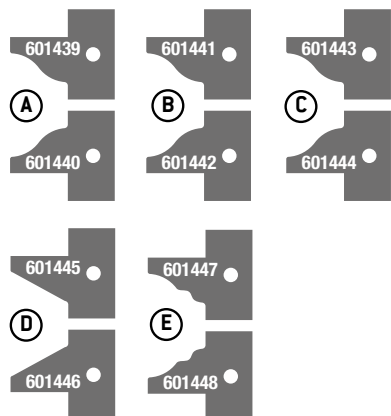
Per / For / Für YS119AZM (pagina / page / seite 33)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601496	50 x 12,5	2	•	24,80
601497	50 x 12,5	2	•	24,80
601498	50 x 12,5	2	•	24,80



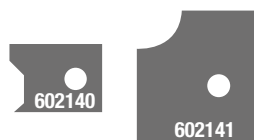
Per / For / Für YS101AZM - YS101BZM - YH102AAM (pagina / page / seite 34 - 36)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
602075	40 x 25 x 2	2	•	38,70
602076	40 x 25 x 2	2	•	38,70
602077	40 x 25 x 2	2	•	38,70
602078	40 x 25 x 2	2	•	38,70



Per / For / Für YS101AZM - YS101BZM (pagina / page / seite 34)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601050	60 x 12 x 1,5	2	•	18,90
601097	20 x 12 x 1,5	2	•	20,50



Per / For / Für YS112AZM - YS112BZM - GS112AZM (pagina / page / seite 37 - 151)					
Art. nr.	Type	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601439	A	25 x 29,8 x 2	2	•	35,80
601440		25 x 29,8 x 2	2	•	35,80
601441	B	25 x 29,8 x 2	2	•	35,80
601442		25 x 29,8 x 2	2	•	35,80
601443	C	25 x 29,8 x 2	2	•	35,80
601444		25 x 29,8 x 2	2	•	35,80
601445	D	25 x 29,8 x 2	2	•	35,80
601446		25 x 29,8 x 2	2	•	35,80
601447	E	25 x 29,8 x 2	2	•	35,80
601448		25 x 29,8 x 2	2	•	35,80



Per / For / Für TH20TM60 (pagina / page / seite 40)			
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
602140	9,6 x 14,5 x 2	2	23,90
602141	24,8 x 21 x 2	2	31,80



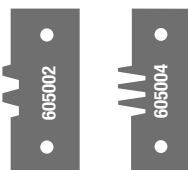
Per / For / Für YS113AZM (pagina / page / seite 43)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601435	19,8 x 22 x 2	2	•	27,00
601436	19,8 x 22 x 2	2	•	27,00
601437	19,8 x 22 x 2	2		27,00
601438	19,8 x 22 x 2	2		27,00



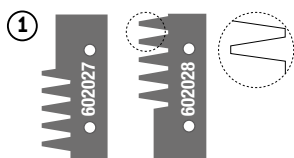
Per / For / Für YH133AAM - YH133BAM (pagina / page / seite 45)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601401	43 x 23 x 2	2	•	43,70



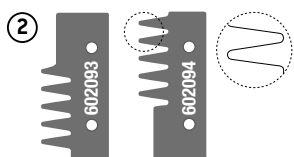
Per / For / Für TH24TM01 (pagina / page / seite 46)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
602082	50 x 25 x 2	2	•	51,70



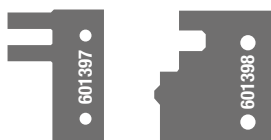
Per / For / Für YH152AAM - YH156AAM - GH152AAM - GH156AAM (pagina / page / seite 47 -152)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
605002	50 x 19 x 2	2	•	35,80
605004	60 x 24 x 2	3	•	41,70



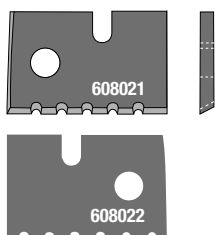
Per / For / Für SH95TM (pagina / page / seite 48)				
Art. nr.	Type	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
602027	1	50 x 22,5 x 2	2	• 61,60
602028	1	50 x 22,5 x 2	2	• 61,60
602093	2	50 x 22,5 x 2	2	• 61,60
602094	2	50 x 22,5 x 2	2	• 61,60



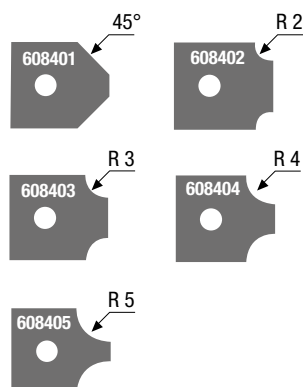
Per / For / Für SH04TM (pagina / page / seite 49)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601464	16 x 24,5 x 2	2	•	26,10
601465	20 x 22 x 2	2	•	27,00



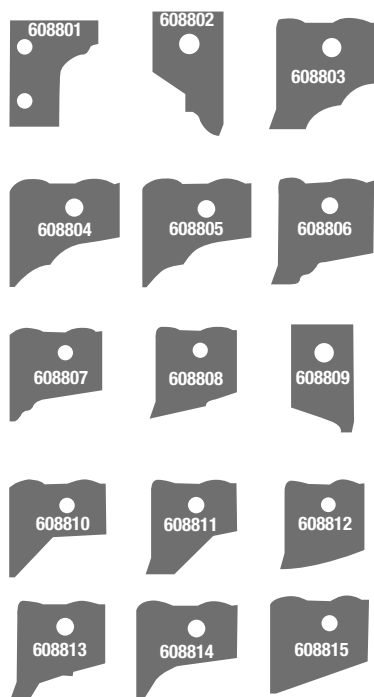
Per / For / Für SH17TM50 (pagina / page / seite 50)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
601397	45 x 29 x 2	2	•	51,70
601398	35 x 27,4 x 2	2	•	47,70



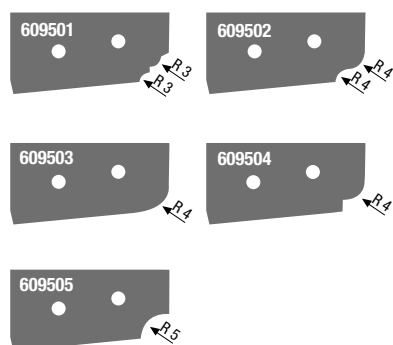
Per / For / Für PH80FM (pagina / page / seite 141)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
608021	25 x 16 x 2	2		37,90
608022	25 x 16 x 2	2		37,90



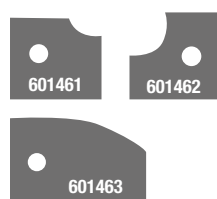
Per / For / Für PH80FM01 (pagina / page / seite 141)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Raggio / Radius / Ray [mm]	Nr. pz.	€/pcs.
608401	16 x 18,5 x 2	$\alpha = 45^\circ$	2	19,90
608402	16 x 18,5 x 2	R 2	2	19,90
608403	16 x 18,5 x 2	R 3	2	19,90
608404	16 x 18,5 x 2	R 4	2	19,90
608405	16 x 18,5 x 2	R 5	2	19,90



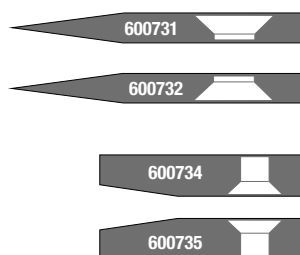
Per / For / Für PH88FM (pagina / page / seite 144-148)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Type	Nr. pz.	€/pcs.
608801	30 x 25 x 2	①	2	33,40
608802	15 x 25 x 2	②	2	21,70
608803	25 x 25 x 2	③	2	34,40
608804	25 x 25 x 2	③	2	34,40
608805	25 x 25 x 2	③	2	34,40
608806	25 x 25 x 2	③	2	34,40
608807	25 x 25 x 2	③	2	34,40
608808	25 x 25 x 2	③	2	34,40
608809	15 x 25 x 2	②	2	21,70
608810	25 x 25 x 2	③	2	34,40
608811	25 x 25 x 2	③	2	34,40
608812	25 x 25 x 2	③	2	34,40
608813	25 x 25 x 2	③	2	34,40
608814	25 x 25 x 2	③	2	34,40
608815	25 x 25 x 2	③	2	34,40



Per / For / Für PH95FM01 (pagina / page / seite 149)				
Art. nr.	Dim. / Dim. / Abm. [mm]	Raggio / Radius / Ray [mm]	Nr. pz.	€/pcs.
609501	65 x 25 x 2	R3	2	69,90
609502	65 x 25 x 2	R4	2	69,90
609503	65 x 25 x 2	R4	2	69,90
609504	65 x 25 x 2	R4	2	69,90
609505	65 x 25 x 2	R5	2	69,90

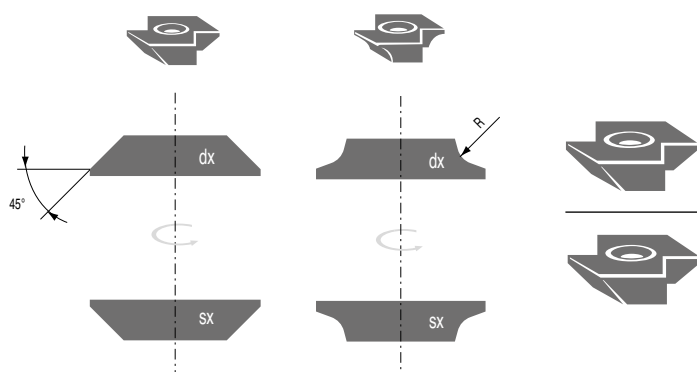


Per / For / Für TH20FM (pagina / page / seite 95)			
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.	€/pcs.
601461	19,8 x 22 x 2	2	33,20
601462	19,8 x 22 x 2	2	33,20
601463	19,8 x 34 x 2	2	42,60



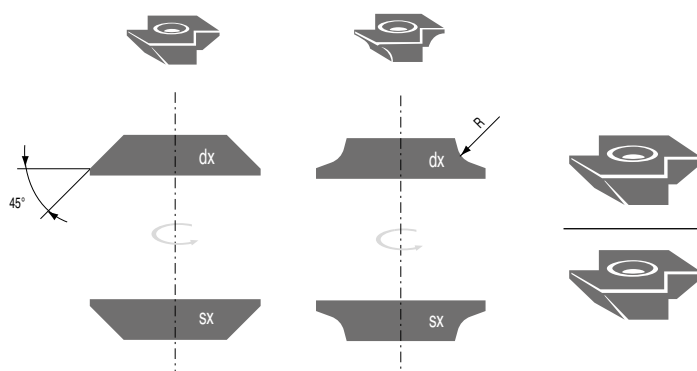
Per / For / Für TG25FM (pagina / page / seite 88)			
Art. nr.	Dim. / Dim. / Abm. [mm]		€/pcs.
600731	38 x 13 x 3,7	•	53,50
600732	38 x 13 x 3,7	•	53,50
600734	38 x 13 x 7,5	•	63,20
600735	38 x 13 x 7,5	•	63,20

SMUSSATORI - RAGGIATORI MEC HM
HM CHAMFER KNIVES - ROUNDING KNIVES MEC
HW FASEMESSER - RADIUSMESSER MEC



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600601	27 x 6 x 14 (dx) - 45°	2	•	52,00
600602	27 x 6 x 14 (sx) - 45°	2	•	52,00
600605	R = 1,5 (dx)	2	•	52,00
600613	R = 2 (dx)	2	•	52,00
600603	R = 3 (dx)	2	•	52,00
600606	R = 1,5 (sx)	2	•	52,00
600614	R = 2 (sx)	2	•	52,00
600604	R = 3 (sx)	2	•	52,00

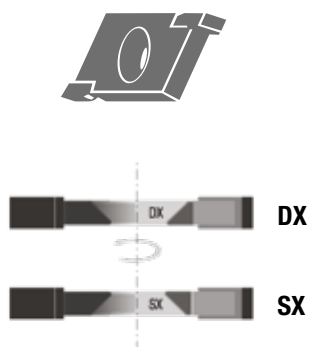
SMUSSATORI - RAGGIATORI MAN HM
HM CHAMFER KNIVES - ROUNDING KNIVES MAN
HW FASEMESSER - RADIUSMESSER MAN



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600607	27 x 6 x 14 (dx) - 45°	2	•	56,50
600608	27 x 6 x 14 (sx) - 45°	2	•	56,50
600617	R = 1,5 (dx)	2	•	56,50
600611	R = 2 (dx)	2	•	56,50
600609	R = 3 (dx)	2	•	56,50
600618	R = 1,5 (sx)	2	•	56,50
600612	R = 2 (sx)	2	•	56,50
600610	R = 3 (sx)	2	•	56,50

INSERTI PER INCASTRI - MEC GROOVING INSERTS - MEC NUTMESSER - MEC

Inserti con placchetta in HM riportata / Carbide tipped inserts / HW- bestückte Einsätze

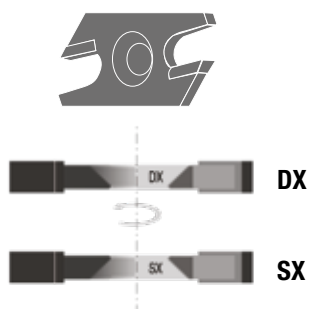


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600701	48 x 3 x 16 (dx)	2	•	60,00
600702	48 x 3 x 16 (sx)	2	•	60,00
600703	48 x 4 x 16 (dx)	2	•	60,00
600704	48 x 4 x 16 (sx)	2	•	60,00
600705	48 x 5 x 16 (dx)	2	•	60,00
600706	48 x 5 x 16 (sx)	2	•	60,00

Inserti integrali in HM / Solid carbide inserts / HW-massiv Einsätze

Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600764	37 x 3 x 16 (dx)	2	•	54,50
600765	37 x 3 x 16 (sx)	2	•	54,50
600766	37 x 4 x 16	2	•	54,50
600767	37 x 5 x 16	2	•	54,50

INSERTI PER INCASTRI - MAN GROOVING INSERTS - MAN NUTMESSER - MAN



Inserti con placchetta in HM riportata / Carbide tipped inserts / HW- bestückte Einsätze

Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600719	40 x 5 x 20 (dx)	2	•	66,00
600720	40 x 5 x 20 (sx)	2	•	66,00
600721	40 x 4 x 20 (dx)	2	•	66,00
600722	40 x 4 x 20 (sx)	2	•	66,00
600723	37,70 x 10,50 x 14 (dx)	2	•	106,00
600724	29,70 x 10,50 x 14 (sx)	2	•	95,00
600727	37,70 x 10,50 x 14 (dx)	2	•	106,00
600728	29,70 x 10,50 x 14 (sx)	2	•	95,00
600729	26,90 x 10,80 x 16 (dx)	2	•	98,00

Inserti integrali in HM / Solid carbide inserts / HW-massiv Einsätze

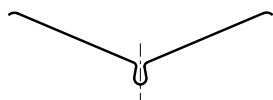
Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
600762	37 x 4 x 16	2	•	69,00
600763	37 x 5 x 16	2	•	69,00



Per / For / Für **TAL2FM** (pagina / page / seite 91)

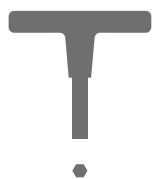
Art. nr.	Z		Ø	Nr. pz.		€/pcs.
	n°	Mat.				
601107	8	HM	245	4	•	63,70
601108	7	HM	295	6	•	68,70
601109	8	HM	345	6	•	70,50

MOLLE
SPRINGS
DRUCKFEDERN



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
501601	20 x 55	10	•	2,30
501602	36 x 95	10	•	2,30
501605	6 x 16	10	•	2,30

CHIAVI DI SERVIZIO
SERVICING KEYS
SCHLÜSSEL

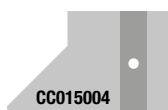
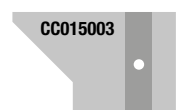
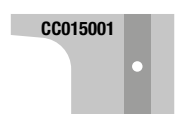
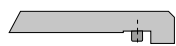


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
400000	Esagonale 2	1	•	2,90
400001	Esagonale 2,5	1	•	2,90
400002	Esagonale 3	1	•	2,90
400004	Esagonale 5	1		3,20
400005	Esagonale 6	1	•	3,20
400007	Esagonale 8	1	•	4,00
400009	Esagonale 3	1	•	4,00
400013	Esagonale 4	1	•	5,00
400111	Esagonale 4	1	•	4,40
400112	Esagonale 3	1	•	4,40
400113	Esagonale 3	1	•	4,40
400114	Esagonale 4	1	•	4,40
400115	Esagonale 5	1	•	4,40
400116	Esagonale 6	1	•	4,40
400117	Esagonale 8	1	•	5,00
400401	Torx 9	1	•	7,80
400405	Torx 15	1	•	7,80
400420	Torx 20	1	•	7,80
400436	Torx 25	1	•	7,80

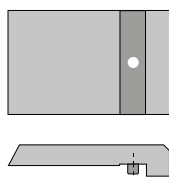


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
400501	Ø 55	1	•	33,50
400502	Ø 65	1	•	51,50

CONTROCOLTELLI
BACKING PLATE
STÜTZPLATTEN

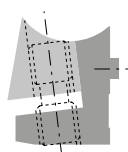


Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
CC015001	20 x 31 x 6	1	•	33,80
CC015002	10 x 31 x 6	1	•	33,80
CC015003	20 x 31 x 6	1	•	33,80
CC015004	20 x 31 x 6	1	•	33,80



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
CC9501	65 x 25 x 4	1		41,80
CC9502	65 x 25 x 4	1		41,80
CC9503	65 x 25 x 4	1		41,80
CC9504	65 x 25 x 4	1		41,80
CC9505	65 x 25 x 4	1		41,80

TASSELLI
WEDGES
SPANNBACKEN



Art. nr.	Dim. / Dim. / Abm. [mm]	Nr. pz.		€/pcs.
300050	20	2	•	47,30

Per / For / Für TAL2FM (pagina / page / seite 91)						
Art. nr.	Dim. / Dim. / Abm. [mm]	T max [mm]	Nr. pz.	€/pcs. 6 - 18	€/pcs. 19-36	€/pcs. > = 37
CS0131	9,6 x 25 x 2	11	1	33,60	27,20	24,60
CS0100	15 x 25 x 2	11	1	33,50	27,00	24,50
CS0101	16 x 18 x 2	6	1	28,80	23,20	20,90
CS0138	20 x 20 x 2	11	1	34,70	27,90	25,20
CS0102	20 x 25 x 2	11	1	35,50	28,60	25,80
CS0103	20 x 30 x 2	15	1	39,10	31,60	28,60
CS0104	20 x 35 x 2	20	1	41,00	33,20	30,00
CS0105	25 x 25 x 2	11	1	39,20	31,60	28,60
CS0106	25 x 30 x 2	15	1	42,10	33,70	30,70
CS0107	25 x 35 x 2	20	1	43,80	35,10	31,70
CS0108	30 x 25 x 2	11	1	43,00	34,60	31,10
CS0109	30 x 30 x 2	15	1	47,00	37,60	33,90
CS0110	30 x 35 x 2	20	1	55,10	44,20	39,90
CS0111	35 x 25 x 2	11	1	46,70	37,40	33,70
CS0112	35 x 30 x 2	15	1	57,10	45,70	40,90
CS0113	35 x 35 x 2	20	1	62,10	49,70	44,60
CS0114	40 x 20 x 2	7	1	42,70	34,30	30,90
CS0115	40 x 25 x 2	11	1	46,50	37,30	33,60
CS0116	40 x 30 x 2	15	1	54,70	43,90	39,60
CS0117	40 x 35 x 2	20	1	57,60	46,10	41,70
CS0118	40 x 40 x 2	23	1	60,40	48,40	43,70
CS0134	45 x 25 x 2	11	1	52,30	42,10	38,20
CS0129	50 x 20 x 2	7	1	44,50	35,70	32,30
CS0119	50 x 25 x 2	11	1	53,00	42,50	38,30
CS0120	50 x 30 x 2	15	1	59,40	47,60	43,00
CS0121	50 x 35 x 2	20	1	66,80	53,60	48,40
CS0122	50 x 40 x 2	23	1	72,10	57,80	52,10
CS0123	51 x 26 x 2	11	1	55,80	44,60	40,30
CS0124	60 x 20 x 2	7	1	47,30	37,90	34,30
CS0130	60 x 25 x 2	11	1	58,60	47,10	42,50
CS0125	60 x 30 x 2	15	1	67,60	54,00	48,70
CS0126	60 x 35 x 2	20	1	74,50	59,70	53,80
CS0127	60 x 40 x 2	23	1	81,40	65,30	58,80
CS0128	70 x 30 x 2	15	1	97,70	78,30	70,30
CS0132	70 x 35 x 2	20	1	107,90	86,50	77,90
CS0133	80 x 25 x 2	11	1	103,70	82,80	74,60
CS0200	25 x 17 x 2	3	1	46,50	37,30	33,60
CS0201	36 x 39 x 2	12	1	83,70	67,00	60,40
CS0202	40 x 30 x 2	8	1	67,40	54,10	48,90
CS0203	40 x 35 x 2	10	1	74,10	59,30	53,50
CS0214	40 x 40 x 2	11	1	77,10	61,60	55,60
CS0204	45 x 35 x 2	10	1	80,90	64,60	58,20
CS0213	50 x 20 x 2	4	1	73,20	58,60	53,00
CS0205	50 x 25 x 2	6	1	76,80	61,50	55,60
CS0206	50 x 30 x 2	8	1	80,40	64,50	58,20
CS0207	50 x 35 x 2	10	1	85,20	68,30	61,50
CS0208	50 x 40 x 2	11	1	98,30	78,60	70,90
CS0212	60 x 25 x 2	6	1	82,70	66,30	59,70
CS0209	60 x 30 x 2	8	1	87,00	69,80	62,80
CS0210	60 x 35 x 2	10	1	97,70	78,30	70,30
CS0211	60 x 40 x 2	11	1	107,70	86,10	77,60
CS0217	80 x 25 x 2	6	1	174,80	140,00	126,10
CS0218	80 x 36 x 2	10	1	188,50	150,80	135,90



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

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

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

UTENSILI SPECIALI Gli ordini per articoli non standard di magazzino, previa accettazione da parte del nostro ufficio tecnico, possono essere evasi con il quantitativo che supera il collaudo tecnico e che potrà pertanto essere superiore o inferiore alla quantità o al valore ordinato, compreso in una tolleranza di +5% e -10% con un minimo di 1 pezzo.

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

IMBALLO Viene sempre addebitato al costo.

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

RECLAMI - RESI Eventuali contestazioni relative alla quantità ed alla qualità dei prodotti forniti, dovranno pervenire a STARK in forma scritta entro otto giorni dalla nota di ricevimento. Non si accettano, per qualsiasi motivi, restituzioni non preventivamente autorizzate da STARK.

GARANZIA I prodotti sono forniti da STARK con 24 (ventiquattro) mesi di garanzia per vizi occulti.

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

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

PAGAMENTI Dovranno pervenire, nei termini e nelle forme stabilite in conferma e fattura, alla sede STARK. Non sono ammessi né arrotondamenti né trattenute a qualsiasi titolo. La non ottemperanza da parte del Cliente darà diritto a STARK di sospendere eventuali nuove forniture, consentendole contemporaneamente di addebitare gli interessi passivi maturati ed ogni altro onere accessorio. Il passaggio di proprietà dei prodotti forniti da STARK al Cliente avverrà al completo saldo della/e fattura/e di fornitura.

LEGGE E FORO COMPETENTE Ogni rapporto tra STARK ed il Cliente s'intende regolato dalla Legge Italiana. Per ogni controversia viene riconosciuta l'esclusiva competenza del Foro di Udine.



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

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

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

SPECIAL TOOLS Orders for special tools once accepted by our technical department will be supplied with the quantity approved by our Q.C. laboratory. This may result in the quantity supplied being superior or inferior to the original order by a +5% and -10% tolerance or minimum number 1 piece.

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

PACKAGING Packaging will be charged as extra.

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

COMPLAINTS Any complaint that may arise concerning the quantity and the quality of the supplied goods, must be communicated to STARK in writing within eight days from note of receipt. Goods sent back without prior authorisation will not be accepted under any circumstances.

GUARANTEE The products supplied by STARK are under a 24 (twentyfour) months guarantee for hidden defects. During this period, provided defects of the kinds envisaged are confirmed by STARK, the replacement of faulty parts will be free of charge. STARK will not entertain claims for any other reason whatsoever and its decision will be irrevocable.

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

PAYMENTS Payments must reach the STARK headquarters according to the terms and conditions as stated in the confirmation document and invoice. The prices may not be rounded down or reduced under any circumstances.

The non compliance of this on behalf of the customer will give STARK the right to stop any future deliveries and at the same time to charge all the due interests allowed as well as any additional expenses. The passing of property of the products supplied by STARK to the customer will take place after complete settlement of the invoices and of the delivery.

LAW AND PLACE OF JURISDICTION Dealings between STARK and the customer will be regulated by Italian Law. The place of jurisdiction for any arising controversy is the Court of Udine.



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

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

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

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

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

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

SONDERWERKZEUGE Bestellungen von Spezialanfertigungen, sobald diese durch unsere technische Abteilung geprüft und freigegeben sind, werden in der Menge geliefert, die unsere Qualitätssicherung bestätigt. Das kann zu einer Unter- bzw. Überlieferung der ursprünglichen Bestellmenge führen. Diese Abweichung beträgt maximal +5% und -10%, jedoch min. 1 Stück.

ZAHLUNGSBEDINGUNGEN Die Zahlung unserer Rechnungen hat entweder innerhalb 14 Tagen mit 2% Skonto oder innerhalb 30 Tagen netto ab Rechnungsdatum zu erfolgen. Schecks und Wechsel gelten erst nach Einlösung als Zahlung, wobei für Wechselzahlung kein Skonto gewährt wird. Ebenso gehen Diskont- und Wechselspesen zu Lasten des Bestellers und sind sofort fällig. Bei Zahlungsverzug behalten wir uns vor, entstandene Kosten und bankübliche Zinsen zu berechnen. Die Zurückhaltung von Zahlungen oder die Aufrechnung strittiger Gegenansprüche seitens des Rechnungsempfängers sind nicht gestattet. Bei Reklamationen, die einen Teil der Lieferung betreffen, darf die Zahlung für den nichtbeanstandeten Teil nicht zurückgehalten werden. Kommt der Käufer seiner Zahlungspflicht nicht nach, so sind wir berechtigt, noch ausstehende Lieferungen zurückzuhalten, auch wenn diese auf einer anderweitigen Bestellung beruhen. Ebenso sind wir berechtigt, unsere Lieferung von einer Barzahlung abhängig zu machen, insbesondere dann, wenn uns nach Vertragsabschluß Umstände bekannt werden, die eine fristgemäße Zahlung gefährden. Bei vereinbarten Teilzahlungen sind wir berechtigt, diese zu widerrufen, falls eine zugesagte Rate länger als 1 Woche aussteht. Falls oben angeführte Differenzen auftreten, verlängert sich die vereinbarte Lieferfrist gemäß der Verzögerung.

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

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

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

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

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

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

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YOUR STORIES, OUR BLADES