

1972



ANNIVERSARY

 **Eriani**

UTENSILI - TOOLS - WERKZEUGE - OUTILS

2022



50<sup>th</sup>

## A TRADITIONAL FAMILY BUSINESS



### STORIA DELL'AZIENDA

QUALITÀ E INNOVAZIONE DA 50 ANNI

Creata nel 1972 da Sergio Briani, l'Azienda è ormai alla terza generazione e, nell'anno in corso, festeggia il cinquantenario della propria nascita.

Fedele alla propria "corporate identity" di impresa ad impronta artigianale, ma con lo sguardo rivolta al futuro, la Briani ha sempre investito su macchinari e tecnologie di ultima generazione, sulla formazione del proprio personale e, da qualche anno, punta sulla sostenibilità ambientale con l'intento di ridurre sempre più il proprio impatto.

Tutto ciò le ha consentito di affermare la propria leadership negli utensili a fissaggio meccanico, settore che occupa il 60% del suo fatturato: era il suo principale obiettivo ed è stato raggiunto.

Le richieste dei consumatori e le modalità di vendita sono sempre oggetto di cambiamenti, ma la pandemia ne ha accelerato la corsa.

I nuovi obiettivi sono quindi ora quelli di soddisfare la sempre maggior richiesta da parte delle piattaforme di vendita on-line e nel perfezionamento dei processi produttivi per realizzare in tempi ancora più brevi utensili speciali.



### HISTORY OF THE COMPANY

QUALITY AND INNOVATION FOR 50 YEARS

The company was founded in 1972 by Sergio Briani, It is now in its third generation and this year celebrates the fiftieth anniversary of its founding.

The Briani is faithful to its own "corporate identity" as an artisan business but with an eye towards the future. It has always invested in innovative machinery, in latest technologies and in its staff training. In recent years Briani company has been focusing on environmental sustainability with the purpose of reducing its environmental impact. All that, allowed the company to confirm its leadership in routers with insert knives which is 60% of its turnover: this was its main goal and it has been achieved.

The consumer demand and the sales types are always evolving but the Pandemic has accelerated the change.

The new goals are therefore to satisfy the increasing demand for online-sales and to improve the production processes in order to produce special tools in even shorter times.



**QUALITY TOOLS SINCE 1972**



## GESCHICHTE DES UNTERNEHMENS

QUALITÄT UND INNOVATION SEIT 50 JAHREN

Das Unternehmen wurde 1972 von Sergio Briani gegründet und in diesem Jahr feiert es den fünfzigsten Jahrestag. Heute führt die Familie in der dritten Generation das Unternehmen.

Die Firma Briani bleibt seiner eigenen Identität als Handwerksbetrieb treu, aber mit einem Blick in die Zukunft. Das Unternehmen investiert seit jeher in innovative Maschinen und Technologien der neusten Generation, sowie in die Ausbildung seiner Mitarbeiter.

Seit einigen Jahren konzentriert sich das Unternehmen auf ökologische Nachhaltigkeit mit dem Ziel, die Auswirkungen auf die Umwelt zu reduzieren.

Das alles hat es ihm ermöglicht seine Führungsrolle bei Wendepplatten-Werkzeuge zu behaupten. Dies macht 60% des Umsatzes aus: es war sein Hauptziel und es wurde erreicht.

Die Wunsch den Verbrauchern und die Verkaufstypologien ändern sich ständig, aber die Pandemie hat den Wandel beschleunigt.

Die neuen Ziele sind daher die steigende Nachfrage nach Online-Verkäufen zu befriedigen und die Produktionsprozesse zu perfektionieren um Spezialwerkzeuge in noch kürzerer Zeit herzustellen



## HISTOIRE DE L'ENTREPRISE

QUALITÉ ET INNOVATION DEPUIS 50 ANS

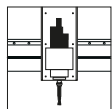
L'entreprise a été fondée en 1972 par Sergio Briani, en est maintenant à sa troisième génération et célèbre cette année le cinquantième anniversaire de sa fondation.

L'entreprise Briani est fidèle à son identité d'entreprise artisanale, mais tournée vers l'avenir. L'entreprise a toujours investi dans des machines et des technologies de dernière génération et dans la formation du personnel et, depuis quelques années, s'est concentrée sur la durabilité environnementale pour réduire de plus en plus son impact sur l'environnement

Tout cela a permis à l'entreprise de confirmer son leadership dans les outils à bois professionnels à plaquettes réversibles, qui est le 60% de son chiffre d'affaires : c'était son objectif principal et il a été atteint. Les demandes des consommateurs et les ventes sont en constante évolution, mais la pandémie a accéléré le changement. Les nouveaux objectifs sont donc désormais de satisfaire la demande croissante de vente en ligne et de perfectionner les processus de production pour fabriquer des outils spéciaux dans des délais encore plus courts.



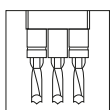
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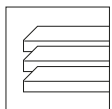
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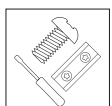
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# LEGENDA



**AVANZAMENTO MANUALE**  
 MANUAL FEED  
 HAND-VORSCHUB  
 AVANCE MANUELLE



**AVANZAMENTO MECCANICO**  
 MECHANICAL FEED  
 MECHANISCHER VORSCHUB  
 AVANCE MÉCANIQUE



**PER MACCHINE CNC**  
 FOR CNC MACHINES  
 FÜR CNC-MASCHINEN  
 POUR CENTRES D'USINAGE CNC



**METALLO DURO**  
 TUNGSTEN CARBIDE  
 HARTMETALL  
 CARBURE



**METALLO DURO INTEGRALE**  
 SOLID CARBIDE  
 VOLLHARTMETALL  
 CARBURE MONOBLOC



**ACCIAIO AD ALTA VELOCITA'**  
 HIGH-SPEED STEEL  
 SCHNELLARBEITSSTAHL  
 ACIER RAPIDE



**ROTAZIONE DESTRA**  
 RIGHT ROTATION  
 RECHTSLAUF  
 ROTATION DROITE



**ROTAZIONE SINISTRA**  
 LEFT ROTATION  
 LINKSLAUF  
 ROTATION GAUCHE



**ROTAZIONE DESTRA-SINISTRA**  
 RIGHT-LEFT ROTATION  
 RECHTS-LINKSLAUF  
 ROTATION DROITE-GAUCHE



**ALIMENTAZIONE LATERALE**  
 HORIZONTAL FEEDING  
 HORIZONTALER VORSCHUB  
 USINAGE HORIZONTAL



**ALIMENTAZIONE VERTICALE/ORIZZONTALE**  
 VERTICAL/HORIZONTAL FEEDING  
 VERTIKALER/HORIZONTAL VORSCHUB  
 USINAGE VERTICAL ET HORIZONTAL



**ALIMENTAZIONE CON DISCESA IN RAMPA**  
 RAMP FEEDING  
 SCHRÄGEINTAUCHEN  
 USINAGE DE BIAIS



**LAMA DI TESTA IN METALLO DURO**  
 CARBIDE TIPPED  
 BOHRSCHEIDE AUS HARTMETALL  
 COUPE FRONTALE EN CARBURE



**NUMERO DI TAGLIENTI**  
 NUMBER OF CUTTING EDGES  
 ANZAHL VON SCHNEIDEN  
 NOMBRE D'ARÊTES DE COUPE



**NUMERO DI TAGLIENTI + LAMA DI TESTA**  
 NUMBER OF CUTTING EDGES + PLUNGING TIP  
 ANZAHL VON SCHNEIDEN + BOHRSCHEIDE  
 NOMBRE D'ARÊTES DE COUPE + COUPE FRONTALE



**NUMERO DI INCISORI**  
 NUMBER OF SPURS  
 ANZAHL VON VORSCHNEIDERN  
 NOMBRE DE TRAÇOIRS



**NUMERO DI TAGLIENTI CON ROMPITRUCIOLO**  
 NUMBER OF CUTTING EDGES WITH CHIPBREAKER  
 ANZAHL VON SCHNEIDEN MIT SPANBRECHER  
 NOMBRE D'ARÊTES DE COUPE AVEC BRISE-COPEAU



**ROMPITRUCIOLO**  
 CHIPBREAKER  
 SPANBRECHER  
 BRISE-COPEAU



**CON CUSCINETTO**  
 WITH BALL BEARING  
 MIT KUGELLAGER  
 AVEC ROULEMENT



**CON CUSCINETTO Delrin®**  
 WITH BALL BEARING Delrin®  
 MIT KUGELLAGER Delrin®  
 AVEC ROULEMENT Delrin®



**ATTACCO CILINDRICO**  
 CYLINDRICAL SHANK  
 ZYLINDRISCHER SCHAFT  
 QUEUE CYLINDRIQUE



**ATTACCO CILINDRICO CON PIANO DI SERRAGGIO**  
 CYLINDRICAL SHANK WITH FLAT  
 ZYLINDRISCHER SCHAFT MIT SPANNFLÄCHE  
 QUEUE CYLINDRIQUE AVEC MÉPLAT



**ATTACCO CILINDRICO CON PIANO DI SERRAGGIO E VITE DI REGOLAZIONE**  
 CYLINDRICAL SHANK WITH FLAT AND ADJUSTMENT SCREW  
 ZYLINDRISCHER SCHAFT MIT SPANNFLÄCHE UND EINSTELLSCHRAUBE  
 QUEUE CYLINDRIQUE AVEC MÉPLAT ET VIS DE RÉGLAGE



**ELICA LAPPATA PER UNA MIGLIOR EVACUAZIONE DEL TRUCIOLO**  
 FLUTE INTERNAL POLISHED FOR A BETTER CHIP EVACUATION  
 INNEN POLIERT FÜR EINE BESSERE SPANABWICKLUNG  
 POLYGLAÇAGE INTÉRIEUR POUR UNE MEILLEURE ÉLIMINATION DES COPEAUX



**PERFETTA PER SCRITTURA**  
 PERFECT FOR LETTERING  
 PERFEKT FÜR BESCHRIFTUNG  
 PARFAIT POUR LE LETTRAGE



**UTENSILE PER PORTE**  
 TOOL FOR DOORS  
 WERKZEUGE FÜR TÜREN  
 OUTILS POUR PORTES

## OPTIONAL



**COLTELLI IN DIAMANTE**  
 DIAMOND KNIFE  
 DIAMANT-WENDEMESSER  
 PLACHETTE EN DIAMANT



**ROMPITRUCIOLO**  
 CHIPBREAKER  
 SPANBRECHER  
 BRISE-COPEAU



**ALTRE MISURE SU RICHIESTA**  
 OTHER DIMENSIONS ON REQUEST  
 ANDERE ABMESSUNGEN AUF ANFRAGE  
 AUTRES DIMENSIONS SUR DEMANDE



**ROTAZIONE SINISTRA**  
 LEFT ROTATION  
 LINKSLAUF  
 ROTATION GAUCHE



**FORNITA IN SET CON SCATOLA**  
 SUPPLIED IN SET WITH BOX  
 LIEFERUNG IM SET MIT BOX  
 SUR DOMANDE COMPOSITION EN COFFRET



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
 THROUGH-HOLE REVERSIBLE KNIFE  
 DURCHGANGSLOCHBOHRER WENDEMESSER  
 PLAQUETTES TROUS DÉBOUCHANTS



**SET DI CUSCINETTI**  
 SET OF BALL BEARINGS  
 KUGELLAGER-SET  
 JEUX DE ROULEMENTS

## CARATTERISTICHE UTENSILE / TOOL FEATURES



### POSITIVO - UPCUT - POSITIVE - POSITIVES

**Truciolo verso alto - Buona finitura sulla superficie inferiore del pezzo**  
 Pull the chips Upwards - Good finish on the lower surface  
 Späneabführung nach oben - Gutes Finish auf der unteren Oberfläche des Stücks  
 Tire les copeaux vers le haut - Bonne finition sur la surface inférieure de la pièce



### NEGATIVO - DOWNCUT - NEGATIVE - NÉGATIVES

**Truciolo verso basso - Buona finitura sulla superficie superiore del pezzo**  
 Push the chips Downwards - Good finish on the upper surface  
 Späneabführung nach unten - Gutes Finish auf der oberen Oberfläche des Stücks  
 Pousse les copeaux vers le bas - Bonne finition sur la surface supérieure de la pièce



### COMPRESSIONE (UP-DOWN) - COMPRESSION - WECHSELSEITIGEM ACHSWINKEL - POSITIVE+NÉGATIV

**Truciolo verso centro - Buona finitura sulla superficie superiore ed inferiore del pezzo**  
 Ejection of the chips in the centre - Good finish on the upper and lower surface  
 Späneabführung im zentrum - Gutes Finish auf der oberen und unteren Oberfläche des Stücks  
 Pousse les copeaux vers la matière - Bonne finition sur la surface supérieure et inférieure de la pièce

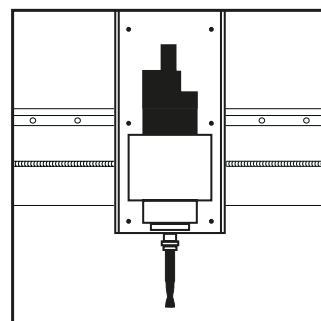
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TOOLS FOR COPY ROUTERS AND CNC MACHINES

WERKZEUGE FÜR KOPIERFRÄSE UND CNC

OUTILS POUR PANTOGRAPHE ET CENTRES D'USINAGE CNC





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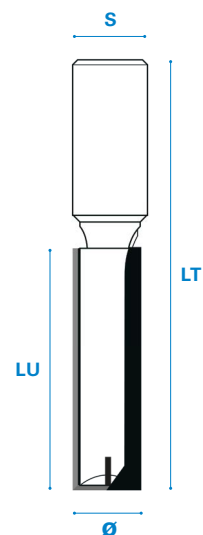
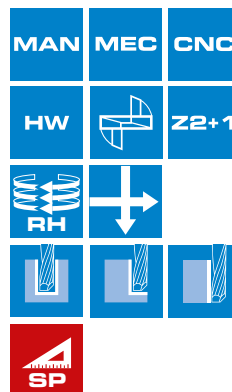
## FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA

Carbide Tipped Straight Plunge  
Nutfräser mit Bohrschneide  
Mèche à rainier droite avec coupe frontale



Ø	LU	LT	S	CODE
8	25	55	12 x 25	101.080.25.28
10	25	55	12 x 25	101.100.25.28
12	25	55	12 x 25	101.120.25.28
14	25	55	12 x 25	101.140.25.28
10	40	70	12 x 25	101.100.40.28
12	40	70	12 x 25	101.120.40.28
13	40	70	12 x 25	101.130.40.28
14	40	70	12 x 25	101.140.40.28
15	40	70	12 x 25	101.150.40.28
16	40	70	12 x 25	101.160.40.28
17	40	70	12 x 25	101.170.40.28
18	40	70	12 x 25	101.180.40.28
19	40	70	12 x 25	101.190.40.28
20	40	70	12 x 25	101.200.40.28
22	40	70	12 x 25	101.220.40.28
24	40	70	12 x 25	101.240.40.28
25	40	70	12 x 25	101.250.40.28
26	40	70	12 x 25	101.260.40.28
28	40	70	12 x 25	101.280.40.28
30	40	70	12 x 25	101.300.40.28
35	40	70	12 x 25	101.350.40.28
12	45	75	12 x 25	101.120.45.28

€



12

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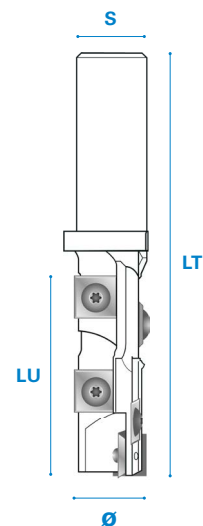
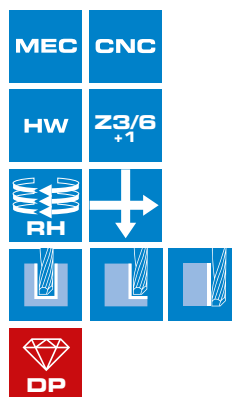
## FRESA PER SGROSSATURA A COLTELLI REVERSIBILI E COLTELLO DI TESTA

Roughing Cutter with reversible knives and center tip knife  
Schrupfräser mit Wendemesser und Wendeplatten Bohrschneide  
Fraise d'ébauche à plaquettes réversibles



Ø	LU	LT	S	CODE
22	30	93	20 x 50	122.220.30.08
22	57	120	20 x 50	122.220.57.08
40	40	105	20 x 50	122.400.40.08

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Z4 12x12x1,5	901.120.12.00
Z2 Ø22 7,5x12x1,5	901.075.12.00
Z2 Ø40 9,6x12x1,5	901.096.12.00
TORX®15 M4x6 D9 L8	902.040.06.90
TORX®15 M4x4 D5,6 L6,2	902.040.04.58
TORX®15	903.002.15.00



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### FRESA A COLTELLO REVERSIBILE E COLTELLO DI TESTA

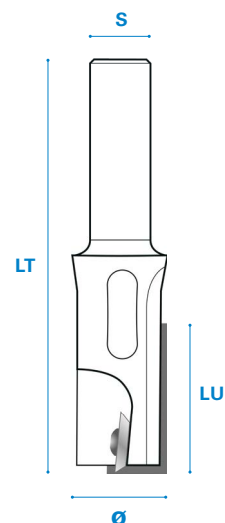
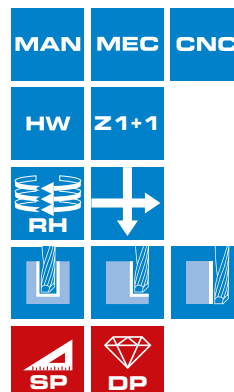
Straight router cutter with reversible knives and center tip knife  
Nutfräser mit Wendemesser und Wendeplatten Bohrschneide  
Fraise à rainer à plaquettes réversibles avec coupe en bout



Ø	LU	LT	S	CODE
16	29,5	82	12 x 35	123.160.12.08
18	29,5	82	12 x 35	123.180.12.08
20	29,5	82	12 x 35	123.200.12.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		29,5x12x1,5	901.295.12.13
	Z2	Ø16/18	7,5x12x1,5	901.075.12.00
	Z2	Ø20	9,6x12x1,5	901.096.12.00
		Ø16/18	TORX®15 M4x4 D9 L6	902.040.04.90
		Ø20	TORX®15 M4x6 D9 L8	902.040.06.90
			TORX®15 M4x6 D5,6 L7,8	902.040.06.58
			TORX®15	903.002.15.00



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### FRESA A COLTELLI REVERSIBILI E COLTELLO DI TESTA

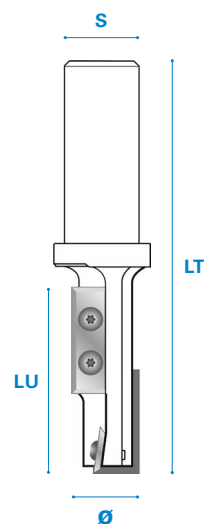
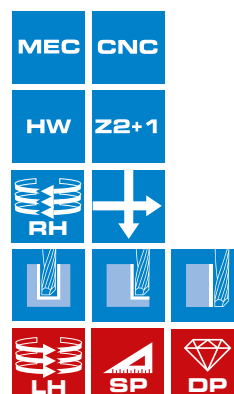
Straight Router bit with reversible knives and center tip knife  
Nutfräser mit Wendemesser und Wendeplatten Bohrschneide  
Fraise à rainer à plaquettes réversibles avec coupe en bout



Ø	LU	LT	S	CODE
16	57	120	20 x 50	125.160.20.08
18	57	120	20 x 50	125.180.20.08
20	57	120	20 x 50	125.200.20.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		29,5x12x1,5	901.295.12.13
	Z2	Ø16/18	7,5x12x1,5	901.075.12.00
	Z2	Ø20	9,6x12x1,5	901.096.12.00
			TORX®15 M4x6 D9 L8	902.040.06.90
			TORX®15 M4x4 D9 L6	902.040.04.90
			TORX®15 M4x4 D5,6 L6,2	902.040.04.58
			TORX®15	903.002.15.00



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## FRESA A COLTELLO REVERSIBILE E COLTELLO DI TESTA

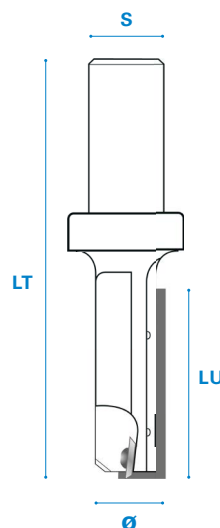
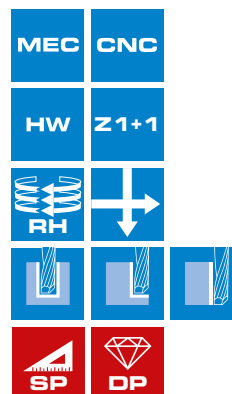
Straight Router bit with reversible knives and center tip knife  
Nutfräser mit Wendemesser und Wendeplatten Bohrschneide  
Fraise à rainer à plaquettes réversibles avec coupe en bout



Ø	LU	LT	S	CODE
16	29,5	100	20 x 50	128.160.30.08
16	49,5	112	20 x 50	128.160.50.08
18	49,5	112	20 x 50	128.180.50.08
20	49,5	112	20 x 50	128.200.50.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
X2	Z4	LU 29,5	29,5x12x1,5	901.295.12.13
X2	Z4	LU 49,5	49,5x12x1,5	901.495.12.13
X2	Z2	Ø16/18	7,5x12x1,5	901.075.12.00
X2	Z2	Ø20	9,6x12x1,5	901.096.12.00
		Ø16/18	TORX®15 M4x4 D9 L6	902.040.04.90
		Ø20	TORX®15 M4x6 D9 L8	902.040.06.90
			TORX®15 M4x6 D5,6 L6,2	902.040.06.58
			TORX®15	903.002.15.00



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## FRESA A COLTELLI PER SGROSSATURA-FINITURA CON ANGOLO ASSIALE POSITIVO E COLTELLO DI TESTA

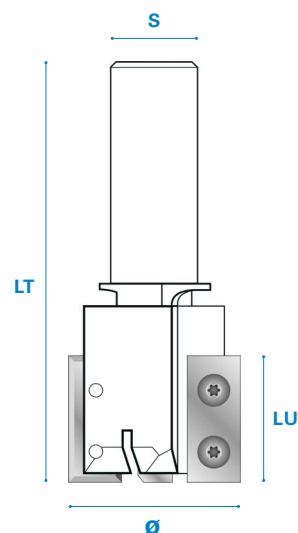
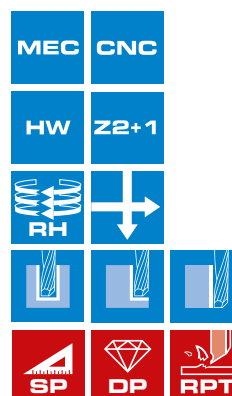
Roughing/Finishing reversible knives router bit with up shear and center tip knife  
Schrupp/Schlichtfräser mit positivem Schnittwinkel und Wendeplatten Bohrschneide  
Fraise d'ébauche-finition à plaquettes avec angle d'axe positif et coupe en bout



Ø	LU	LT	S	CODE
30	29,5	85	12 x 40	133.300.30.12
40	29,5	85	12 x 40	133.400.30.12
40	29,5	95	20 x 50	133.400.30.08
30	49,5	115	20 x 50	133.300.50.08
40	49,5	115	20 x 50	133.400.50.08
50	49,5	115	20 x 50	133.500.50.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
X2	Z4	LU 29,5	29,5x12x1,5	901.295.12.13
X2	Z4	LU 49,5	49,5x12x1,5	901.495.12.13
X4	Z4	Ø30/40	12x12x1,5	901.120.12.00
X2	Z2	Ø50	20x12x1,5	901.200.12.00
			TORX®15 M4x6 D9 L8	902.040.06.90
			TORX®15 M4x6 D5,6 L7,8	902.040.06.58
			TORX®15	903.002.15.00



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### FRESA A COLTELLI CON ANGOLI ASSIALI ALTERNATI E COLTELLO DI TESTA

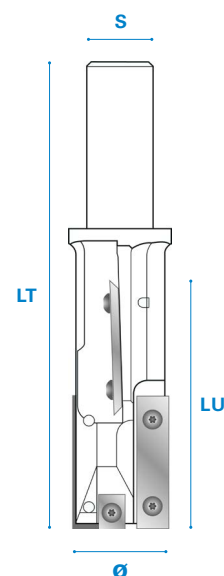
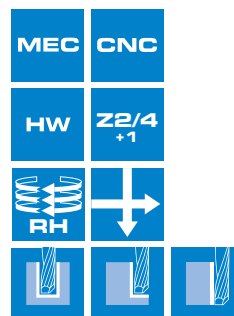
Compression router cutter with reversible knives and center tip knife  
Wende-Shaftfräser mit wechselseitigem Achswinkel und Wendeplatten Bohrschneide  
Fraise à plaquettes avec angle d'axe dessus et dessous et coupe en bout



Ø	LU	LT	S	CODE
30	75	140	20 x 50	141.300.75.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 X2	Z4	39,5x9x1,5	901.395.09.02
 X2	Z2	7,5x12x1,5	901.075.12.00
 X2	Z2	TORX®15 M3,5x6 D5,6 L8	902.035.06.60
		TORX®15	903.002.15.00



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### FRESA A COLTELLI CON ANGOLI ASSIALI ALTERNATI

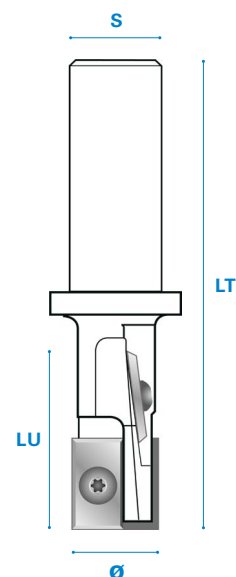
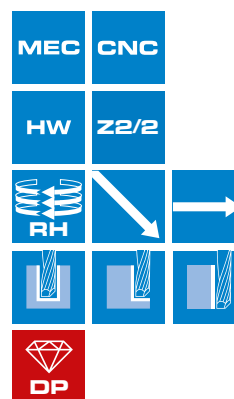
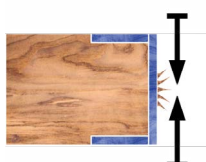
Compression router cutter with reversible knives  
Wende-Shaftfräser mit wechselseitigem Achswinkel  
Fraise à plaquettes avec angle d'axe dessus et dessous



Ø	LU	LT	S	CODE
20	35	105	20 x 50	151.200.35.08
20	57	120	20 x 50	151.200.57.08
22	57	120	20 x 50	151.220.57.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE	
 X2	Z4	LU 35	19,5x12x1,5	901.195.12.13
 X2	Z4	LU 57	29,5x12x1,5	901.295.12.13
		TORX®15 M4x6 D9 L8		902.040.06.90
		TORX®15		903.002.15.00



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## FRESA PILOTA CON ANGOLI DI TAGLIO POSITIVI/NEGATIVI, COLTELLI REVERSIBILI E COLTELLO IN TESTA

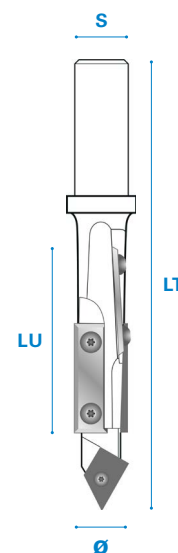
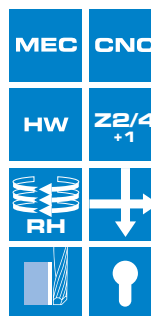
Panel Pilot Router Bit with Up & Down Shear, reversible knives and center tip knife  
Wende-Kopierfreies mit wechelseitigem Achswinkel und Wendeplatten Bohrschneide  
Fraise à oculus à plaquettes réversibles avec coupe en bout



Ø	LU	LT	S	CODE
20	73	165	20 x 50	152.200.73.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 	Z4	39,5x12x1,5	901.395.12.13
 	Z1	60°	901.200.12.60
		TORX®15 M4x6 D9 L8	902.040.06.90
		TORX®15 M4x6 D5,6 L7,8	902.040.06.58
		TORX® 15	903.002.15.00



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## FRESA PER SERRATURE CON COLTELLI REVERSIBILI

Door lock router bit with reversible knives  
Schlosskastenfräser mit Wendemesser  
Mèche pour serrures à plaquettes réversibles





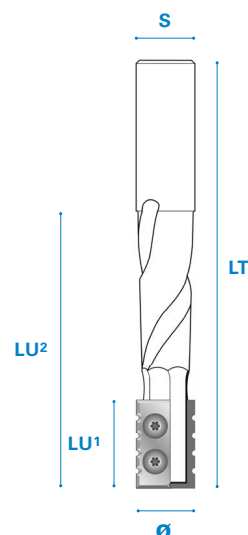
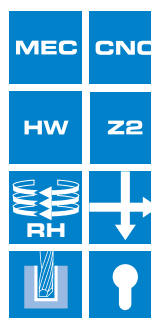
Ø	LU <sup>1</sup> /LU <sup>2</sup>	LT	S	CODE
16	29,5/85	135	20 x 50	153.160.30.08
20	29,5/85	135	20 x 50	153.200.30.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 	Z4	Ø16 29,5x9x1,5	901.295.09.13
 	Z4	Ø20 29,5x12x1,5	901.295.12.13
		Ø16 TORX®15 M4x6 D5,6 L7,8	902.040.06.58
		Ø20 TORX®15 M4x6 D9 L8	902.040.06.90
		TORX®15	903.002.15.00



Optional			CODE
 	Z4	Ø20 29,5x12x1,5	901.295.12.RT



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### FRESA A TAGLIENTI DIRITTI CON COLTELLI REVERSIBILI

Straight Router bit with reversible knives  
Wendeplatten Nutfräser  
Fraise à affleurer à plaquettes réversibles



RH	Ø	LU	LT	S	CODE
	19	49,5	110	20 x 50	155.190.50.08

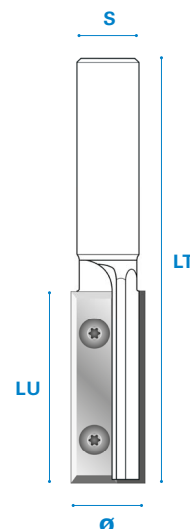
LH	Ø	LU	LT	S	CODE
	19	49,5	110	20 x 50	155.190.50.09

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		49,5x12x1,5	901.495.12.13
	Z4		49,5x12x1,5	901.495.12.09
	TORX®15 M4x6 D9 L8			902.040.06.90
	TORX® 15			903.002.15.00



MEC CNC

HW Z2



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### FRESA PER SCANALATURE A V, FOLDING E SCRITTURA CON COLTELLO REVERSIBILE

V-groove, Folding and lettering router bit with reversible knife  
V-Nut, Folding und Schriftenfräser mit Wendemesser  
Fraise à rainier en V, Folding et à graver à plaquette réversible



a	Ø	LU	LT	S	CODE
92°	17	8,3	73	12 x 40	158.450.12.08
92°	17	8,3	83	20 x 50	158.450.20.08

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		12x12x1,5	901.120.12.92
	TORX®15 M3,5x6 D6 L8			902.035.06.60
	TORX®15			903.002.15.00

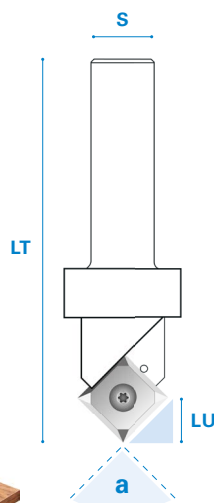


Optional		CODE
	Z1 60° P2	901.120.12.60
	Z1 R3 P3	901.120.03.CO
	Z1 R4 P4	901.120.04.CV
	Z1 R5 P5	901.120.05.CO



MAN MEC CNC

HW Z1



Optional



Optional



Optional



Optional










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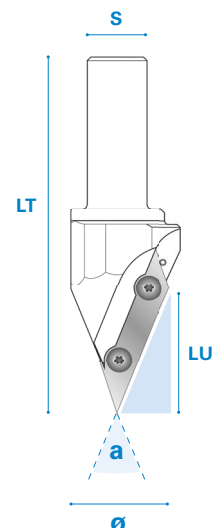
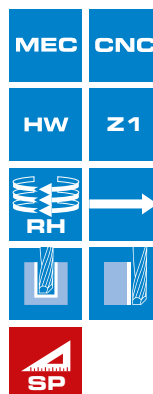
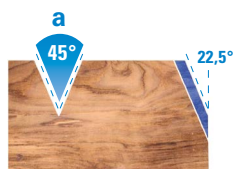
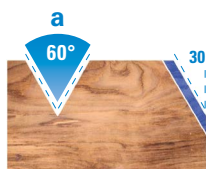
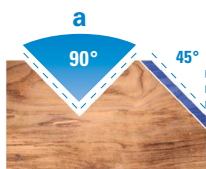
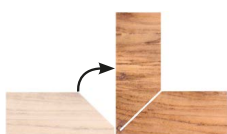
## FRESA PER SCANALATURE A V, SMUSSI E FOLDING CON COLTELLO REVERSIBILE

V-groove, Chamfer and Folding router bit with reversible knife  
V-Nut, Fase und Foldingfräser mit Wendemesser  
Fraise à rainer en V, à chanfreiner et Folding à plaquette réversible



a	Ø	LU	LT	S	CODE	€
45°	35	42	118	20 x 50	161.450.20.08	
60°	40	35	118	20 x 50	161.600.20.08	
90°	38	19	77	12 x 40	161.900.12.08	
90°	50	25	100	20 x 50	161.910.20.08	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange		CODE	€	
 X2	Z2	45°	901.500.12.45	
 X2	Z2	60°	901.500.12.60	
 X2	Z2	90°/Ø38	901.300.12.90	
 X2	Z2	90°/Ø50	901.400.12.91	
		TORX®15 M4x6 D9 L8	902.040.06.90	
		TORX®15	903.002.15.00	



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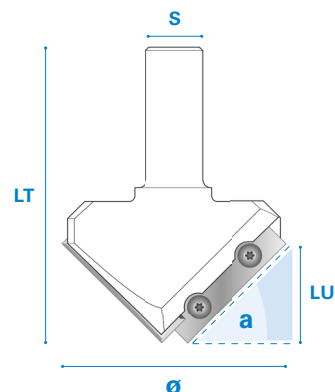
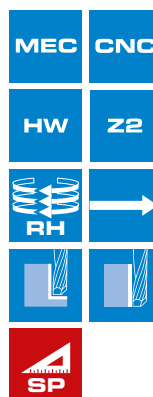
## FRESA PER SMUSSI A COLTELLI REVERSIBILI

Chamfer router bit with reversible knives  
Fasefräser mit Wendemesser  
Fraise à chanfreiner à plaquettes réversibles



a	Ø	LU	LT	S	CODE	€
45°	50	21	75	12 x 40	162.450.12.08	
45°	80	35	105	20 x 50	162.450.20.08	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange		CODE	€		
 X2	Z2	Ø50	30x12x1,5	901.300.12.00	
 X2	Z2	Ø80	50x12x1,5	901.500.12.00	
		TORX®15 M4x6 D9 L8	902.040.06.90		
		TORX®15	903.002.15.00		



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**FRESA PER SPIANARE A COLTELLI REVERSIBILI**

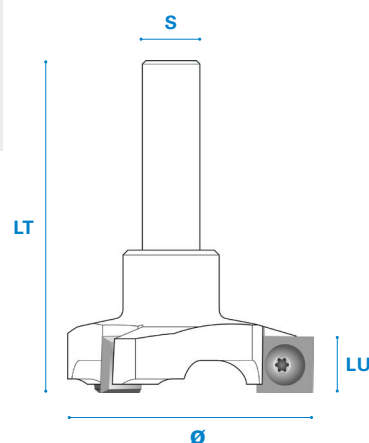
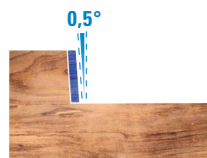
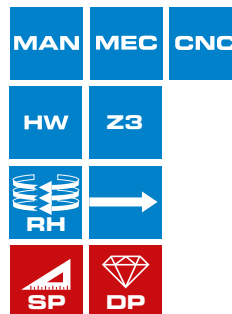
Spoilboard Surfacing router bit with reversible knives  
Planfräser mit Wendemesser  
Fraise à surfacer à plaquettes réversibles



Ø	LU	LT	S	CODE
28	12	60	12 x 35	164.280.12.08
39	12	60	12 x 35	164.390.12.08
59	12	70	12 x 40	164.590.12.08
80	12	90	20 x 50	164.800.20.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 x4	Z4	12x12x1,5	901.120.12.00
		TORX®15 M4x6 D9 L8	902.040.06.90
	Ø28	TORX®15 M4x6 D5,6 L7,8	902.040.06.58
		TORX®15	903.002.15.00



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**FRESA PER SERRATURE Noha®  
CON COLTELLI REVERSIBILI**

Router bit reversible knives for Door lock Noha®  
Fräser für Noha® Schlöss mit Wendemesser  
Fraise pour serrure Noha® à plaquettes réversibles






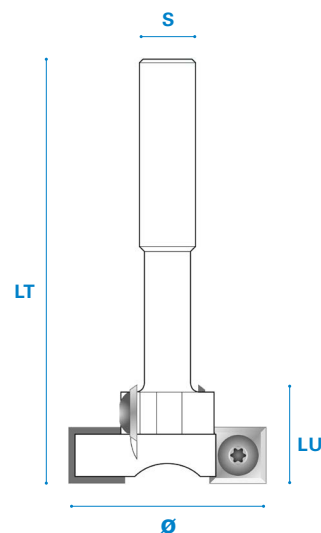
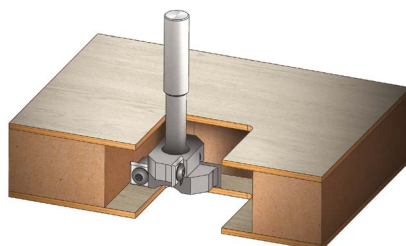
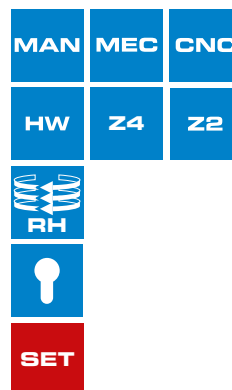
OFFICIAL SUPPLIER:

**Noha**  
the invisible handle  
[www.no-ha.com](http://www.no-ha.com)

Ø	LU	LT	S	CODE	
Z2	44	12	81,5	12 x 40	165.440.12.08
Z4	44	21	90,5	12 x 40	165.440.00.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 x4	Z4	12x12x1,5	901.120.12.00
		TORX®15 M4x6 D9 L8	902.040.06.90
		TORX®15	903.002.15.00





166

## FRESA PER CERNIERE SIMONSWERK TECTUS® TE 300, 500, 600 CON COLTELLI REVERSIBILI




Router bit reversible knives for hinges Simonswerk TECTUS® TE 300, 500, 600  
Wendeplatten-Nutfräser für Bandsystem Simonswerk TECTUS® TE 300, 500, 600  
Fraise à rainier pour paumelle Simonswerk TECTUS TE 300, 500, 600 à plaquettes réversibles

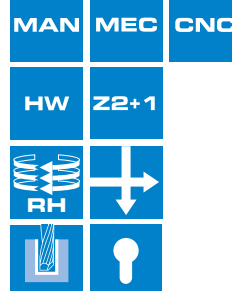


**COMPATIBILE CON**  
Compatible with  
Passend für  
Compatible avec

**TECTUS®**  
by **SIMONSWERK**

Ø	LU	LT	S	CODE	€
24	29,5	120	12 x 40	166.240.30.08	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	LU 29,5	29,5x9x1,5		901.295.09.00
		TORX®15 M4x6 D5,6 L7,8		902.040.06.58
		TORX®15		903.002.15.00



# 170

## FRESA PER RAGGI E SMUSSI CON COLTELLI REVERSIBILI

Router bit reversible knives for Roundover/Chamfer  
 Fase/Viertelstabfräser mit wechsellplatten  
 Mèche 1/4 de rond/à chanfreiner à plaquettes

MAN	MEC	CNC
HW	Z2	
	SET	



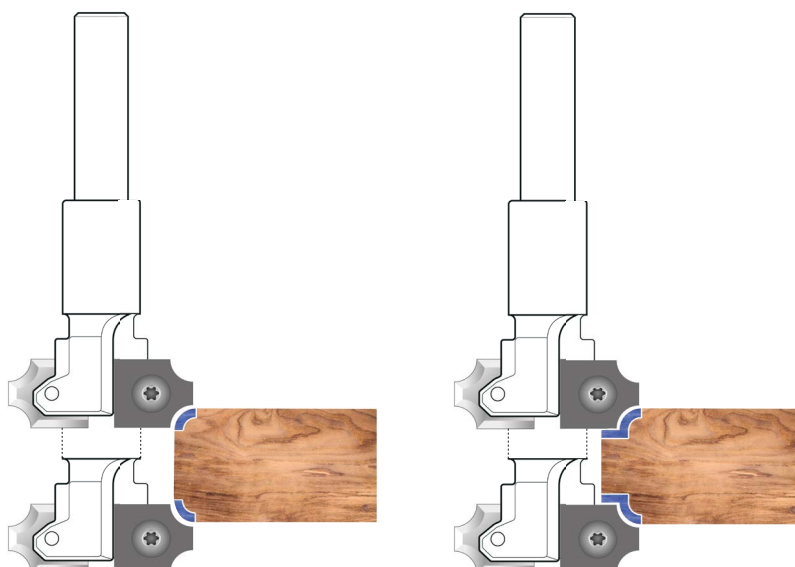
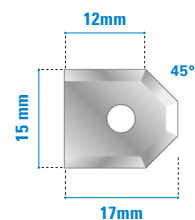
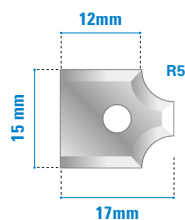
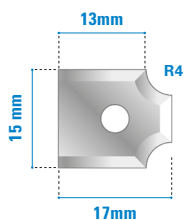
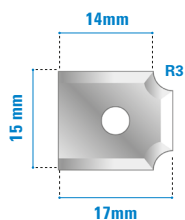
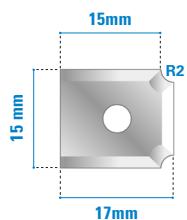
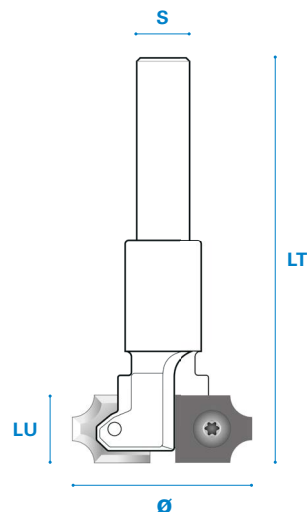
Ø	LU	LT	S	CODE
41	15	90	12 x 40	170.410.01200
41	15	100	16 x 40	170.410.01600

€

	CODE
R2	15x17x2 901.000.02.02
R3	15x17x2 901.000.03.02
R4	15x17x2 901.000.04.02
R5	15x17x2 901.000.05.02
45°	15x17x2 901.000.45.02



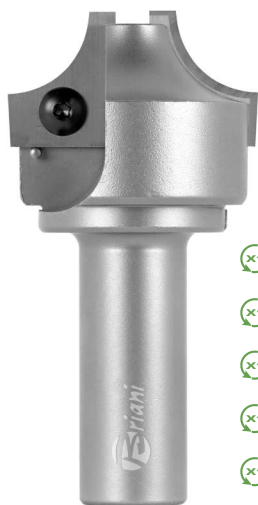
Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
TORX®15 M4x6 D9 L8	902.040.60.90
TORX®15	903.002.15.00



171

**FRESA RAGGIO CONCAVO A COLTELLI**

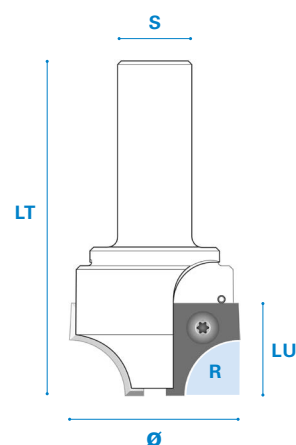
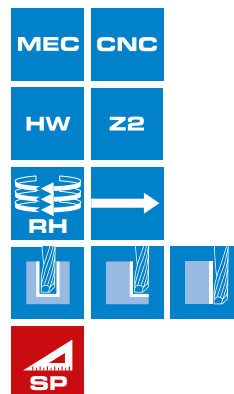
Roundover router bit with insert knives  
 Viertelstabfräser mit Wechselplatten  
 Mèche 1/4 de rond à plaquettes



R	Ø	LU	LT	S	CODE
8	32	18	80	20 x 50	171.080.02000
10	36	18	85	20 x 50	171.100.02000
12	40	18	85	20 x 50	171.120.02000
15	46	23	90	20 x 50	171.150.02000
20	60	34	100	20 x 50	171.200.02000

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
x1	Z3	R8	901.171.08.CO
x1	Z3	R10	901.171.10.CO
x1	Z3	R12	901.171.12.CO
x1	Z3	R15	901.171.15.CO
x1	Z3	R20	901.171.20.CO
		TORX®15 M4x6 D9 L8	902.040.06.90
		TORX®15	903.002.15.00

€



22

172

**FRESA RAGGIO CONVESSO A COLTELLI**

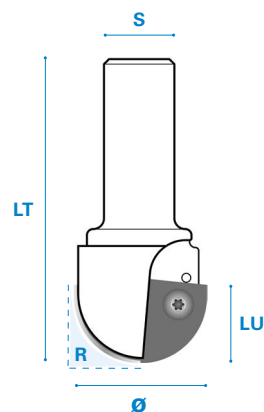
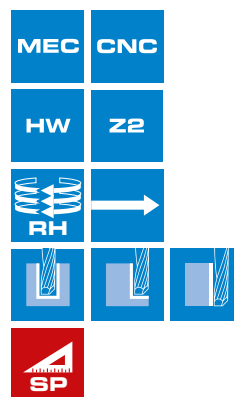
Core box router bit with insert knives  
 Hohlkehlfräser mit Wechselplatten  
 Mèche à gorge à plaquettes



R	Ø	LU	LT	S	CODE
12	24	18	85	20 x 50	172.120.02000
15	30	23	90	20 x 50	172.150.02000
20	40	23	90	20 x 50	172.200.02000

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
x1	Z1	R12	901.172.12.CV
x1	Z1	R15	901.172.15.CV
x1	Z1	R20	901.172.20.CV
		TORX®15 M4x6 D9 L8	902.040.06.90
		TORX®15	903.002.15.00

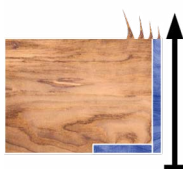
€



701

## FRESA ELICOIDALE PER FINITURA

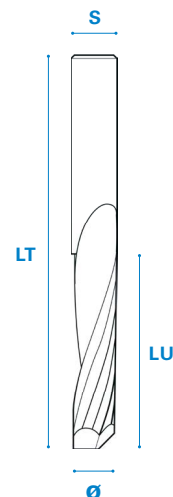
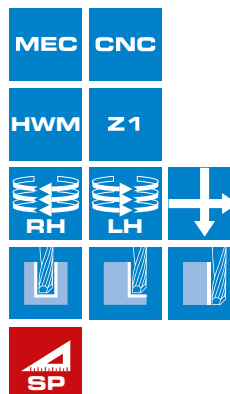
Finishing Spiral bit  
Einzahn-Schlichtfräser  
Fraise à coupe hélicoïdale



RH	Ø	LU	LT	S	CODE
DESTRA POSITIVA Right-hand / Up-cut Rechtslauf / Positive Droite / Positives	3	12	50	3	701.030.12.D8
	4	12	50	4	701.040.12.D8
	5	17	50	5	701.050.17.D8
	6	20	60	6	701.060.20.D8
	8	22	70	8	701.080.22.D8
	6	30	70	6	701.060.30.D8
	8	32	80	8	701.080.32.D8
	10	32	80	10	701.100.32.D8
	12	32	80	12	701.120.32.D8
	10	42	90	10	701.100.42.D8
	12	42	90	12	701.120.42.D8

LH	Ø	LU	LT	S	CODE
SINISTRA POSITIVA Left-hand / Up-cut Linkslauf / Positive Gauche / Positives	3	12	50	3	701.030.12.D9
	4	12	50	4	701.040.12.D9
	5	17	50	5	701.050.17.D9
	6	20	60	6	701.060.20.D9
	8	22	70	8	701.080.22.D9
	6	30	70	6	701.060.30.D9
	8	32	80	8	701.080.32.D9
	10	32	80	10	701.100.32.D9
	12	32	80	12	701.120.32.D9
	10	42	90	10	701.100.42.D9
	12	42	90	12	701.120.42.D9

€



23



RH	Ø	LU	LT	S	CODE
DESTRA NEGATIVA Right-hand / Down-cut Rechtslauf / Negative Droite / Négatives	3	12	50	3	701.030.12.S8
	4	12	50	4	701.040.12.S8
	5	17	50	5	701.050.17.S8
	6	20	60	6	701.060.20.S8
	8	22	70	8	701.080.22.S8
	6	30	70	6	701.060.30.S8
	8	32	80	8	701.080.32.S8
	10	32	80	10	701.100.32.S8
	12	32	80	12	701.120.32.S8
	10	42	90	10	701.100.42.S8
	12	42	90	12	701.120.42.S8

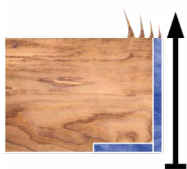
€



702

## FRESA ELICOIDALE PER FINITURA

Finishing Spiral bit  
Schlichtfräser  
Fraise à coupes hélicoïdales



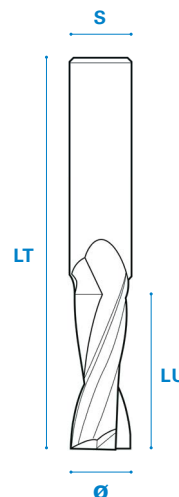
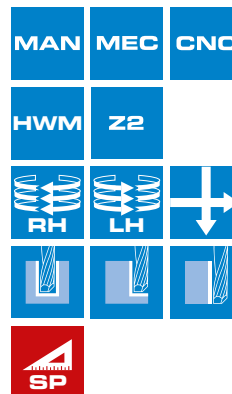
RH	Ø	LU	LT	S	CODE
3	12	50	3	702.030.12.D8	
4	12	50	4	702.040.12.D8	
5	17	50	5	702.050.17.D8	
6	20	60	6	702.060.20.D8	
8	22	70	8	702.080.22.D8	
6	30	70	6	702.060.30.D8	
8	32	80	8	702.080.32.D8	
10	32	80	10	702.100.32.D8	
12	32	80	12	702.120.32.D8	
14	32	80	14	702.140.32.D8	
10	52	100	10	702.100.52.D8	
12	52	100	12	702.120.52.D8	
14	52	100	14	702.140.52.D8	
16	52	100	16	702.160.52.D8	
18	52	100	18	702.180.52.D8	
20	52	100	20	702.200.52.D8	
16	72	120	16	702.160.72.D8	
20	72	120	20	702.200.72.D8	

LH	Ø	LU	LT	S	CODE
3	12	50	3	702.030.12.D9	
4	12	50	4	702.040.12.D9	
5	17	50	5	702.050.17.D9	
6	20	60	6	702.060.20.D9	
8	22	70	8	702.080.22.D9	
6	30	70	6	702.060.30.D9	
8	32	80	8	702.080.32.D9	
10	32	80	10	702.100.32.D9	
12	32	80	12	702.120.32.D9	
14	32	80	14	702.140.32.D9	
10	52	100	10	702.100.52.D9	
12	52	100	12	702.120.52.D9	
14	52	100	14	702.140.52.D9	
16	52	100	16	702.160.52.D9	
18	52	100	18	702.180.52.D9	
20	52	100	20	702.200.52.D9	
16	72	120	16	702.160.72.D9	
20	72	120	20	702.200.72.D9	

RH	Ø	LU	LT	S	CODE
3	12	50	3	702.030.12.S8	
4	12	50	4	702.040.12.S8	
5	17	50	5	702.050.17.S8	
6	20	60	6	702.060.20.S8	
8	22	70	8	702.080.22.S8	
6	30	70	6	702.060.30.S8	
8	32	80	8	702.080.32.S8	
10	32	80	10	702.100.32.S8	
12	32	80	12	702.120.32.S8	
14	32	80	14	702.140.32.S8	
10	52	100	10	702.100.52.S8	
12	52	100	12	702.120.52.S8	
14	52	100	14	702.140.52.S8	
16	52	100	16	702.160.52.S8	
18	52	100	18	702.180.52.S8	
20	52	100	20	702.200.52.S8	
16	72	120	16	702.160.72.S8	
20	72	120	20	702.200.72.S8	

LH	Ø	LU	LT	S	CODE
3	12	50	3	702.030.12.S9	
4	12	50	4	702.040.12.S9	
5	17	50	5	702.050.17.S9	
6	20	60	6	702.060.20.S9	
8	22	70	8	702.080.22.S9	
6	30	70	6	702.060.30.S9	
8	32	80	8	702.080.32.S9	
10	32	80	10	702.100.32.S9	
12	32	80	12	702.120.32.S9	
14	32	80	14	702.140.32.S9	
10	52	100	10	702.100.52.S9	
12	52	100	12	702.120.52.S9	
14	52	100	14	702.140.52.S9	
16	52	100	16	702.160.52.S9	
18	52	100	18	702.180.52.S9	
20	52	100	20	702.200.52.S9	
16	72	120	16	702.160.72.S9	
20	72	120	20	702.200.72.S9	

€



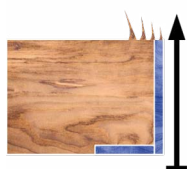
€



703

## FRESA ELICOIDALE PER FINITURA

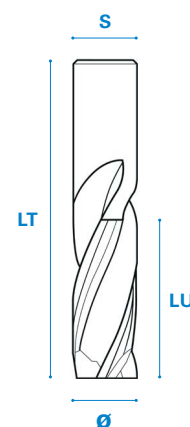
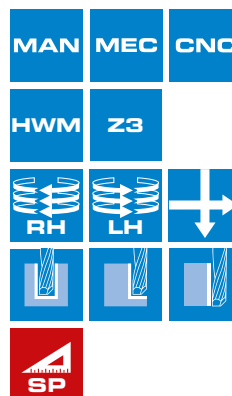
Finishing Spiral bit  
Schlichtfräser  
Fraise à coupes hélicoïdales



RH	Ø	LU	LT	S	CODE
DESTRA POSITIVA Right-hand / Up-cut Rechtslauf / Positive Droite / Positives	8	32	80	8	703.080.32.D8
	10	32	80	10	703.100.32.D8
	12	32	80	12	703.120.32.D8
	10	52	100	10	703.100.52.D8
	12	52	100	12	703.120.52.D8
	14	52	100	14	703.140.52.D8
	16	52	100	16	703.160.52.D8
	18	52	100	18	703.180.52.D8
	20	52	100	20	703.200.52.D8
	16	72	120	16	703.160.72.D8
	20	72	120	20	703.200.72.D8
	20	102	150	20	703.200.102.D8

LH	Ø	LU	LT	S	CODE
SINISTRA POSITIVA Left-hand / Up-cut Linkslauf / Positive Gauche / Positives	8	32	80	8	703.080.32.D9
	10	32	80	10	703.100.32.D9
	12	32	80	12	703.120.32.D9
	10	52	100	10	703.100.52.D9
	12	52	100	12	703.120.52.D9
	14	52	100	14	703.140.52.D9
	16	52	100	16	703.160.52.D9
	18	52	100	18	703.180.52.D9
	20	52	100	20	703.200.52.D9
	16	72	120	16	703.160.72.D9
	20	102	150	20	703.200.102.D9

€



25



RH	Ø	LU	LT	S	CODE
DESTRA NEGATIVA Right-hand / Down-cut Rechtslauf / Negative Droite / Négatives	8	32	80	8	703.080.32.S8
	10	32	80	10	703.100.32.S8
	12	32	80	12	703.120.32.S8
	10	52	100	10	703.100.52.S8
	12	52	100	12	703.120.52.S8
	14	52	100	14	703.140.52.S8
	16	52	100	16	703.160.52.S8
	18	52	100	18	703.180.52.S8
	20	52	100	20	703.200.52.S8
	16	72	120	16	703.160.72.S8
	20	72	120	20	703.200.72.S8
	20	102	150	20	703.200.102.S8

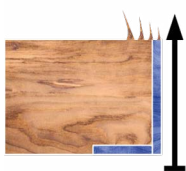
€



704

## FRESA ELICOIDALE PER SGROSSATURA CON ROMPITRUCIOLO

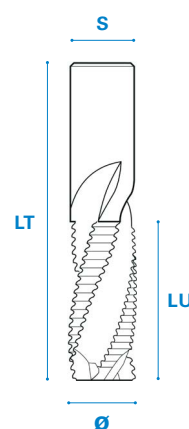
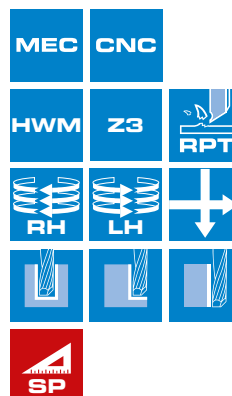
Roughing Spiral bit with Chipbreaker  
 Schrumpfräser mit Spanbrecher  
 Fraise à coupes hélicoïdales avec brise-copeau



RH	Ø	LU	LT	S	CODE
DESTRA POSITIVA Right-hand / Up-cut Rechtslauf / Positive Droite / Positives	8	32	80	8	704.080.32.D8
	10	32	80	10	704.100.32.D8
	12	32	80	12	704.120.32.D8
	8	52	100	8	704.080.52.D8
	10	52	100	10	704.100.52.D8
	12	52	100	12	704.120.52.D8
	14	52	100	14	704.140.52.D8
	16	52	100	16	704.160.52.D8
	18	52	100	18	704.180.52.D8
	20	52	100	20	704.200.52.D8
	16	72	120	16	704.160.82.D8
	20	72	120	20	704.200.72.D8
20	102	150	20	704.200.102.D8	

LH	Ø	LU	LT	S	CODE
SINISTRA POSITIVA Left-hand / Up-cut Linkslauf / Positive Gauche / Positives	8	32	80	8	704.080.32.D9
	10	32	80	10	704.100.32.D9
	12	32	80	12	704.120.32.D9
	8	52	100	8	704.080.52.D9
	10	52	100	10	704.100.52.D9
	12	52	100	12	704.120.52.D9
	14	52	100	14	704.140.52.D9
	16	52	100	16	704.160.52.D9
	18	52	100	18	704.180.52.D9
	20	52	100	20	704.200.52.D9
	16	72	120	16	704.160.82.D9

€



26



RH	Ø	LU	LT	S	CODE
DESTRA NEGATIVA Right-hand / Down-cut Rechtslauf / Negative Droite / Négatives	8	32	80	8	704.080.32.S8
	10	32	80	10	704.100.32.S8
	12	32	80	12	704.120.32.S8
	8	52	100	8	704.080.52.S8
	10	52	100	10	704.100.52.S8
	12	52	100	12	704.120.52.S8
	14	52	100	14	704.140.52.S8
	16	52	100	16	704.160.52.S8
	18	52	100	18	704.180.52.S8
	20	52	100	20	704.200.52.S8
	16	72	120	16	704.160.82.S8
	20	72	120	20	704.200.72.S8
20	102	150	20	704.200.102.S8	

€



LH	Ø	LU	LT	S	CODE
SINISTRA NEGATIVA Left-hand / Down-cut Linkslauf / Negative Gauche / Négatives	8	32	80	8	704.080.32.S9
	10	32	80	10	704.100.32.S9
	12	32	80	12	704.120.32.S9
	8	52	100	8	704.080.52.S9
	10	52	100	10	704.100.52.S9
	12	52	100	12	704.120.52.S9
	14	52	100	14	704.140.52.S9
	16	52	100	16	704.160.52.S9
	18	52	100	18	704.180.52.S9
	20	52	100	20	704.200.52.S9
	16	72	120	16	704.160.82.S9

710

**FRESA PER SERRATURE**

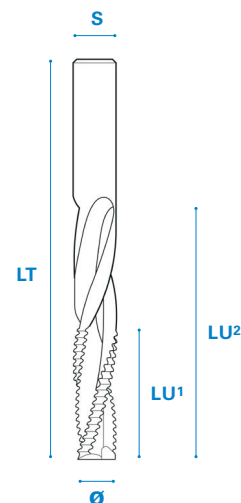
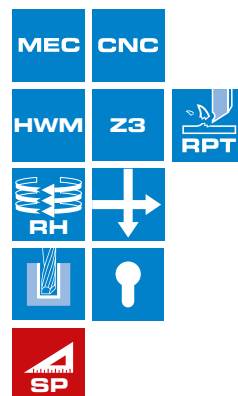
Door Lock Mortise  
Schlosskastenfräser  
Mèche à coupes hélicoïdales pour serrures



**DESTRA POSITIVA**  
Right-hand / Up-cut  
Rechtslau / Positive  
Droite / Positives

Ø	LU <sup>1</sup> /LU <sup>2</sup>	LT	S	CODE
12	45/95	150	12	710.120.95.D8
14	45/95	150	14	710.140.95.D8
16	45/95	150	16	710.160.95.D8
18	45/95	150	18	710.180.95.D8

€



27

715

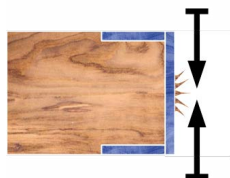
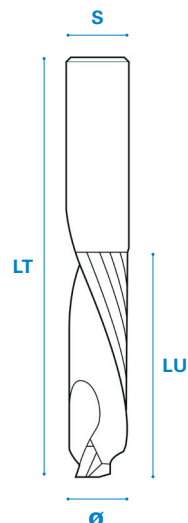
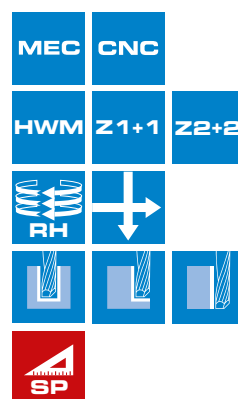
**FRESA PER FINITURA  
CON ANGOLI ASSIALI ALTERNATI**

Compression Spiral Router Bit  
Schlichtfräser mit wechselseitigem Achswinkel  
Fraise à coupe alternée positive + négative



	Ø	LU	LT	S	CODE
Z1+1	4	15	50	4	715.040.15.D8
Z1+1	5	17	50	5	715.050.17.D8
Z1+1	6	22	70	6	715.060.22.D8
Z1+1	8	32	70	8	715.080.32.D8
Z2+2	10	32	80	10	715.100.32.D8
Z2+2	12	32	80	12	715.120.32.D8
Z2+2	12	42	90	12	715.120.42.D8

€





# INDICE | INDEX

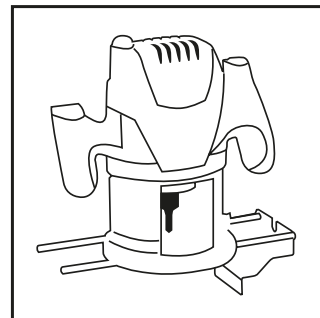
## UTENSILI NON SAGOMATI PER PANTOGRAFI PORTATILI

NOT PROFILED TOOLS FOR PORTABLE ROUTERS

WERKZEUGE NICHT PROFILIERTEN FÜR HANDBERFRÄSER

OUTILS PAS PROFILÉES POUR DÉFONCEUSES PORTATIVES

# B



# INDICE | INDEX

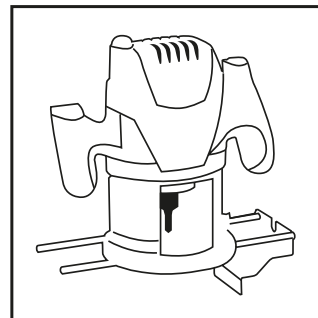
## UTENSILI NON SAGOMATI PER PANTOGRAFI PORTATILI

NOT PROFILED TOOLS FOR PORTABLE ROUTERS

WERKZEUGE NICHT PROFILIERTEN FÜR HANDBERFRÄSER

OUTILS PAS PROFILÉES POUR DÉFONCEUSES PORTATIVES

# B



201

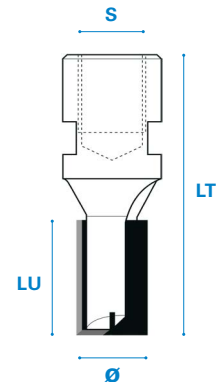
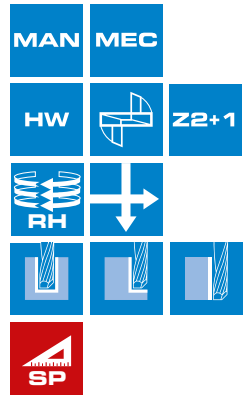
### FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA - M12 Elu®

Carbide Tipped Straight Plunge - M12 Elu®  
Nutfräser mit Bohrschneide - M12 Elu®  
Mèche à rainier avec coupe frontale - M12 Elu®



Ø	LU	LT	S	CODE
8	25	60	M12 x 1	201.080.25.28
10	25	60	M12 x 1	201.100.25.28
11	25	60	M12 x 1	201.110.25.28
12	25	60	M12 x 1	201.120.25.28
14	25	60	M12 x 1	201.140.25.28
15	25	60	M12 x 1	201.150.25.28
16	25	60	M12 x 1	201.160.25.28
18	25	60	M12 x 1	201.180.25.28
20	25	60	M12 x 1	201.200.25.28
22	25	60	M12 x 1	201.220.25.28
24	25	60	M12 x 1	201.240.25.28
25	25	60	M12 x 1	201.250.25.28
26	25	60	M12 x 1	201.260.25.28
28	25	60	M12 x 1	201.280.25.28
30	25	60	M12 x 1	201.300.25.28
35	25	60	M12 x 1	201.350.25.28
10	35	70	M12 x 1	201.100.35.28
12	40	75	M12 x 1	201.120.40.28
13	40	75	M12 x 1	201.130.40.28
14	40	75	M12 x 1	201.140.40.28
15	40	75	M12 x 1	201.150.40.28
16	40	75	M12 x 1	201.160.40.28
18	40	75	M12 x 1	201.180.40.28
20	40	75	M12 x 1	201.200.40.28
22	40	75	M12 x 1	201.220.40.28
16	45	80	M12 x 1	201.160.45.28
18	45	80	M12 x 1	201.180.45.28
12	50	85	M12 x 1	201.120.50.28
14	50	85	M12 x 1	201.140.50.28
16	50	85	M12 x 1	201.160.50.28
16	60	95	M12 x 1	201.160.60.28

€



30

203

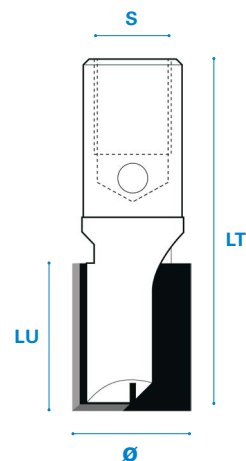
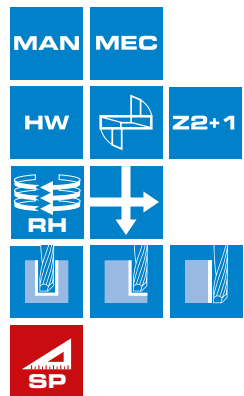
### FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA - M10 Scheer®

Carbide Tipped Straight Plunge - M10 Scheer®  
Nutfräser mit Bohrschneide - M10 Scheer®  
Mèche à rainier avec coupe frontal - M10 Scheer®



Ø	LU	LT	S	CODE
8	25	60	M10 x 1,5	203.080.25.28
10	25	60	M10 x 1,5	203.100.25.28
11	25	60	M10 x 1,5	203.110.25.28
12	25	60	M10 x 1,5	203.120.25.28
14	25	60	M10 x 1,5	203.140.25.28
15	25	60	M10 x 1,5	203.150.25.28
16	25	60	M10 x 1,5	203.160.25.28
18	25	60	M10 x 1,5	203.180.25.28
20	25	60	M10 x 1,5	203.200.25.28
22	25	60	M10 x 1,5	203.220.25.28
24	25	60	M10 x 1,5	203.240.25.28
25	25	60	M10 x 1,5	203.250.25.28
26	25	60	M10 x 1,5	203.260.25.28
28	25	60	M10 x 1,5	203.280.25.28
30	25	60	M10 x 1,5	203.300.25.28
35	25	60	M10 x 1,5	203.350.25.28
10	35	70	M10 x 1,5	203.100.35.28
12	40	75	M10 x 1,5	203.120.40.28
13	40	75	M10 x 1,5	203.130.40.28
14	40	75	M10 x 1,5	203.140.40.28
15	40	75	M10 x 1,5	203.150.40.28
16	40	75	M10 x 1,5	203.160.40.28
18	40	75	M10 x 1,5	203.180.40.28
20	40	75	M10 x 1,5	203.200.40.28
22	40	75	M10 x 1,5	203.220.40.28
16	45	80	M10 x 1,5	203.160.45.28
18	45	80	M10 x 1,5	203.180.45.28
20	45	80	M10 x 1,5	203.200.45.28
22	45	80	M10 x 1,5	203.220.45.28

€



# 205

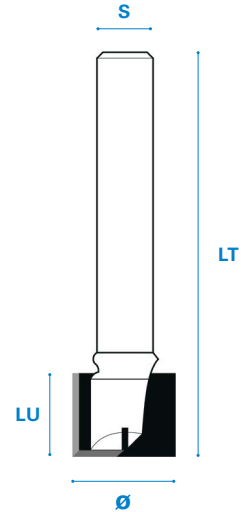
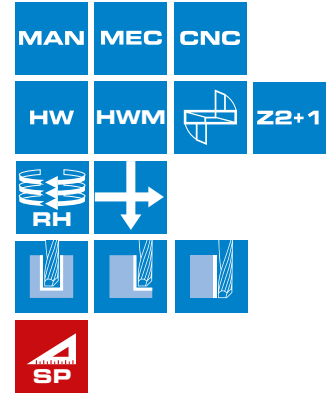
## FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA

Carbide Tipped Straight Plunge  
Nutfräser mit Bohrschneide  
Mèche à rainer avec coupe frontale



Ø	LU	LT	S		CODE
28	5	60	8		205.280.05.28
30	5	60	8		205.300.05.28
4	10	60	8	HWM	205.040.10.28
22	10	70	8		205.220.10.28
23	10	60	8		205.230.10.28
24	10	60	8		205.240.10.28
26	10	60	8		205.260.10.28
5	12	60	8	HWM	205.050.12.28
14	12	60	8		205.140.12.28
15	12	50	8		205.150.12.28
16	12	70	8		205.160.12.28
18	12	70	8		205.180.12.28
20	12	70	8		205.200.12.28
12	15	60	8		205.120.15.28
13	15	60	8		205.130.15.28
6	16	60	8	HWM	205.060.16.28
7	16	60	8	HWM	205.070.16.28
8	20	60	8	HWM	205.080.20.28
9	20	60	8		205.090.20.28
10	20	60	8		205.100.20.28
11	20	60	8		205.110.20.28
14	20	70	8		205.140.20.28
16	20	80	8		205.160.20.28
18	20	80	8		205.180.20.28
20	20	80	8		205.200.20.28
22	20	80	8		205.220.20.28
8	30	90	8		205.080.30.28
10	30	90	8		205.100.30.28
12	30	90	8		205.120.30.28
14	30	90	8		205.140.30.28
16	30	90	8		205.160.30.28

€



# 206

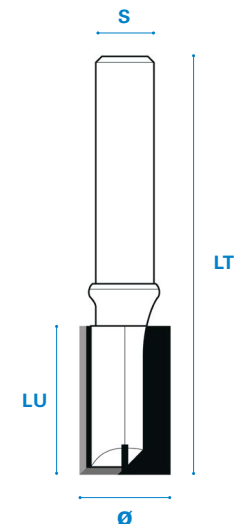
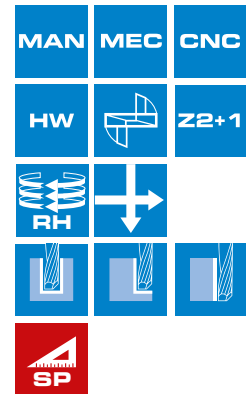
## FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA

Carbide Tipped Straight Plunge  
Nutfräser mit Bohrschneide  
Mèche à rainer avec coupe frontale



Ø	LU	LT	S		CODE
10	25	70	10x38		206.100.25.28
11	25	70	10x38		206.110.25.28
12	25	70	10x38		206.120.25.28
14	25	70	10x38		206.140.25.28
15	25	70	10x38		206.150.25.28
16	25	70	10x38		206.160.25.28
18	25	70	10x38		206.180.25.28
20	25	70	10x38		206.200.25.28
22	25	70	10x38		206.220.25.28
24	25	70	10x38		206.240.25.28
26	25	70	10x38		206.260.25.28
30	25	70	10x38		206.300.25.28
10	35	87	10x38		206.100.35.28
12	35	87	10x38		206.120.35.28
14	35	87	10x38		206.140.35.28
16	35	87	10x38		206.160.35.28
18	35	87	10x38		206.280.35.28
20	35	87	10x38		206.200.35.28

€



207

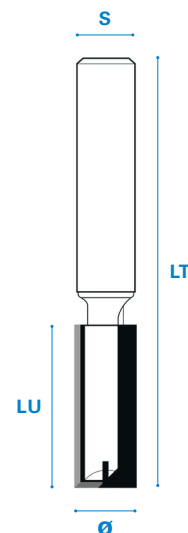
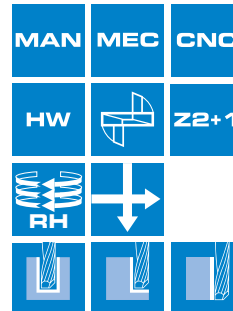
### FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA

Carbide Tipped Straight Plunge  
Nutfräser mit Bohrschneide  
Mèche à rainier avec coupe frontale



Ø	LU	LT	S	CODE
10	35	90	12 x 50	207.100.35.28
12	35	90	12 x 50	207.120.35.28
14	35	90	12 x 50	207.140.35.28
16	35	90	12 x 50	207.160.35.28
18	35	90	12 x 50	207.180.35.28
20	35	90	12 x 50	207.200.35.28
22	35	90	12 x 50	207.220.35.28
24	35	90	12 x 50	207.240.35.28
30	35	90	12 x 50	207.300.35.28
35	35	90	12 x 50	207.350.35.28
12	45	90	12 x 50	207.120.45.28
14	50	100	12 x 50	207.140.50.28
16	60	105	12 x 50	207.160.60.28

€



32

208

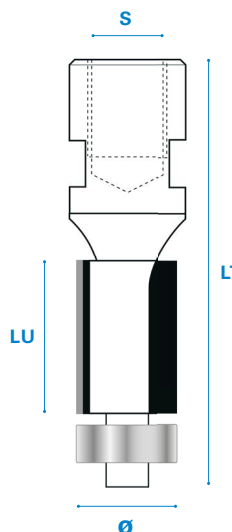
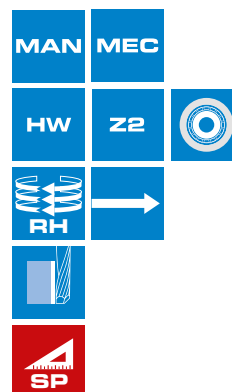
### FRESA A TAGLIENTI DIRITTI CON CUSCINETTO - M12 Elu®

Flush trim bit with ball bearing - M12 Elu®  
Bündigfräser mit Kugellager - M12 Elu®  
Fraise à affleurer avec roulement - M12 Elu®



Ø	LU	LT	S	CODE
19	25	70	M12 x 1	208.190.25.28
19	40	85	M12 x 1	208.190.40.28
19	50	95	M12 x 1	208.190.50.28

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Ø19/6 H6	904.190.06.00
d4,3 D9 S0,8	905.040.09.08
⌀3 M4x8	902.040.08.00

Optional	CODE
⌀3	903.030.00.00

## 208 B

**FRESA A TAGLIANTI DIRITTI CON CUSCINETTO E COLTELLI REVERSIBILI - M12 Elu®**

Flush trim bit with ball bearing and reversible knives - M12 Elu®  
 Bündigfräser mit Kugellager und Wendemesser - M12 Elu®  
 Fraise à affleurer à plaquettes réversibles avec roulement - M12 Elu®



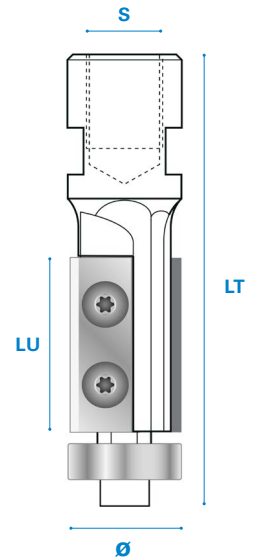
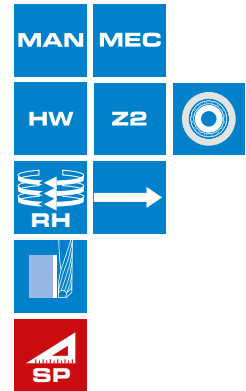
Ø	LU	LT	S	CODE
19	30	75	M12 x 1	208B.190.30.28
19	50	95	M12 x 1	208B.190.50.28

**Ricambi - Spare parts - Ersatzteile - Pièces de rechange**

	CODE
LU 30 30x12x1,5	901.300.12.00
LU 50 50x12x1,5	901.500.12.00
TORX®15 M4x6 D9 L8	902.040.06.90
Ø19/6 H6	904.190.06.00
d4,3 D9 S0,8	905.040.09.08
Ø 3 M4x8	902.040.08.00

**Optional**

	CODE
TORX®15	903.150.00.00
Ø 3	903.030.00.00



33

## 221

**FRESA A TAGLIANTI DIRITTI CON LAMA DI TESTA E COLTELLI REVERSIBILI**

Carbide Tipped Straight Plunge with reversible knives  
 Wendeplatten Nuträser mit Bohrschneide  
 Mèche à rainer à plaquettes réversibles avec coupe frontale



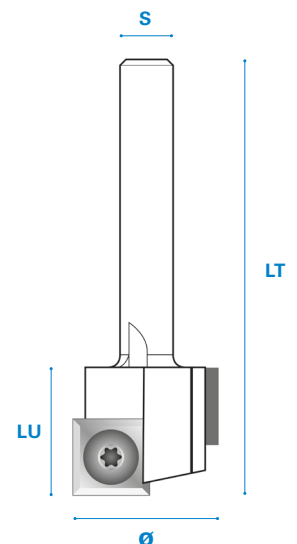
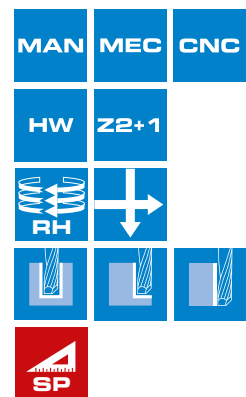
Ø	LU	LT	S	CODE
15	20	70	8	221.150.00800
15	20	70	12	221.150.01200
16	20	70	8	221.160.00800
16	20	70	12	221.160.01200
18	20	70	8	221.180.00800
18	20	70	12	221.180.01200
20	20	70	8	221.200.00800
20	20	70	12	221.200.01200
22	20	70	8	221.220.00800
22	20	70	12	221.220.01200
25	20	70	8	221.250.00800

**Ricambi - Spare parts - Ersatzteile - Pièces de rechange**

	CODE
12x12x1,5	901.120.12.00
TORX®15 M4x6 D9 L8	902.040.06.90

**Optional**

	CODE
TORX®15	903.150.00.00



230

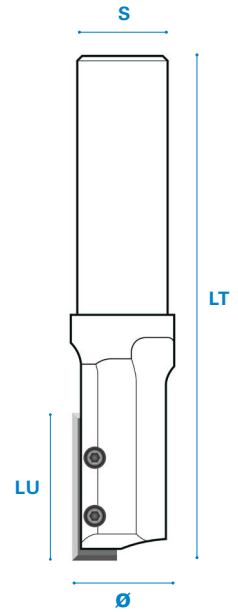
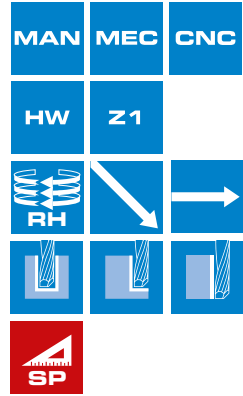
## FRESA A TAGLIANTE DIRITTO CON COLTELLO REVERSIBILE

Straight Router bit with reversible knife  
Nutfräser mit Wendemesser  
Mèches à rainer à plaquette réversible



∅	LU	LT	S	CODE
8	20	65	8	230.080.20008
10	20	65	8	230.100.20008
12	20	65	8	230.120.20008
14	30	75	8	230.140.30008
15	30	75	8	230.150.30008
16	30	75	8	230.160.30008
18	30	75	8	230.180.30008
20	30	75	8	230.200.30008
22	30	75	8	230.220.30008
8	20	75	12	230.080.20012
10	20	75	12	230.100.20012
12	20	75	12	230.120.20012
14	30	85	12	230.140.30012
15	30	85	12	230.150.30012
16	30	85	12	230.160.30012
18	30	85	12	230.180.30012
20	30	85	12	230.200.30012
22	30	85	12	230.220.30012
14	50	105	12	230.140.50012
16	50	105	12	230.160.50012
18	50	105	12	230.180.50012
20	50	105	12	230.200.50012
22	50	105	12	230.220.50012

€



34

230 M10

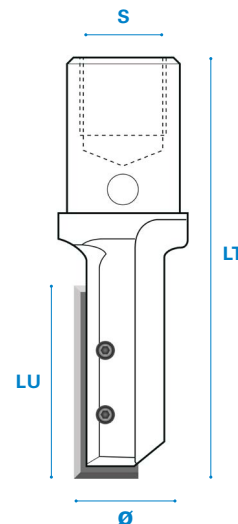
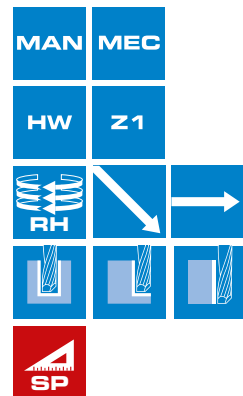
## FRESA A TAGLIANTE DIRITTO CON COLTELLO REVERSIBILE - M10 Scheer®

Straight Router bit with reversible knife - M10 Scheer®  
Nutfräser mit Wendemesser - M10 Scheer®  
Mèches à rainer à plaquette réversible - M10 Scheer®



∅	LU	LT	S	CODE
8	20	58	M10 x 1,5	230.080.20M10
10	20	58	M10 x 1,5	230.100.20M10
12	20	58	M10 x 1,5	230.080.20M10
14	30	65	M10 x 1,5	230.140.30M10
15	30	65	M10 x 1,5	230.150.30M10
16	30	65	M10 x 1,5	230.160.30M10
18	30	65	M10 x 1,5	230.180.30M10
20	30	65	M10 x 1,5	230.200.30M10
22	30	65	M10 x 1,5	230.220.30M10
14	50	85	M10 x 1,5	230.140.50M10
16	50	85	M10 x 1,5	230.160.50M10
18	50	85	M10 x 1,5	230.180.50M10
20	50	85	M10 x 1,5	230.200.50M10
22	50	85	M10 x 1,5	230.220.50M10

€



230 M12

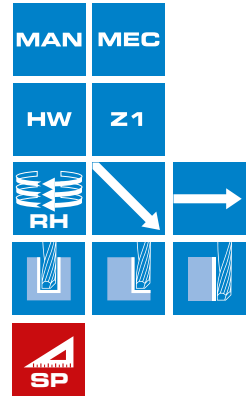
**FRESA A TAGLIANTE DIRITTO CON COLTELLO REVERSIBILE - M12 Elu®**

Straight Router bit with reversible knife - M12 Elu®  
 Nutfräser mit Wendemesser - M12 Elu®  
 Mèches à rainier à plaquette réversible - M12 Elu®



Ø	LU	LT	S	CODE
8	20	58	M12 x 1	230.080.20M12
10	20	58	M12 x 1	230.100.20M12
12	20	58	M12 x 1	230.080.20M12
14	30	65	M12 x 1	230.140.30M12
15	30	65	M12 x 1	230.150.30M12
16	30	65	M12 x 1	230.160.30M12
18	30	65	M12 x 1	230.180.30M12
20	30	65	M12 x 1	230.200.30M12
22	30	65	M12 x 1	230.220.30M12
14	50	85	M12 x 1	230.140.50M12
16	50	85	M12 x 1	230.160.50M12
18	50	85	M12 x 1	230.180.50M12
20	50	85	M12 x 1	230.200.50M12
22	50	85	M12 x 1	230.220.50M12

€



**TiN**

**VENDUTA CON COLTELLO RIVESTITO TiN**

TiN è da sempre un riferimento nel campo dell'asportazione truciolo, ma le sue proprietà suscitano molto interesse anche in tanti altri campi d'applicazione.

**SOLD WITH KNIFE TiN COATED**

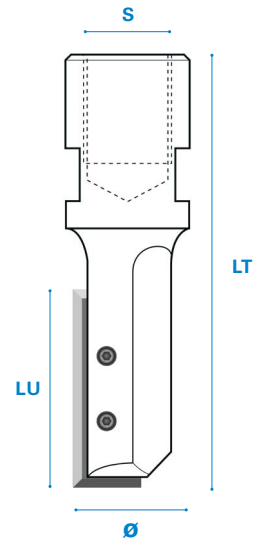
TiN has always been a reference in the field of cutting tools, and its properties also spark much interest in many other fields of application.

**VENDU AVEC PLAQUETTES REVÊTUE TiN**

TiN a toujours été une référence dans le domaine de l'enlèvement de copeaux, mais ses caractéristiques suscitent beaucoup d'intérêt dans de nombreux autres domaines d'application.

**WIRD MIT TiN-BESCHICHTUNG MESSER VERKAUFT**

TiN wurde schon immer im Bereich der Zerspänung als Referenz betrachtet, obwohl seine Eigenschaften es auch für andere Bereiche interessant machen.



230

230 M10

230 M12

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4 TiN	LU20	20x5,5x1,1	901.200.55.GT
	Z4	LU20	20x5,5x1,1	901.200.55.2G
	Z4 TiN	LU30	30x10x1,5	901.300.10.GT
	Z4	LU30	30x10x1,5	901.300.10.2G
	Z4 TiN	LU50	50x10x1,5	901.500.10.GT
		Ø8→12	∅ 1,3 M2,5x2	902.025.02.00
		Ø14→16	∅ 2 M4x4	902.040.04.00
		Ø18→22	∅ 2 M4x5	902.040.05.00

€



Optional	CODE
	Ø8→12 ∅ 1,3 903.013.00.00
	Ø14→22 ∅ 2 903.020.00.00



233






## FRESA A TAGLIANTE DIRITTO CON COLTELLO REVERSIBILE

Straight Router bit with reversible knife  
Nutzfräser mit Wendemesser  
Mèches à défoncer à plaquette réversible




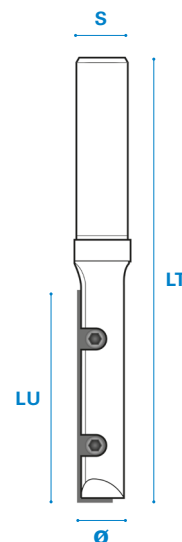
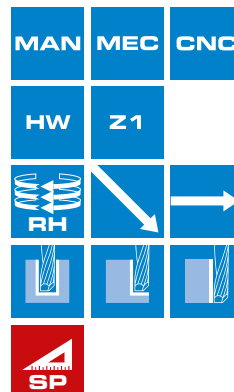
Ø	LU	LT	S	CODE
8	30	73	8 x 30	233.080.30098
10	30	73	8 x 30	233.100.30098
12	30	80	8 x 30	233.120.30098
12	40	80	8 x 30	233.120.40098
12	30	85	12 x 40	233.120.30912
12	50	105	12 x 40	233.120.50912

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4	Ø8-10	29,5x7x1,5	901.295.07.00
	Z4	Ø12 LU 30	29,5x9x1,5	901.295.09.00
	Z4	Ø12 LU 40	39,5x9x1,5	901.395.09.00
	Z4	Ø12 LU 50	49,5x9x1,5	901.495.09.00
	TORX®15 M3,5x4 D6 L6			902.035.04.60



Optional	CODE
 TORX®15	903.150.00.00



36

235

## FRESA A CODA DI RONDINE 15° CON COLTELLI REVERSIBILI PER SISTEMA ARUNDA®

Dovetail router bit 15° with reversible knives for ARUNDA® System  
Zinkenfräser 15° mit Wendemesser für ARUNDA® System  
Mèche à queue d'aronde 15° à plaquettes réversibles pour Système ARUNDA®





COMPATIBILE CON  
Compatible with  
Passend für  
Compatible avec




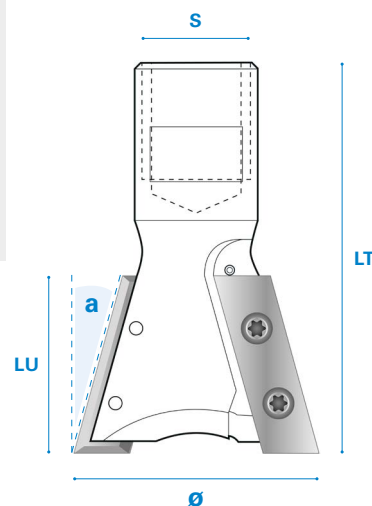
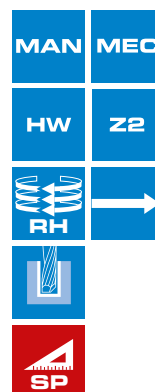
a	Ø	LU	LT	S	CODE
15°	39,5	31,5	65,5	M12 x 1	235.150.00.28

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		31,5x9x1,5	901.315.09.00
	TORX®15 M4x6 D5,6 L7,8			902.040.06.58



Optional	CODE
 TORX®15	903.150.00.00

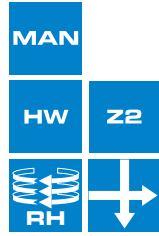


# 259

## FRESA PER SISTEMA DOMINO®

Router bit for DOMINO® System  
 Nutfräser für DOMINO® System  
 Fraise pour Système DOMINO®

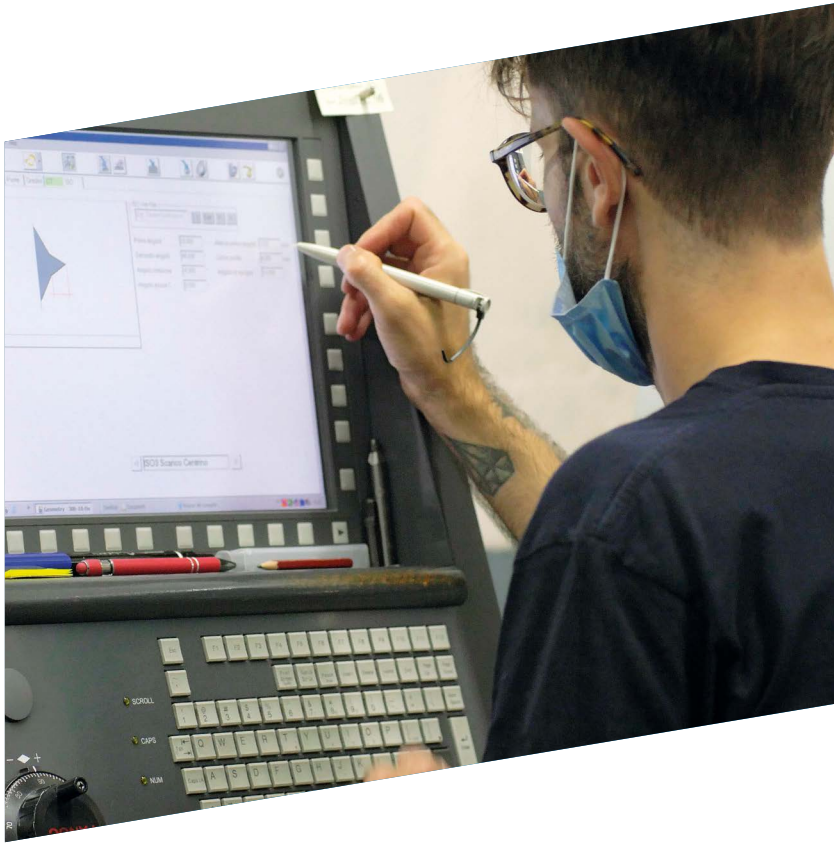
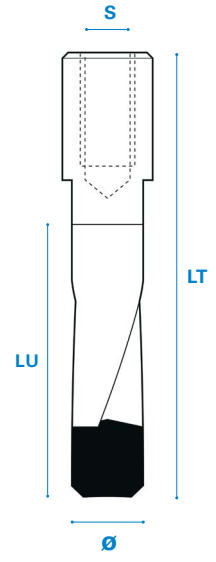
COMPATIBLE CON  
 Compatible with  
 Passend für  
 Compatible avec



Ø	LU	LT	S		CODE	€
4	11	49	M6 x 0,75	HWM	259.040.00.28	
5	20	49	M6 x 0,75		259.050.00.28	
6	28	49	M6 x 0,75		259.060.00.28	
8	28	49	M6 x 0,75		259.080.00.28	
10	28	49	M6 x 0,75		259.100.00.28	
8	50	90	M8 x 1		259.080.50.28	
10	70	90	M8 x 1		259.100.70.28	
12	70	90	M8 x 1		259.120.00.28	
14	70	90	M8 x 1		259.140.00.28	

FESTOOL DF500

FESTOOL DF700



262

P1



**FRESA PER PROFILI IN ALLUMINIO**

Router bit for ALU profiles  
Fräser für ALU Einhängprofil  
Fraise à rainier pour profilés ALU

COMPATIBILE CON  
Compatible with  
Passend für  
Compatible avec



BOHNACKER

**TYPE A (HW)**

Ø	d	LU	LT	S	CODE
26	12	14	50	8 x 30	262.P1A26/12S8

**TYPE B (A COLTELLI - WITH KNIVES - À PLAQUETTES - MIT WECHSELPLATTEN)**

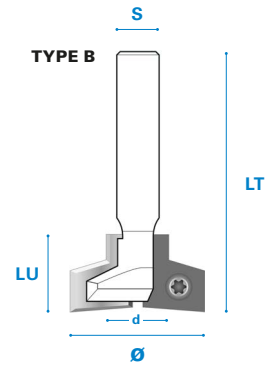
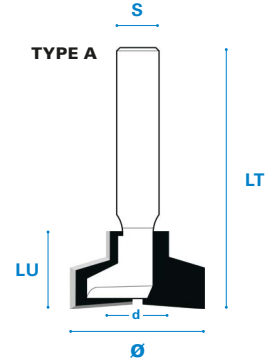
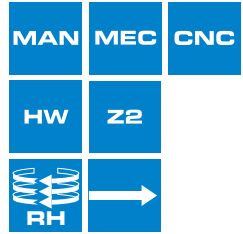
Ø	d	LU	LT	S	CODE
26	12	14	50	8 x 30	262.P1B26/12S8

Ricambi - Spare parts - Ersatzteile - Pièces de rechange

	CODE
TYPE B	901.000.00.P1
TYPE B	TORX®15 M3,5x4 D6 L8 902.035.06.60

Optional

	CODE
TYPE B	TORX®15 903.150.00.00



38

P2

COMPATIBILE CON  
Compatible with  
Passend für  
Compatible avec

**HÄFELE** Display 150

**TYPE A (HW)**

Ø	d	LU	LT	S	CODE
27	8,3	12,2	45	8 x 30	262.P2A27/8,3S8

**TYPE B (A COLTELLI - WITH KNIVES - À PLAQUETTES - MIT WECHSELPLATTEN)**

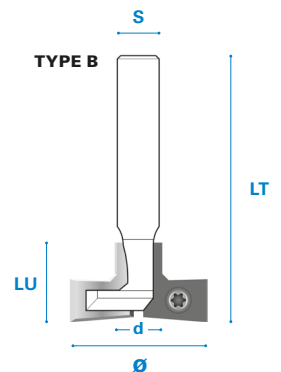
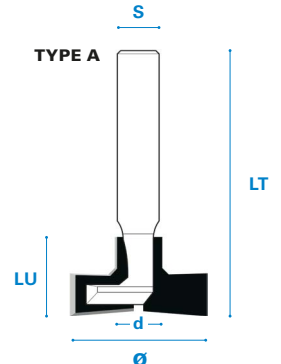
Ø	d	LU	LT	S	CODE
27	8,3	12,2	45	8 x 30	262.P2B27/8,3S8

Ricambi - Spare parts - Ersatzteile - Pièces de rechange

	CODE
TYPE B	901.000.00.P2
TYPE B	TORX®15 M3,5x4 D6 L8 902.035.06.60

Optional

	CODE
TYPE B	TORX®15 903.150.00.00

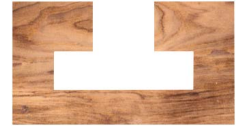


Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P3.000.00

P3



€



Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P4.000.00

P4



Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P5.000.00

P5



Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P6.000.00

P6



Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P7.000.00

P7



Ø	d	LU	S	CODE
20-40	8-12	on request	8-20	262.P8.000.00

P8



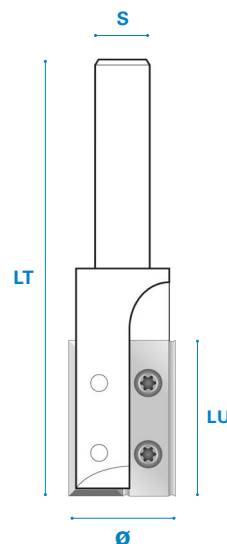
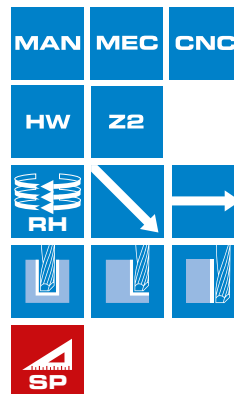
270

### FRESA A TAGLIENTI DIRITTI CON COLTELLI REVERSIBILI

Straight Router bit with reversible knives  
Nutfräser mit Wendemesser  
Mèches à rainer à plaquettes réversibles



Ø	LU	LT	S	CODE	€
14	19,5	65	8 x 30	270.140.20008	€
15	19,5	65	8 x 30	270.150.20008	
16	19,5	65	8 x 30	270.160.20008	
18	19,5	65	8 x 30	270.180.20008	
20	19,5	65	8 x 30	270.200.20008	
22	19,5	65	8 x 30	270.220.20008	
24	19,5	65	8 x 30	270.240.20008	
14	29,5	75	8 x 30	270.140.30008	
15	29,5	75	8 x 30	270.150.30008	
16	29,5	75	8 x 30	270.160.30008	
18	29,5	75	8 x 30	270.180.30008	
20	29,5	75	8 x 30	270.200.30008	
22	29,5	75	8 x 30	270.220.30008	
14	29,5	80	12 x 40	270.140.30012	
15	29,5	80	12 x 40	270.150.30012	
16	29,5	80	12 x 40	270.160.30012	
18	29,5	80	12 x 40	270.180.30012	
20	29,5	80	12 x 40	270.200.30012	
22	29,5	80	12 x 40	270.220.30012	
24	29,5	80	12 x 40	270.240.30012	
25	29,5	80	12 x 40	270.250.30012	



40

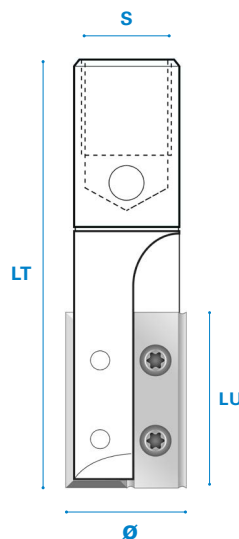
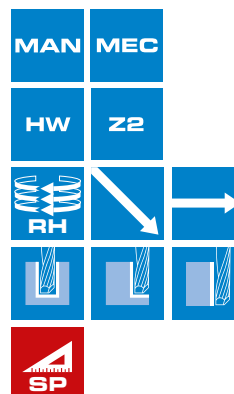
270 M10

### FRESA A TAGLIENTI DIRITTI CON COLTELLI REVERSIBILI - M10 Scheer®

Straight Router bit with reversible knives - M10 Scheer®  
Nutfräser mit Wendemesser - M10 Scheer®  
Mèches à rainer à plaquettes réversibles - M10 Scheer®



Ø	LU	LT	S	CODE	€
14	29,5	70	M10 x 1,5	270.140.30M10	€
15	29,5	70	M10 x 1,5	270.150.30M10	
16	29,5	70	M10 x 1,5	270.160.30M10	
18	29,5	70	M10 x 1,5	270.180.30M10	
20	29,5	70	M10 x 1,5	270.200.30M10	
22	29,5	70	M10 x 1,5	270.220.30M10	
24	29,5	70	M10 x 1,5	270.240.30M10	
25	29,5	70	M10 x 1,5	270.250.30M10	



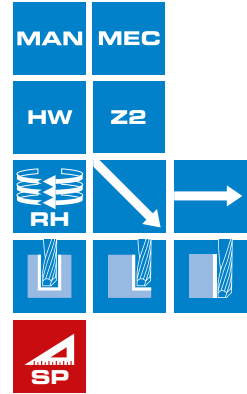
# 270 M12

## FRESA A TAGLIENTI DIRITTI CON COLTELLI REVERSIBILI - M12 Elu®

Straight Router bit with reversible knives - M12 Elu®  
Nutfräser mit Wendemesser - M12 Elu®  
Mèches à rainer à plaquettes réversibles - M12 Elu®



Ø	LU	LT	S	CODE
14	29,5	70	M12 x 1	270.140.30M12
15	29,5	70	M12 x 1	270.150.30M12
16	29,5	70	M12 x 1	270.160.30M12
18	29,5	70	M12 x 1	270.180.30M12
20	29,5	70	M12 x 1	270.200.30M12
22	29,5	70	M12 x 1	270.220.30M12
24	29,5	70	M12 x 1	270.240.30M12
25	29,5	70	M12 x 1	270.250.30M12

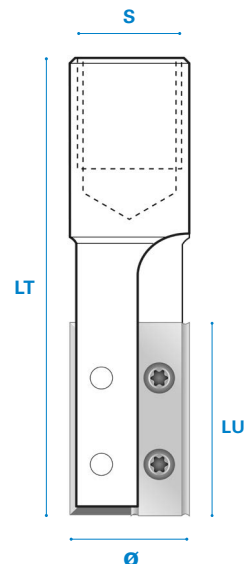


### 270 270 M10 270 M12

	Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
LU 19,5	Z4 Ø14 19,5x7x1,5 901.195.07.00	
	Z4 Ø15 19,5x7,5x1,5 901.195.75.00	
	Z4 Ø16 19,5x8x1,5 901.195.08.00	
	Z4 Ø18 19,5x9x1,5 901.195.09.2G	
	Z4 Ø20 19,5x10x1,5 901.195.10.2G	
	Z4 Ø22 19,5x11x1,5 901.195.11.2G	
	Z4 Ø24-25 19,5x12x1,5 901.195.12.2G	
LU 29,5	Z4 Ø14 29,5x7x1,5 901.295.07.00	
	Z4 Ø15 29,5x7,5x1,5 901.295.75.00	
	Z4 Ø16 29,5x8x1,5 901.295.08.00	
	Z4 Ø18 29,5x9x1,5 901.295.09.2G	
	Z4 Ø20 29,5x10x1,5 901.295.10.2G	
	Z4 Ø22 29,5x11x1,5 901.295.11.2G	
	Z4 Ø24-25 29,5x12x1,5 901.295.12.2G	
Ø14-15 TORX®15 M3,5x4 D6 L6 902.035.04.60		
Ø16→25 TORX®15 M4x6 D5,6 L7,8 902.040.06.58		



Optional	CODE
TORX®15	903.150.00.00



501

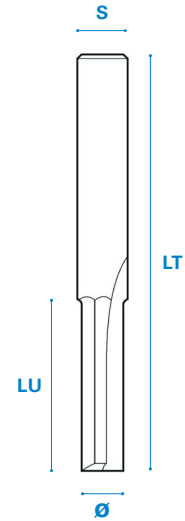
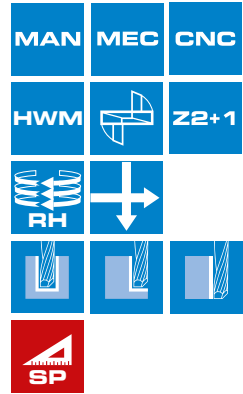
**FRESA A TAGLIANTI DIRITTI**

*Straight Plunge*  
*Nutfräser*  
*Fraise à rainier à coupes droites*



Ø	LU	LT	S	CODE
2	8	50	6	501.020.08600
2	8	50	8	501.050.08800
3	10	50	6	501.030.10600
3	10	50	8	501.030.10800
4	12	50	6	501.040.12600
4	12	50	8	501.040.12800
5	15	50	6	501.050.15600
5	15	50	8	501.050.15800
6	20	50	6	501.060.20600
6	20	50	8	501.060.20800

€



42

501 B

**FRESA ELICOIDALE PER FINITURA**

*Finishing Spiral bit*  
*Schlichtfräser*  
*Fraise à rainier à coupes hélicoïdales*



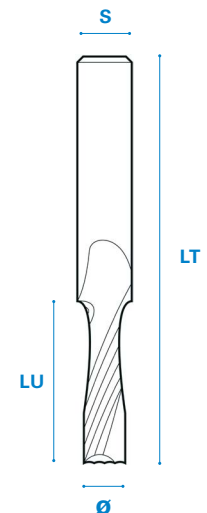
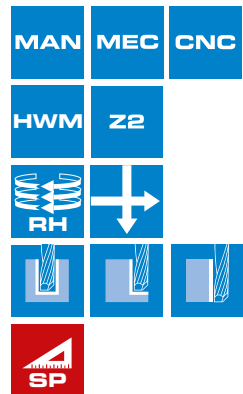
①

Ø	LU	LT	S	CODE
2	6	50	6	501B.020.6.D8
3	12	50	6	501B.030.6.D8
4	15	50	6	501B.040.6.D8
5	17	50	6	501B.050.6.D8
3	12	50	8	501B.030.8.D8
4	15	50	8	501B.040.8.D8
5	17	50	8	501B.050.8.D8
6	15	50	8	501B.060.8.D8

②

Ø	LU	LT	S	CODE
2	6	50	6	501B.020.6.S8
3	12	50	6	501B.030.6.S8
4	15	50	6	501B.040.6.S8
5	17	50	6	501B.050.6.S8
3	12	50	8	501B.030.8.S8
4	15	50	8	501B.040.8.S8
5	17	50	8	501B.050.8.S8
6	15	50	8	501B.060.8.S8

€



①

②

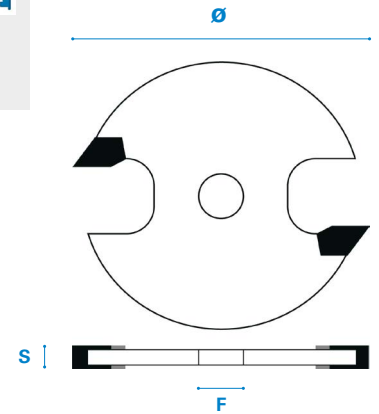
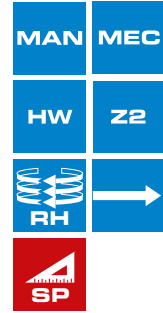
# 507

## FRESA A DISCO PER INCASTRI

Grooving cutter  
Scheibennutfräser  
Disque à rainer



S	Ø	F	CODE
1,5	40	6	507.015.00600
1,8	40	6	507.018.00600
2,0	40	6	507.020.00600
2,2	40	6	507.022.00600
2,5	40	6	507.025.00600
2,8	40	6	507.028.00600
3,0	40	6	507.030.00600
3,5	40	6	507.035.00600
4,0	40	6	507.040.00600
5,0	40	6	507.050.00600
6,0	40	6	507.060.00600



# 509

## MANDRINO CON CUSCINETTO

Arbor with ball bearing  
Aufnahmedorn mit Kugellager  
Arbre avec roulement



UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

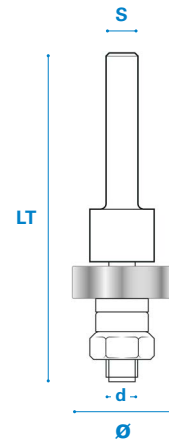
507



Ø	d	LT	S	CODE
16	6	62	8 x 30	509.060.16800
19	6	62	6 x 30	509.060.00600
19	6	62	8 x 30	509.060.00800



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Ø16	Ø16/6 H5 904.160.06.00
Ø19	Ø19/6 H6 904.190.06.00
	10x6x3 905.060.10.30
	10x6x4 905.060.10.40
	M6x6 902.060.00.DE



# 510

## MANDRINO

Arbor  
Aufnahmedorn  
Arbre



UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

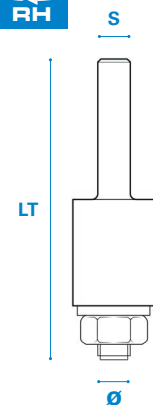
507



Ø	LT	S	CODE
6	62	6 x 30	510.060.00600
6	62	8 x 30	510.060.00800



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
	d6,1 D12 S1 905.060.12.10
	M6x6 902.060.00.DE





511

## RIFILATORE CON CUSCINETTO E COLTELLI REVERSIBILI

Flush trim bit with ball bearing and reversible knives  
Bündigfräser mit Kugellager und Wendemesser  
Fraise à affleurer avec roulement à paquettes réversibles



Ø	LU	LT	S	CODE
16	12	52	8 x 30	511.160.12800
19	12	55	6 x 30	511.190.12600
19	12	55	8 x 30	511.190.12800
22	12	55	8 x 30	511.220.12800
16	19,5	60	8 x 30	511.160.20800
16	29,5	70	8 x 30	511.160.30800
19	30	73	6 x 30	511.190.30600
19	30	73	8 x 30	511.190.30800
19	30	90	12 x 40	511.190.30120
22	30	73	8 x 30	511.220.30800
19	40	83	8 x 30	511.190.40800
19	50	110	12 x 40	511.190.50120

€

MAN

HW

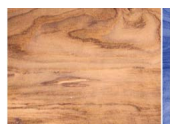
Z2



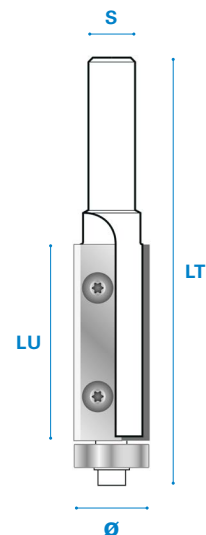
Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE	
Ø16		Z2	LU 12	12x9x1,5	901.120.09.00
		Z4	LU 19,5	19,5x9x1,5	901.195.09.00
		Z4	LU 29,5	29,5x9x1,5	901.295.09.00
Ø19-22		Z4	LU 12	12x12x1,5	901.120.12.00
		Z2	LU 30	30x12x1,5	901.300.12.00
		Z2	LU 40	40x12x1,5	901.400.12.00
		Z2	LU 50	50x12x1,5	901.500.12.00
			Ø16	TORX®15 M4x4 D5,6 L6,2	902.040.04.58
			Ø19-22	TORX®15 M4x6 D9 L8	902.040.06.90
			Ø16	Ø16/5 H5	904.160.05.00
			Ø19	Ø19/6 H6	904.190.06.00
			Ø22	Ø22/6 H7	904.220.06.00
			Ø16	d3,2 D7 S0,5	905.030.07.05
			Ø19-22	d4,3 D9 S0,8	905.040.09.08
			Ø16	○ 2,5 M3x6	902.030.06.00
			Ø19-22	○ 3 M4x8	902.040.08.00



44



Optional	CODE
TORX®15	903.150.00.00
Ø16	○ 2,5 903.025.00.00
Ø19-22	○ 3 903.030.00.00



## 511 B







**RIFILATORE CON CUSCINETTO  
E COLTELLO REVERSIBILE**

Flush trim bit with ball bearing and reversible knife  
Bündigfräser mit Kugellager und Wendemesser  
Fraise à affleurer avec roulement à palette réversible




Ø	LU	LT	S	CODICE
12	25	70	8	511B.120.0800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 	Z4	25x5,5x1,1	901.250.55.00
			906.250.07.04
		TORX®9 M3x4,5 D4 L7	902.030.45.40
		Ø12/4 H4	904.120.04.00
		M4x4	902.040.00.DE

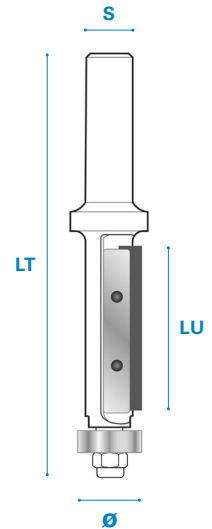


Optional		CODE
	TORX®9	903.003.09.00

MAN

HW

Z1

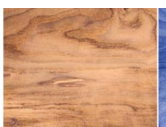


45

## 511 C







**RIFILATORE CON DOPPIO CUSCINETTO  
E COLTELLI REVERSIBILI**

Flush trim bit with double ball bearing and reversible knives  
Bündigfräser mit Doppelkugellager und Wendemesser  
Fraise à affleurer avec double roulements à palettes réversibles





Ø	LU	LT	S	CODICE
19	50	115	12 x40	511C.190.5012

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
 	Z2	50x12x1,5	901.500.12.00
		TORX®15 M4x6 D9 L8	902.040.06.90
		Ø19/6 H6	904.190.06.00
		d4,3 D9 S0,8	905.040.09.08
		∅3 M4x8	902.040.08.00

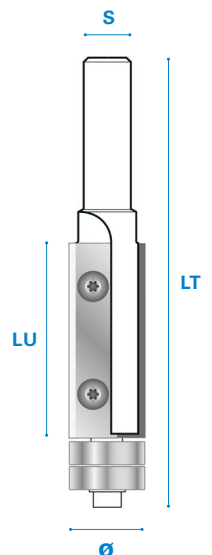


Optional		CODE
	TORX®15	903.150.00.00
	∅3	903.030.00.00

MAN

HW

Z2



## 511 D

**RIFILATORE CON ANGOLO ASSIALE NEGATIVO, CUSCINETTO E COLTELLI REVERSIBILI**

Flush trim bit with negative shear angle, ball bearing and reversible knives  
 Bündigfräser mit negativem Achswinkel, Kugellager und Wendemesser  
 Fraise à affleurer avec angle d'axe négatif, roulement et plaquettes réversibles



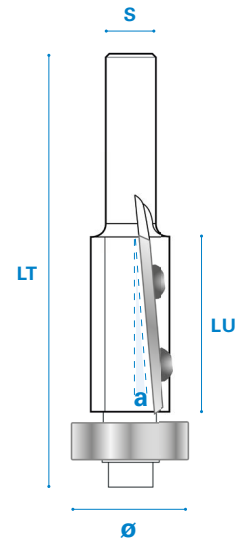
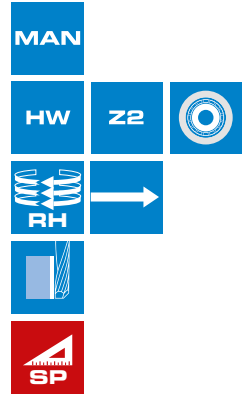
Ø	LU	LT	a	S	CODE
19	29,5	72	5°	8 x 30	511D.190.30800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4	29,5x9x1,5		901.295.09.00
		TORX®15 M4x4 D5,6 L6,2		902.040.04.58
		Ø19/6 H6		904.190.06.00
		d4,3 D9 S0,8		905.040.09.08
		Ø 3 M4x8		902.040.08.00



Optional		CODE
	TORX®15	903.150.00.00
	Ø 3	903.030.00.00



46

## 512

**FRESA PER SMUSSI CON CUSCINETTO E COLTELLI REVERSIBILI**

Chamfer router bit with ball bearing and reversible knife  
 Fasefräser mit Kugellager und Wendemesser  
 Fraise à chanfreiner avec roulement et plaquettes réversibles



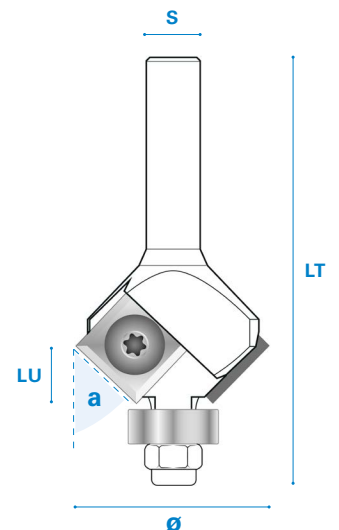
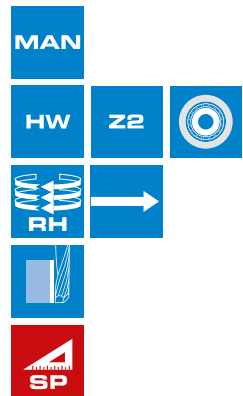
a	Ø	LU	LT	S	CODE
10°	22	11,8	60	6 x 30	512.100.00600
10°	22	11,8	60	8 x 30	512.100.00800
22°	26	11	60	6 x 30	512.220.00600
22°	26	11	60	8 x 30	512.220.00800
30°	29	10	60	6 x 30	512.300.00600
30°	29	10	60	8 x 30	512.300.00800
45°	29	6,5	60	6 x 30	512.450.00600
45°	29	6,5	60	8 x 30	512.450.00800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4	12x12x1,5		901.120.12.00
		TORX®15 M4x6 D9 L8		902.040.06.90
	45°	Ø16/5 H5		904.160.05.00
	10°-22°-30°	Ø19/6 H6		904.190.06.00
	45°	M5		902.050.00.DA
	10°-22°-30°	M6		902.060.00.DA



Optional		CODE
	TORX®15	903.150.00.00



## 512 B






### FRESA PER SMUSSI CON CUSCINETTO E COLTELLI REVERSIBILI

Chamfer router bit with ball bearing and reversible knives  
 Fasefräser mit Kugellager und Wendemesser  
 Fraise à chanfreiner avec roulement et plaquettes réversibles






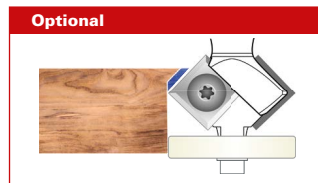
a	∅	LU	LT	S	CODE
45°	29	7	60	8 x 30	512B.450.0800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
 x4	Z4		12x12x1,5	901.120.12.00
			TORX®15 M4x6 D9 L8	902.040.06.90
			∅16/5 H5	904.160.05.00
			d3,2 D7 S0,5	905.030.07.05
			∅ 2,5 M3x6	902.030.06.00



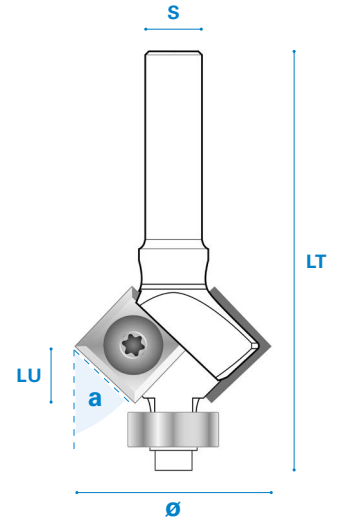
Optional		CODE
	TORX®15	903.150.00.00
	∅ 3	903.030.00.00
	Delrin® ∅29/5	904.290.00.05



MAN

HW

Z2



47

## 513




### FRESA A CODA DI RONDINE CON COLTELLI REVERSIBILI

Dovetail router bit with reversible knives  
 Zinkenfräser mit Wendemesser  
 Mèche à queue d'aronde à plaquettes réversibles




a	∅	LU	LT	S	CODE
5°	22	24	70	12 x 40	513.050.01200
15°	28	24	60	8 x 30	513.150.00800
15°	28	24	70	12 x 40	513.150.01200

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
 x2	Z4	5°	29,5x9x1,5	901.295.09.05
 x2	Z4	15°	29,5x9x1,5	901.295.09.15
			TORX®15 M3,5x6 D6 L8	902.035.06.60



Optional		CODE
	TORX®15	903.150.00.00



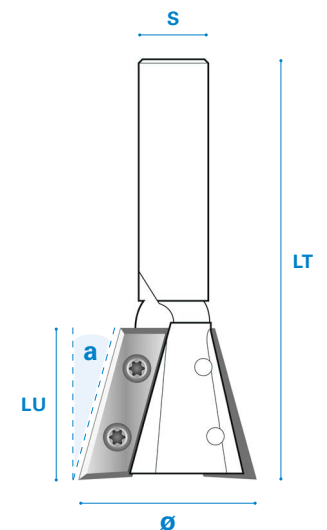
MAN

MEC

CNC

HW

Z2



521

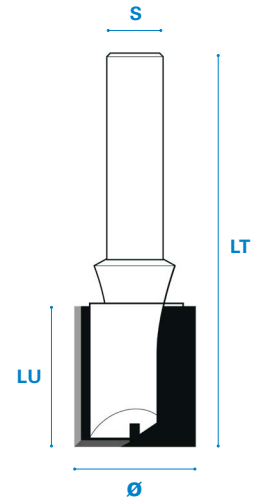
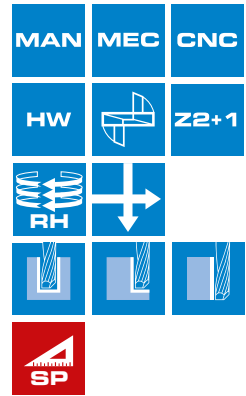
### FRESA A TAGLIENTI DIRITTI CON LAMA DI TESTA

Carbide Tipped Straight Plunge  
Nutfräser mit Bohrschneide  
Mèche à rainier avec coupe frontale



Ø	LU	LT	S	CODE
8	20	55	6 x 30	521.080.20600
8	20	55	8 x 30	521.080.20800
10	20	55	6 x 30	521.100.20600
10	20	55	8 x 30	521.100.20800
11	20	55	6 x 30	521.110.20600
11	20	55	8 x 30	521.110.20800
12	20	55	6 x 30	521.120.20600
12	20	55	8 x 30	521.120.20800
14	20	55	6 x 30	521.140.20600
14	20	55	8 x 30	521.140.20800
15	20	55	6 x 30	521.150.20600
15	20	55	8 x 30	521.150.20800
16	20	55	6 x 30	521.160.20600
16	20	55	8 x 30	521.160.20800
18	20	55	6 x 30	521.180.20600
18	20	55	8 x 30	521.180.20800
20	20	55	6 x 30	521.200.20600
20	20	55	8 x 30	521.200.20800
22	20	55	6 x 30	521.220.20600
22	20	55	8 x 30	521.220.20800
24	20	55	6 x 30	521.240.20600
24	20	55	8 x 30	521.240.20800
25	20	55	6 x 30	521.250.20600
25	20	55	8 x 30	521.250.20800
8	30	65	6 x 30	521.080.30600
8	30	65	8 x 30	521.080.30800
10	30	65	6 x 30	521.100.30600
10	30	65	8 x 30	521.100.30800
12	30	65	6 x 30	521.120.30600
12	30	65	8 x 30	521.120.30800

€



48

524

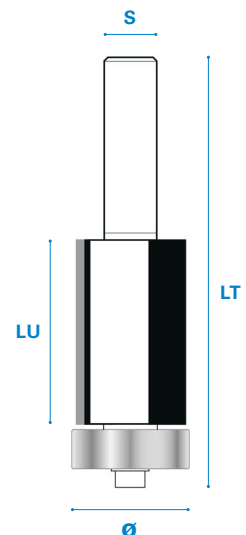
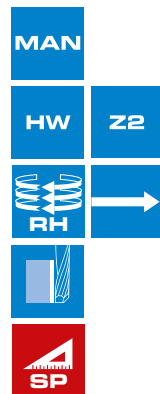
### RIFILATORE CON CUSCINETTO

Flush trim bit with ball bearing  
Bündigfräser mit Kugellager  
Fraise à affleurer avec roulement



Ø	LU	LT	S	CODE
10	16	55	6 x 30	524.100.16600
10	16	55	8 x 30	524.100.16800
13	16	55	6 x 30	524.130.16600
13	16	55	8 x 30	524.130.16800
16	16	55	6 x 30	524.160.16600
16	16	55	8 x 30	524.160.16800
19	16	58	6 x 30	524.190.16600
19	16	58	8 x 30	524.190.16800
10	25	64	6 x 30	524.100.25600
13	30	70	6 x 30	524.130.30600
19	30	75	6 x 30	524.190.30600
19	30	75	8 x 30	524.190.30800
19	50	102	12 x 40	524.190.50120

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Ø10	Ø10/5 H4 904.100.05.00
Ø13	Ø13/5 H4 904.130.05.00
Ø16	Ø16/5 H5 904.160.05.00
Ø19	Ø19/6 H6 904.190.06.00
Ø10→16	d3,2 D7 S0,5 905.030.07.05
Ø19	d4,3 D9 S0,8 905.040.09.08
Ø10→16	○ 2,5 M3x6 902.030.06.00
Ø19	○ 3 M4x8 902.040.08.00

Optional	CODE
Ø10→16	○ 2,5 903.025.00.00
Ø19	○ 3 903.030.00.00

## 524 B




RIFILATORE CON ANGOLO ASSIALE NEGATIVO  
E CUSCINETTO

Flush trim bit with negative shear angle and ball bearing  
Bündigfräser mit negativen Achswinkel und Kugellager  
Fraise à affleurer avec angle d'axe négatif et roulement



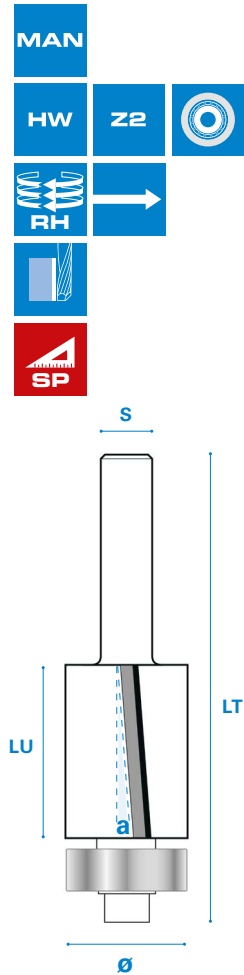
Ø	LU	LT	a	S	CODE
19	25	68	3°	8 x 30	524B.190.25.08
19	50	102	3°	12 x 40	524B.190.50.12

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
 Ø19/6 H6	904.190.06.00
 d4,3 D9 S0,8	905.040.09.08
 ⌀3 M4x8	902.040.08.00



Optional	CODE
 ⌀3	903.030.00.00



49

## 527

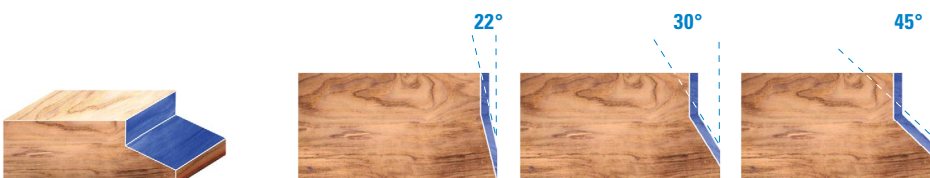
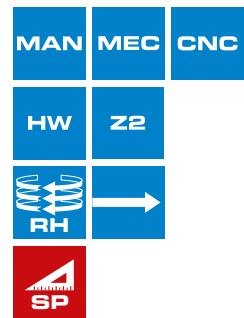
## FRESA PER SMUSSI

Chamfer router bit  
Fase Bündigfräser  
Fraise à chanfreiner



a	Ø	LU	LT	S	CODE
22°	12	12	42	6 x 30	527.220.00600
22°	12	12	42	8 x 30	527.220.00800
30°	12	12	42	6 x 30	527.300.00600
30°	12	12	42	8 x 30	527.300.00800
45°	12	12	42	6 x 30	527.450.00600
45°	12	12	42	8 x 30	527.450.00800

€



528

## FRESA PER SMUSSI CON CUSCINETTO

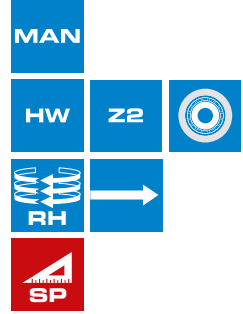
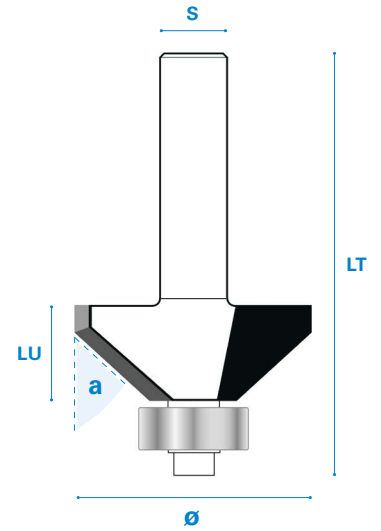
Chamfer router bit with ball bearing  
 Fasefräser mit Kugellager  
 Fraise à chanfreiner avec roulement



a	∅	LU	LT	S	CODE
15°	19	12	51	6 x 30	528.150.00600
15°	19	12	51	8 x 30	528.150.00800
30°	23	12	51	6 x 30	528.300.00600
30°	23	12	51	8 x 30	528.300.00800
45°	28	12	51	6 x 30	528.450.00600
45°	28	12	51	8 x 30	528.450.00800
45°	48	20	70	12 x 40	528.450.01200



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
∅13/5 H4	904.130.05.00
d3,2 D7 S0,5	905.030.07.05
∅ 2,5 M3x6	902.030.06.00
Optional	CODE
∅ 2,5	903.025.00.00



50

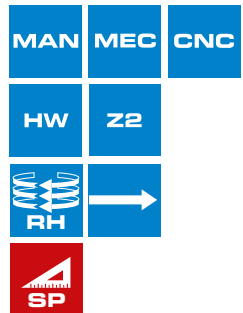
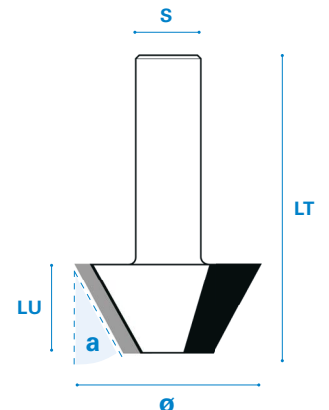
529

## FRESA PER SMUSSI

Chamfer router bit  
 Fasefräser  
 Fraise à chanfreiner



a	∅	LU	LT	S	CODE
15°	24	14	45	6 x 30	529.150.00600
15°	24	12	45	8 x 30	529.150.00800
30°	24	12	45	6 x 30	529.300.00600
30°	24	12	45	8 x 30	529.300.00800
45°	24	9	40	6 x 30	529.450.00600
45°	24	9	40	8 x 30	529.450.00800



531

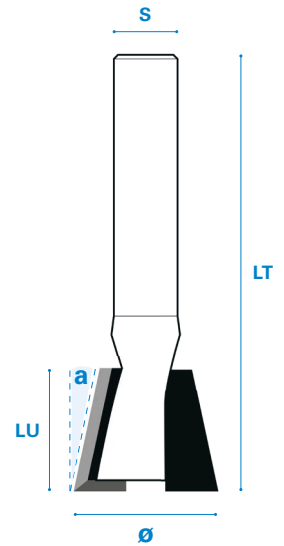
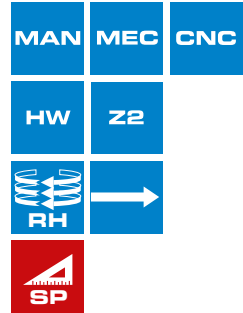
**FRESA A CODA DI RONDINE**

Dovetail router bit  
Zinkenfräser  
Mèche à queue d'aronde



a	∅	LU	LT	S	CODE
10°	11	13	45	6 x 30	531.110.00600
10°	11	13	45	8 x 30	531.110.00800
10°	14	16	48	6 x 30	531.140.00600
10°	14	16	48	8 x 30	531.140.00800
10°	16	18	50	8 x 30	531.160.00600
10°	16	18	50	8 x 30	531.160.00800

€



51

532

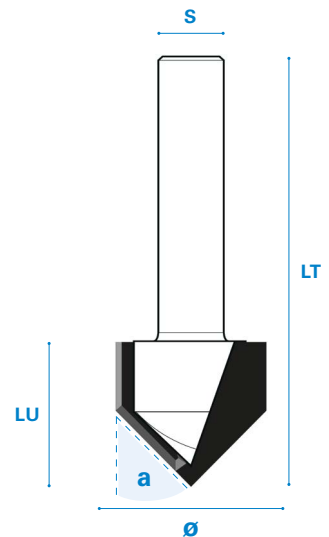
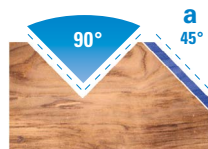
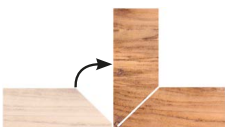
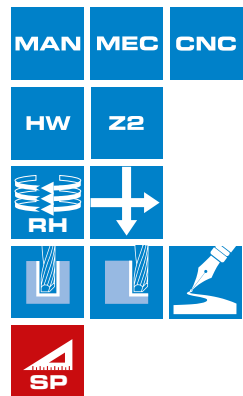
**FRESA PER SCANALATURE A V, SCRITTURA, SMUSSI E FOLDING**

V-groove, Lettering, Chamfer and Folding router bit  
V-Nut, Schriftenfräser, Fase und Foldingfräser  
Fraise à rainier en V, à graver, à chanfreiner



a	∅	LU	LT	S	CODE
30°	11	13	45	6 x 30	532.110.00600
30°	11	13	45	8 x 30	532.110.00800
45°	14	13	48	6 x 30	532.140.00600
45°	14	13	48	8 x 30	532.140.00800
45°	31,4	22	53	8 x 30	532.314.00800

€





543

### FRESA A TAGLIENTI DIRITTI CON COLTELLI REVERSIBILI

Straight Router bit with reversible knives  
Wendeplatten Bündigfräser  
Mèches à défoncer à plaquettes réversibles



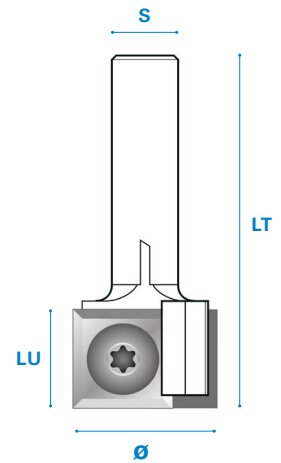
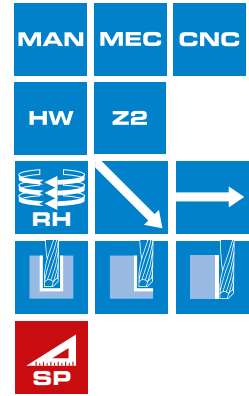
Ø	LU	LT	S	CODE
19	12	43	6 x 30	543.190.00600
19	12	43	8 x 30	543.190.00800
19	29,5	62	8 x 30	543.190.30800
19	29,5	62	12 x 40	543.190.30120
19	49,5	100	12 x 40	543.190.50120

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
x4	Z4		12x12x1,5	901.120.12.00
x2	Z4		29,5x12x1,5	901.295.12.00
x2	Z4		49,5x12x1,5	901.495.12.00
			TORX®15 M4x6 D9 L8	902.040.06.90



Optional	CODE
TORX®15	903.150.00.00



52

544

### FRESA PER SMUSSI A COLTELLI REVERSIBILI

Chamfer router bit with reversible knife  
Fasefräser mit Wendemesser  
Fraise à chanfreiner avec plaquettes réversibles



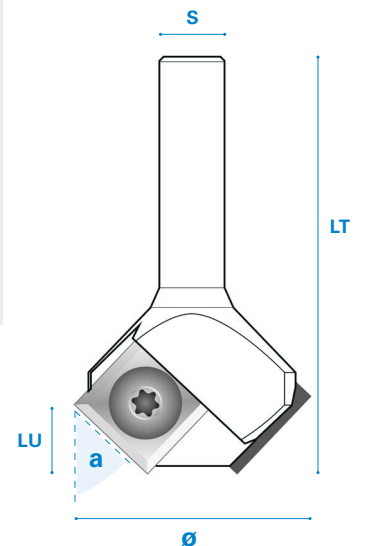
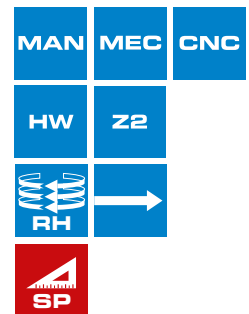
a	Ø	LU	LT	S	CODE
10°	22	11,8	52	6 x 30	544.100.00600
10°	22	11,8	52	8 x 30	544.100.00800
22°	26	11,1	52	6 x 30	544.220.00600
22°	26	11,1	52	8 x 30	544.220.00800
30°	29	10,4	52	6 x 30	544.300.00600
30°	29	10,4	52	8 x 30	544.300.00800
45°	29	8,5	52	6 x 30	544.450.00600
45°	29	8,5	52	8 x 30	544.450.00800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
x4	Z4		12x12x1,5	901.120.12.00
			TORX®15 M4x6 D9 L8	902.040.06.90



Optional	CODE
TORX®15	903.150.00.00



# 546

## RIFILATORE CON ANGOLI ASSIALI ALTERNATI, CUSCINETTO E COLTELLI REVERSIBILI

Compression Flush trim bit with ball bearing and reversible knives  
 Wende-Bündigfräser mit wechselseitigem Achswinkel und Kugellager  
 Fraise à affleurer à plaquettes réversibles avec angle d'axe dessus et dessous et roulement



### TYPE A

Ø	LU	LT	S	CODE	€
22	12/30	75	8 x 30	546.120.30800	

### TYPE B

Ø	LU	LT	S	CODE	€
22	30/45	90	8 x 30	546.300.45800	

### Ricambi - Spare parts - Ersatzteile - Pièces de rechange

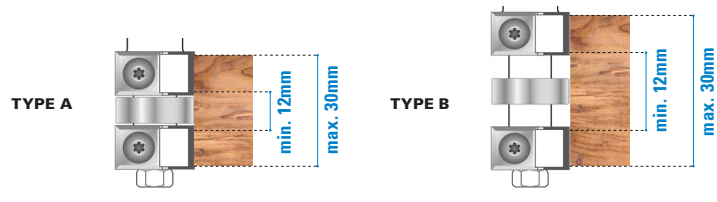
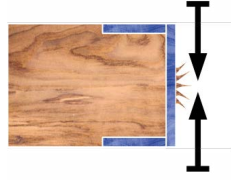
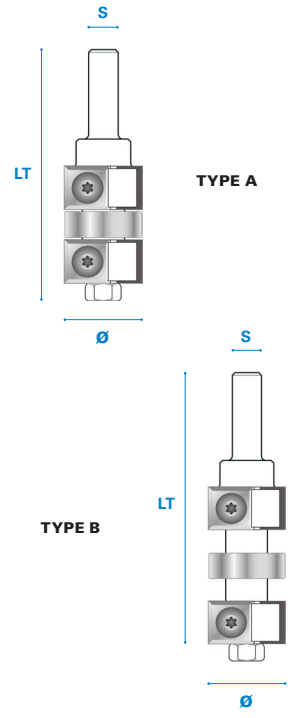
	CODE	€
Z4	12x12x1,5	901.120.12.00
TORX®15 M4x4 D9 L6		902.040.04.90
TORX®15 M4x6 D9 L8		902.040.06.90
Ø22/8 H7		904.220.08.00
TYPE B	11x8x7,5	905.080.11.75
M6		902.060.00.DA

### Optional

Optional	CODE	€
TORX®15	903.150.00.00	



MAN  
 HW Z2/4



# 555

## FRESA PER BATTUTE CON CUSCINETTO

Rabbet router bit with ball bearing  
 Falzfräser mit Kugellager  
 Fraise à feuillurer avec roulement



Ø	LU	LT	d	B	S	CODE	€
32	13	55	13-10	9,5-11	6 x 30	555.320.00600	
32	13	55	13-10	9,5-11	8 x 30	555.320.00800	

### Ricambi - Spare parts - Ersatzteile - Pièces de rechange

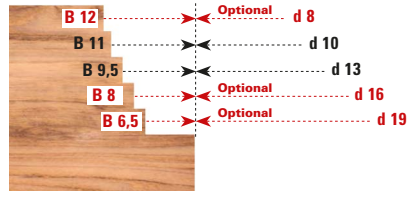
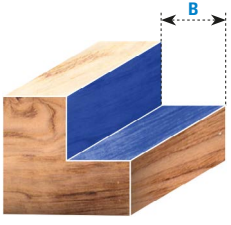
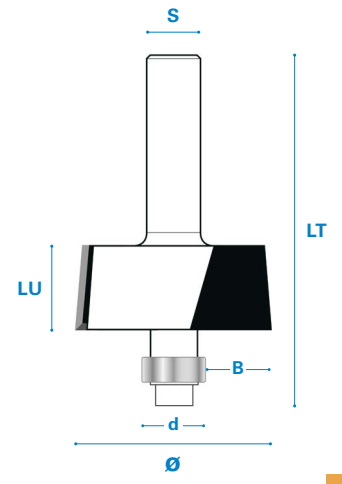
	CODE	€
B 9,5	Ø13/5 H4	904.130.05.00
B 11	Ø10/5 H4	904.100.05.00
d3,2 D7 S0,5		905.030.07.05
Ø 2,5 M3x6		902.030.06.00

### Optional

Optional	CODE	€
d8 B12 + d16 B8 + d19 B6,5	904.555.05.03	
Ø 2,5	903.025.00.00	



MAN  
 HW Z2  
  
 SET



557

## FRESA PER BATTUTE CON CUSCINETTO E COLTELLI REVERSIBILI

Rabbet router bit with ball bearing and reversible knives  
Falzfräser mit Kugellager und Wendemesser  
Fraise à feuillurer à plaquettes réversibles avec roulement



Ø	LU	LT	d	B	S	CODE
30	12	54	13	8,5	8 x 30	557.300.00800
38	12	54	13	12,5	8 x 30	557.380.00800

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Z4	12x12x1,5 901.120.12.00
TORX®15 M4x6 D9 L8	902.040.06.90
Ø13/5 H4	904.130.05.00
d3,2 D7 S0,5	905.030.07.05
∅ 2,5 M3x6	902.030.06.00

Optional	CODE
Ø30 d10 B10 + d16 B7 + d19 B5,5	904.557.05.30
Ø38 d10 B14 + d16 B11 + d19 B9,5	904.557.05.38
TORX®15	903.150.00.00
∅ 2,5	903.025.00.00



MAN

HW

Z2

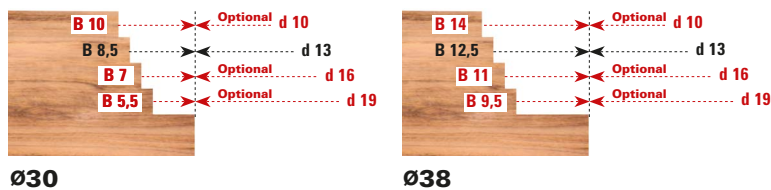
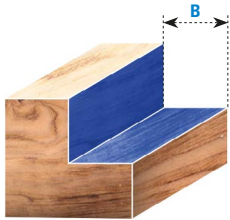
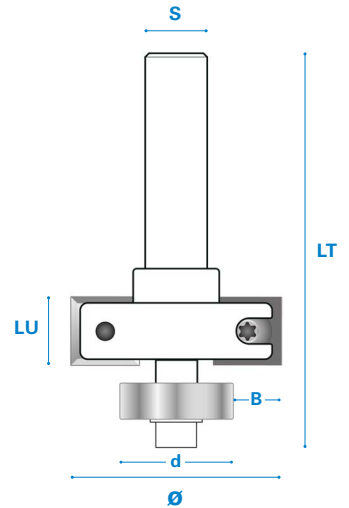
RH

SP

SET

SET

SET



Ø30

Ø38

54

557 C

## FRESA PER BATTUTE CON ANGOLO ASSIALE POSITIVO, CUSCINETTO E COLTELLI REVERSIBILI

Rabbet router bit with positive shear angle, ball bearing and reversible knives  
Falzfräser mit positiven Achswinkel, Kugellager und Wendemesser  
Fraise à feuillurer avec angle d'axe positif, roulement et plaquettes réversibles



Ø	LU	LT	d	B	S	CODE
50	29,5	95	16	17	12 x 40	557C.500.1200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Z4	29,5x12x1,5 901.295.12.13
TORX®15 M4x6 D9 L8	902.040.06.90
B 17 (SET 2 plc)	Ø16/6 H5 904.160.06.02
d4,3 D9 S0,8	905.040.09.08
∅ 3 M4x8	902.040.08.00
TORX®15	903.002.15.00

Optional	CODE
d48 Delrin® B1	904.480.00.06
d46 Delrin® B2	904.460.00.06
d44 Delrin® B3	904.440.00.06
d42 Delrin® B4	904.420.00.06
d40 Delrin® B5	904.400.00.06
d38 Delrin® B6	904.380.00.06
d36 Delrin® B7	904.360.00.06
d34 Delrin® B8	904.340.00.06
d32 Delrin® B9	904.320.00.06
d30 Delrin® B10	904.300.00.06
d28 Delrin® B11	904.280.00.06
d26 Delrin® B12	904.260.00.06
d24 Delrin® B13	904.240.00.06
d22 Delrin® B14	904.220.00.06
d20 Delrin® B15	904.200.00.06
d19 B15,5 set 3 plc	904.190.06.03
d18 Delrin® B16	904.180.00.06
d13 B18,5 set 4 plc	904.130.06.04
d10 B20 set 4 plc	904.100.06.04
∅ 3	903.030.00.00



MAN

HW

Z2

RH

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

SET

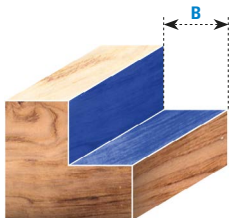
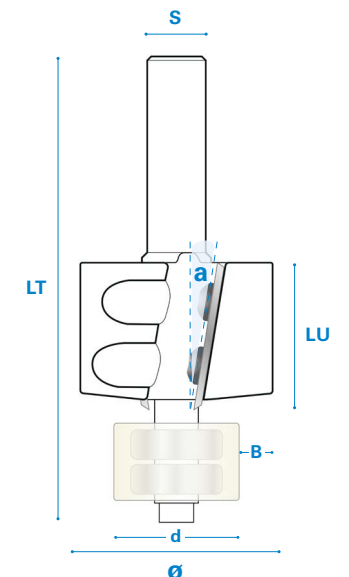
SET

SET

SET

SET

SET



# 560

## FRESA PER INCASTRO GUARNIZIONE A TAGLIENTI DIRITTI

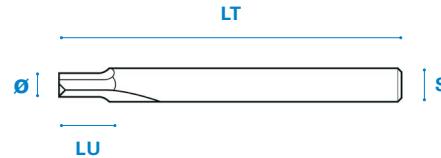
Straight router bit for seal socket  
Dichtungs-Nutfräser  
Mèche à rainier à joints



Ø	LU	LT	S	CODE
3	8	60	6	560.030.00600
3,5	10	60	6	560.035.00600
4	10	60	6	560.040.00600



MAN	MEC	CNC
HWM		Z2+1



**Optional**

# 564

## FRESA PER INCASTRO GUARNIZIONE A CODA DI RONDINE

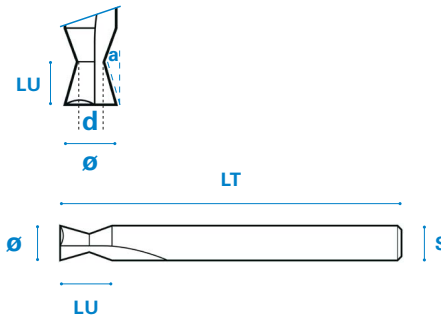
Dovetail router bit for seal socket  
Dichtungs- Zinkenfräser  
Mèche à rainier à joints avec profil queue d'aronde



a	Ø	d	LU	LT	S	CODE
10°	4,3	2,9	5	60	6	564.043.00600



MAN	MEC	CNC
HWM	Z2	



**Optional**

# 566

## FRESA PER INCASTRO GUARNIZIONE A PUNTA D'ANCORA

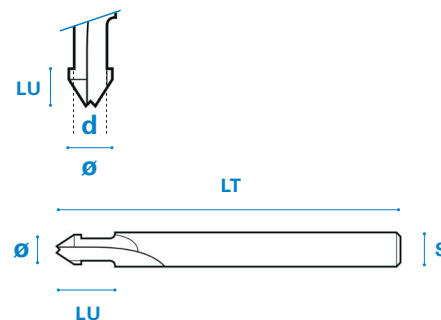
Anchor router bit for seal socket  
Dichtungs-Nutfräser mit Ankerprofil  
Mèche à rainier à joints avec profil d'ancre



Ø	d	LU	LT	S	CODE
5,5	3,5	10	60	6	566.055.00600



MAN	MEC	CNC
HWM	Z2	



**Optional**

567

## RIFILATORE CON DOPPIO CUSCINETTO E COLTELLI REVERSIBILI

Flush trim bit with double ball bearing and reversible knives  
 Bündigfräser mit doppeltem Kugellager und Wendemesser  
 Fraise à affleurer à plaquettes réversibles avec roulement dessus et roulement dessous

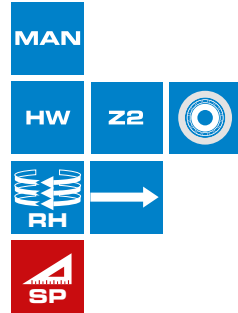


Ø	LU	LT	S	CODE
16	29,5	77	8 x 30	567.160.30800
19	30	80,5	8 x 30	567.190.30800
22	30	83	8 x 30	567.220.30800
16	49,5	98	8 x 30	567.160.50800
19	50	105	12 x 40	567.190.50120
22,2	50	116	12 x 40	567.222.50120

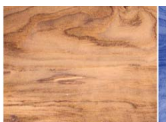
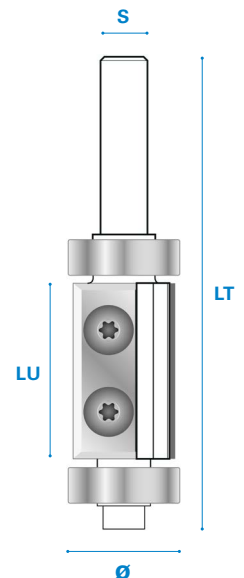
€

### Ricambi - Spare parts - Ersatzteile - Pièces de rechange

				CODE		
Ø16	XB	Z4	LU 29,5	29,5x9x1,5	901.295.09.00	
		Z4	LU 49,5	49,5x9x1,5	901.495.09.00	
	XB	Z2	LU 30	30x12x1,5	901.300.12.00	
		Z4	LU 50	50x12x1,5	901.500.12.00	
Ø19-22,2	XB		Ø16	TORX®15 M4x4 D5,6 L6,2	902.040.04.58	
			Ø19-22,2	TORX®15 M4x6 D9 L8	902.040.06.90	
		HEAD		Ø16	Ø16/5 H5	904.160.05.00
				Ø19	Ø19/6 H6	904.190.06.00
HEAD		Ø22	Ø22/6 H7	904.220.06.00		
		Ø22,2	Ø22,2/9,52 H7,1	904.222.95200		
SHANK			Ø16	Ø16/8 H5	904.160.08.00	
			Ø19 LU 30	Ø19/8 H6	904.190.08.00	
			Ø19 LU 50	Ø19/12,7 H3,95	904.190.12700	
			Ø22	Ø22/8 H7	904.220.08.00	
			Ø22,2	Ø22,2/12,7 H7	904.222.12700	
				Ø16	d3,2 D7 S0,5	905.030.07.05
			Ø19-22	d4,3 D9 S0,8	905.040.09.08	
			Ø22,2	d6,4 D12 S1,6	905.060.12.16	
			Ø16	○ 2,5 M3x6	902.030.06.00	
			Ø19-22	○ 3 M4x8	902.040.08.00	
			Ø22,2	○ 5 M6x8	902.060.08.00	
			S8		907.080.00.ES	
			S12		907.120.00.ES	



56



Optional		CODE
✓	TORX®15	903.150.00.00
✓	Ø16	○ 2,5 903.025.00.00
✓	Ø19-22	○ 3 903.030.00.00
✓	Ø22,2	○ 5 903.050.00.00

580

**FRESA PER SCANALATURE A V, FOLDING E SCRITTURA CON COLTELLO REVERSIBILE**

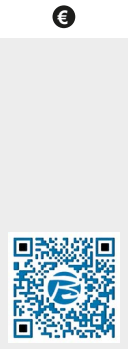
V-groove, Folding and lettering router bit with reversible knife  
V-Nut, Folding und Schriftenfräser mit Wendemesser  
Fraise à rainier en V, Folding et à graver à plaque réversible



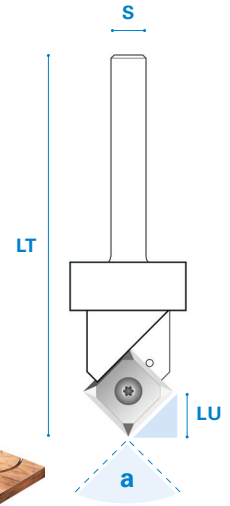
a	Ø	LU	LT	S	CODE
92°	17	8,3	63	8 x 30	580.450.00800
92°	17	8,3	73	12 x 40	580.450.01200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4		12x12x1,5	901.120.12.92
			TORX®15 M3,5x6 D6 L8	902.035.06.60

Optional				CODE
	Z1	60° P2		901.120.12.60
	Z1	R3 P3		901.120.03.CO
	Z1	R4 P4		901.120.04.CV
	Z1	R5 P5		901.120.05.CO
			TORX®15	903.150.00.00



MAN MEC CNC  
HW Z1  
RH  
SET



**P1** 92° max 8,3 mm  
**P2** 60° max 7 mm

Optional

**P3** Optional  
**P4** Optional

**P5** Optional

583

**FRESA PER SMUSSI CON CUSCINETTO E COLTELLI REVERSIBILI**

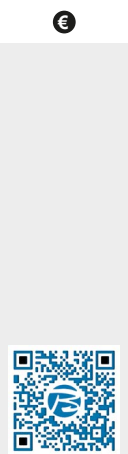
Chamfer router bit with ball bearing and reversible knives  
Fasefräser mit Kugellager und Wendemesser  
Fraise à chanfreiner avec roulement et plaquettes réversibles



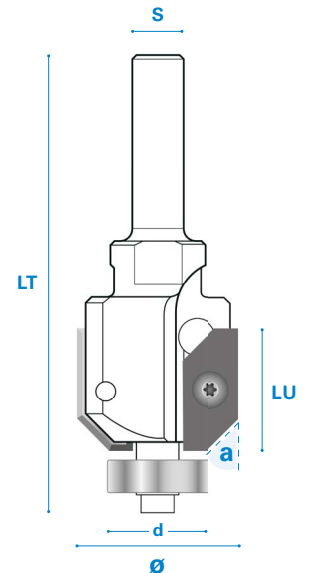
a	Ø	LU	LT	d	S	CODE
45°	26	19,5	75	16	8 x 30	583.450.26800
45°	32	24,5	80	16	8 x 30	583.450.32800
45°	26	19,5	85	16	12 x 40	583.450.26120
45°	32	24,5	90	16	12 x 40	583.450.32120

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
	Z4	Ø26	19,5x9x1,5	901.583.45.00
	Z4	Ø32	24,5x12x1,5	901.583.45.01
		Ø26	TORX®15 M4x6 D5,6 L8,2	902.040.06.58
		Ø32	TORX®15 M4x6 D9 L8	902.040.06.90
			Ø16/5 H5	904.160.05.00
			d3,2 D7 S0,5	905.030.07.05
			Ø 2,5 M3x6	902.030.06.00

Optional				CODE
			TORX®15	903.150.00.00
			Ø 2,5	903.025.00.00



MAN  
HW Z2  
RH



# 584

## FRESA PER BATTUTE CON CUSCINETTO E COLTELLI REVERSIBILI

Rabbet router bit with ball bearing and reversible knives  
 Falzfräser mit Kugellager und Wendemesser  
 Fraise à feuillurer avec roulement et plaquettes réversibles

MAN  
 HW Z2  
 RH →



Ø	LU	LT	d	B	S	CODE
26	19,5	75	16-13-10	5-6,5-8	8 x 30	584.260.00800
32	24,5	80	16-13-10	8-9,5-11	8 x 30	584.320.00800
26	19,5	85	16-13-10	5-6,5-8	12 x 40	584.260.01200
32	24,5	90	16-13-10	8-9,5-11	12 x 40	584.320.01200

€

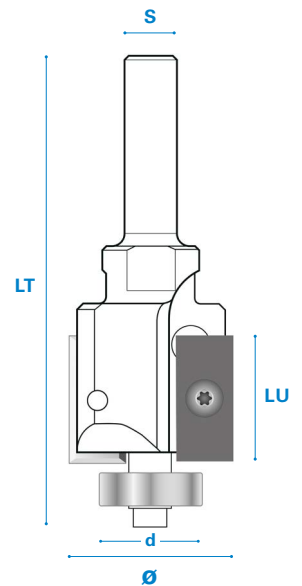
Ricambi - Spare parts - Ersatzteile - Pièces de rechange

	CODE
Ø32 24,5x12x1,5	901.245.12.00
Ø26 19,5x9x1,5	901.195.09.00
Ø26 TORX®15 M4x6 D5,6 L8,2	902.040.06.58
Ø32 TORX®15 M4x6 D9 L8	902.040.06.90
Ø16/5 H5	904.160.05.00
Ø13/5 H4	904.130.05.00
Ø10/5 H4	904.100.05.00
d3,2 D7 S0,5	905.030.07.05
Ø 2,5 M3x6	902.030.06.00

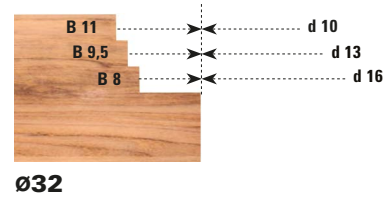
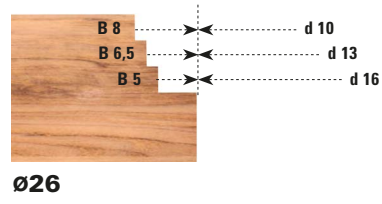
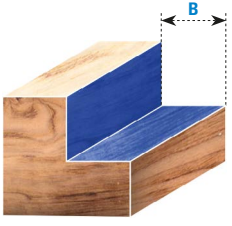


Optional

	CODE
TORX®15	903.150.00.00
Ø 2,5	903.025.00.00



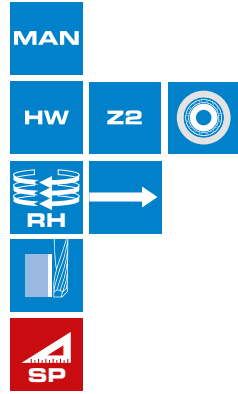
58



# 585

## RIFILATORE CON CUSCINETTO SULL'ATTACCO E COLTELLI REVERSIBILI

Flush trim bit with upper ball bearing and reversible knives  
 Bündigfräser mit Kugellager am Schaft und Wendemesser  
 Fraise à affleurer avec roulement dessus et plaquettes réversibles



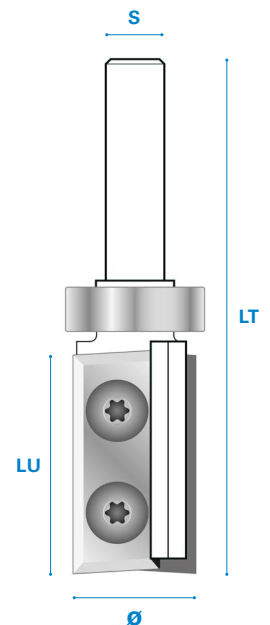
Ø	LU	LT	S	CODE
19	12	51,5	6 x 30	585.190.12600
19	12	51,5	8 x 30	585.190.12800
22	19,5	59,5	8 x 30	585.220.20800
16	29,5	68,5	8 x 30	585.160.30800
19	29,5	69,5	6 x 30	585.190.30600
19	29,5	69,5	8 x 30	585.190.30800
19	29,5	81,5	12 x 40	585.190.30120
22	29,5	69,5	8 x 30	585.220.30800
24	29,5	80,5	12 x 40	585.240.30120
16	49,5	88,5	8 x 30	585.160.50800
19	49,5	89,5	8 x 30	585.190.50800
19	49,5	101,5	12 x 40	585.190.50120
22,2	49,5	101,5	12 x 40	585.222.50120
24	49,5	101,5	12 x 40	585.240.50120

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE	
LU 12 (x4)  Z4 12x12x1,5	901.120.12.00	
LU 19,5 (x2)  Z4 19,5x12x1,5	901.195.12.00	
LU 29,5 (x2)  Z4 Ø16 29,5x9x1,5	901.295.09.00	
(x2)  Z4 Ø19→24 29,5x12x1,5	901.295.12.00	
LU 49,5 (x2)  Z4 Ø16 49,5x9x1,5	901.495.09.00	
(x2)  Z4 Ø19→24 49,5x12x1,5	901.495.12.00	
Ø16 TORX®15 M4x4 D5,6 L6,2	902.040.04.58	
Ø19→24 TORX®15 M4x6 D9 L8	902.040.06.90	
S 6  Ø19 Ø19/6 H6	904.190.06.00	
S 8  Ø16 Ø16/8 H5	904.160.08.00	
	Ø19 Ø19/8 H6	904.190.08.00
	Ø22 Ø22/8 H7	904.220.08.00
S 12  Ø19 Ø19/12,7 H3,95	904.190.12700	
	Ø22,2 Ø22,2/12,7 H7	904.222.12700
	Ø24 Ø24/12 H6	904.240.12.00
S8	907.080.00.ES	
S12	907.120.00.ES	



Optional	CODE
TORX®15	903.150.00.00





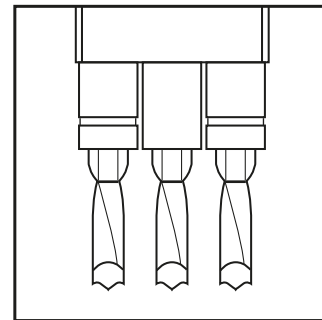
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## UTENSILI E MANDRINI PER FORATRICI MULTIMANDRINO

TOOLS AND CHUCKS FOR MULTI SPINDLE DRILLING MACHINES

WERKZEUGE UND FUTTER FÜR BOHRAUTOMATEN

MÈCHES ET MANDRINS POUR PERCEUSES MULTIBROCHES



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**309**  
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**309C**  
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## 301

## MANDRINO PER FORATRICI 30°

Drill adaptor 30°  
Bohrer Spannfutter 30°  
Mandrin de réduction 30°



Vitap BUSSELLATO O.M.P.E.C. Alberti Balestrini SCHLEICHER



RH



LH

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

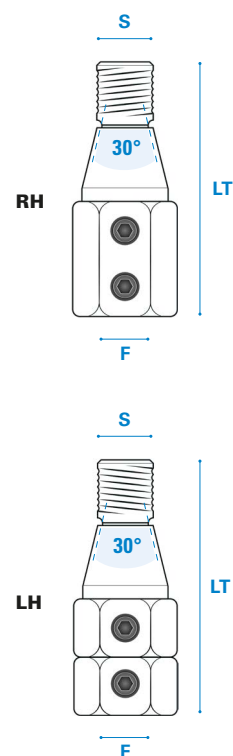
306 312 339  
307 313 340

RH	F	LT	S	CODE
3	46	M10/30°	301.030.00.08	
4	46	M10/30°	301.040.00.08	
5	46	M10/30°	301.050.00.08	
8	46	M10/30°	301.080.00.08	
10	46	M10/30°	301.100.00.08	
8	46	M8/30°	301.080.M8.08	
10	46	M8/30°	301.100.M8.08	

LH	F	LT	S	CODE
3	46	M10/30°	301.030.00.09	
4	46	M10/30°	301.040.00.09	
5	46	M10/30°	301.050.00.09	
8	46	M10/30°	301.080.00.09	
10	46	M10/30°	301.100.00.09	
8	46	M8/30°	301.080.M8.09	
10	46	M8/30°	301.100.M8.09	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
⊘ 3 M6x5	902.060.05.00

€



62

## 303

## MANDRINO PER FORATRICI

Drill adaptor  
Bohrer Spannfutter  
Mandrin de réduction



Vitap BIESSE MORBIDELLI WEEKE TORWEGGE masterwood NOTTMEYER



RH



LH

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

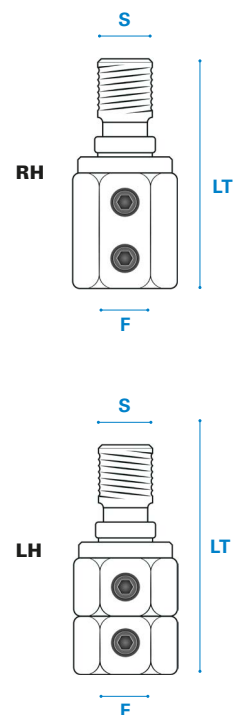
306 312 339  
307 313 340

RH	F	LT	S	CODE
3	40	M10/11	303.030.00.08	
4	40	M10/11	303.040.00.08	
5	40	M10/11	303.050.00.08	
8	40	M10/11	303.080.00.08	
10	40	M10/11	303.100.00.08	
8	40	M8/9	303.080.M8.08	
10	40	M8/9	303.100.M8.08	

LH	F	LT	S	CODE
3	40	M10/11	303.030.00.09	
4	40	M10/11	303.040.00.09	
5	40	M10/11	303.050.00.09	
8	40	M10/11	303.080.00.09	
10	40	M10/11	303.100.00.09	
8	40	M8/9	303.080.M8.09	
10	40	M8/9	303.100.M8.09	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
⊘ 3 M6x5	902.060.05.00

€



306

## PUNTA PER FORI CIECHI

Blind holes dowel drill  
 Dübellochbohrer  
 Mèche à tourillonner pour trous borgne

UTILIZZARE CON  
 To be used with  
 Benutzung mit  
 À utiliser avec

309

310



RH	Ø	LU	LT	S	CODE
5	30	57	10 x 20	306.050.30.28	
6	30	57	10 x 20	306.060.30.28	
7	30	57	10 x 20	306.070.30.28	
8	30	57	10 x 20	306.080.30.28	
9	30	57	10 x 20	306.090.30.28	
10	30	57	10 x 20	306.100.30.28	
11	30	57	10 x 20	306.110.30.28	
12	30	57	10 x 20	306.120.30.28	
13	30	57	10 x 20	306.130.30.28	
14	30	57	10 x 20	306.140.30.28	
15	30	57	10 x 20	306.150.30.28	
16	30	57	10 x 20	306.160.30.28	
5	43	70	10 x 20	306.050.43.28	
6	43	70	10 x 20	306.060.43.28	
7	43	70	10 x 20	306.070.43.28	
8	43	70	10 x 20	306.080.43.28	
9	43	70	10 x 20	306.090.43.28	
10	43	70	10 x 20	306.100.43.28	
11	43	70	10 x 20	306.110.43.28	
12	43	70	10 x 20	306.120.43.28	
13	43	70	10 x 20	306.130.43.28	
14	43	70	10 x 20	306.140.43.28	
15	43	70	10 x 20	306.150.43.28	
16	43	70	10 x 20	306.160.43.28	
5	65	85	10 x 20	306.050.65.28	
6	65	85	10 x 20	306.060.65.28	
8	65	85	10 x 20	306.080.65.28	
10	65	85	10 x 20	306.100.65.28	
12	65	85	10 x 20	306.120.65.28	
14	65	85	10 x 20	306.140.65.28	
5	85	105	10 x 20	306.050.85.28	
6	85	105	10 x 20	306.060.85.28	
8	85	105	10 x 20	306.080.85.28	
10	85	105	10 x 20	306.100.85.28	
12	85	105	10 x 20	306.120.85.28	
14	85	105	10 x 20	306.140.85.28	

LH	Ø	LU	LT	S	CODE
5	30	57	10 x 20	306.050.30.29	
6	30	57	10 x 20	306.060.30.29	
7	30	57	10 x 20	306.070.30.29	
8	30	57	10 x 20	306.080.30.29	
9	30	57	10 x 20	306.090.30.29	
10	30	57	10 x 20	306.100.30.29	
11	30	57	10 x 20	306.110.30.29	
12	30	57	10 x 20	306.120.30.29	
13	30	57	10 x 20	306.130.30.29	
14	30	57	10 x 20	306.140.30.29	
15	30	57	10 x 20	306.150.30.29	
16	30	57	10 x 20	306.160.30.29	
5	43	70	10 x 20	306.050.43.29	
6	43	70	10 x 20	306.060.43.29	
7	43	70	10 x 20	306.070.43.29	
8	43	70	10 x 20	306.080.43.29	
9	43	70	10 x 20	306.090.43.29	
10	43	70	10 x 20	306.100.43.29	
11	43	70	10 x 20	306.110.43.29	
12	43	70	10 x 20	306.120.43.29	
13	43	70	10 x 20	306.130.43.29	
14	43	70	10 x 20	306.140.43.29	
15	43	70	10 x 20	306.150.43.29	
16	43	70	10 x 20	306.160.43.29	
5	65	85	10 x 20	306.050.65.29	
6	65	85	10 x 20	306.060.65.29	
8	65	85	10 x 20	306.080.65.29	
10	65	85	10 x 20	306.100.65.29	
12	65	85	10 x 20	306.120.65.29	
14	65	85	10 x 20	306.140.65.29	
5	85	105	10 x 20	306.050.85.29	
6	85	105	10 x 20	306.060.85.29	
8	85	105	10 x 20	306.080.85.29	
10	85	105	10 x 20	306.100.85.29	
12	85	105	10 x 20	306.120.85.29	
14	85	105	10 x 20	306.140.85.29	

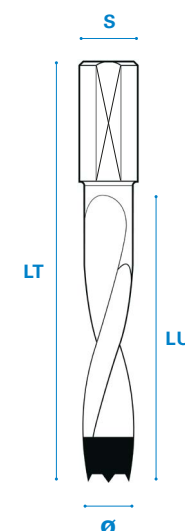
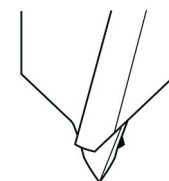
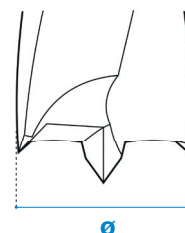
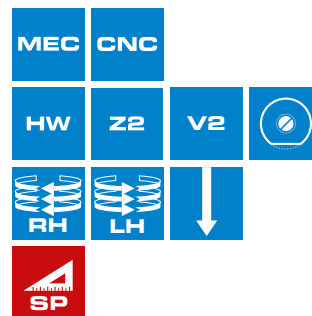
Ricambi - Spare parts - Ersatzteile - Pièces de rechange

CODE



M5x10

902.050.10.TA



308

### PUNTA PER SPINE COMPATIBILE CON SISTEMA Mafell®

Dowel drill compatible with Mafell® System  
Dübellochbohrer passend für das Mafell® System  
Mèche pour Système Mafell®

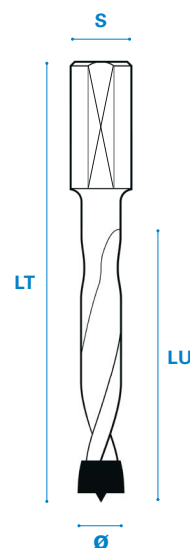
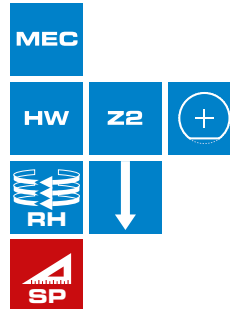
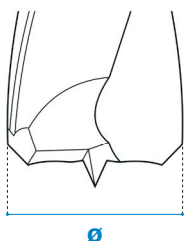
COMPATIBILE CON  
Compatible with  
Passend für  
Compatible avec

**mafell**

DDF 40 DD40 P

Ø	LU	LT	S	CODE
5	30	58	8 x 20	308.050.00.28
6	30	58	8 x 20	308.060.00.28
8	30	58	8 x 20	308.080.00.28
10	30	58	8 x 20	308.100.00.28
12	30	58	8 x 20	308.120.00.28
14	30	58	8 x 20	308.140.00.28
16	30	58	8 x 20	308.160.00.28

€



64

309

### SVASATORE A 45°

Countersink 45°  
Aufstecksenker 45°  
Fraisoir à 45°

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

306

307

RH	Ø	d	LT	CODE
	4	17	16	309.040.00.28
	5	17	16	309.050.00.28
	6	17	16	309.060.00.28
	7	17	16	309.070.00.28
	8	17	16	309.080.00.28
	9	20	20	309.090.00.28
	10	20	20	309.100.00.28
	12	20	20	309.120.00.28

€

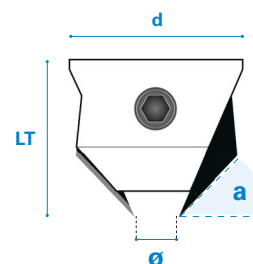
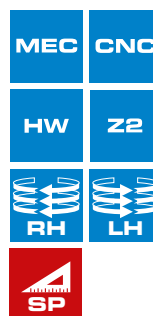
LH	Ø	d	LT	CODE
	4	17	16	309.040.00.29
	5	17	16	309.050.00.29
	6	17	16	309.060.00.29
	7	17	16	309.070.00.29
	8	17	16	309.080.00.29
	9	20	20	309.090.00.29
	10	20	20	309.100.00.29
	12	20	20	309.120.00.29



Ricambi - Spare parts - Ersatzteile - Pièces de rechange

CODE

Ø 3 M5x6 902.050.06.PT



## 309 C

## SVASATORE A 45°

Countersink 45°  
Aufstecksenker 45°  
Fraiseur à 45°

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

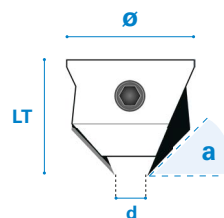
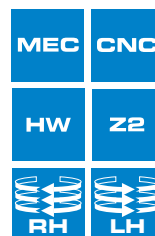
339

340



RH	Ø	d	LT	CODE
	20	10	16,5	309C.100.00.8
LH	Ø	d	LT	CODE
	20	10	16,5	309C.100.00.9
Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
○ 3 M6x5				902.060.05.PT

€



## 311

## SVASATORE A 90°

Countersink 90°  
Aufstecksenker 90°  
Fraiseur à 90°

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

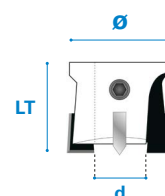
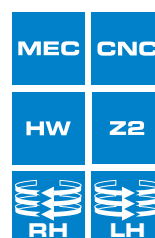
306

307



Ø	d	LT
on request		

€



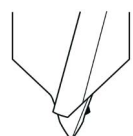
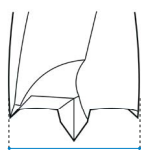
## 339

## PUNTA PER FORI CIECHI

Blind holes dowel drill  
Dübellochbohrer  
Mèche à tourillonner pour trous borgne

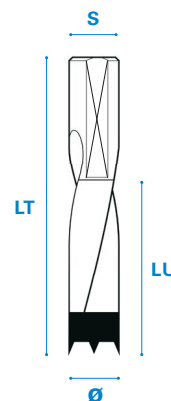
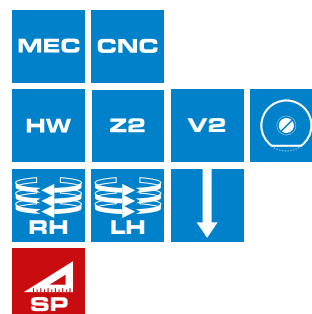
UTILIZZARE CON  
To be used with - Benutzung mit - À utiliser avec

309 C



RH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	339.050.27.28
	6	27	57,5	10 x 27	339.060.27.28
	7	27	57,5	10 x 27	339.070.27.28
	8	27	57,5	10 x 27	339.080.27.28
	9	27	57,5	10 x 27	339.090.27.28
	10	27	57,5	10 x 27	339.100.27.28
	11	27	57,5	10 x 27	339.110.27.28
	12	27	57,5	10 x 27	339.120.27.28
	5	35	70	10 x 27	339.050.35.28
	6	35	70	10 x 27	339.060.35.28
	7	35	70	10 x 27	339.070.35.28
	8	35	70	10 x 27	339.080.35.28
	9	35	70	10 x 27	339.090.35.28
	10	35	70	10 x 27	339.100.35.28
	11	35	70	10 x 27	339.110.35.28
	12	35	70	10 x 27	339.120.35.28
LH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	339.050.27.29
	6	27	57,5	10 x 27	339.060.27.29
	7	27	57,5	10 x 27	339.070.27.29
	8	27	57,5	10 x 27	339.080.27.29
	9	27	57,5	10 x 27	339.090.27.29
	10	27	57,5	10 x 27	339.100.27.29
	11	27	57,5	10 x 27	339.110.27.29
	12	27	57,5	10 x 27	339.120.27.29
	5	35	70	10 x 27	339.050.35.29
	6	35	70	10 x 27	339.060.35.29
	7	35	70	10 x 27	339.070.35.29
	8	35	70	10 x 27	339.080.35.29
	9	35	70	10 x 27	339.090.35.29
	10	35	70	10 x 27	339.100.35.29
	11	35	70	10 x 27	339.110.35.29
	12	35	70	10 x 27	339.120.35.29

€

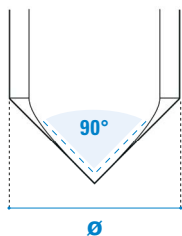


M5x10 902.050.10.TA

342

## PUNTA AMBIDESTRA A 90° IN METALLO DURO INTEGRALE

Ambidextrous solid carbide dowel drill 90°  
Rechts-Linkslauf Dübelbohrer 90° aus Vollhartmetall  
Mèche à percer pour trous borgne carbure monobloc 90°

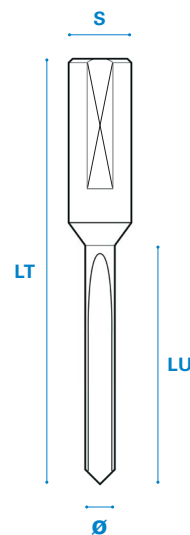
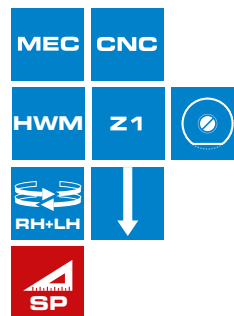


Ø	LU	LT	S	CODE
3	18	57,5	10 x 30	342.030.18.00
4	20	57,5	10 x 30	342.040.20.00
5	25	57,5	10 x 30	342.050.25.00
3	35	70	10 x 30	342.030.35.00
4	35	70	10 x 30	342.040.35.00
5	35	70	10 x 30	345.050.35.00

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA

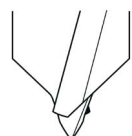
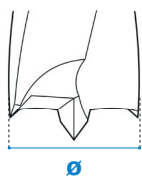


66

355

## PUNTA PER FORI CIECHI IN METALLO DURO INTEGRALE

Solid carbide dowel drill for blind holes  
Dübellochbohrer aus Vollhartmetall  
Mèche à tourillonner pour trous borgne carbure monobloc



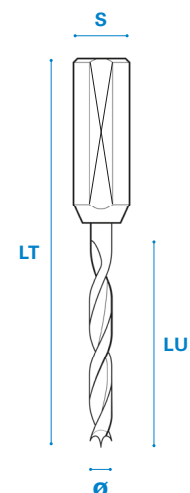
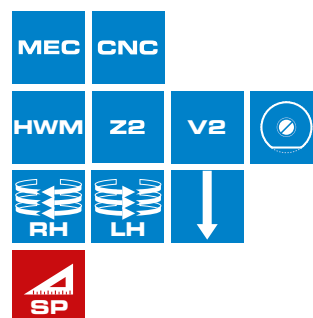
RH	Ø	LU	LT	S	CODE
3	25	57	10 x 30	355.030.25.28	
4	25	57	10 x 30	355.040.25.28	
5	25	57	10 x 30	355.050.25.28	
6	25	57	10 x 30	355.060.25.28	
8	25	57	10 x 30	355.080.25.28	
3	35	70	10 x 30	355.030.35.28	
4	35	70	10 x 30	355.040.35.28	
5	35	70	10 x 30	355.050.35.28	
6	35	70	10 x 30	355.060.35.28	
8	35	70	10 x 30	355.080.35.28	

€



LH	Ø	LU	LT	S	CODE
3	25	57	10 x 30	355.030.25.29	
4	25	57	10 x 30	355.040.25.29	
5	25	57	10 x 30	355.050.25.29	
6	25	57	10 x 30	355.060.25.29	
8	25	57	10 x 30	355.080.25.29	
3	35	70	10 x 30	355.030.35.29	
4	35	70	10 x 30	355.040.35.29	
5	35	70	10 x 30	355.050.35.29	
6	35	70	10 x 30	355.060.35.29	
8	35	70	10 x 30	355.080.35.29	

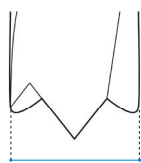
Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



## 356

**PUNTA PER FORI CIECHI CON INCISORI ARROTONDATI IN METALLO DURO INTEGRALE**

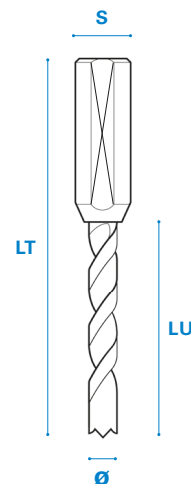
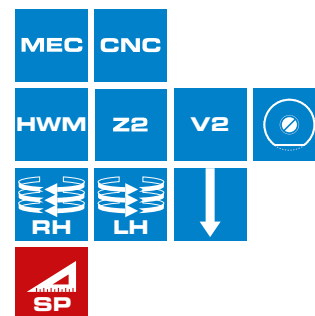
Solid carbide dowel drill for blind holes with rounded spurs  
 Dübellochbohrer mit gerundete Vorschneider aus Vollhartmetall  
 Mèche à tourillonner pour trous borgne carbure monobloc avec inciseurs renforcés



RH	Ø	LU	LT	S	CODE
	5	25	57	10 x 30	356.050.25.28
	6	25	57	10 x 30	356.060.25.28
	8	25	57	10 x 30	356.080.25.28
	5	35	70	10 x 30	356.050.35.28
	6	35	70	10 x 30	356.060.35.28
	8	35	70	10 x 30	356.080.35.28

LH	Ø	LU	LT	S	CODE
	5	25	57	10 x 30	356.050.25.29
	6	25	57	10 x 30	356.060.25.29
	8	25	57	10 x 30	356.080.25.29
	5	35	70	10 x 30	356.050.35.29
	6	35	70	10 x 30	356.060.35.29
	8	35	70	10 x 30	356.080.35.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA

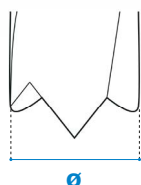


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## 357

**PUNTA PER FORI CIECHI CON INCISORI RINFORZATI**

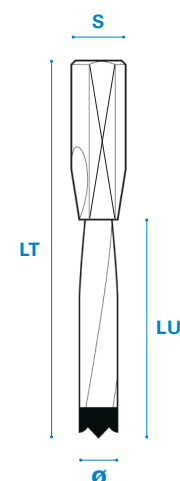
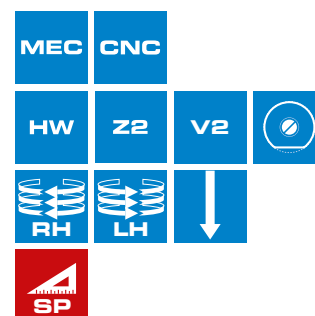
Dowel drill for blind holes with rounded spurs  
 Dübellochbohrer mit gerundete Vorschneider  
 Mèche à tourillonner pour trous borgne avec inciseurs renforcés



RH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	357.050.27.28
	6	27	57,5	10 x 27	357.060.27.28
	8	27	57,5	10 x 27	357.080.27.28
	10	27	57,5	10 x 27	357.100.27.28
	12	27	57,5	10 x 27	357.120.27.28
	5	35	70	10 x 27	357.050.35.28
	6	35	70	10 x 27	357.060.35.28
	8	35	70	10 x 27	357.080.35.28
	10	35	70	10 x 27	357.100.35.28
	12	35	70	10 x 27	357.120.35.28

LH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	357.050.27.29
	6	27	57,5	10 x 27	357.060.27.29
	8	27	57,5	10 x 27	357.080.27.29
	10	27	57,5	10 x 27	357.100.27.29
	12	27	57,5	10 x 27	357.120.27.29
	5	35	70	10 x 27	357.050.35.29
	6	35	70	10 x 27	357.060.35.29
	8	35	70	10 x 27	357.080.35.29
	10	35	70	10 x 27	357.100.35.29
	12	35	70	10 x 27	357.120.35.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



307

## PUNTA PER FORI PASSANTI 60°

Through holes dowel drill 60°  
Durchgangslochbohrer 60°  
Mèche à tourillonner pour trous débouchants 60°

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

309

310



RH	Ø	LU	LT	S	CODE
	5	45	70	10 x 20	307.050.45.28
	6	45	70	10 x 20	307.060.45.28
	8	45	70	10 x 20	307.080.45.28
	10	45	70	10 x 20	307.100.45.28
	12	45	70	10 x 20	307.120.45.28

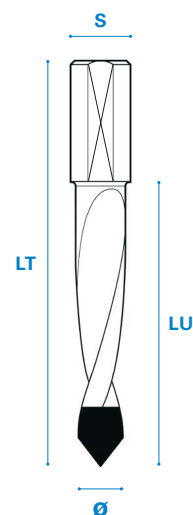
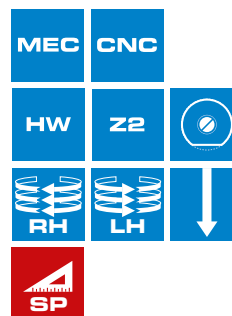
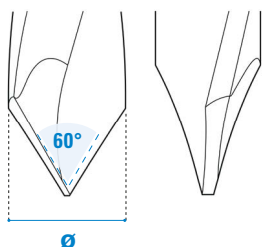
LH	Ø	LU	LT	S	CODE
	5	45	70	10 x 20	307.050.45.29
	6	45	70	10 x 20	307.060.45.29
	8	45	70	10 x 20	307.080.45.29
	10	45	70	10 x 20	307.100.45.29
	12	45	70	10 x 20	307.120.45.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange

CODE

M5x10

902.050.10.TA



68

340

## PUNTA PER FORI PASSANTI 60°

Through holes dowel drill 60°  
Durchgangslochbohrer 60°  
Mèche à tourillonner pour trous débouchants 60°

UTILIZZARE CON  
To be used with - Benutzung mit - À utiliser avec

309 C



RH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	340.050.27.28
	6	27	57,5	10 x 27	340.060.27.28
	8	27	57,5	10 x 27	340.080.27.28
	10	27	57,5	10 x 27	340.100.27.28
	12	27	57,5	10 x 27	340.120.27.28

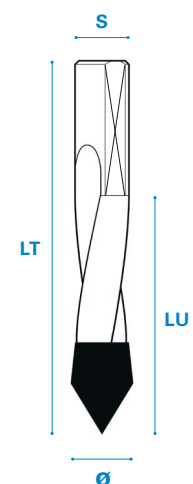
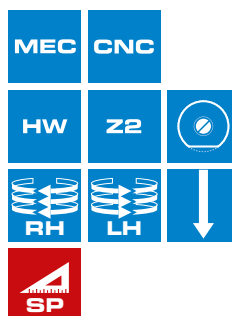
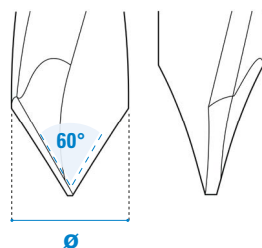
LH	Ø	LU	LT	S	CODE
	5	27	57,5	10 x 27	340.050.27.29
	6	27	57,5	10 x 27	340.060.27.29
	8	27	57,5	10 x 27	340.080.27.29
	10	27	57,5	10 x 27	340.100.27.29
	12	27	57,5	10 x 27	340.120.27.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange

CODE

M5x10

902.050.10.TA





360

### PUNTA PER FORI PASSANTI 60° IN METALLO DURO INTEGRALE

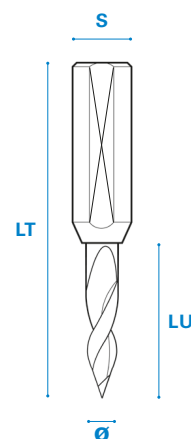
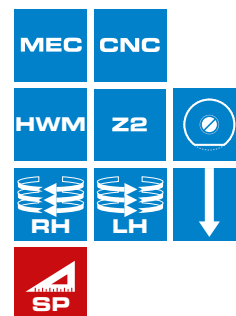
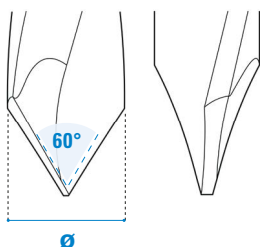
Solid carbide dowel drill 60° for through hole  
Durchgangslochbohrer 60° aus Vollhartmetall  
Mèche à tourillonner pour trous débouchants 60°



RH	Ø	LU	LT	S	CODE
3	25	57	10 x 30	360.030.25.28	
4	25	57	10 x 30	360.040.25.28	
5	25	57	10 x 30	360.050.25.28	
6	25	57	10 x 30	360.060.25.28	
8	25	57	10 x 30	360.080.25.28	
3	35	70	10 x 30	360.030.35.28	
4	35	70	10 x 30	360.040.35.28	
5	35	70	10 x 30	360.050.35.28	
6	35	70	10 x 30	360.060.35.28	
8	35	70	10 x 30	360.080.35.28	

LH	Ø	LU	LT	S	CODE
3	25	57	10 x 30	360.030.25.29	
4	25	57	10 x 30	360.040.25.29	
5	25	57	10 x 30	360.050.25.29	
6	25	57	10 x 30	360.060.25.29	
8	25	57	10 x 30	360.080.25.29	
3	35	70	10 x 30	360.030.35.29	
4	35	70	10 x 30	360.040.35.29	
5	35	70	10 x 30	360.050.35.29	
6	35	70	10 x 30	360.060.35.29	
8	35	70	10 x 30	360.080.35.29	

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



361

### PUNTA PER FORI PASSANTI CON DOPPIA LANCIA IN METALLO DURO INTEGRALE

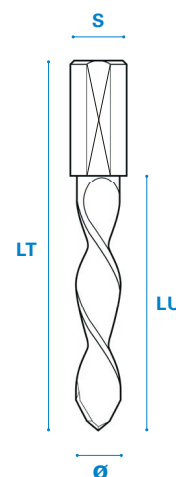
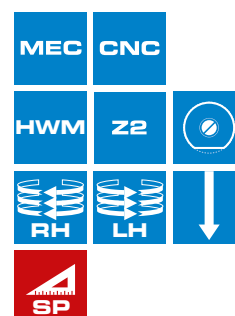
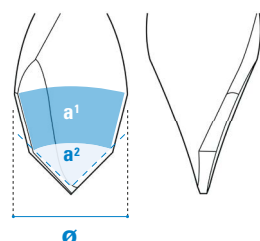
Solid carbide dowel drill for through hole with double angle  
Durchgangslochbohrer aus Vollhartmetall mit Doppelfase  
Mèche à tourillonner pour trous débouchants carbure monobloc avec double angle



RH	Ø	LU	LT	S	CODE
5	27	57,5	10 x 30	361.050.27.28	
6	27	57,5	10 x 30	361.060.27.28	
8	27	57,5	10 x 30	361.080.27.28	
5	35	70	10 x 30	361.050.35.28	
6	35	70	10 x 30	361.060.35.28	
8	35	70	10 x 30	361.080.35.28	

LH	Ø	LU	LT	S	CODE
5	27	57,5	10 x 30	361.050.27.29	
6	27	57,5	10 x 30	361.060.27.29	
8	27	57,5	10 x 30	361.080.27.29	
5	35	70	10 x 30	361.050.35.29	
6	35	70	10 x 30	361.060.35.29	
8	35	70	10 x 30	361.080.35.29	

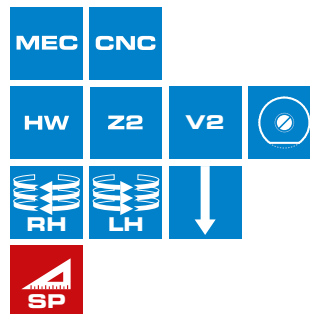
Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



312

## PUNTA PER CERNIERE

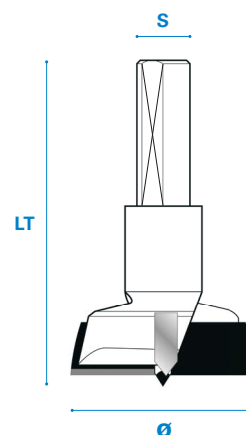
Hinge boring bit  
Zylinderkopfböhrer  
Mèche à façonner à fond plat



RH	Ø	LT	S	CODE
15	57	57	10 x 26	312.150.57.28
16	57	57	10 x 26	312.160.57.28
18	57	57	10 x 26	312.180.57.28
20	57	57	10 x 26	312.200.57.28
22	57	57	10 x 26	312.220.57.28
25	57	57	10 x 26	312.250.57.28
26	57	57	10 x 26	312.260.57.28
30	57	57	10 x 26	312.300.57.28
32	57	57	10 x 26	312.320.57.28
35	57	57	10 x 26	312.350.57.28
40	57	57	10 x 26	312.400.57.28
45	57	57	10 x 26	312.450.57.28
15	70	70	10 x 26	312.150.70.28
16	70	70	10 x 26	312.160.70.28
18	70	70	10 x 26	312.180.70.28
20	70	70	10 x 26	312.200.70.28
22	70	70	10 x 26	312.220.70.28
25	70	70	10 x 26	312.250.70.28
26	70	70	10 x 26	312.260.70.28
30	70	70	10 x 26	312.300.70.28
35	70	70	10 x 26	312.350.70.28
40	70	70	10 x 26	312.400.70.28

LH	Ø	LT	S	CODE
15	57	57	10 x 26	312.150.57.29
16	57	57	10 x 26	312.160.57.29
18	57	57	10 x 26	312.180.57.29
20	57	57	10 x 26	312.200.57.29
22	57	57	10 x 26	312.220.57.29
25	57	57	10 x 26	312.250.57.29
26	57	57	10 x 26	312.260.57.29
30	57	57	10 x 26	312.300.57.29
32	57	57	10 x 26	312.320.57.29
35	57	57	10 x 26	312.350.57.29
40	57	57	10 x 26	312.400.57.29
45	57	57	10 x 26	312.450.57.29
15	70	70	10 x 26	312.150.70.29
16	70	70	10 x 26	312.160.70.29
18	70	70	10 x 26	312.180.70.29
20	70	70	10 x 26	312.200.70.29
22	70	70	10 x 26	312.220.70.29
25	70	70	10 x 26	312.250.70.29
26	70	70	10 x 26	312.260.70.29
30	70	70	10 x 26	312.300.70.29
35	70	70	10 x 26	312.350.70.29
40	70	70	10 x 26	312.400.70.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



313

## PUNTA PER CERNIERE

Hinge boring bit  
Zylinderkopfbohrer  
Mèche à façonner à fond plat

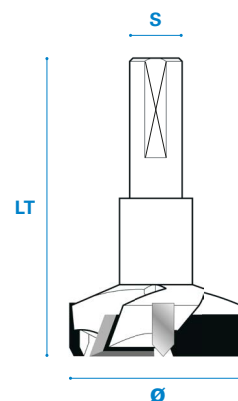
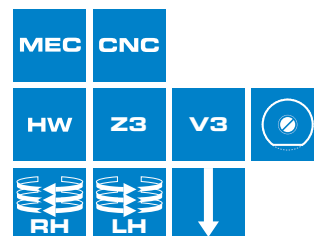


RH	Ø	LT	S	CODE
	25	57	10 x 26	313.250.00.28
	26	57	10 x 26	313.260.00.28
	30	57	10 x 26	313.300.00.28
	35	57	10 x 26	313.350.00.28
	38	57	10 x 26	313.380.00.28
	40	57	10 x 26	313.400.00.28

LH	Ø	LT	S	CODE
	25	57	10 x 26	313.250.00.29
	26	57	10 x 26	313.260.00.29
	30	57	10 x 26	313.300.00.29
	35	57	10 x 26	313.350.00.29
	38	57	10 x 26	313.380.00.29
	40	57	10 x 26	313.400.00.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA

€

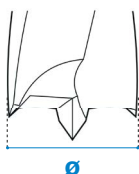


332

PUNTA PER FORI CIECHI  
CON ATTACCO FILETTATO

Blind holes dowel drill with threaded shank  
Dübellochbohrer mit Gewindenschaft  
Mèche à tourillonner avec filetage extérieur

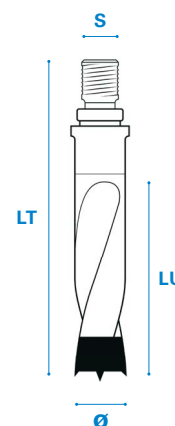
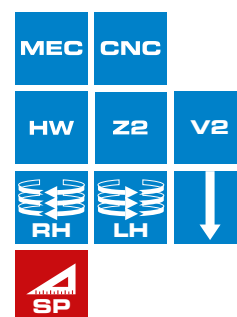
Vitap BIESSE MORBIDELLI WEEKE TORWEGGE  
masterwood NOTMEYER



RH	Ø	LU	LT	S	CODE
	5	40	60	M10/11	332.050.40.28
	6	40	60	M10/11	332.060.40.28
	8	40	60	M10/11	332.080.40.28
	10	40	60	M10/11	332.100.40.28
	12	40	60	M10/11	332.120.40.28

LH	Ø	LU	LT	S	CODE
	5	40	60	M10/11	332.050.40.29
	6	40	60	M10/11	332.060.40.29
	8	40	60	M10/11	332.080.40.29
	10	40	60	M10/11	332.100.40.29
	12	40	60	M10/11	332.120.40.29

€



333

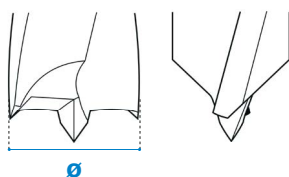
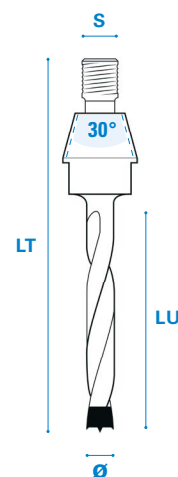
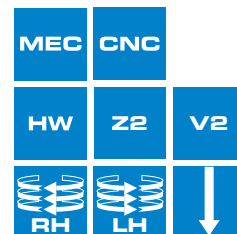
### PUNTA PER FORI CIECHI CON ATTACCO FILETTATO CONICO 30°

Blind holes dowel drill with 30° threaded conical shank  
Dübellochbohrer mit 30° konischen-Gewindeschaft  
Mèche à tourillonner avec filetage extérieur cône 30°

Vitap

RH	Ø	LU	LT	S	CODE
	5	40	60	M10/30°	333.050.40.28
	6	40	60	M10/30°	333.060.40.28
	8	40	60	M10/30°	333.080.40.28
	10	40	60	M10/30°	333.100.40.28
	12	40	60	M10/30°	333.120.40.28

LH	Ø	LU	LT	S	CODE
	5	40	60	M10/30°	333.050.40.29
	6	40	60	M10/30°	333.060.40.29
	8	40	60	M10/30°	333.080.40.29
	10	40	60	M10/30°	333.100.40.29
	12	40	60	M10/30°	333.120.40.29



### PUNTA PER CERNIERE A COLTELLI REVERSIBILI

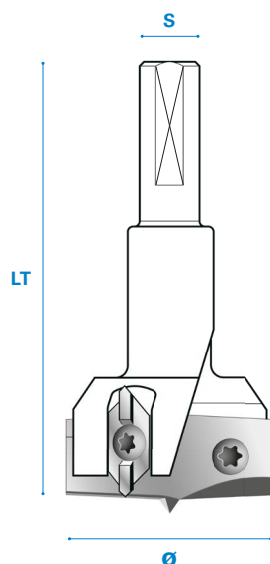
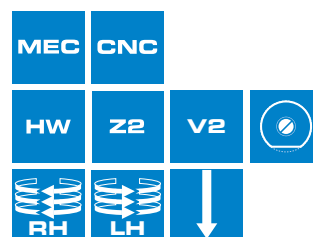
Reversible knife hinge boring bit  
Wendeplatten Zylinderkopfbohrer  
Mèche à façonner à plaquettes réversibles

RH	Ø	LT	S	CODE
	25	57	10 x 26	335.250.00.08
	26	57	10 x 26	335.260.00.08
	30	57	10 x 26	335.300.00.08
	35	57	10 x 26	335.350.00.08
	40	57	10 x 26	335.400.00.08
	35	70	10 x 26	335.350.70.08

LH	Ø	LT	S	CODE
	25	57	10 x 26	335.250.00.09
	26	57	10 x 26	335.260.00.09
	30	57	10 x 26	335.300.00.09
	35	57	10 x 26	335.350.00.09
	40	57	10 x 26	335.400.00.09
	35	70	10 x 26	335.350.70.09

Ricambi - Spare parts - Ersatzteile - Pièces de rechange

	Ø	CODE
	Ø25	901.240.13.08
		901.240.13.09
	Ø26	901.250.13.08
		901.250.13.09
	Ø30	901.290.13.08
		901.290.13.09
	Ø35	901.340.13.08
		901.340.13.09
	Ø40	901.390.13.08
		901.390.13.09
		901.180.08.00
	Ø25-26 TORX®15 M4x6 D5,6 L8	902.040.06.56
	Ø30-40 TORX®15 M4x8 D5,6 L10	902.040.08.56
	TORX®15 M4x6 D5,6 L8	902.040.06.56
	TORX®15	903.003.15.00
	M5x10	902.050.10.TA
<b>Optional</b>		<b>CODE</b>
	TORX®15	903.150.00.00



# 337 337B

## PUNTA PER FORI PASSANTI 45° IN METALLO DURO INTEGRALE

Solid carbide dowel drill 45° for through hole  
Durchgangslochbohrer 45° aus Vollhartmetall  
Mèche à tourillonner pour trous débouchants carbure monobloc 45°

UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

338

351

352

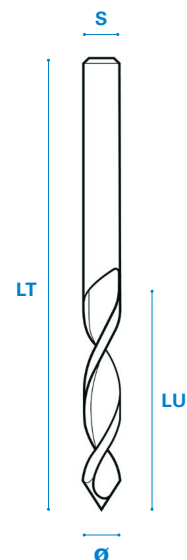
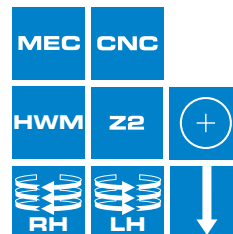


RH	Ø	LU	LT	S	CODE
2	14	50	2		337.020.14.28
2,5	16	50	2,5		337.025.16.28
3	18	50	3		337.030.18.28
3,2	18	50	3,2		337.032.18.28
3,5	20	50	3,5		337.035.20.28
4	20	50	4		337.040.20.28
5	25	50	5		337.050.25.28

LH	Ø	LU	LT	S	CODE
2	14	50	2		337.020.14.29
2,5	16	50	2,5		337.025.16.29
3	18	50	3		337.030.18.29
3,2	18	50	3,2		337.032.18.29
3,5	20	50	3,5		337.035.20.29
4	20	50	4		337.040.20.29
5	25	50	5		337.050.25.29

RH	Ø	LU	LT	S	CODE
3	30	60	3		337B.030.0HWM
3,5	30	60	3,5		337B.035.0HWM
4	30	60	4		337B.040.0HWM
4,5	30	60	4,5		337B.045.0HWM
5	30	60	5		337B.050.0HWM
5,5	30	60	5,5		337B.055.0HWM

€



73

# 350 350P

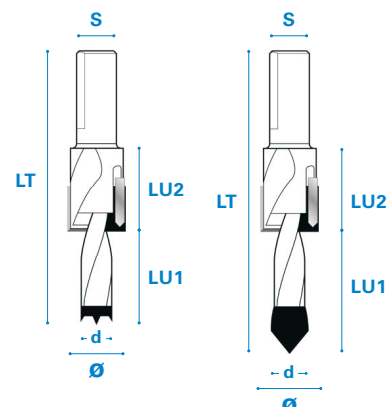
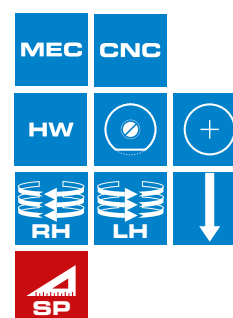
## PUNTA PER DOPPIO FORO PIANO

Step drill bit  
Stufenbohrer  
Mèche étagée



Ø	d	LU1	LU2	LT	CODE
on request					
Ricambi - Spare parts - Ersatzteile - Pièces de rechange					
M5x10					902.050.10.TA

€



350



350P

352

## SVASATORE PORTA PUNTE 45°

Countersink drill holder 45°

Aufsteckversenker für die Befestigung an Spiralbohrern 45°

Fraisoir porte-mèche à 45°

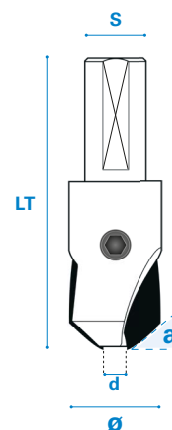
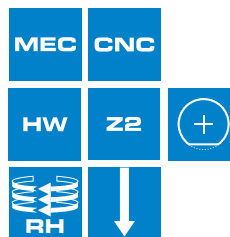
UTILIZZARE CON **337**  
To be used with  
Benutzung mit **337 B**  
À utiliser avec



RH	a	ø	d	LT	S	CODE
45°	2	16	40	10		352.020.00.28
45°	2,5	16	40	10		352.025.00.28
45°	3	16	55	10		352.030.00.28
45°	3,2	16	55	10		352.032.00.28
45°	3,5	16	55	10		352.035.00.28
45°	4	16	55	10		352.040.00.28
45°	5	16	55	10		352.050.00.28

LH	a	ø	d	LT	S	CODE
45°	2	16	40	10		352.020.00.29
45°	2,5	16	40	10		352.025.00.29
45°	3	16	55	10		352.030.00.29
45°	3,2	16	55	10		352.032.00.29
45°	3,5	16	55	10		352.035.00.29
45°	4	16	55	10		352.040.00.29
45°	5	16	55	10		352.050.00.29

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
ø2  2 M4x5	902.040.05.00
3 M5x5	902.050.05.00



74

353  
353P

## PUNTA PER DOPPIO FORO SVASATO 45°

Countersink step drill bit 45°

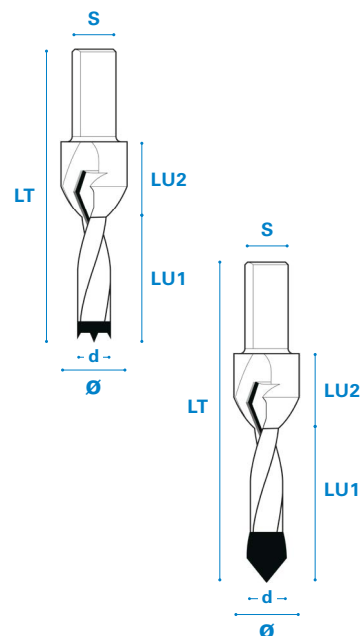
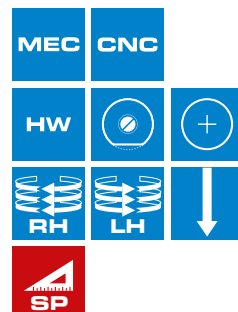
Stufenbohrer mit Versenker 45°

Mèche étagée 45°



ø	d	LU1	LU2	LT
on request				

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA



353



353P

370

## SISTEMA DI FORATURA FLESSIBILE CON COLTELLO REVERSIBILE E ATTACCO INTERCAMBIABILE

Flexible drilling system with reversible knife and Interchangeable shank  
Flexible Bohrsystem mit Wendemesser und Wechselschaft  
Système de perçage flexible avec plaquette réversible et queue interchangeable

### TYPE 1



Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE
15→22	27	M8	370.000.01.08
Ø	CODE		
15	901.150.01.08		
16	901.160.01.08		
17	901.170.01.08		
18	901.180.01.08		
19	901.190.01.08		
20	901.200.01.08		
21	901.210.01.08		
22	901.220.01.08		



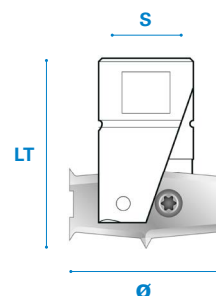
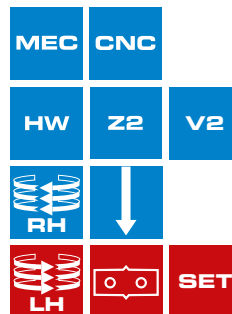
€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
TORX®7 M2,5x3 D3 L4,5	902.025.45.30



Optional	CODE
TORX®7	903.003.07.00



**UTILIZZARE CON**  
To be used with  
Benutzung mit  
À utiliser avec

372

### TYPE 2



Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE
23→30	27	M8	370.000.02.08
Ø	CODE		
23	901.230.02.08		
24	901.240.02.08		
25	901.250.02.08		
26	901.260.02.08		
27	901.270.02.08		
28	901.280.02.08		
29	901.290.02.08		
30	901.300.02.08		



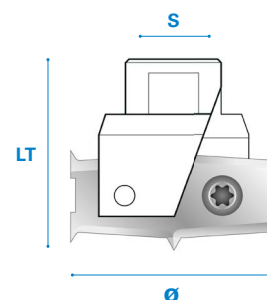
€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
TORX®15 M4x6 D5,6 L8	902.040.06.56



Optional	CODE
TORX®15	903.003.15.00



**UTILIZZARE CON**  
To be used with  
Benutzung mit  
À utiliser avec

372

### TYPE 3



Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE
32→40	27	M8	370.000.03.08
Ø	CODE		
32	901.320.03.08		
33	901.330.03.08		
34	901.340.03.08		
35	901.350.03.08		
36	901.360.03.08		
37	901.370.03.08		
38	901.380.03.08		
40	901.400.03.08		



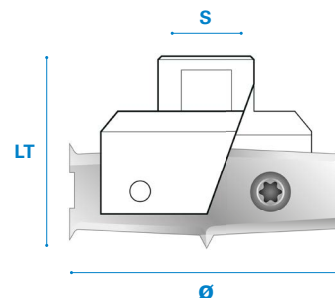
€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
TORX®15 M4x8 D5,6 L10	902.040.08.56



Optional	CODE
TORX®15	903.003.15.00



**UTILIZZARE CON**  
To be used with  
Benutzung mit  
À utiliser avec

372

372

**ATTACCO CILINDRICO**

Cylindrical shank  
Zylindrischer Schaft  
Rallonge filetée

**UTILIZZARE CON**

To be used with  
Benutzung mit  
À utiliser avec

370

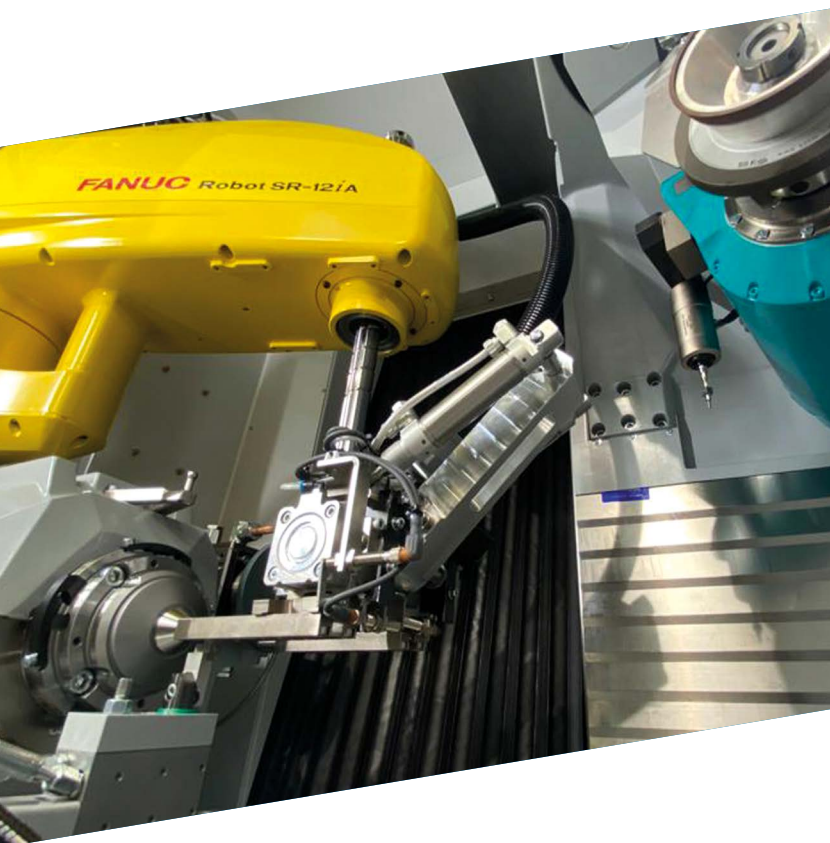
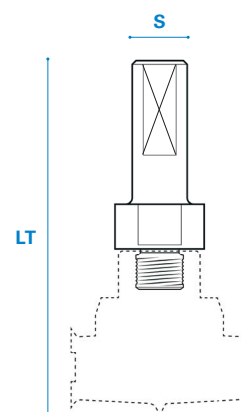


RH	LT	M	S	CODE
	57	8	10	372.100.57.08
	70	8	10	372.100.70.08
	77	8	10	372.100.77.08

LH	LT	M	S	CODE
	57	8	10	372.100.57.09
	70	8	10	372.100.70.09
	77	8	10	372.100.77.09

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
M5x10	902.050.10.TA

€



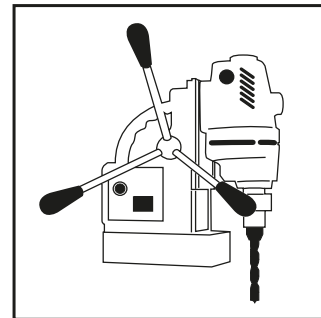


# INDICE | INDEX

## UTENSILI PER TRAPANI E CAVETTATRICI

TOOLS FOR DRILLING MACHINES AND SLOTTING MACHINES  
WERKZEUGE FÜR BOHRMASCHINEN UND LANGLOCHBOHRMASCHINEN  
MÈCHES POUR PERCEUSES ET MORTAISEUSES

# D



**323**  
p.78



**324**  
p.78



**329**  
p.79



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p.79



**350AN**  
p.80



**354**  
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**370**  
p.81



**371**  
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**413**  
p.83



**414**  
p.83



**415**  
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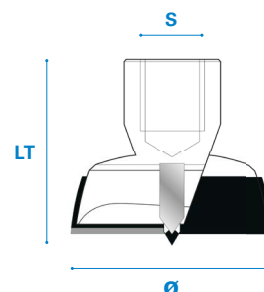
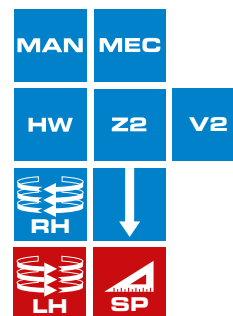
### PUNTA INTERCAMBIABILE PER CERNIERE - M12 ELU®

Interchangeable hinge boring bit - M12 Elu®  
Zylinderkopfbohrer wechelschaft-ausführung - M12 Elu®  
Tête à façonner interchangeables - M12 Elu®

UTILIZZARE CON **321**  
To be used with  
Benutzung mit **322**  
A utiliser avec



Ø	LT	S	CODE
20	30	M12 x 1	323.200.00.28
22	30	M12 x 1	323.220.00.28
24	30	M12 x 1	323.240.00.28
25	30	M12 x 1	323.250.00.28
26	30	M12 x 1	323.260.00.28
28	30	M12 x 1	323.280.00.28
30	30	M12 x 1	323.300.00.28
32	30	M12 x 1	323.320.00.28
35	30	M12 x 1	323.350.00.28
38	30	M12 x 1	323.380.00.28
40	30	M12 x 1	323.400.00.28
45	30	M12 x 1	323.450.00.28
48	30	M12 x 1	323.480.00.28
50	30	M12 x 1	323.500.00.28
55	42	M12 x 1	323.550.00.28
60	42	M12 x 1	323.600.00.28



78

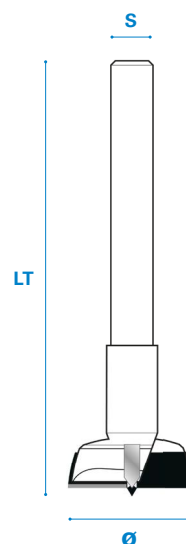
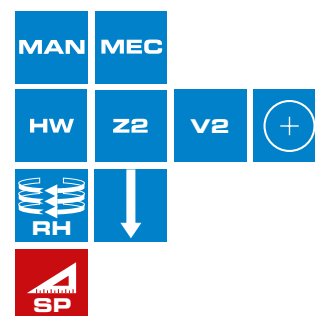
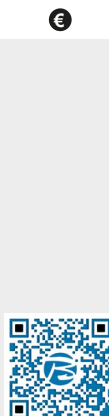
324

### PUNTA PER CERNIERE CON ATTACCO CILINDRICO

Hinge boring bit with cylindrical shank  
Zylinderkopfbohrer mit zylindrischem Schaft  
Mèche à façonner à fond plat avec queue cylindrique



Ø	LT	S	CODE
8	90	10 x 60	324.080.00.28
10	90	10 x 60	324.100.00.28
12	90	10 x 60	324.120.00.28
14	90	10 x 60	324.140.00.28
15	90	10 x 60	324.150.00.28
16	90	10 x 60	324.160.00.28
17	90	10 x 60	324.170.00.28
18	90	10 x 60	324.180.00.28
19	90	10 x 60	324.190.00.28
20	90	10 x 60	324.200.00.28
22	90	10 x 60	324.220.00.28
24	90	10 x 60	324.240.00.28
25	90	10 x 60	324.250.00.28
26	90	10 x 60	324.260.00.28
28	90	10 x 60	324.280.00.28
30	90	10 x 60	324.300.00.28
32	90	10 x 60	324.320.00.28
34	90	10 x 60	324.340.00.28
35	90	10 x 60	324.350.00.28
36	90	10 x 60	324.360.00.28
38	90	10 x 60	324.380.00.28
40	90	10 x 60	324.400.00.28
45	90	10 x 60	324.450.00.28
48	90	10 x 60	324.480.00.28
50	90	10 x 60	324.500.00.28



329

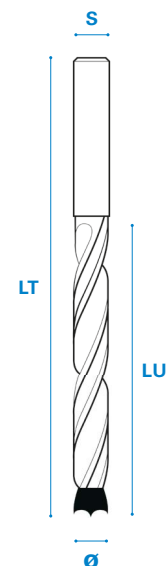
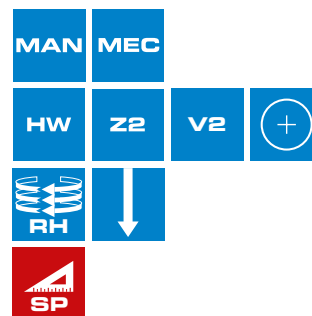
## PUNTA ELICOIDALE PER FORI CIECHI

Spiral Bit for blind holes  
Dübelbohrer  
Mèche hélicoïdale à percer pour trous borgne



Ø	LU	LT	S	CODE
5	60	90	5	329.050.00.28
6	65	100	6	329.060.00.28
7	70	110	7	329.070.00.28
8	75	120	8	329.080.00.28
9	80	130	9	329.090.00.28
10	90	140	10	329.100.00.28
11	95	150	11	329.110.00.28
12	100	155	12	329.120.00.28
14	105	160	14	329.140.00.28
10	200	250	10	329.100.S1028
12	200	250	10	329.120.S1028
14	200	250	16	329.140.S1628
16	200	250	16	329.160.S1628

€



79

336

## PUNTA PER CERNIERE A COLTELLI REVERSIBILI CON ATTACCO CILINDRICO

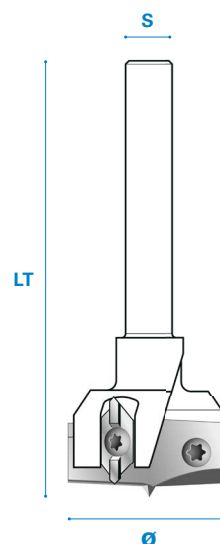
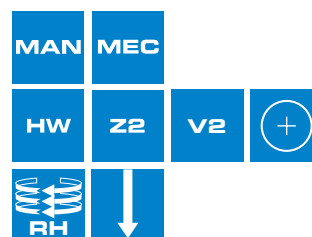
Reversible knife hinge boring bit with cylindrical shank  
Wendeplatten Zylinderkopfböhrer mit zylindrischem Schaft  
Mèche à façonné à plaquettes réversibles avec queue cylindrique



Ø	LT	S	CODE
25	90	10 x 60	336.250.00.08
26	90	10 x 60	336.260.00.08
30	90	10 x 60	336.300.00.08
35	90	10 x 60	336.350.00.08

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
X2	Z2	Ø25	901.240.13.08
X2	Z2	Ø26	901.250.13.08
X2	Z2	Ø30	901.290.13.08
X2	Z2	Ø35	901.340.13.08
		Ø25-26 TORX®15 M4x6 D5,6 L8	902.040.06.56
		Ø30-35 TORX®15 M4x8 D5,6 L10	902.040.08.56
X2			901.180.08.00
		TORX®15 M4x6 D5,6 L8	902.040.06.56



Optional	CODE
TORX®15	903.150.00.00

# 350AN

## PUNTA PER CERNIERE ANUBA® CON ATTACCO CILINDRICO NOMINALE

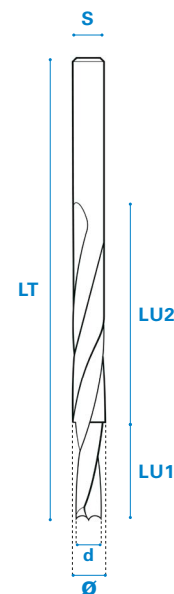
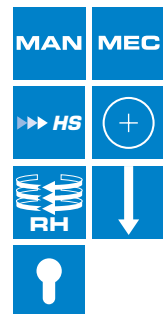
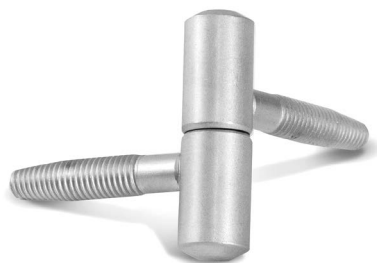
Stepdrill for ANUBA® hinges with nominal cylindrical shank  
Stufenbohrer für ANUBA® mit nominalen zylindrischem Schaft  
Mèche pour charnières ANUBA® avec queue cylindrique nominale

COMPATIBILE CON  
Compatible with  
Passend für  
Compatible avec

# ANUBA

	Ø	d	LU1	LU2	LT	S	CODE
ANUBA® 13	6,75	5,7	20	45	105	6,75	A13.350AN.675
ANUBA® 13	6,7	5,3	18	50	155	6,7	A13.350AN.670
ANUBA® 14	7,25	6,25	20	45	105	7,25	A14.350AN.725
ANUBA® 16	7,75	6,5	20	50	110	7,75	A16.350AN.775
ANUBA® 16	7,7	6,1	25	60	165	7,7	A16.350AN.770
ANUBA® 18	8,5	6,7	25	45	110	8,5	A18.350AN.850
ANUBA® 18	8,7	7,4	25	60	165	8,7	A18.350AN.870
ANUBA® 20	9,7	8,1	25	65	165	9,7	A20.350AN.970

€



80

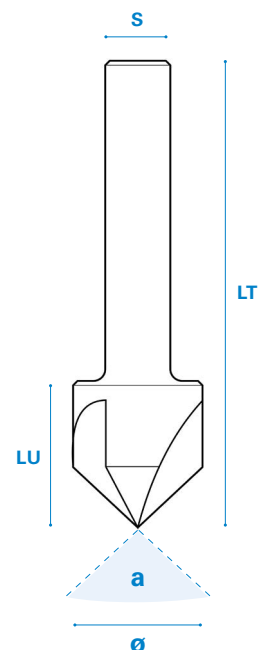
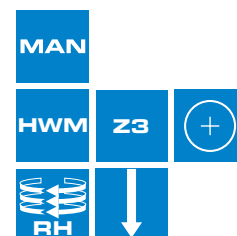
# 354

## SVASATORE 90° IN METALLO DURO INTEGRALE

Coutersink 90° with cylindrical shank  
Versenken 90° mit zylindrischem Schaft  
Fraisoir 90° avec queue cylindrique

a	Ø	LU	LT	S	CODE
90°	19,5	9,5	73	10 x 50	354.090.10.00

€



370

## SISTEMA DI FORATURA FLESSIBILE CON COLTELLO REVERSIBILE E ATTACCO INTERCAMBIABILE

Flexible drilling system with reversible knife and Interchangeable shank  
Flexible Bohrsystem mit Wendemesser und Wechselschaft  
Système de perçage flexible avec plaquette réversible et queue interchangeable

### TYPE 1

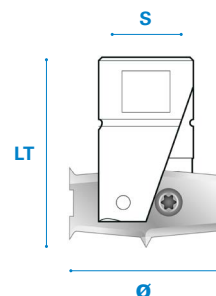
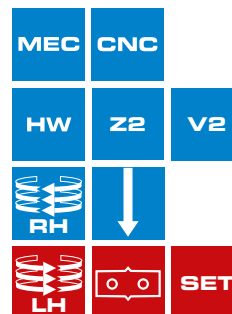


Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE	€
15→22	27	M8	370.000.01.08	
Ø	CODE			
15	901.150.01.08			
16	901.160.01.08			
17	901.170.01.08			
18	901.180.01.08			
19	901.190.01.08			
20	901.200.01.08			
21	901.210.01.08			
22	901.220.01.08			



UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

371

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### TYPE 2

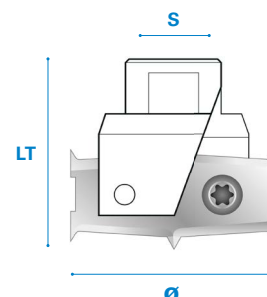


Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE	€
23→30	27	M8	370.000.02.08	
Ø	CODE			
23	901.230.02.08			
24	901.240.02.08			
25	901.250.02.08			
26	901.260.02.08			
27	901.270.02.08			
28	901.280.02.08			
29	901.290.02.08			
30	901.300.02.08			



UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

371

373

### TYPE 3

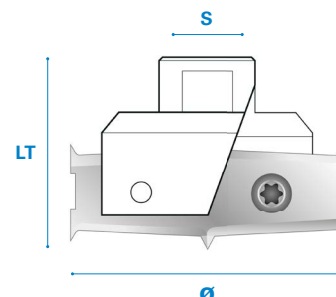


Optional Art.901P



**COLTELLO REVERSIBILE PER FORO PASSANTE**  
Through-hole reversible knife  
Durchgangslöcherbohrer Wendemesser  
Plaquettes trous débouchants

Ø	LT	S	CODE	€
32→40	27	M8	370.000.03.08	
Ø	CODE			
32	901.320.03.08			
33	901.330.03.08			
34	901.340.03.08			
35	901.350.03.08			
36	901.360.03.08			
37	901.370.03.08			
38	901.380.03.08			
40	901.400.03.08			



UTILIZZARE CON  
To be used with  
Benutzung mit  
À utiliser avec

371

373

371

**ATTACCO CILINDRICO**

Cylindrical shank  
Zylindrischer Schaft  
Rallonge filetée à queue cylindrique

**UTILIZZARE CON**

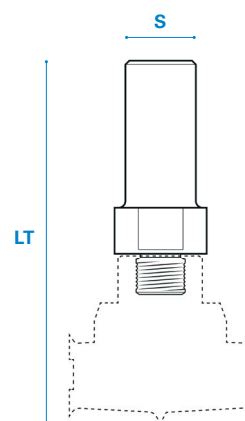
To be used with  
Benutzung mit  
À utiliser avec

370



LT	S	CODE
60	8	371.080.60.08
60	10	371.100.60.08
60	12	371.120.60.08
90	10	371.100.90.08
140	13	371.130.00.08
126	16	371.160.00.08

€



82

373

**ADATTATORE M10 Scheer® - M12 Elu®**

Adapter M10 Scheer® - M12 Elu®  
Adapter M10 Scheer® - M12 Elu®  
Adaptateur M10 Scheer® - M12 Elu®

**UTILIZZARE CON**

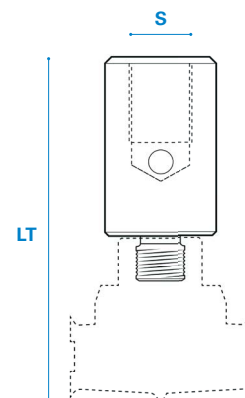
To be used with  
Benutzung mit  
À utiliser avec

370



LT	S		CODE
58	M10 x 1,5	Scheer®	373.M10.58.08
58	M12 x 1	Elu®	373.M12.58.08

€

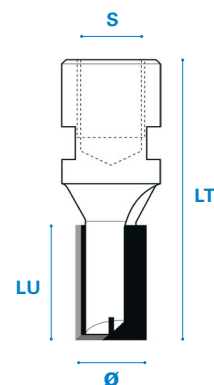


413

**FRESA PER SEDE PIASTRINA SU PORTE - M12 Elu®***Straight bit for door look housing - M12 Elu®**Nutfräser für Schlüsselloch. - M12 Elu®**Mèche à rainer avec coupe frontale - M12 Elu®*

Ø	LU	LT	S	CODE
18	25	60	M12 x 1	413.180.00.28
20	25	60	M12 x 1	413.200.00.28
22	25	60	M12 x 1	413.220.00.28
24	25	60	M12 x 1	413.240.00.28

€



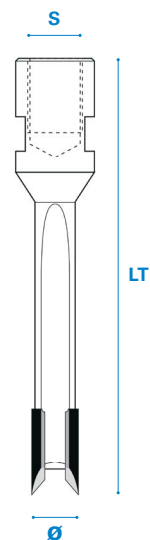
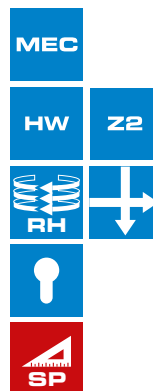
83

414

**PUNTA PER SEDE SERRATURA - M12 Elu®***Door Lock Mortise bit - M12 Elu®**Fräser für Schlosskasten - M12 Elu®**Mèche pour serrures - M12 Elu®*

Ø	LT	S	CODE
10	100	M12 x 1	414.100.00.28
11	100	M12 x 1	414.110.00.28
12	100	M12 x 1	414.120.00.28
14	100	M12 x 1	414.140.00.28
14	125	M12 x 1	414.140.25.28
15	100	M12 x 1	414.150.00.28
15	125	M12 x 1	414.150.25.28
16	100	M12 x 1	414.160.00.28
16	125	M12 x 1	414.160.25.28

€

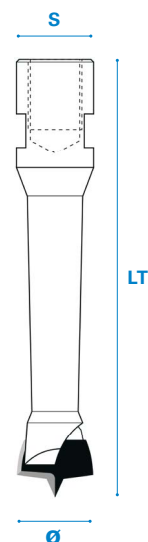
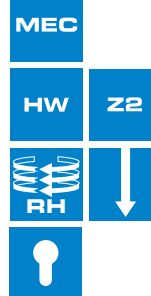


415

**PUNTA PER FORO MANIGLIA - M12 Elu®***Door handle boring bit - M12 Elu®**Türgriff-Bohrer - M12 Elu®**Mèche à percer pour poignée - M12 Elu®*

Ø	LT	S	CODE
15	100	M12 x 1	415.150.00.28
18	100	M12 x 1	415.180.00.28
20	100	M12 x 1	415.200.00.28
22	100	M12 x 1	415.220.00.28
24	100	M12 x 1	415.240.00.28

€



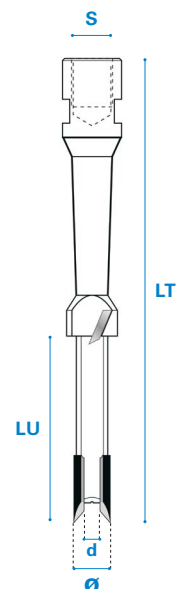
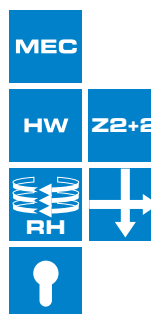
84

417

**PUNTA PER ASOLA E FORO - M12 Elu®***Slot boring bit - M12 Elu®**Ausfräsen von Schlosskasten und Drückerlöchern - M12 Elu®**Mèche pour défonçage et perçage - M12 Elu®*

Ø	d	LU	LT	S	CODE
19	11	62	155	M12 x 1	417.190.11.28
19	12	70	173	M12 x 1	417.190.12173
19	12	62	155	M12 x 1	417.190.12.28
22	11	62	155	M12 x 1	417.220.11.28
24	12	62	155	M12 x 1	417.240.12.28

€



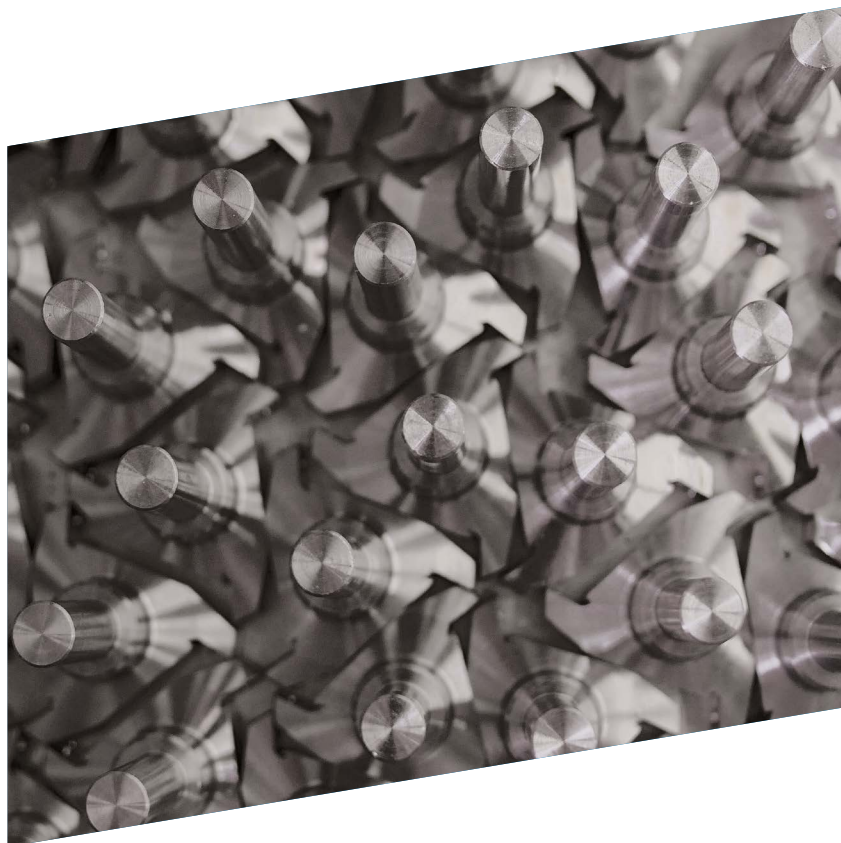
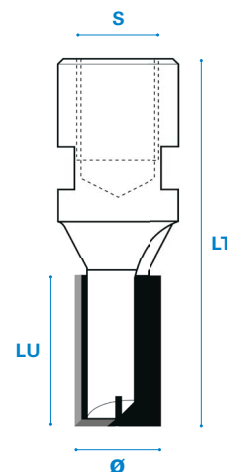


418

**FRESA PER SEDE PIASTRINA SU PORTE - M12 Elu®***Straight bit for door lock housing - M12 Elu®**Nutfräser für Schlüsselloch. - M12 Elu®**Mèche à rainier avec coupe frontale - M12 Elu®*

Ø	LU	LT	S	CODE
18	15	48	M12 x 1	418.180.00.28
20	15	48	M12 x 1	418.200.00.28
22	15	48	M12 x 1	418.220.00.28
23	15	48	M12 x 1	418.230.00.28
24	15	48	M12 x 1	418.240.00.28
25	15	48	M12 x 1	418.250.00.28

€



# INDICE | INDEX

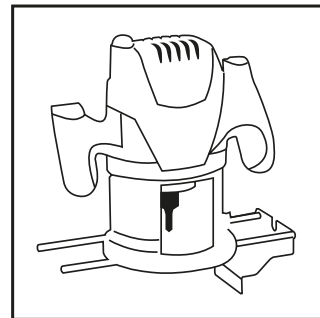
## UTENSILI SAGOMATI PER PANTOGRAFI PORTATILI

PROFILED TOOLS FOR PORTABLE ROUTERS

PROFILFRÄSER FÜR HANDBERFRÄSER

FRAISES AVEC TRANCHANT PROFILÉ POUR DÉFONCEUSES PORTATIVES

# E



211

**FRESA A RAGGIO CONCAVO - M12 Elu®**

Roundover router bit - M12 Elu®

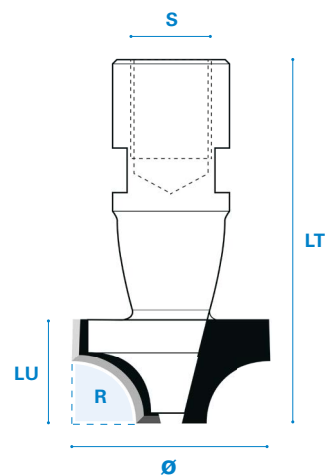
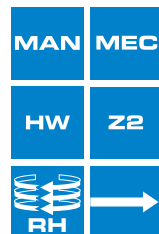
Viertelstabfräser - M12 Elu®

Mèche 1/4 de rond - M12 Elu®



R	Ø	LU	LT	S	CODE
4	20	10	60	M12 x 1	211.040.00.28
5	22	12	60	M12 x 1	211.050.00.28
6	24	13	60	M12 x 1	211.060.00.28
8	28	15	60	M12 x 1	211.080.00.28
10	32	17	60	M12 x 1	211.100.00.28
12,5	37	20	60	M12 x 1	211.125.00.28
15	42	23	60	M12 x 1	211.150.00.28
20	52	27	70	M12 x 1	211.200.00.28

€



88

212

**FRESA A RAGGIO CONCAVO  
CON CUSCINETTO - M12 Elu®**

Roundover router bit with ball bearing - M12 Elu®

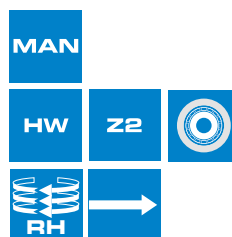
Viertelstabfräser mit Kugellager - M12 Elu®

Mèche 1/4 de rond avec roulement - M12 Elu®



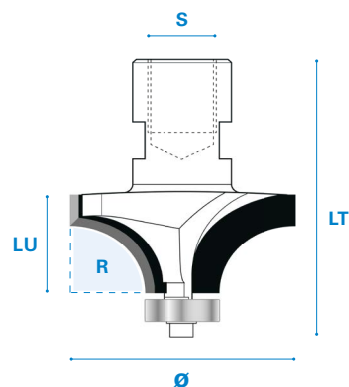
R	Ø	LU	LT	S	CODE
6	26	13	60	M12 x 1	212.060.00.28
7,5	29	15	60	M12 x 1	212.075.00.28
10	34	17	60	M12 x 1	212.100.00.28
15	44	19	60	M12 x 1	212.150.00.28
20	57	27	70	M12 x 1	212.200.00.28

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange		CODE
	Ø13/5 H4	904.130.05.00
	R20 Ø16/6 H5	904.160.05.00
	d3,2 D7 S0,5	905.030.07.05
	R20 d4,3 D9 S0,8	905.040.09.08
	Ø 2,5 M3x6	902.030.06.00
	R20 Ø 3 M4x8	902.040.08.00

Optional		CODE
	Ø 2,5	903.025.00.00
	R20 Ø 3	903.030.00.00



213

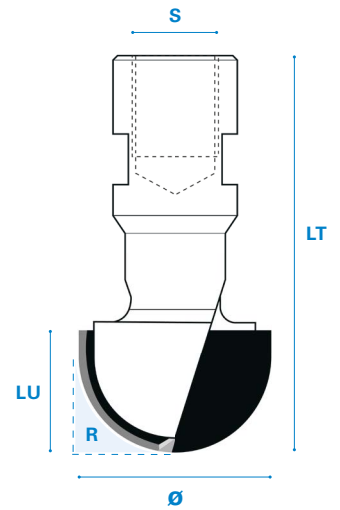
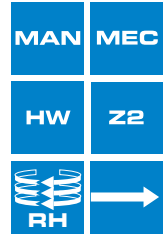
**FRESA A RAGGIO CONVESSO - M12 Elu®**

Core box router bit - M12 Elu®  
 Hohlkehlfräser - M12 Elu®  
 Mèche à gorge - M12 Elu®



R	Ø	LU	LT	S	CODE
8	16	18	60	M12 x 1	213.080.00.28
10	20	18	60	M12 x 1	213.100.00.28
12,5	25	18	60	M12 x 1	213.125.00.28
15	30	18	60	M12 x 1	213.150.00.28

€



89

214

**FRESA A RAGGIO CONVESSO CON CUSCINETTO - M12 Elu®**

Cove router bit with ball bearing - M12 Elu®  
 Hohlkehlfräser mit Kugellager - M12 Elu®  
 Mèche à gorge avec roulement - M12 Elu®



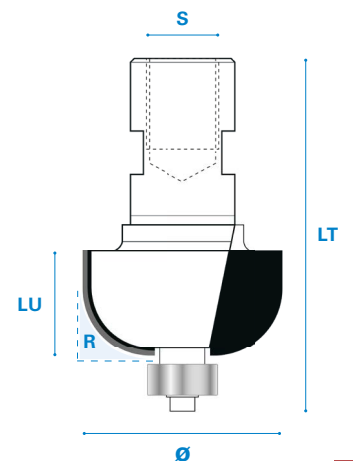
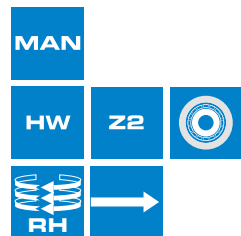
R	Ø	LU	LT	S	CODE
6	25	18	60	M12 x 1	214.060.00.28
7,5	28	18	60	M12 x 1	214.075.00.28
10	33	18	60	M12 x 1	214.100.00.28

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
 Ø13/5 H4	904.130.05.00
 d3,2 D7 S0,5	905.030.07.05
 Ø 2,5 M3x6	902.030.06.00



Optional	CODE
 Ø 2,5	903.025.00.00



518

## FRESA A RAGGIO CONVESSO CON CUSCINETTO

Cove router bit with ball bearing  
Hohlkehlfräser mit Kugellager  
Mèche à gorge avec roulement



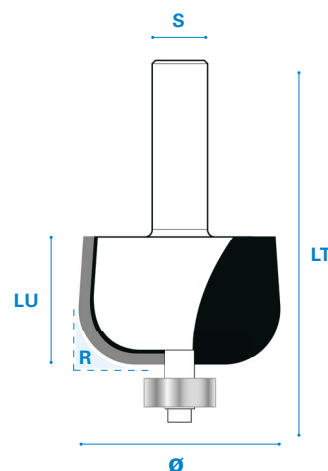
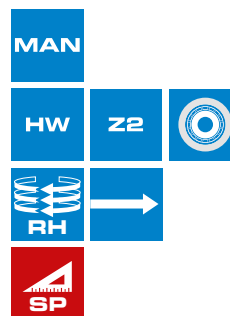
R	Ø	LU	LT	S	CODE
5	20	12	50	6 x 30	518.050.00600
6	22	14	50	6 x 30	518.060.00600
8	26	16	60	6 x 30	518.080.00600
10	30	18	60	6 x 30	518.100.00600
5	20	12	50	8 x 30	518.050.00800
6	22	14	50	8 x 30	518.060.00800
8	26	16	60	8 x 30	518.080.00800
10	30	18	60	8 x 30	518.100.00800
12,7	30	18	60	8 x 30	518.127.00800



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
Ø13/5 H4	904.130.05.00
d3,2 D7 S0,5	905.030.07.05
Ø 2,5 M3x6	902.030.06.00



Optional	CODE
Ø 2,5	903.025.00.00



90

519

## FRESA A RAGGIO CONCAVO CON CUSCINETTO

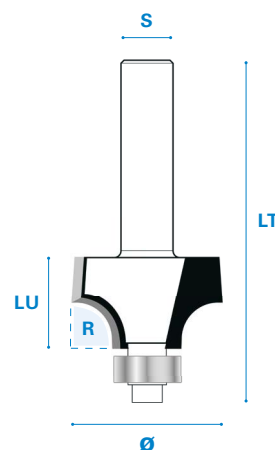
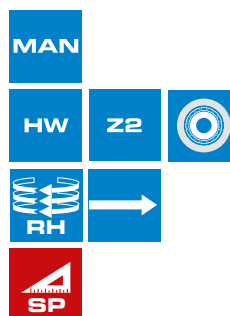
Roundover router bit with ball bearing  
Viertelstabfräser mit Kugellager  
Mèche 1/4 de rond avec roulement



R	Ø	LU	LT	S	CODE
2	15	9	45	6 x 30	519.020.00600
3	17	9	45	6 x 30	519.030.00600
4	19	10	50	6 x 30	519.040.00600
5	21	12	50	6 x 30	519.050.00600
6	23	13	50	6 x 30	519.060.00600
8	27	15	55	6 x 30	519.080.00600
10	31	17	55	6 x 30	519.100.00600
2	15	9	45	8 x 30	519.020.00800
3	17	9	45	8 x 30	519.030.00800
4	19	10	50	8 x 30	519.040.00800
5	21	12	50	8 x 30	519.050.00800
6	23	13	50	8 x 30	519.060.00800
8	27	15	55	8 x 30	519.080.00800
10	31	17	55	8 x 30	519.100.00800
12,7	36,4	19	60	8 x 30	519.127.00800
15	41	21	60	8 x 30	519.150.00800
20	54	26	70	8 x 30	519.200.00800
5	21	12	65	12 x 40	519.050.01200
6	23	13	65	12 x 40	519.060.01200
8	27	15	70	12 x 40	519.080.01200
10	31	17	70	12 x 40	519.100.01200
12,7	36,4	19	75	12 x 40	519.127.01200
15	41	21	75	12 x 40	519.150.01200
20	54	26	80	12 x 40	519.200.01200



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE	
R2→12,7	Ø10/5 H4	904.100.05.00
R15→20	Ø13/5 H4	904.130.05.00
	d3,2 D7 S0,5	905.030.07.05
	Ø 2,5 M3x6	902.030.06.00
	Ø 2,5	903.025.00.00



533

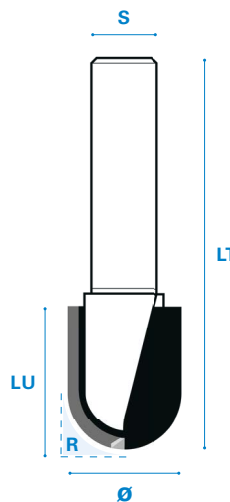
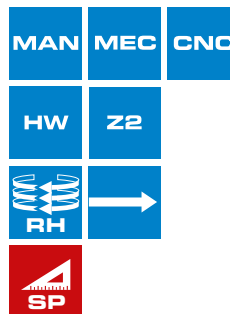
## FRESA A RAGGIO CONVESSO

Core box router bit  
Hohlkehlfräser  
Mèche à gorge



	R	Ø	LU	LT	S	CODE
HWM	3	6	12	50	6 x 30	533.030.00600
HWM	4	8	13	50	6 x 30	533.040.00600
	5	10	15	50	6 x 30	533.050.00600
	6	12	15	50	6 x 30	533.060.00600
	8	16	16	50	6 x 30	533.080.00600
	10	20	18	50	6 x 30	533.100.00600
HWM	3	6	12	50	8 x 30	533.030.00800
HWM	4	8	13	50	8 x 30	533.040.00800
	5	10	15	50	8 x 30	533.050.00800
	6	12	15	50	8 x 30	533.060.00800
	8	16	16	50	8 x 30	533.080.00800
	10	20	18	50	8 x 30	533.100.00800
	5	10	15	60	12 x 40	533.050.01200
	6	12	15	60	12 x 40	533.060.01200
	8	16	16	60	12 x 40	533.080.01200
	10	20	18	60	12 x 40	533.100.01200
	15	30	18	60	12 x 40	533.150.01200

€



91

533 B

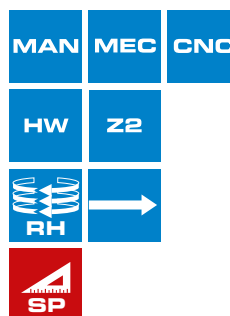
FRESA A RAGGIO CONVESSO  
CON COLTELLI REVERSIBILI

Core box router bit with reversible knives  
Hohlkehlfräser mit Wendemesser  
Mèche à gorge à plaquettes réversibles

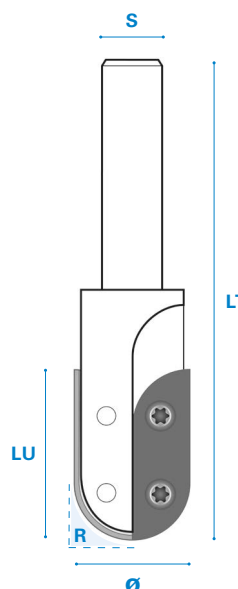


	R	Ø	LU	LT	S	CODE
	7	14	29	75	8 x 30	533B.070.00800
	7,5	15	29	75	8 x 30	533B.075.00800
	8	16	29	75	8 x 30	533B.080.00800
	9	18	29	75	8 x 30	533B.090.00800
	10	20	29	75	8 x 30	533B.100.00800
	11	22	29	75	8 x 30	533B.110.00800
	7	14	29	80	12 x 40	533B.070.01200
	7,5	15	29	80	12 x 40	533B.075.01200
	8	16	29	80	12 x 40	533B.080.01200
	9	18	29	80	12 x 40	533B.090.01200
	10	20	29	80	12 x 40	533B.100.01200
	11	22	29	80	12 x 40	533B.110.01200
	12	24	29	80	12 x 40	533B.120.01200

€



	Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
XCB	Z4 R7 29x7x1,5	901.533B.07.CV
XCB	Z4 R7,5 29x7,5x1,5	901.533B.75.CV
XCB	Z4 R8 29x8x1,5	901.533B.08.CV
XCB	Z4 R9 29x9x1,5	901.533B.09.CV
XCB	Z4 R10 29x10x1,5	901.533B.10.CV
XCB	Z4 R11 29x11x1,5	901.533B.11.CV
XCB	Z4 R12 29x12x1,5	901.533B.12.CV
	R7-R7,5 TORX®15 M3,5x4 D6	902.035.04.60
	R8→12 TORX®15 M3,5x6 D6 L8	902.035.06.60
	Optional TORX®15	903.150.00.00



536

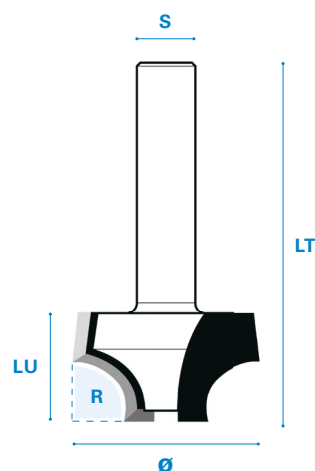
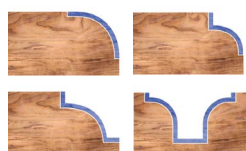
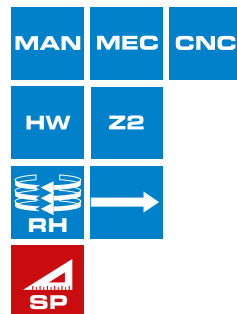
## FRESA A RAGGIO CONCAVO

Roundover router bit  
Viertelstabfräser  
Mèche 1/4 de rond



R	Ø	LU	LT	S	CODE
3	15	8	40	6 x 30	536.030.00600
4	17	10	40	6 x 30	536.040.00600
5	19	11	40	6 x 30	536.050.00600
6	21	13	45	6 x 30	536.060.00600
8	25	15	45	6 x 30	536.080.00600
10	29	17	45	6 x 30	536.100.00600
3	15	8	40	8 x 30	536.030.00800
4	17	10	40	8 x 30	536.040.00800
5	19	11	40	8 x 30	536.050.00800
6	21	13	45	8 x 30	536.060.00800
8	25	15	45	8 x 30	536.080.00800
10	29	17	45	8 x 30	536.100.00800
15	42	19	50	8 x 30	536.150.00800
5	19	11	50	12 x 40	536.050.01200
6	21	13	50	12 x 40	536.060.01200
8	25	15	60	12 x 40	536.080.01200
10	29	17	60	12 x 40	536.100.01200
15	42	19	70	12 x 40	536.150.01200

€



92

536 B

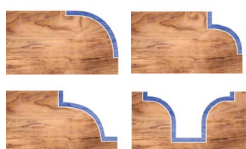
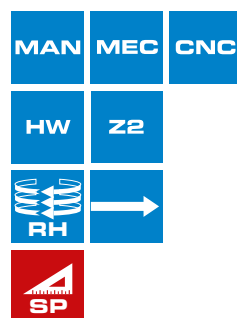
FRESA A RAGGIO CONCAVO  
CON COLTELLI REVERSIBILI

Roundover router bit with reversible knives  
Viertelstabfräser mit Wendemesser  
Mèche 1/4 de rond à plaquettes réversibles



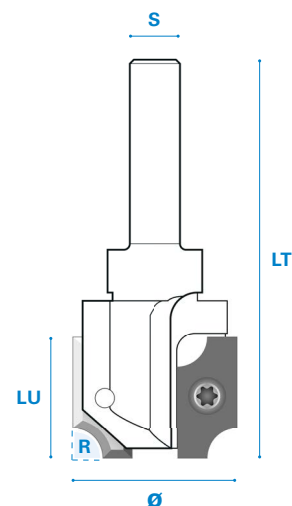
R	Ø	LU	LT	S	CODE
2	26	19,5	65	8 x 30	536B.020.0800
3	26	19,5	65	8 x 30	536B.030.0800
4	26	19,5	65	8 x 30	536B.040.0800
5	26	19,5	65	8 x 30	536B.050.0800
6	32	24,5	70	8 x 30	536B.060.0800
8	32	24,5	70	8 x 30	536B.080.0800
2	26	19,5	75	12 x 40	536B.020.0120
3	26	19,5	75	12 x 40	536B.030.0120
4	26	19,5	75	12 x 40	536B.040.0120
5	26	19,5	75	12 x 40	536B.050.0120
6	32	24,5	80	12 x 40	536B.060.0120
8	32	24,5	80	12 x 40	536B.080.0120

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
XEB	Z4	R2	19,5x9x1,5	901.536.02.CO
XEB	Z4	R3	19,5x9x1,5	901.536.03.CO
XEB	Z4	R4	19,5x9x1,5	901.536.04.CO
XEB	Z4	R5	19,5x9x1,5	901.536.05.CO
XEB	Z4	R6	24,5x12x1,5	901.536.06.CO
XEB	Z4	R8	24,5x12x1,5	901.536.08.CO
	R2→5	TORX®15 M4x6 D5,6 L7,8		902.040.06.58
	R6→8	TORX®15 M4x6 D9 L8		902.040.06.90

Optional	CODE
TORX®15	903.150.00.00



542

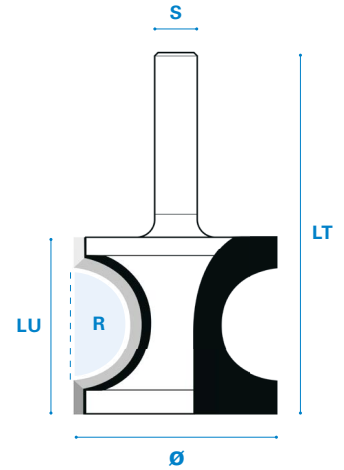
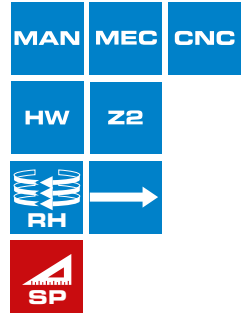
**FRESA A MEZZO TONDO**

Half round router bit  
Halbstabfräser  
Mèche ½ rond



R	∅	LU	LT	S	CODE
4	17	15	45	6 x 30	542.040.00600
5	21	18	50	6 x 30	542.050.00600
6	24	20	50	6 x 30	542.060.00600
8	30	24	55	6 x 30	542.080.00600
4	17	15	45	8 x 30	542.040.00800
5	21	18	50	8 x 30	542.050.00800
6	21	20	50	8 x 30	542.060.00800
8	30	24	55	8 x 30	542.080.00800

€



93

550

**FRESA A RAGGIO CONCAVO/SMUSSO CON COLTELLI REVERSIBILI E CUSCINETTO**

Roundover/chamfer router bit with reversible knives and ball bearing  
Fase/Viertelstabfräser mit Wendemesser und Kugellager  
Mèche 1/4 de rond/à chanfreiner à plaquettes réversibles avec roulement



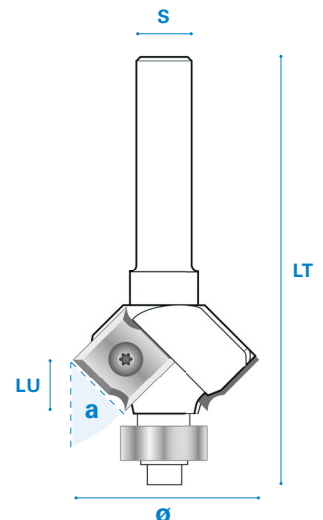
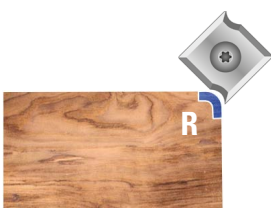
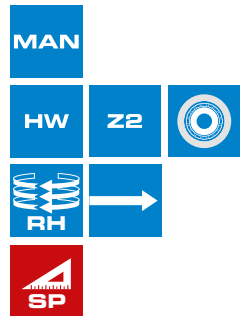
R	a	∅	LU	LT	S	CODE
1,5	45°	28	7	60	8 x 30	550.150.00800
2	45°	28	7	60	8 x 30	550.200.00800
2,5	45°	28	7	60	8 x 30	550.250.00800
3	45°	28	7	60	8 x 30	550.300.00800

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE
		R1,5/45°	12x12x1,5	901.550.03.CO
		R2/45°	12x12x1,5	901.550.03.CO
		R2,5/45°	12x12x1,5	901.550.03.CO
		R3/45°	12x12x1,5	901.550.03.CO
		TORX®15 M4x6 D9 L8		902.040.06.90
		∅13/5 H4		904.130.05.00
		d3,2 D7 S0,5		905.030.07.05
		∅ 2,5 M3x6		902.030.06.00



Optional	CODE
	TORX®15 903.150.00.00
	∅ 2,5 903.025.00.00





581

## FRESA A RAGGIO CONCAVO CON COLTELLI REVERSIBILI E CUSCINETTO

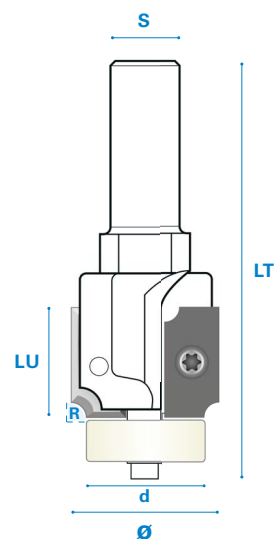
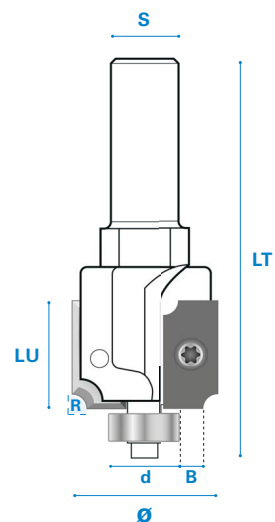
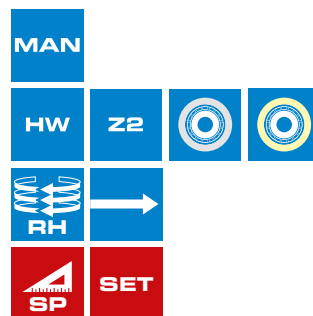
Roundover router bit with reversible knives and ball bearing  
Viertelstabfräser mit Wendemesser und Kugellager  
Mèche 1/4 de rond à plaquettes réversibles avec roulement



R	Ø	d	LU	LT	B	S	CODE
2	26	22-16	19,5	75	0-3	8 x 30	581.020.00800
3	26	20-16	19,5	75	0-2	8 x 30	581.030.00800
4	26	18-13	19,5	75	0-2,5	8 x 30	581.040.00800
5	26	16-13	19,5	75	0-1,5	8 x 30	581.050.00800
6	32	20-10	24,5	80	0-5	8 x 30	581.060.00800
8	32	16-10	24,5	80	0-3	8 x 30	581.080.00800
2	26	22-16	19,5	85	0-3	12 x 40	581.020.01200
3	26	20-16	19,5	85	0-2	12 x 40	581.030.01200
4	26	18-13	19,5	85	0-2,5	12 x 40	581.040.01200
5	26	16-13	19,5	85	0-1,5	12 x 40	581.050.01200
6	32	20-10	24,5	90	0-5	12 x 40	581.060.01200
8	32	16-10	24,5	90	0-3	12 x 40	581.080.01200

€

Ricambi - Spare parts - Ersatzteile - Pièces de rechange				CODE	
		Z4	R2	19,5x9x1,5	901.581.02.CO
		Z4	R3	19,5x9x1,5	901.581.03.CO
		Z4	R4	19,5x9x1,5	901.581.04.CO
		Z4	R5	19,5x9x1,5	901.581.05.CO
		Z4	R6	24,5x12x1,5	901.581.06.CO
		Z4	R8	24,5x12x1,5	901.581.08.CO
		R2→5	TORX®15 M4x4 D5,6 L6,2		902.040.04.58
		R6→8	TORX®15 M4x6 D9 L8		902.040.06.90
		d22	Delrin®		904.220.00.05
		d20	Delrin®		904.200.00.05
		d18	Delrin®		904.180.00.05
			Ø16/5 H5		904.160.05.00
			Ø13/5 H4		904.130.05.00
			Ø10/5 H4		904.100.05.00
			d3,2 D7 S0,5		905.030.07.05
			Ø 2,5 M3x6		902.030.06.00



Optional	CODE	
	TORX®15	903.150.00.00
	Ø 2,5	903.025.00.00



582

## FRESA A RAGGIO CONVESSO A COLTELLI REVERSIBILI CON CUSCINETTO

Cove router bit with reversible knives and ball bearing  
Hohlkehlfräser mit Wendemesser und Kugellager  
Mèche à gorge à plaquettes réversibles avec roulement

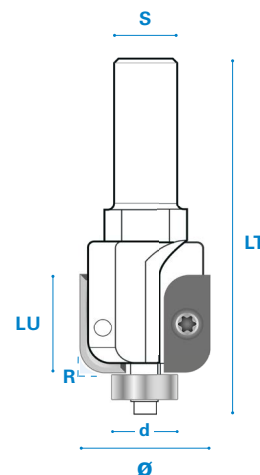
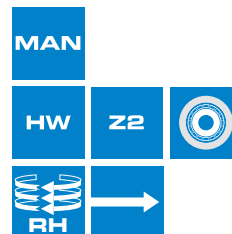


R	Ø	d	LU	LT	S	CODE
5	26	16	19,5	75	8 x 30	582.050.00800
6	32	16	24,5	80	8 x 30	582.060.00800
8	32	16	24,5	80	8 x 30	582.080.00800
5	26	16	19,5	85	12 x 40	582.050.01200
6	32	16	24,5	90	12 x 40	582.060.01200
8	32	16	24,5	90	12 x 40	582.080.01200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange						CODE
--	--	--	--	--	--	------

	Z4	R5	19,5x9x1,5	901.582.05.CV
	Z4	R6	24,5x12x1,5	901.582.06.CV
	Z4	R8	24,5x12x1,5	901.582.08.CV
			Ø16/5 H5	904.160.05.00
			d3,2 D7 S0,5	905.030.07.05
		R5	TORX®15 M4x6 D5,6 L7,8	902.040.06.58
		R6-8	TORX®15 M4x6 D9 L8	902.040.06.90
			Ø 2,5 M3x6	902.030.06.00

Optional		CODE
	TORX®15	903.150.00.00
	Ø 2,5	903.025.00.00



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586

## FRESA A RAGGIO CONCAVO A COLTELLI CON CUSCINETTO

Roundover router bit with knives and ball bearing  
Viertelstabfräser mit Wechselplatten und Kugellager  
Mèche 1/4 de rond à plaquettes avec roulement

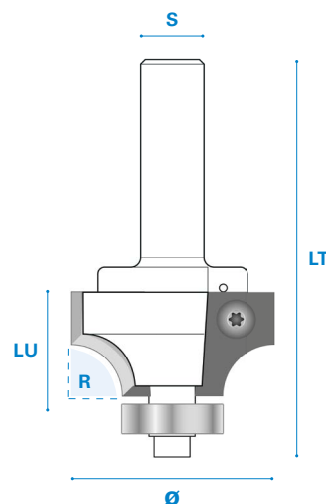
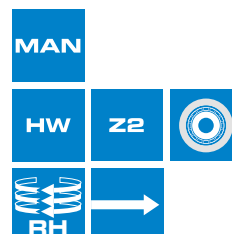


R	Ø	LU	LT	S	CODE
10	39	18	53	8 x 30	586.100.00800
12	43	18	56	8 x 30	586.120.00800
10	39	18	63	12 x 40	586.100.01200
12	43	18	66	12 x 40	586.120.01200
15	49	23	71	12 x 40	586.150.01200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange						CODE
--	--	--	--	--	--	------

	Z2	R10		901.586.10.CO
	Z2	R12		901.586.12.CO
	Z2	R15		901.586.15.CO
			Ø16/6 H6	904.190.06.00
		R10	TORX®15 M4x4 D5,6 L6,2	902.040.06.58
		R12→15	TORX®15 M4x6 D9 L8	902.040.06.90
			d4,3 D9 S0,8	905.040.09.08
			Ø 3 M4x8	902.040.08.00

Optional		CODE
	TORX®15	903.150.00.00
	Ø 3	903.030.00.00



587












## FRESA A RAGGIO CONVESSO A COLTELLI CON CUSCINETTO



Cove router bit with knives and ball bearing  
Hohlkehlfräser mit Wechselplatten und Kugellager  
Mèche à gorge à plaquettes avec roulement

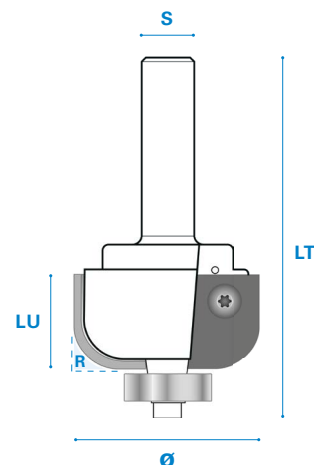
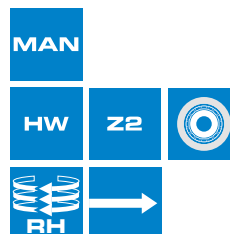


R	Ø	LU	LT	S	CODE
10	39	18	53	8 x 30	587.100.00800
12	43	18	56	8 x 30	587.120.00800
10	39	18	63	12 x 40	587.100.01200
12	43	18	66	12 x 40	587.120.01200
15	49	23	71	12 x 40	587.150.01200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
--	------

  Z2	R10	901.587.10.CV
  Z2	R12	901.587.12.CV
  Z2	R15	901.587.15.CV
	Ø16/6 H6	904.190.06.00
	R10 TORX®15 M4x6 D5,6 L7,8	902.040.06.58
	R12→15 TORX®15 M4x6 D9 L8	902.040.06.90
	d4,3 D9 S0,8	905.040.09.08
	Ø 3 M4x8	902.040.08.00

Optional	CODE
	TORX®15 903.150.00.00
	Ø 3 903.030.00.00



96

588












## FRESA A RAGGIO CONCAVO A COLTELLI

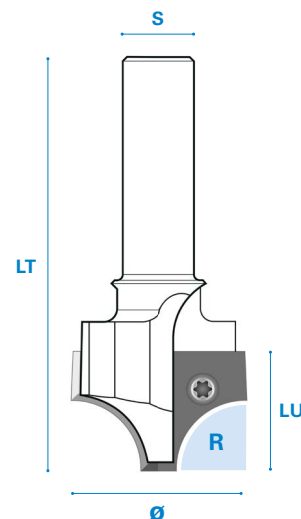
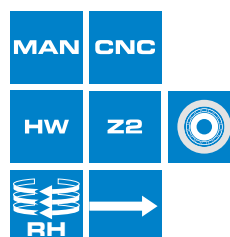
Roundover router bit with knives  
Viertelstabfräser mit Wechselplatten  
Mèche 1/4 de rond à plaquettes



R	Ø	LU	LT	S	CODE
8	30	18	70	12 x 40	588.080.01200
10	30	18	70	12 x 40	588.100.01200
12	30	18	70	12 x 40	588.120.01200
15	40	23	75	12 x 40	588.150.01200

Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
--	------

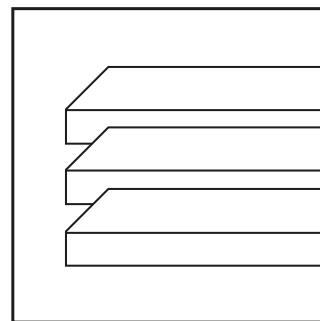
  Z2	R8	901.588.08.CO
  Z2	R10	901.588.10.CO
  Z2	R12	901.588.12.CO
  Z2	R15	901.588.15.CO
	TORX®15 M4x6 D5,6 L7,8	902.040.06.58
	TORX®15	903.002.15.00
	TORX®15	903.150.00.00



# INDICE | INDEX

## UTENSILI PER PLASTICA, ALLUMINIO E ALTRI MATERIALI

TOOLS FOR PLASTIC, ALUMINUM AND OTHER MATERIALS  
WERKZEUGE FÜR PLASTIK, ALUMINIUM UND ANDERE MATERIALIEN  
OUTILLAGE POUR PLASTIQUE, ALUMINIUM ET AUTRES MATÉRIAUX



## 7050

**FRESA ELICOIDALE LAPPATA  
PER PLASTICA E PLEXIGLASS**

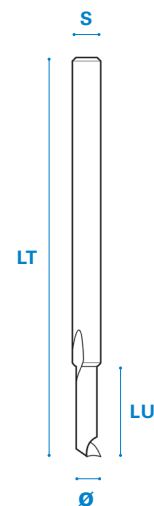
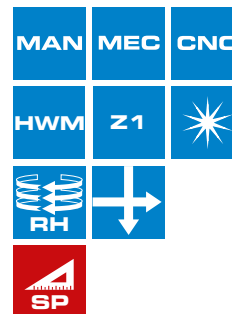
*Spiral bit for Plastic and plexiglass  
Einzahn-fräser für Plastik und plexiglas  
Fraise hélicoïdale à copier pour plastique et plexiglass*



**DESTRA POSITIVA**  
Right-hand / Up-cut  
Rechtslauf / Positive  
Droite / Positives

Ø	LU	LT	S	CODE
3	12	50	3	7050.030.12D8
4	12	50	4	7050.040.12D8
4	30	70	4	7050.040.30D8
5	16	50	5	7050.050.16D8
5	30	70	5	7050.050.30D8
6	20	60	6	7050.060.20D8
6	30	70	6	7050.060.30D8
8	22	70	8	7050.080.22D8
8	32	80	8	7050.080.32D8
10	32	80	10	7050.100.32D8
12	32	80	12	7050.120.32D8

€



98

## 7060

**FRESA ELICOIDALE LAPPATA  
PER ALLUMINIO**

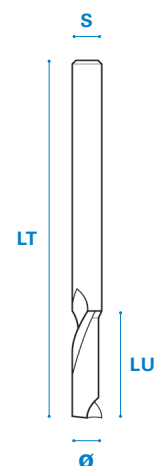
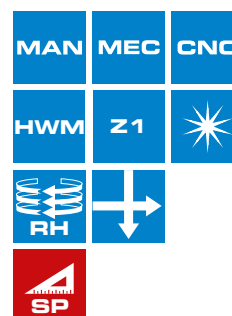
*Spiral bit for ALU  
Einzahn-fräser für ALU  
Fraise hélicoïdale à copier pour ALU*



**DESTRA POSITIVA**  
Right-hand / Up-cut  
Rechtslauf / Positive  
Droite / Positives

Ø	LU	LT	S	CODE
3	12	50	3	7060.030.12D8
4	12	50	4	7060.040.12D8
4	30	70	4	7060.040.30D8
5	16	50	5	7060.050.16D8
6	20	60	6	7060.060.20D8
6	30	70	6	7060.060.30D8
8	22	70	8	7060.080.22D8
8	32	80	8	7060.080.32D8
10	22	70	10	7060.100.22D8
10	32	80	10	7060.100.32D8
12	32	80	12	7060.120.32D8

€



# 7070

## FRESA ELICOIDALE LAPPATA PER METALLI NON FERROSI

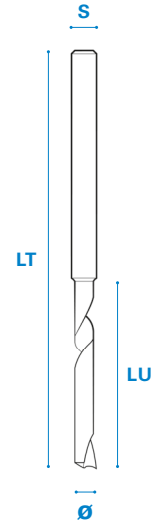
Spiral bit for non-ferrous metals  
 Einzahn-fräser für Nichteisenmetall  
 Fraise hélicoïdale à copier pour métal non ferreux



	Ø	LU	LT	S	CODE
DESTRA POSITIVA Right-hand / Up-cut Rechtslauf / Positive Droite / Positives	2	8	40	2	7070.020.08D8
	3	10	50	3	7070.030.10D8
	4	12	50	4	7070.040.12D8
	5	16	50	5	7070.050.16D8
	6	20	60	6	7070.060.20D8
	8	22	70	8	7070.080.22D8
	10	25	70	10	7070.100.25D8



MAN	MEC	CNC
HWM	Z1	



# 7071

## FRESA ELICOIDALE LAPPATA PER METALLI NON FERROSI

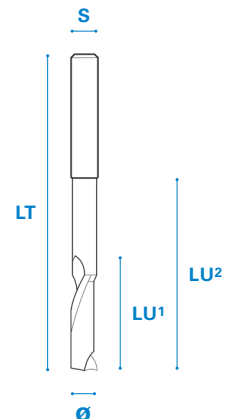
Spiral bit for non-ferrous metals  
 Einzahn-fräser für Nichteisenmetall  
 Fraise hélicoïdale à copier pour métal non ferreux



	Ø	LU	LT	S	CODE
DESTRA POSITIVA Right-hand / Up-cut Rechtslauf / Positive Droite / Positives	3	10/20	60	3	7071.030.10D8
	4	10/30	60	4	7071.040.10D8
	5	15/40	70	5	7071.050.15D8
	6	15/45	80	6	7071.060.15D8
	8	15/45	80	8	7071.080.15D8
	10	20/45	80	10	7071.100.20D8
	12	20/45	80	12	7071.120.20D8



MAN	MEC	CNC
HWM	Z1	



7080

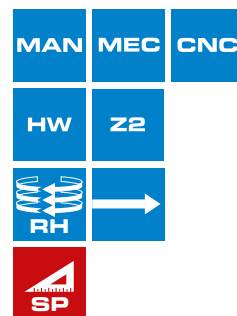
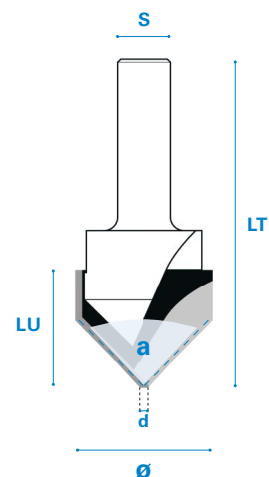
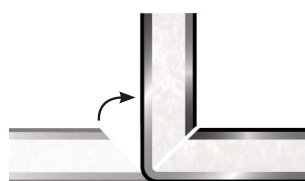
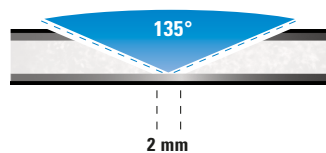
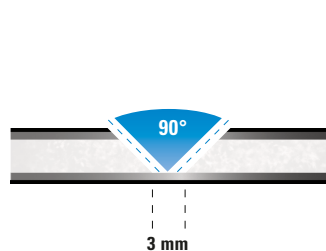
### FRESA PER SCANALATURE A V E FOLDING PER PANNELLI COMPOSITI ALU

V-groove and Folding router bit for ALU sandwich panels  
V-Nut und Foldingfräser für ALU-Verbundplatten  
Fraise à rainier en V et Folding pour ALU panneaux composites

Alucobond® - Alucore® - Alupanel LITE® - Dibond®  
Etalbond® - Forex® - Imagebond® - Naturalbond® - Redbond®

a	∅	d	LU	LT	S	CODE
90°	20	3	8,8	8 x 35		7080.090.0800
135°	20	2	4,1	8 x 35		7080.135.0800

€



100

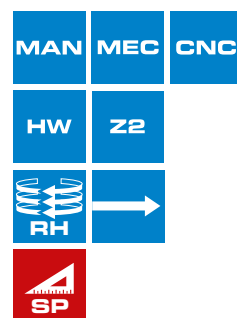
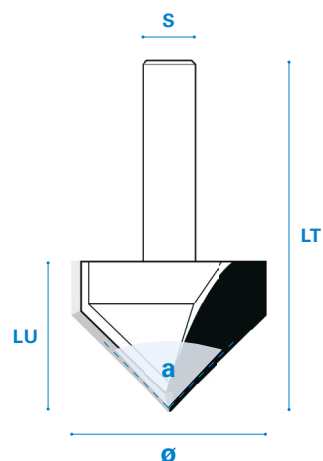
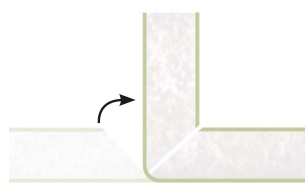
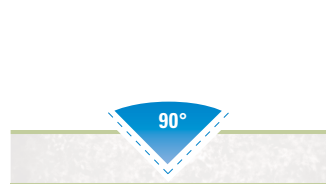
7083

### FRESA PER SCANALATURE A V E FOLDING PER CARTONGESSO

V-groove and Folding router bit for PLASTERBOARD  
V-Nut und Foldingfräser für TROCKENWAND  
Fraise à rainier en V et Folding pour CLOISON SÈCHE

a	∅	LU	LT	S	CODE
90°	32	18	50	8 x 30	7083.090.0800

€



# 7091

## FRESA PER SCANALATURE A V E SCRITTURA IN METALLO DURO INTEGRALE

Solid carbide V-groove and lettering router bit  
V-Nut und Schriftenfräser aus Vollhartmetall  
Fraise à rainier en V, à graver carbure monobloc

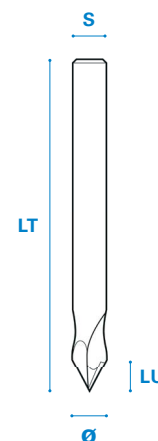
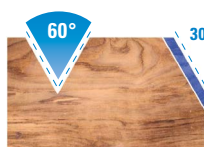
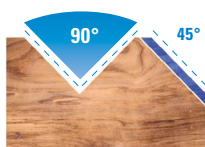
MAN	MEC	CNC
HWM	Z2	Z3
RH	↕	✍️
SP		

a	∅	LU	LT	Z	S	CODE
60°	8	7	60	2	8	7091.060.0800
60°	8	7	45	3	8 Z3	7091.060.08Z3
90°	8	7	60	2	8	7091.090.0800



Z2

Z3



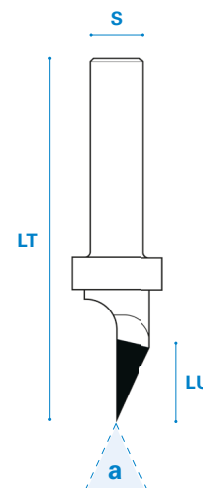
# 7091B

## FRESA PER SCANALATURE A V E SCRITTURA

V-groove and lettering router bit  
V-Nut und Schriftenfräser  
Fraise à rainier en V, à graver

MAN	MEC	CNC
HW	Z1	
RH	↕	✍️

a	LU	LT	S	CODE
60	9,5	55	8 x 30	7091B.060.080





# INDICE | INDEX

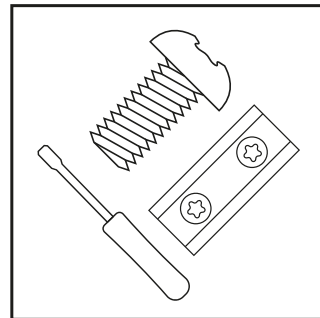
## RICAMBI

SPARE PARTS

ERSATZTEILE

PIÈCES DE RECHANGE

# Z



**219**  
p.104



**249**  
p.104



**250**  
p.104



**320**  
p.105



**321**  
p.105



**322**  
p.105



**338**  
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**351**  
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**730**  
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**740**  
p.107



**750**  
p.107



**760**  
p.107



**901**  
p.108



**902**  
p.111



**903**  
p.112



**904**  
p.113



**905**  
p.114



**907**  
p.114

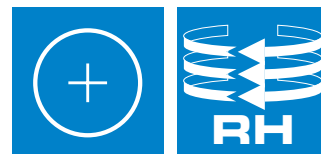


**909**  
p.114

219

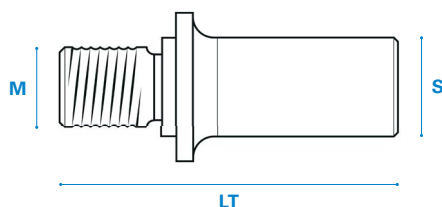
**ATTACCO PER PUNTE**

Arbor  
Aufnahmedorn  
Rallonge filetée



M	LT	S	CODE
M12 x 1	40	12 x 25	219.000.00.00

€



249

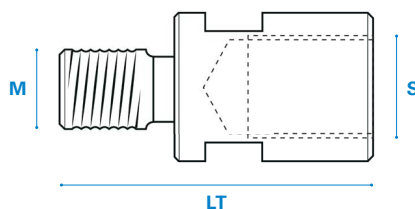
**ADATTATORE**

Adapter  
Adapter  
Pièce de réduction intermédiaire



M	LT	S	CODE
M12 x 1	25	M12 x 1	249.012.12.00
M12 x 1	25	M10 x 1,5	249.012.10.00
M10 x 1,5	25	M10 x 1,5	249.010.10.00
M10 x 1,5	25	M12 x 1	249.010.12.00

€



104



250

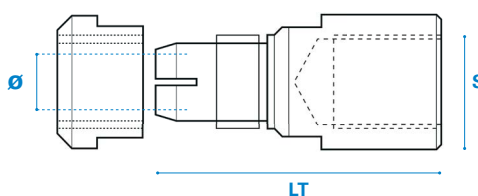
**MANDRINO PER ELETTROFRESATRICI**

Chuck for routers  
Aufnahmedorn  
Mandrin porte-mèche



Ø	LT	S	CODE
6	45	M10 x 1,5	250.006.10.00
8	45	M10 x 1,5	250.008.10.00
10	45	M10 x 1,5	250.010.10.00
6	45	M12 x 1	250.006.12.00
8	45	M12 x 1	250.008.12.00
10	45	M12 x 1	250.010.12.00

€



320

## ATTACCO CILINDRICO CON PIANO DI SERRAGGIO

Cylindrical shank with flat  
 Zylindrischer schaft mit spanfläche  
 Pièce de réduction intermédiaire droite avec méplat sur la queue

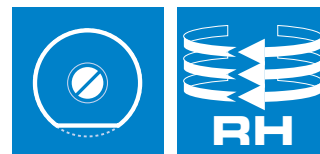


RH	M	LT	S	CODE
	M12 x 1	27	10	320.000.27.08
	M12 x 1	40	10	320.000.40.08

LH	M	LT	S	CODE
	M12 x 1	27	10	320.000.27.09
	M12 x 1	40	10	320.000.40.09

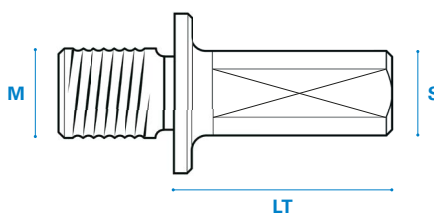
Ricambi - Spare parts - Ersatzteile - Pièces de rechange			CODE
M5x10			902.050.10.TA

€



UTILIZZARE CON  
 To be used with  
 Benutzung mit  
 À utiliser avec

323



321

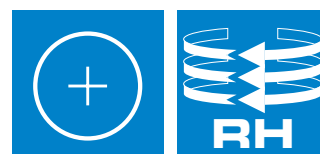
## ATTACCO CILINDRICO

Cylindrical shank  
 Zylindrischer schaft  
 pièce de réduction intermédiaire à queue cylindrique



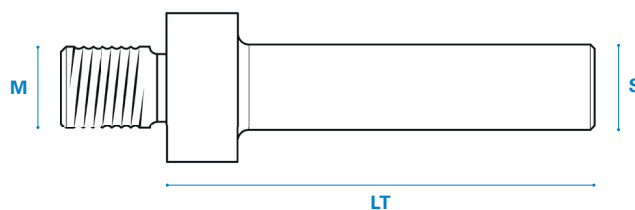
M	LT	S	CODE
M12 x 1	50	8	321.080.00.08
M12 x 1	50	9,5	321.095.00.08
M12 x 1	50	10	321.100.00.08
M12 x 1	50	12	321.120.00.08
M12 x 1	50	13	321.130.00.08
M12 x 1	50	16	321.160.00.08

€



UTILIZZARE CON  
 To be used with  
 Benutzung mit  
 À utiliser avec

323



322

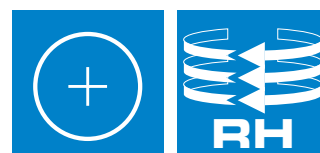
## ATTACCO CILINDRICO

Cylindrical shank  
 Zylindrischer schaft  
 pièce de réduction intermédiaire à queue cylindrique



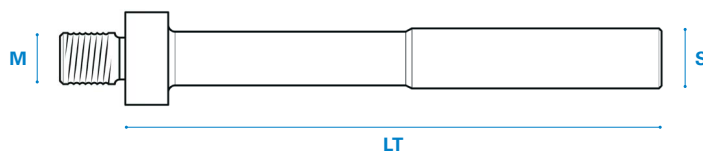
M	LT	S	CODE
M12 x 1	100	10 x 50	322.100.00.08
M12 x 1	100	13 x 50	322.130.00.08
M12 x 1	100	16 x 50	322.160.00.08

€



UTILIZZARE CON  
 To be used with  
 Benutzung mit  
 À utiliser avec

323



338

**BUSSOLA PORTA PUNTE**

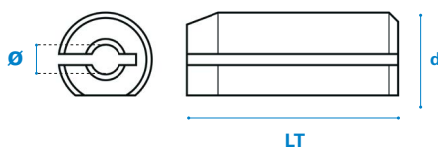
Bushing for drills  
Geschlitzte spannhülse  
Douille fendue avec méplat

UTILIZZARE CON **337**  
To be used with  
Benutzung mit **337 B**  
À utiliser avec



Ø	d	LT	CODE
2,5	10	23	338.025.00.08
3	10	23	338.030.00.08
3,2	10	23	338.032.00.08
3,5	10	23	338.035.00.08
4	10	23	338.040.00.08
5	10	23	338.050.00.08
6	10	23	338.060.00.08

€



106

351

**MANDRINO PORTA PUNTE CON PIANETTO**

Drill holder with flat  
Aufnahme mit zylinderschaft  
Mandrin porte-mèche avec méplat



UTILIZZARE CON **337**  
To be used with  
Benutzung mit **337 B**  
À utiliser avec

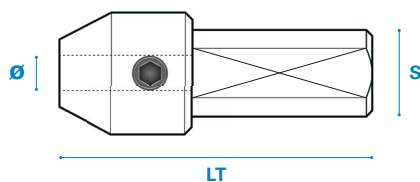


Ø	S	LT	CODE
2	10	35	351.020.00.08
2,5	10	35	351.025.00.08
3	10	35	351.030.00.08
3,2	10	35	351.032.00.08
3,5	10	35	351.035.00.08
4	10	35	351.040.00.08
5	10	35	351.050.00.08

€



Ricambi - Spare parts - Ersatzteile - Pièces de rechange	CODE
 Ø2	○ 2 M4x5 902.040.05.00
	○ 3 M5x5 902.050.05.00



## 730

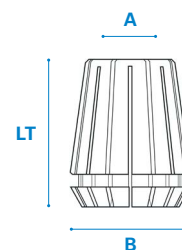
## PINZA DI SERRAGGIO ER32 – DIN 6499/B

Precision collet ER32 – DIN 6499/B  
 Präzisionsspannzangen ER32 – DIN 6499/B  
 Pincés de serrage ER32 – DIN 6499/B



ER32	A	B	L	CODE
3-4	33	40	730.040.32.00	
5-6	33	40	730.060.32.00	
7-8	33	40	730.080.32.00	
9-10	33	40	730.100.32.00	
11-12	33	40	730.120.32.00	
13-14	33	40	730.140.32.00	
15-16	33	40	730.160.32.00	
17-18	33	40	730.180.32.00	
19-20	33	40	730.200.32.00	

€



## PINZA DI SERRAGGIO ER40 – DIN 6499/B

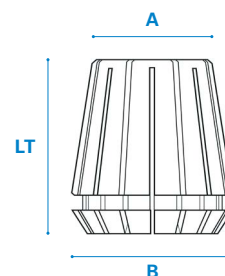
Precision collet ER40 – DIN 6499/B  
 Präzisionsspannzangen ER40 – DIN 6499/B  
 Pincés de serrage ER40 – DIN 6499/B

## 740



ER40	A	B	L	CODE
3-4	41	46	740.040.40.00	
5-6	41	46	740.060.40.00	
7-8	41	46	740.080.40.00	
9-10	41	46	740.100.40.00	
11-12	41	46	740.120.40.00	
13-14	41	46	740.140.40.00	
15-16	41	46	740.160.40.00	
17-18	41	46	740.180.40.00	
19-20	41	46	740.200.40.00	
24-25	41	46	740.250.40.00	

€



## PINZA DI SERRAGGIO ER25 – DIN 6499/B

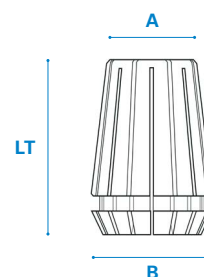
Precision collet ER25 – DIN 6499/B  
 Präzisionsspannzangen ER25 – DIN 6499/B  
 Pincés de serrage ER25 – DIN 6499/B

## 750



ER25	A	B	L	CODE
3-4	26	35	750.040.25.00	
5-6	26	35	750.060.25.00	
7-8	26	35	750.080.25.00	
9-10	26	35	750.100.25.00	
11-12	26	35	750.120.25.00	
13-14	26	35	750.140.25.00	
15-16	41	46	750.160.25.00	

€



## PINZA DI SERRAGGIO ER20 – DIN 6499/B

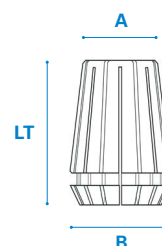
Precision collet ER20 – DIN 6499/B  
 Präzisionsspannzangen ER20 – DIN 6499/B  
 Pincés de serrage ER20 – DIN 6499/B

## 760



ER20	A	B	L	CODE
3-4	21	31	760.040.20.00	
5-6	21	31	760.060.20.00	
7-8	21	31	760.080.20.00	
9-10	21	31	760.100.20.00	
11-12	21	31	760.120.20.00	

€

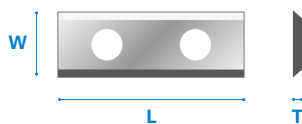


901

## COLTELLI

Knives  
Wendemesser  
Plaquettes

## TYPE 1



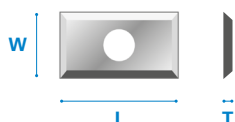
L x W x T	CODE
7,5 x 12 x 1,5	901.075.12.00
9,6 x 12 x 1,5	901.096.12.00
12 x 9 x 1,5	901.120.09.00
20 x 12 x 1,5	901.200.12.00
30 x 12 x 1,5	901.300.12.00
40 x 12 x 1,5	901.400.12.00
50 x 12 x 1,5	901.500.12.00

€

Z2

BOX  
10<sub>pcs</sub>

## TYPE 2



L x W x T	CODE
12 x 12 x 1,5	901.120.12.00
19,5 x 7 x 1,5	901.195.07.00
19,5 x 7,5 x 1,5	901.195.75.00
19,5 x 8 x 1,5	901.195.08.00
19,5 x 9 x 1,5	901.195.09.00
19,5 x 9 x 1,5	2 GROOVES 901.195.09.2G
19,5 x 10 x 1,5	2 GROOVES 901.195.10.2G
19,5 x 11 x 1,5	2 GROOVES 901.195.11.2G
19,5 x 12 x 1,5	901.195.12.00
19,5 x 12 x 1,5	2 GROOVES 901.195.12.2G
24,5 x 12 x 1,5	901.245.12.00
29,5 x 7 x 1,5	901.295.07.00
29,5 x 7,5 x 1,5	901.295.75.00
29,5 x 8 x 1,5	901.295.08.00
29,5 x 9 x 1,5	901.295.09.00
29,5 x 9 x 1,5	2 GROOVES 901.295.09.2G
29,5 x 10 x 1,5	2 GROOVES 901.295.10.2G
29,5 x 11 x 1,5	2 GROOVES 901.295.11.2G
29,5 x 12 x 1,5	2 GROOVES 901.295.12.2G
39,5 x 9 x 1,5	901.395.09.00
39,5 x 12 x 1,5	901.395.12.00
49,5 x 9 x 1,5	901.495.09.00
49,5 x 12 x 1,5	901.495.12.00



Z4

BOX  
10<sub>pcs</sub>

108

## TYPE 3



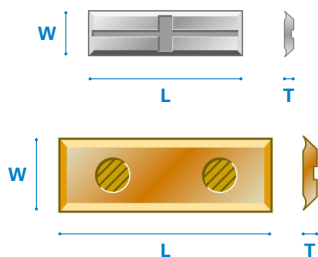
LH

L x W x T	per / for / für / pour	CODE
12 x 12 x 1,5	ART. 158/580 92°	901.120.12.92
19,5 x 12 x 1,5		901.195.12.13
20 x 12 x 1,5	ART. 152	901.200.12.60
29,5 x 9 x 1,5	ART. 513 5°	901.295.09.05
29,5 x 9 x 1,5	ART. 513 15°	901.295.09.15
29,5 x 12 x 1,5		901.295.12.13
30 x 12 x 1,5	ART. 161 90°	901.300.12.90
30 x 9 x 1,5	ART. 235	901.315.09.00
40 x 12 x 1,5	ART. 161 91°	901.400.12.91
49,5 x 12 x 1,5		901.495.12.09
49,5 x 12 x 1,5		901.495.12.13
50 x 12 x 1,5	ART. 161 45°	901.500.12.45
50 x 12 x 1,5	ART. 161 60°	901.500.12.60

Z4

BOX  
10<sub>pcs</sub>

## TYPE 4

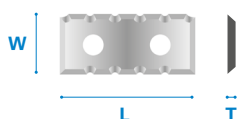


L x W x T	per / for / für / pour	CODE
20 x 5,5 x 1,1	ART. 230	901.200.55.2G
20 x 5,5 x 1,1	ART. 230 <span style="background-color: yellow;">TIN</span>	901.200.55.GT
25 x 5,5 x 1,1	ART. 511B	901.250.55.00
30 x 10 x 1,5	ART. 230	901.300.10.2G
30 x 10 x 1,5	ART. 230 <span style="background-color: yellow;">TIN</span>	901.300.10.GT
30 x 10 x 1,5	ART. 230 <span style="background-color: yellow;">TIN</span>	901.500.10.GT

€

BOX  
10 pcs

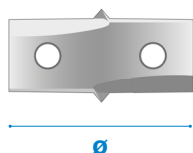
## TYPE 5



L x W x T	per / for / für / pour	CODE
29,5 x 12 x 1,5		901.295.12.RT
49,5 x 12 x 1,5		901.495.12.RT

BOX  
10 pcs

## TYPE 6



RH	Ø	per / for / für / pour	CODE
	Ø25	ART. 335/336	901.240.13.08
	Ø26	ART. 335/336	901.250.13.08
	Ø30	ART. 335/336	901.290.13.08
	Ø34	ART. 335/336	901.340.13.08
	Ø45	ART. 335/336	901.350.03.08
	Ø36	ART. 335/336	901.360.03.08
	Ø37	ART. 335/336	901.370.03.08
	Ø38	ART. 335/336	901.380.03.08
	Ø39	ART. 335/336	901.390.13.08

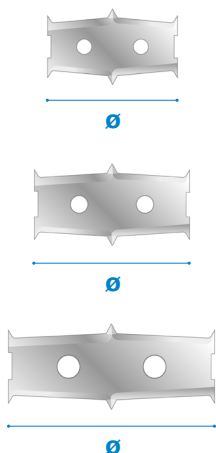
LH	Ø	per / for / für / pour	CODE
	Ø25	ART. 335	901.240.13.09
	Ø26	ART. 335	901.250.13.09
	Ø30	ART. 335	901.290.13.09
	Ø35	ART. 335	901.340.13.09
	Ø40	ART. 335	901.390.13.09

	per / for / für / pour	CODE
	ART. 335/336	901.180.08.00



INCISORI  
SPURS  
VORSCHNEIDERN  
TRAÇOIRS

## TYPE 7



RH	Ø	per / for / für / pour	CODE
	Ø15	ART. 370-1	901.150.01.08
	Ø16	ART. 370-1	901.160.01.08
	Ø17	ART. 370-1	901.170.01.08
	Ø18	ART. 370-1	901.180.01.08
	Ø19	ART. 370-1	901.190.01.08
	Ø20	ART. 370-1	901.200.01.08
	Ø21	ART. 370-1	901.210.01.08
	Ø22	ART. 370-1	901.220.01.08
	Ø23	ART. 370-2	901.230.02.08
	Ø24	ART. 370-2	901.240.02.08
	Ø25	ART. 370-2	901.250.02.08
	Ø26	ART. 370-2	901.260.02.08
	Ø27	ART. 370-2	901.270.02.08
	Ø28	ART. 370-2	901.280.02.08
	Ø29	ART. 370-2	901.290.02.08
	Ø30	ART. 370-2	901.300.02.08
	Ø32	ART. 370-2	901.320.03.08
	Ø33	ART. 370-3	901.330.03.08
	Ø34	ART. 370-3	901.340.03.08
	Ø35	ART. 370-3	901.350.03.08
	Ø36	ART. 370-3	901.360.03.08
	Ø37	ART. 370-3	901.370.03.08
	Ø38	ART. 370-3	901.380.03.08
	Ø40	ART. 370-3	901.400.03.08



## TYPE 8

		L x W x T	per / for / für / pour	CODE	€
	60°		ART. 158/580 60°	901.120.12.60	
	R3		ART. 158/580 R3	901.120.03.CO	
	R4		ART. 158/580 R4	901.120.04.CV	
	R5		ART. 158/580 R5	901.120.05.CO	
SET 10x			ART. 170	901.000.00.10	
SET 2x	R2		ART. 170 R2	901.000.02.02	
SET 2x	R3		ART. 170 R3	901.000.03.02	
SET 2x	R4		ART. 170 R4	901.000.04.02	
SET 2x	R5		ART. 170 R5	901.000.05.02	
SET 2x	45°		ART. 170 45°	901.000.45.02	
	R8		ART. 171 R8	901.171.08.CO	
	R10		ART. 171 R10	901.171.10.CO	
	R12		ART. 171 R12	901.171.12.CO	
	R15		ART. 171 R15	901.171.15.CO	
	R20		ART. 171 R20	901.171.20.CO	
	R12		ART. 172 R12	901.172.12.CV	
	R15		ART. 172 R15	901.172.15.CV	
	R20		ART. 172 R20	901.172.20.CV	
	R7	29 x 9 x 1,5	ART. 533B R7	901.533B.07.CV	
	R7,5	29 x 9 x 1,5	ART. 533B R7,5	901.533B.75.CV	
	R8	29 x 9 x 1,5	ART. 533B R8	901.533B.08.CV	
	R9	29 x 9 x 1,5	ART. 533B R9	901.533B.09.CV	
	R10	29 x 9 x 1,5	ART. 533B R10	901.533B.10.CV	
	R11	29 x 9 x 1,5	ART. 533B R11	901.533B.11.CV	
	R12	29 x 9 x 1,5	ART. 533B R12	901.533B.12.CV	
	R2	19,5 x 9 x 1,5	ART. 536 R2	901.536.02.CO	
	R3	19,5 x 9 x 1,5	ART. 536 R3	901.536.03.CO	
	R4	19,5 x 9 x 1,5	ART. 536 R4	901.536.04.CO	
	R5	19,5 x 9 x 1,5	ART. 536 R5	901.536.05.CO	
	R6	24,5 x 12 x 1,5	ART. 536 R6	901.536.06.CO	
	R8	24,5 x 12 x 1,5	ART. 536 R8	901.536.08.CO	
	R1,5	12 x 12 x 1,5	ART. 550 R1,5	901.550.15.CO	
	R2	12 x 12 x 1,5	ART. 550 R2	901.550.02.CO	
	R2,5	12 x 12 x 1,5	ART. 550 R2,5	901.550.25.CO	
	R3	12 x 12 x 1,5	ART. 550 R3	901.550.03.CO	
	R2	19,5 x 9 x 1,5	ART. 581 R2	901.581.02.CO	
	R3	19,5 x 9 x 1,5	ART. 581 R3	901.581.03.CO	
	R4	19,5 x 9 x 1,5	ART. 581 R4	901.581.04.CO	
	R5	19,5 x 9 x 1,5	ART. 581 R5	901.581.05.CO	
	R6	24,5 x 12 x 1,5	ART. 581 R6	901.581.06.CO	
	R8	24,5 x 12 x 1,5	ART. 581 R8	901.581.08.CO	
	R5	19,5 x 9 x 1,5	ART. 582 R5	901.582.05.CV	
	R6	24,5 x 12 x 1,5	ART. 582 R6	901.582.06.CV	
	R8	24,5 x 12 x 1,5	ART. 582 R8	901.582.08.CV	
	45°	19,5 x 9 x 1,5	ART. 583 45°	901.583.45.00	
	45°	24,5 x 12 x 1,5	ART. 583 45°	901.583.45.01	
	R10		ART. 586 R10	901.586.10.CO	
	R12		ART. 586 R12	901.586.12.CO	
	R15		ART. 586 R15	901.586.15.CO	
	R10		ART. 587 R10	901.587.10.CV	
	R12		ART. 587 R12	901.587.12.CV	
	R15		ART. 587 R15	901.587.15.CV	
	R8		ART. 588 R8	901.588.08.CO	
	R10		ART. 588 R10	901.588.10.CO	
	R12		ART. 588 R12	901.588.12.CO	
	R15		ART. 588 R15	901.588.15.CO	



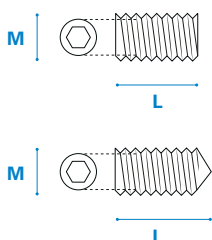


902

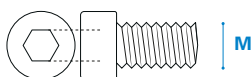
## VITI GRANI E DADI

Screws, point and nuts  
Schraube, Gewindestifte, Sechskantmutter  
Vis, vis sans tête, écrou hexagonal

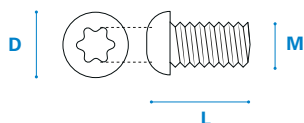
## TYPE 1



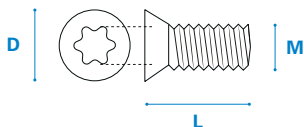
## TYPE 2



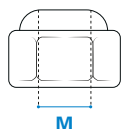
## TYPE 3



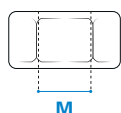
## TYPE 4



## TYPE 5



## TYPE 6



per / for / für / pour			CODE
⊘ 1,3	M2,5x1,8	ART. 230	902.025.02.00
⊘ 1,3	M2,5x2,5	ART. 230	902.025.03.00
⊘ 2	M4x4	ART. 230	902.040.04.00
⊘ 2	M4x5	ART. 230	902.040.05.00
⊘ 3	M5x5	ART. 352	902.050.05.00
⊘ 3	M5x6	ART. 309	902.050.10.PT
	M5x10		902.050.10.TA
⊘ 3	M6x5	ART. 301/303/309C	902.060.05.00

	CODE
⊘ 2,5 M3x6	902.030.06.00
⊘ 3 M4x8	902.040.08.00
⊘ 5 M6x8	902.060.08.00

	CODE
TORX®15 M3,5x4 D6 L6	902.035.04.60
TORX®15 M3,5x6 D6 L8	902.035.06.60
TORX®15 M4x4 D5,6 L6,2	902.040.04.58
TORX®15 M4x4 D9 L6	902.040.04.90
TORX®15 M4x6 D5,6 L7,8	902.040.06.58
TORX®15 M4x6 D9 L8	902.040.06.90

	CODE
TORX®7 M2,5x3 D3 L4,5 ART.370-1	902.025.45.30
TORX®9 M3x4 D4 L7 ART.511B	902.030.45.40
TORX®15 M4x6 D5,6 L8 ART.370-2	902.040.06.56
TORX®15 M4x6 D5,6 L10 ART.370-3	902.040.08.56

	CODE
M5	902.050.00.DA
M6	902.060.00.DA

	CODE
M4x4	902.040.00.DE
M6x6	902.060.00.DE

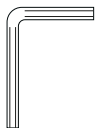
€



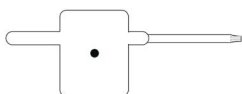
903

**CHIAVI E CACCIAVITI**

Key and screwdriver  
Schlüssel und Schraubendreher  
Clés et tournevis

**TYPE 1**

	CODE
○ 1,3	903.013.00.00
○ 2	903.020.00.00
○ 2,5	903.025.00.00
○ 3	903.030.00.00
○ 5	903.050.00.00
TORX®15	903.150.00.00

**TYPE 2**

	CODE
TORX®15	903.002.15.00

**TYPE 3**

	CODE
TORX®7 ART. 370-1	903.003.07.00
TORX®9 ART. 511B	903.003.09.00
TORX®15	903.003.15.00

€

112

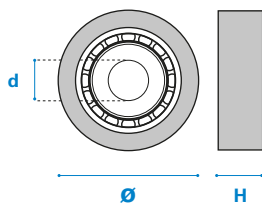


904

## CUSCINETTI

Ball bearings  
Kugellager  
Roulements

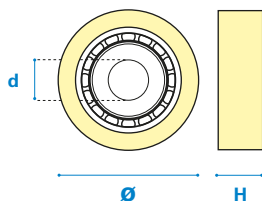
## TYPE 1



Ø	H	CODE
Ø10 d5	H4	904.100.05.00
Ø12 d4	H4	904.120.04.00
Ø13 d5	H4	904.130.05.00
Ø16 d5	H5	904.160.05.00
Ø16 d6	H5	904.160.06.00
Ø16 d8	H5	904.160.08.00
Ø19 d6	H6	904.190.06.00
Ø19 d8	H6	904.190.08.00
Ø19 d12,7	H3,95	904.190.12700
Ø22 d6	H7	904.220.06.00
Ø22 d8	H7	904.220.08.00
Ø22,2 d12,7	H7	904.222.12700
Ø22,2 d9,52	H7,1	904.222.95200
Ø24 d12	H6	904.240.12.00

## TYPE 2

Delrin®



Ø		CODE
Ø18 d5	Delrin®	904.180.00.05
Ø18 d6	Delrin® ART.557C	904.180.00.06
Ø20 d5	Delrin®	904.200.00.05
Ø20 d6	Delrin® ART.557C	904.200.00.06
Ø22 d5	Delrin®	904.220.00.05
Ø22 d6	Delrin® ART.557C	904.220.00.06
Ø24 d6	Delrin® ART.557C	904.240.00.06
Ø26 d6	Delrin® ART.557C	904.260.00.06
Ø28 d6	Delrin® ART.557C	904.280.00.06
Ø29 d6	Delrin® ART.557C	904.290.00.05
Ø30 d6	Delrin® ART.557C	904.300.00.06
Ø32 d6	Delrin® ART.557C	904.320.00.06
Ø34 d6	Delrin® ART.557C	904.340.00.06
Ø36 d6	Delrin® ART.557C	904.360.00.06
Ø38 d6	Delrin® ART.557C	904.380.00.06
Ø40 d6	Delrin® ART.557C	904.400.00.06
Ø42 d6	Delrin® ART.557C	904.420.00.06
Ø44 d6	Delrin® ART.557C	904.440.00.06
Ø46 d6	Delrin® ART.557C	904.460.00.06
Ø48 d6	Delrin® ART.557C	904.480.00.06

€

BOX  
10 pcs

113

	Ø		CODE
SET 4x	Ø10	ART.557C	904.100.06.04
SET 4x	Ø13	ART.557C	904.130.06.04
SET 2x	Ø16	ART.557C	904.160.06.02
SET 3x	Ø19	ART.557C	904.190.06.03
SET 3x	Ø 8-16-19	ART.555	904.555.05.03
SET 3x	Ø10-16-19	ART.557 Ø30	904.557.05.30
SET 3x	Ø10-16-19	ART.557 Ø38	904.557.05.38

## 905

## RONDELLE E DISTANZIALI

Washer and spacer  
Distanzring und Unterlegscheibe  
Rondelle et enteretoise



				CODE
	d3,2	D7	S0,5	905.030.07.05
	d4,3	D9	S0,8	905.040.09.08
	d5,3	D10	S1	905.050.10.10
	d6,1	D12	S1	905.060.12.10
	d6,4	D12	S1,6	905.060.12.16
	d8,4	D16	S1,6	905.080.16.16
	d6	D10	S3	ART. 509 905.060.10.30
	d6	D10	S4	ART. 509 905.060.10.40
	d8	D11	S7,5	ART. 546 905.080.11.75

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## 907

## SEEGER

Seeger  
Seeger  
Seeger



	Ø	CODE
	6	907.060.00.ES
	8	907.080.00.ES
	12	907.120.00.ES

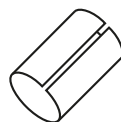
€



114

## BUSSOLE DI RIDUZIONE

Reduction bushing  
Reduzierhülse Geschlitzt  
Douille fendue



	Ø	d	CODE
	6	8	909.060.08.00
	6	10	909.060.10.00
	6	12	909.060.12.00
	8	10	909.080.10.00
	8	12	909.080.12.00
	10	12	909.100.12.00

€





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