

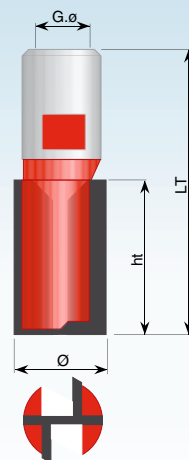
Tipo 2TT gf

*Fresa cilindrica con tagliente di testa
a gambo filettato*

Attacco M 12x1 per macchine ELU, Felisatti, ecc.

*Cylindrical cutter with bottom tip
with threaded shank*

M 12x1 inner threaded shank for machines ELU, Felisatti, etc.



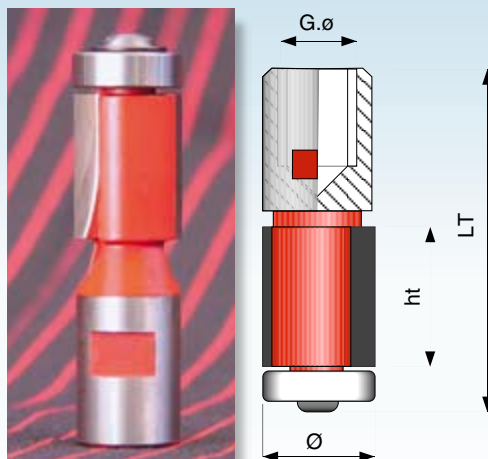
Ø	ht	LT		Art.
HSC				Gø 12x1
8	25	60		811 *
9	25	60		814 *
14	25	60		342 *
18	25	60		346 *
19	25	60		347 *

HW	Ø	ht	LT	Art.
				Gø 12x1
	8	25	63	1125 *
	10	25	63	1127 *
	12	25	63	1129 *
	14	25	63	1132 *
	16	25	63	1137 *
	18	25	63	1140 *
	22	25	63	1146 *
	24	25	63	1149 *
	25	25	63	1151 *
	8	35	73	1126
	10	35	73	1128
	12	35	73	1130
	14	35	73	1133
	16	35	73	1138
	18	35	73	1141
	20	35	73	1144
	22	35	73	1147
	25	35	73	2490
	30	35	73	2491
	12	40	78	1131 *
	14	40	78	1134 *
	16	45	83	1295 *
	16	50	88	1139
	18	50	88	1142
	20	50	88	1145 *
	22	50	88	1148 *

Tipo C gf

Fresa per rifilo con cuscinetto inferiore a gambo filettato

Lower bearing guided trim cutter with threaded shank



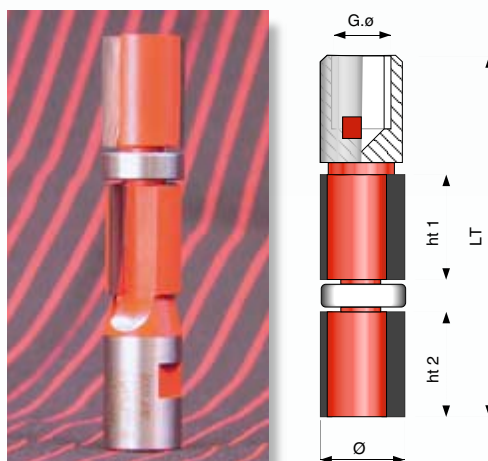
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	19	7	6	506073000	Bearing
Vite	M 6		10	973810610	Screw

Ø	ht	LT		Art.
HW				Gø 12x1
19	25	60		515
19	35	70		1161

Tipo C2 gf

Fresa doppio rifilo a gambo filettato

Double trim cutter with threaded shank



Ø	ht1	ht2	LT		Art.
HW					Gø 12x1
19	25	25	90		516
19	35	25	100		1162

La qualità non è un caso - Quality is not a case

Vite ad alta resistenza e impronta Tork: affidabilità e sicurezza

High resistance Tork screw: reliability and safety

Coperture con resine autolubrificanti

Coating with self-lubricating resins

Marcatura secondo norme CE

Marking in conformity with CE standards



Metallo duro con adeguato spessore: riaffilabile più volte

An appropriate thickness of hard metal tips allows several resharpenings

Metallo duro di alta qualità e durata

High quality and wear resistance hard metal

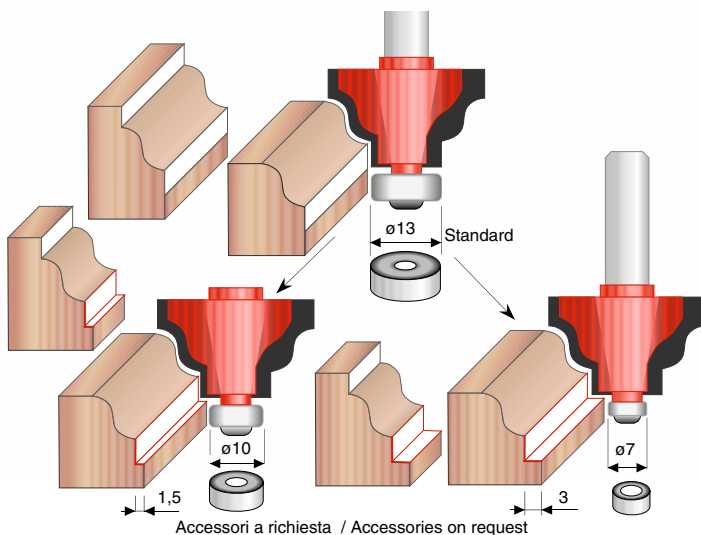
Corpo in acciaio ad alta resistenza

High resistance steel body

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite Tork	M 3		8	973820308	Tork Screw
Accessori a richiesta				Accessories on request	
Cuscinetto	10	4	4	501043000	Bearing
Cuscinetto	7	4	2,5	506743000	Bearing
Chiave Tork	T10			90002T100	Tork Key

In tutte le frese a codolo di Gamma Zinken potrai sostituire il cuscinetto montato standard da Ø 13 mm con un altro cuscinetto più piccolo e ottenere così un differente profilo. I medesimi cuscinetti possono essere utilizzati su tutte le frese.

On all Gamma Zinken router bits you can replace the standard 13 mm ball bearing with a smaller one in order to create another profile. The same ball bearings can be used on all router bits.



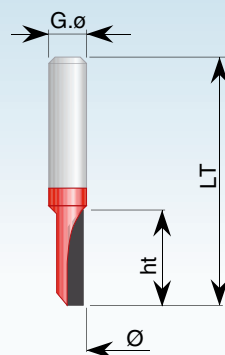
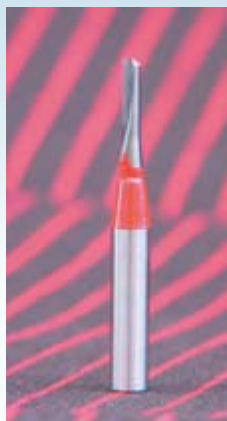
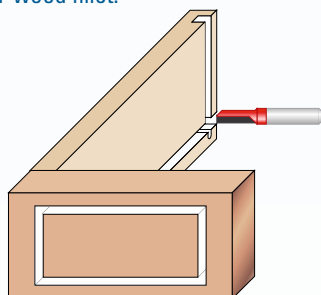
Tipo 1

Fresa cilindrica a un tagliente

Con questa fresa potete effettuare scanalature molto sottili e profonde come, per esempio, nei laterali dei cassetti per l'inserzione del fondo e dello schienale in compensato. In questo caso le scanalature devono essere almeno 0,1 mm più larghe dello spessore del compensato. La precisione nella costruzione di queste frese le rende indispensabili per inserire un filetto di radica decorativo.

Cylindrical fly cutter

This cutter enables you to create narrow and deep grooves. This will allow you to encase bottom and sides of drawers. In this case the grooves should be at least 0,1 mm wider than the thickness of the plywood. This precision tool is also indispensable to create the basis for a briar-wood fillet.



Ø	ht	LT		Art.	
HSC				Gø 8	
4	15	40		433 *	
5	20	40		434 *	
11	14	50		46 *	
12	14	50			
13	14	50			
Ø	ht	LT	Art.	Art.	
HW			Gø 6	Gø 8	
2	8	50	1695		
3	10	50	323	1090	
4	12	50	324	1091	

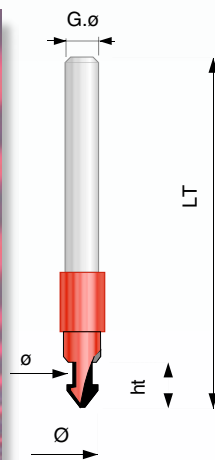
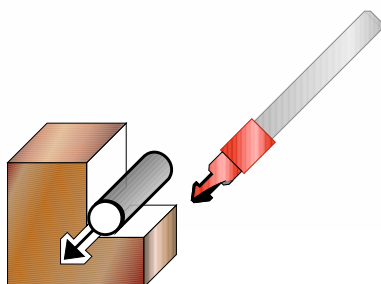
Tipo PSP

Tipo PSP guarnizioni su serramenti

La piccola punta di questa fresa crea un incavo che permette di montare un particolare profilo per guarnizioni di serramenti.

Profiled Jointing cutter for rubber sealings for windows

The small tip of this cutter creates a groove which allows you to assemble a particular profile for sealings of window and door frames



ø	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
3,4	5,5	8	63	1288	1289*

Tipo 2 HSC

Fresa cilindrica in acciaio

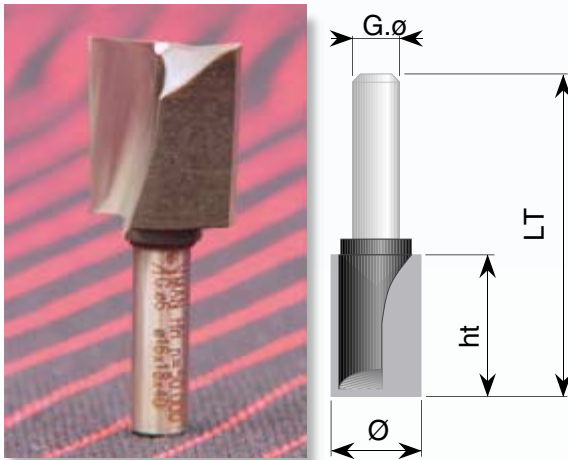
Tutte le frese tipo 2 si adoperano per battute, scanalature, incastri, giunzioni, guide, mortase.

Le ante a persiana sono consigliate per mobili che richiedono ricambio d'aria (scarpiere, mobiletti per caldaie, ecc...).

Steel cylindrical cutter

You can use all the cylindrical cutters with two cutting edges for rebates, grooves, joints, slides, mortises. We suggest you to make shutter-doors in furniture which need change of air (shoe-racks, furniture for boiler, etc...).

Ø	ht	LT	Art.	Art.	
HSC			Gø 6	Gø 8	
6	18	40	54 *	435 *	
8	18	40	56 *	860 *	
10	18	40		862 *	
12	18	40	60 *	864 *	
13	18	40	61 *		
14	18	40	62 *		
16	18	40		868 *	
18	18	40	66 *		
13	25	50		408 *	
17	25	50		416 *	
20	25	50		442 *	



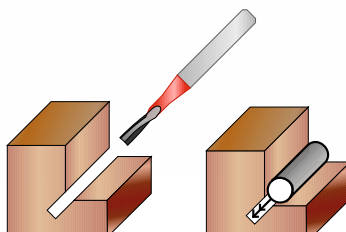
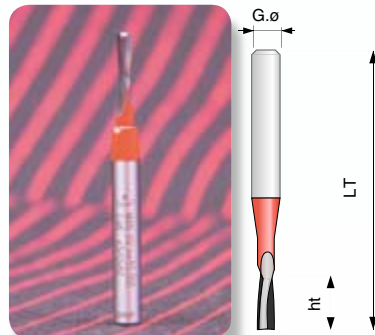
Tipo PSC

Tipo PSC paraspifferi per serramenti

Questa fresa viene montata sulle apposite macchine che permettono di lavorare su di un infisso già montato e di creare il canalino necessario alla gomma paraspifferi.

Jointing cutter for rubber sealings for windows

This cutter assembled on the proper machines will enable you to work on door and window frames for installing the rubber packings for the isolation of the windows



Ø	ht	LT	Art.	Art.	
HW			Gø 6	Gø 8	
3	10	60	1286	1287	
4	10	60	1499		

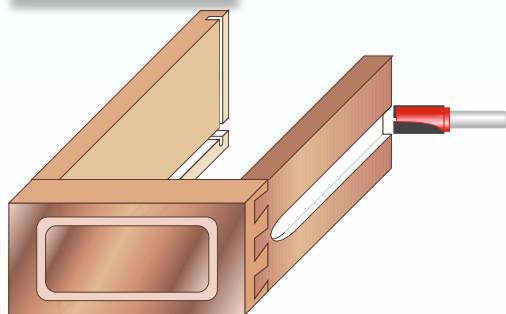
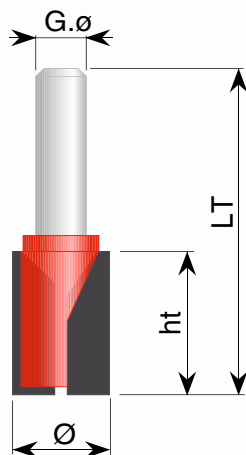
Tipo 2 HW

Fresa cilindrica senza tagliente di testa

Nelle frese cilindriche senza tagliente di testa, cioè senza la terza lama frontale, l'ottima finitura del fondo della cava è dato dall'affilatura frontale delle lame laterali. Sono appositamente create per l'ingresso laterale, ma possono entrare per qualche millimetro anche nel pieno, poi sarà necessario effettuare uno spostamento laterale per asportare con le lame laterali la parte centrale non rimossa. L'esperto consiglia: adottate le frese con il gambo più grosso che potete montare per eliminare le vibrazioni.

Cylindrical cutter without bottom tip

By using cylindrical cutters without the third frontal cutting edge, not end milling, the top finish of the bottom of the groove is given from the frontal sharpening of the side-cutting edges. They have been designed for cutting the wood sideways, but they can also working in the middle of the wood piece for a few milimeters, but of course you will have to finish the bottom of the groove by using the side-cutting edges. The expert suggests: please use cutters with the bigger shank which can be assembled on your machine, in order to avoid vibrations and blows.



Ø	ht	LT	Art.	Art.	Art.
HW			G.ø 6	Gø 8	Gø 12
5	18	50	1532	1534	
6	18	50	1533	1535	
7	20	50	115	932	
8	20	50	116	933	
9	20	50	117	936	
10	20	50	118	937	
11	20	50	119	940	
12	20	50	120	941	
13	20	50	121	944	
14	20	50	122	945	
15	20	50	123	948	
16	20	50	124	951	
17	20	50	125	954	
18	20	50	126	955	
19	20	50	127	958	
20	20	50	128	959	
22	20	50	901	962	
25	20	50		429	
5	25	60	1989		
6	25	60	1195	1842	
8	30	60	1196	3264 *	
10	30	60	1197	403 *	
12	30	60	1198 *	406 *	
14	30	60	1199 *	411 *	
16	30	60	1200 *	415 *	
8	35	73			3260 *
10	35	73			3251
12	35	80			3252
14	35	73			3261 *
16	35	73			3265 *
18	35	80			3352 *
20	35	73			3271 *
12	50	99			3253

Tipo 2TT

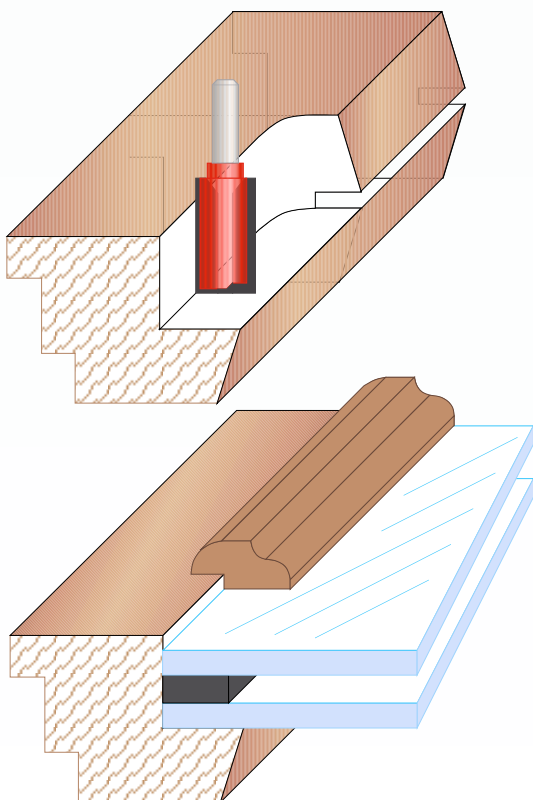
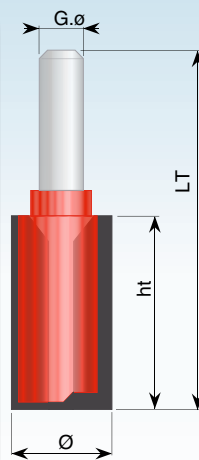
Fresa cilindrica con tagliente di testa

Le frese in metallo duro possono lavorare tutti i materiali composti e, se sono provviste di tagliente di testa, possono anche forare. In altre parole significa che possono entrare nel pieno del legno, in una sola volta per tutta la loro altezza tagliente, e poi fare la passata per creare la cava. L'ottima finitura del fondo della cava è dato dall'affilatura frontale delle lame laterali. Per adattare i vecchi infissi ed alloggiare i doppi vetri basterà spianare la vecchia scanalatura, fissare i doppi vetri col silicone e applicare una cornice fermavetro.

Cylindrical cutter with bottom tip

Carbide cutters cut all composite materials and if they have a bottom tip, they are suitable also for boring.

That means they can entering into the woodpiece with all cutting height in one single time and then make the pass and create the groove. The frontal sharpening of the side-cutting edges allows for a top finish. In order to prepare old window frames for double window panes, all you need to do is to level the old groove, fasten the panes with silicone and secure them with a frame.

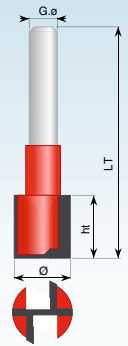


Ø	ht	LT	Art.	Art.	Art.
HW			G.ø 6	Gø 8	Gø 12
5	25	60	1989		
6	25	60	1195	1842	3266 *
8	25	63	2471	934	
10	20	63	2472	938	
12	20	63	2473	942	
14	20	63	2474 *	946	
16	20	63	2475 *	952	
18	20	63		956	
20	20	63		960	
22	20	63		963	
24	25	63		988	
25	25	63		965	
8	35	73		935	1201
10	35	73		939	1202
12	35	73		943	1214
14	35	73		947	1215
16	35	73		953	1216
18	35	73		957	1217
20	35	73		961	1218
22	35	73		964	1219
25	35	73			2481
30	35	73			2482
16	45	85		1245	1246
18	45	85			2480

Tipo 2LTT

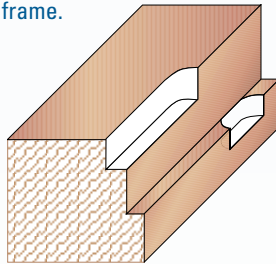
Fresa cilindrica lunga con tagliente di testa

Per montare la ferramenta per anta e ribalta potete utilizzare le frese cilindriche del Ø adatto. Il produttore della ferramenta vi fornisce le dime di guida; in genere queste vanno seguite con una bussola Ø 27 mm fissata alla macchina. Quando scegliete la fresa, tenete conto che il gruppo dima diminuisce la corsa della fresatrice e che alcune fresature vanno effettuate nella parte inferiore dell'infilso.



Cylindrical long cutter with bottom tip

In order to fit the iron fittings for windows with leaf, you can use cylindrical cutters with the suitable diameter. The iron fitting's producer supply you with template guides, which have to be followed with a sleeve Ø 27 mm fastened at the machine. When you choose the cutter, consider that the template guides reduce the stroke of the milling machine and some millings have to be executed in the lower part of the frame.

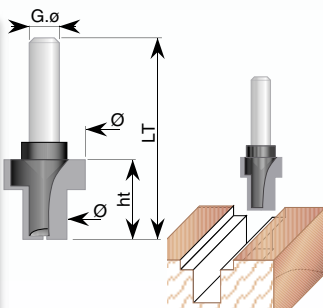


Ø	ht	LT	Art.	
HW				Gø 8
8	20	70	3237	
10	20	70	3238	
12	20	70	3239	
14	20	70	3240 *	
16	20	70	1083	
18	20	70	1084	
20	20	70	1085	
22	12	70	1086	
25	12	70	2476	
26	12	70	2477 *	
30	12	70	2479 *	

Tipo DD

Fresa doppio diametro

Double-edge cutter

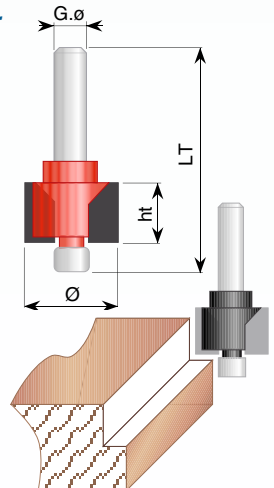


ø	Ø	ht	LT	Art.	Art.	Art.
HSC				G.ø6	G.ø8	G.ø9,5
6	10	10-7	40	99 *		
8	14	10-7	40	100 *	856 *	
8	16	10-6	40	101 *	857 *	
12	18	18-6	50			207 *
14	20	18-6	50			208 *
16	22	19-6	50			209 *
16	23	19-6	50			542 *

Tipo 2S

Fresa con perno di guida

Pivot rabbeting cutter



Ø	ht	LT	Art.	Art.	
HSC			Gø 6	Gø 8	
17,5	11	40	69 *	893 *	
24	13	40		894 *	

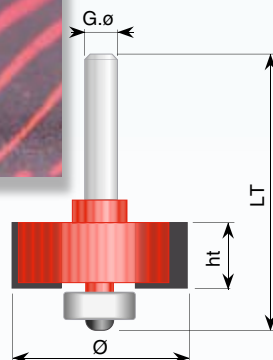
Tipo 2C

Fresa per battute

Viene fornita con cuscinetto Ø 13 mm, gli altri cuscinetti possono essere acquistati a parte. Tutti questi cuscinetti possono essere montati anche sugli altri modelli di frese che ne fanno uso. Con i cuscinetti di diametro 7, 10, 13, 19 mm si ottengono battute precise necessarie nella lavorazione dei mobili, e di ripetibilità costante. Col cuscinetto Ø 32 mm si può utilizzare questa fresa come una normale fresa da rifilo. Il diametro di questa fresa consente forti asportazioni, adottate quindi le precauzioni necessarie al vostro lavoro.

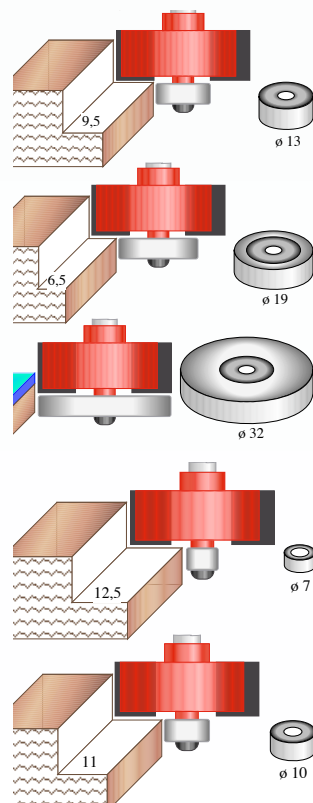
Rabbeting cutter

This cutter is equipped with a Ø 13 mm bearing and the other substitutive bearings are sold separately. All these ball bearings can also be used for the other cutters with interchangeable ball bearings. By using the bearings of Ø 7, 10, 13, 19 mm, it is possible to obtain accurate rebates which can be repeated over and over, for example in the construction of furniture. Besides with a Ø 32 mm bearing this cutter can be used for trimming. Since the diameter of this cutter allows for a considerable removal of material, we strongly recommend you to take all necessary safety measures.



Ø	ht	LT	Art.	Art.	Art.
HW			Gø 6	Gø 8	Gø 12
32	12	55	599	488	3269
32	20	60		1243	1242

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite Tork	M 3		8	973820308	Tork Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	4	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Cuscinetto	19	4	5	506243019	Bearing
Cuscinetto	20	4	5	506243020	Bearing
Cuscinetto	22	4	5	506243022	Bearing
Cuscinetto	24	4	5	506243024	Bearing
Cuscinetto	26	4	5	506243026	Bearing
Cuscinetto	28	4	5	506243028	Bearing
Cuscinetto	30	4	5	506243030	Bearing
Cuscinetto	32	4	5	506243032	Bearing
Chiave Tork	T10			90002T100	Tork Key



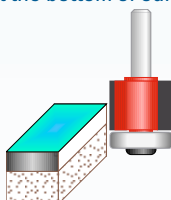
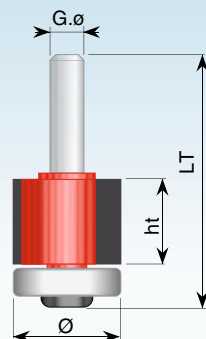
Tipo C

Fresa da rifilo cuscinetto inferiore

Sono le frese da rifilo più utilizzate e conosciute. Vengono costruite con cura da personale altamente qualificato con macchine a controllo numerico, precisione e ripetibilità costante sono la base del nostro controllo di qualità.

Lower bearing guided trimming cutter

This is a well-known and frequently used trimming cutter. It is produced by highly qualified staff on CNC machines. Precision and a continuously repeated work are at the bottom of our quality control.



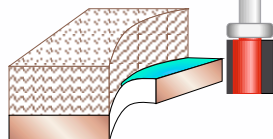
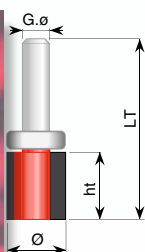
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	10	4	4	501043000	Bearing
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Cuscinetto	19	7	5	506073000	Bearing
Vite	M 4		8	973810408	Screw
Accessori a richiesta			Accessories on request		
Chiave Tork	T10			90002T100	Tork Key
Chiave Tork	T15			90002T150	Tork Key

Ø	ht	LT	Art.	Art.	Art.
HW			Gø 6	Gø 8	Gø 12
10	25	60	1999	2000	
13	15	50	150	1050	
13	30	65	1244	1694	3267
13	40	75			3262
13	50	85			3263
19	15	50	151	1051	
19	25	60		1542	1543
19	35	70			1544
19	50	85			1545

Tipo C sup

Fresa da rifilo cuscinetto superiore

Upper bearing guided trimming cutter

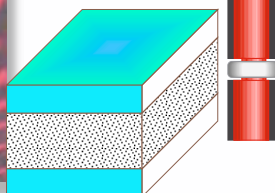
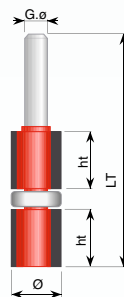


Ø	ht	LT	Art.	Art.	
HW			Gø 6	Gø 8	
13	15	50	914		
19	25	60		3244	

Tipo C2

Fresa doppio rifilo

Double trimming cutter



Ø	ht1	ht2	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
13	15	15	60	913	1537	
19	25	25	90			1538

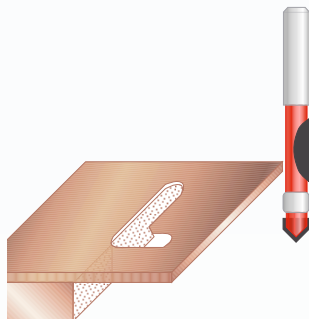
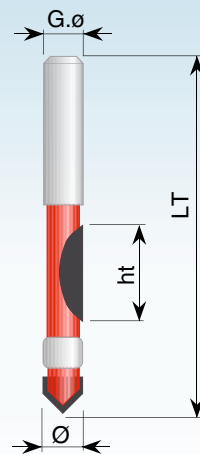
Tipo G1**Fresa foro e rifilo con guida**

Fresa in metallo duro progettata per forare e rifilare in una sola volta.

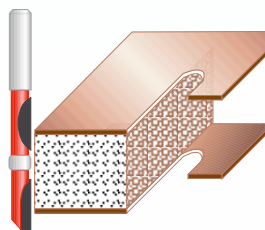
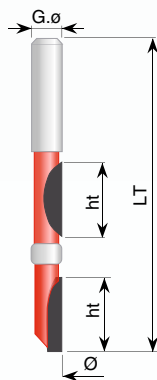
Consiglio pratico: nella costruzione di una porta si incolla il compensato di noce al telaio, poi si taglia la parte eccedente centrale (dove andrà il vetro). Il pannello centrale così recuperato potrà essere utilizzato per un mobiletto.

V-Shape drill point pivot trimming cutter

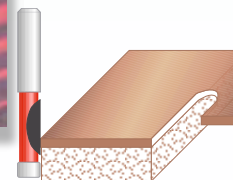
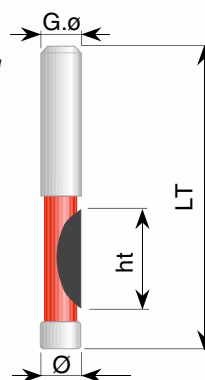
With this cutter perforating and trimming can be done in one single operation. Practical advice: It can be used to build a door: the walnut-plywood is glued onto the frame, and after that the exceeding part in the middle will be removed with the cutter, thus leaving space for the glass; this middle part can then be used otherwise.



Ø	ht	LT	Art.	Art.
HW			Gø 6	Gø 8
6	15	60	156	
8	15	60		157
6	10	50	746*	

Tipo G2**Fresa doppio rifilo con guida****Double V-Shape drill point pivot trimming cutter**

Ø	ht	LT	Art.	Art.
HW			Gø 6	Gø 8
6	15	70	158	
8	15	70		166

Tipo R**Fresa rifilo con guida****Pivot trimming cutter**

Ø	ht	LT	Art.
HW			Gø 6
6	15	50	154

Tipo CS

Tipo CS rifilo cilindrico+inclinato

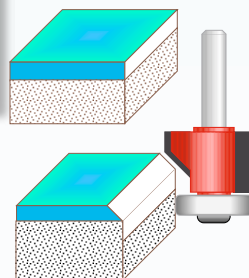
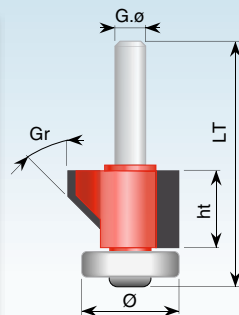
Nelle mani di un falegname esperto questo utensile si fa in due, refila dritto e refila inclinato.

Consiglio pratico: regolando opportunamente l'altezza della fresa potete rifilare dritto togliendo il bordo tagliente che resta nei laminati plastici dopo la lavorazione.

Cylindrical and bevel trimming cutter

This tool doubles in the hands of an expert carpenter, because it can trim straightforward and slantwise.

Practical advice: by adjusting the height, this tool can be used to remove the sharp edge left over after working on a rolled plastic section.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	19	7	5	506073000	Bearing
Vite	M 4		8	973810408	Screw
Accessori a richiesta			Accessories on request		
Chiave Tork	T15			90002T150	Tork Key

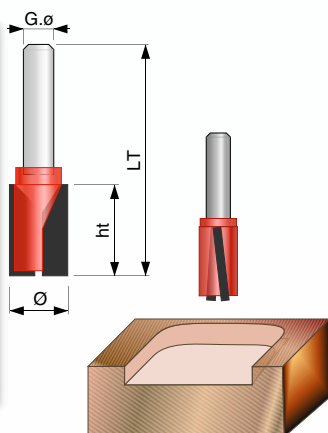
Gr	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
45	24-19	11	50	152	1052

Tipo N

Fresa per sedi piastrine

Cutter for milling the seat of metal plates

With negative shear angle design, this cutter guarantee you a perfect mortise hinges with no splintered edges or rough bottoms.

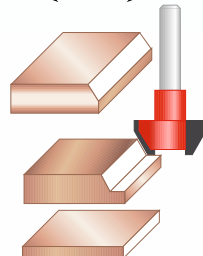
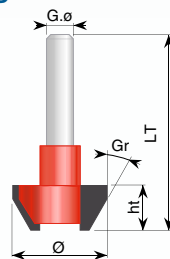


Ø	ht	LT	Art.	Art.
HW			Gø 6	Gø 8
16	20	50	2452	2453
19	20	50	148	1056

Tipo NC1

Fresa per rifilo cilindrico+inclinato

Cylindrical/bevel trimming cutter



Gr	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
30	21	10	50	149	159

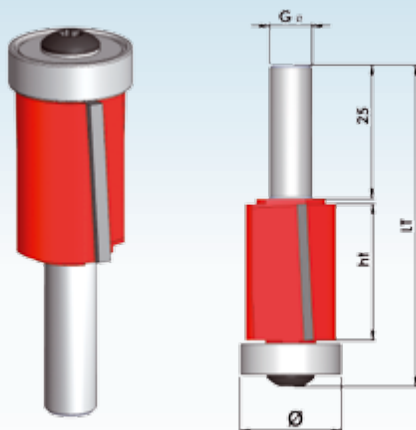
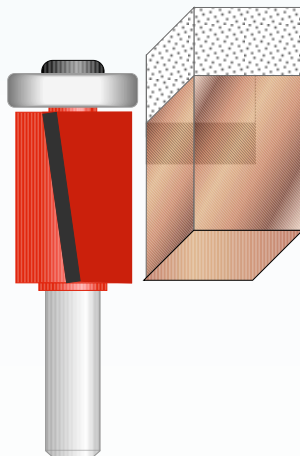
Tipo Cn

Fresa per refilo con inclinazione assiale

L'angolo assiale negativo permette di avere una maggiore finitura sulla parete asportata e sul lato superiore del pezzo

Axial-inclination cutter for trimming

The negative axial angle allows to have a better trimming on the removed face and on the upper part of the piece.

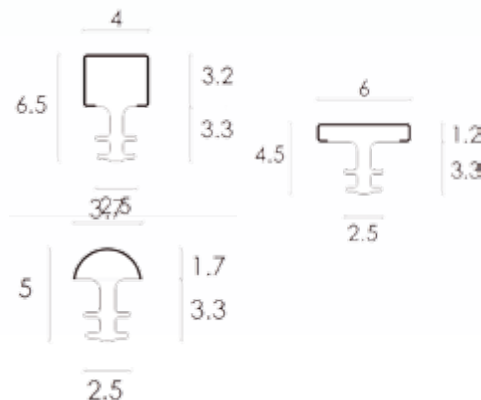
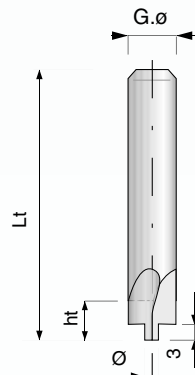


	Ø	ht	LT	Art.
HW				Gø 8
	19	20	50	4140
	19	35	70	4141

Tipo Bvr

Fresa per inserimento filetti decorativi

Cutter for inserting decorative threads

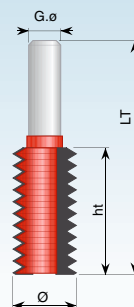
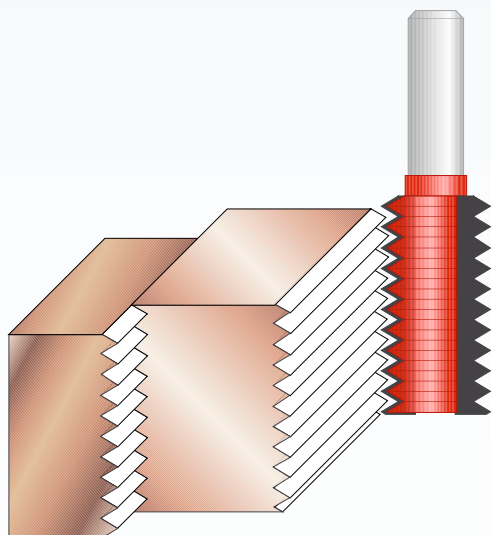


ø	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
2,2x3	6x5	8	50	3687	
2,2x3	8x5	8	50		3692

Tipo IP

Fresa per giunzioni

Jointing cutter



	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
	16	30	50	949	950

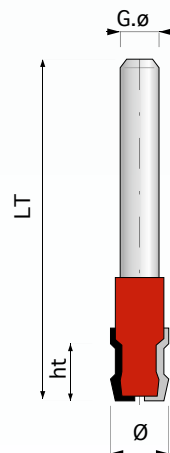
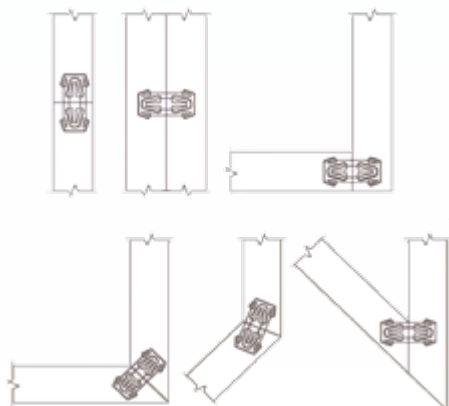
Tipo Ovvo®

Fresa per giunzioni ovvo®

fresa specifica per montare il sistema di giunzione a scomparsa

Ovvo-junction cutter®

Specifically conceived for assembling the hidden junction system.



	Ø	ht	LT	Art.
HW				Gø 8
	12	13	70	4142

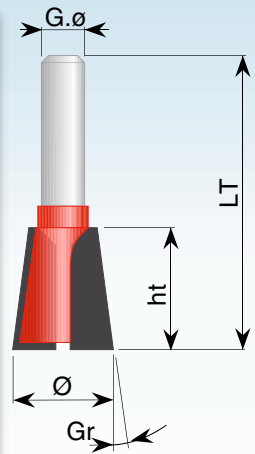
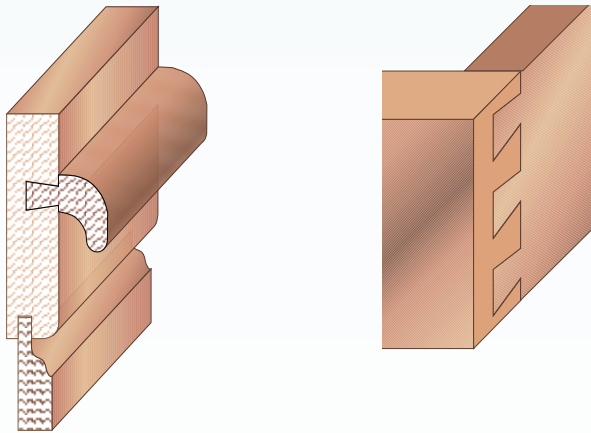
Tipo 3

Fresa a coda di rondine

L'incastro a coda di rondine consente un assemblaggio rigido e resistente. Particolarmente indicato per i legni che hanno poca tenuta a chiodi e viti come il faggio.

Dovetail cutter

The dovetail joint allows for sturdy and resistant assembling. Suggested for wood, which has not a strong tightness to nails and screws, such as beechwood.



Gr.	Ø	ht	LT	Art.	Art.
HSC				GØ 6	GØ 8
7	8	12	40	70 *	106 *
8	11	15	40	71 *	874 *
8	14	17	40	72 *	875 *
7	20	24	45		446 *
Gr.	Ø	ht	LT	Art.	Art.
HW				GØ 6	GØ 8
7	11	15	50	130	970
7	14	17	50	131	971
7	17	22	55		2562
7	20	25	55		1936

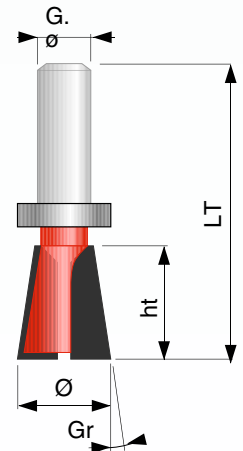
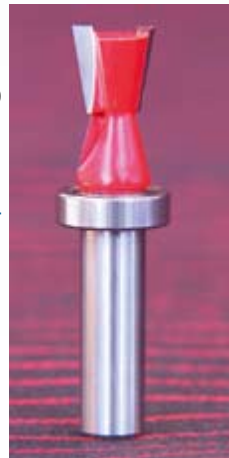
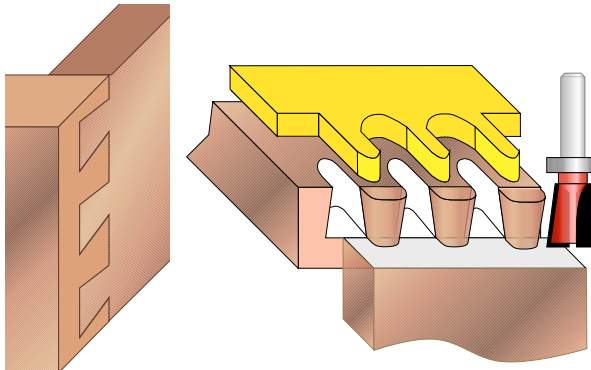
Tipo 3C

Fresa a coda di rondine

Questa fresa è specifica per il CDR 200 Bancalino "Semplice".

Dovetail cutter

Suitable for the router table and jig CDR 200 (simple execution).



Gr.	Ø	ht	LT	Art.	Art.
HW				GØ 6	GØ 8
10	10	10	50	2923	2924
10	14,5	16	50	2925	2926

Tipo C2S corian®**Fresa inclinata per corian®**

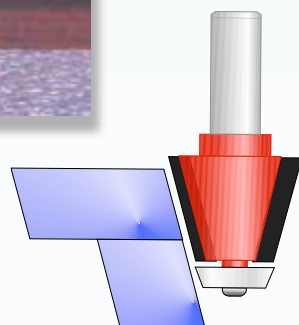
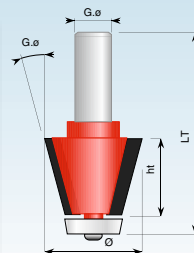
Con questa fresa potete realizzare lo smusso e il raccordo tra due superfici inclinate.

Lo speciale cuscinetto che segue l'angolo della fresa è incamiciato in materiale plastico, che non lascerà alcun segno sul vostro pezzo in lavorazione.

Chamfer cutter for corian®

With this cutter you can round off a corner and join up two inclined surfaces.

Thanks to its special angled ball bearing, which is coated with plastics, the cutter leaves no traces on the workpiece.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	19	4	5	506843119	Bearing
Vite Tork	M 3		8	973810408	Tork Screw
Accessori a richiesta			Accessories on request		
Chiave Tork	T10			90002T150	Tork Key

°	Ø	ht	LT		Art.
HW					Gø 12
15	32	25	57		3273

Tipo 7CK corian®**Fresa raggiata per corian®**

Con questa fresa potete effettuare lo smusso e la raggiatura di raccordo tra due superfici inclinate. Viene utilizzata prevalentemente per la lavorazione di lavelli in materiale plastico.

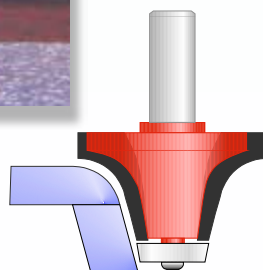
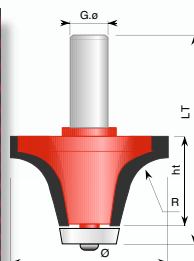
Lo speciale cuscinetto che segue l'angolo della fresa è incamiciato in materiale plastico che non lascerà alcun segno sul vostro pezzo in lavoro.

Bevel cutter for corian®

With this cutter you can round off a corner and join up two inclined surfaces.

It is mostly used in the working of plastic kitchen counter tops and sinks.

Thanks to its special angled ball bearing, which is coated with plastics, the cutter leaves no traces on the workpiece.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	19	4	5	506843119	Bearing
Vite Tork	M 3		8	973810408	Tork Screw
Accessori a richiesta			Accessories on request		
Chiave Tork	T10			90002T150	Tork Key

R	°	Ø	ht	LT	Art.
HW					Gø 12
12,7	15	50	25	60	3274
12,7	15	52	30	70	3275

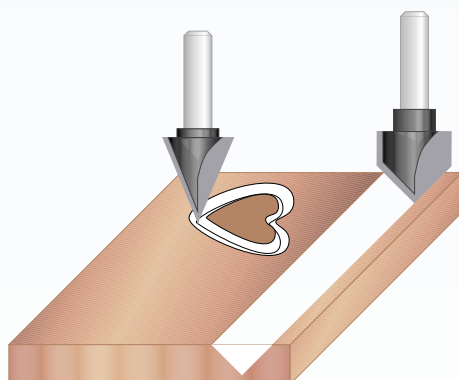
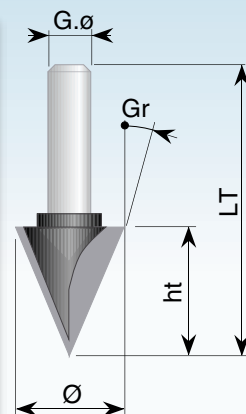
Tipo 5

Fresa a lancia

Serve per scrivere, incidere figure geometriche o a mano libera. Il modello a 45° serve anche a fare scanalature e pieghe nel cartongesso.

V-Grooving cutter

It can be used for writing, engraving of geometrical patterns or free-hand drawings. The 45° model is also used for making grooves in plasterboards.



Gr.	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
22,5	15	15	50	135	975	
30	13	15	50	2817	2818	
45	6	8	50	2809		
45	10	13	50	2819	2820	
45	17	16	50	136	976	3270
45	32	20	50		3040	

Tipo 4

Fresa tronco conica

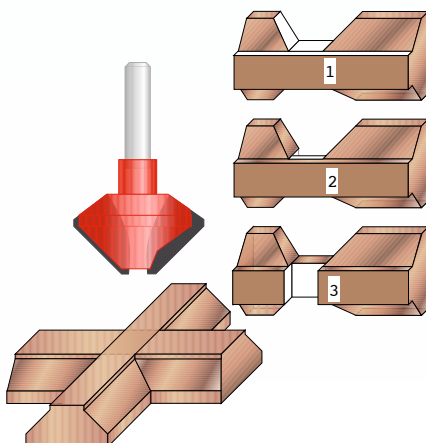
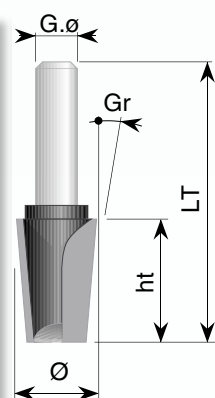
Le frese coniche servono a creare battute inclinate o sformi per stampi.

Con questo incastro potete costruire anche le intelaiature per separé con piante rampicanti.

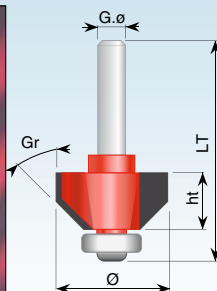
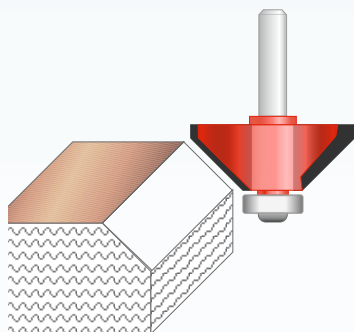
Chamfer cutter

The chamfer cutters can be used for inclined rebatings or for moulds.

This joint will also enable you to build frames for dividing panels with climbing plants.



Gr.	Ø	ht	LT	Art.	Art.
HSC				Gø 6	Gø 8
3	12	18	40	73 *	876 *
5	15	18	40		877 *
45	37	23	48		448 *
Gr.	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
32	25	18	50	134	974
45	30	13	50	1123	1124

Tipo C2S**Fresa rifilo inclinato****Bevel trimming cutter**

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Chiave Tork	T10			90002T100	Tork Key

Gr°	Ø	ht	LT	Art.	Art.	Art.
HW				G ø 6	G ø 8	G ø 12
15	22	22	55		2485	
25	26	21	55	2486	2487	
30	31	21	55	2488	2489	
45	26	14	50	912	1053	
45	35	17	55	153	1054	
45	44	23	55		1852	3272
45	63	30	78			1855

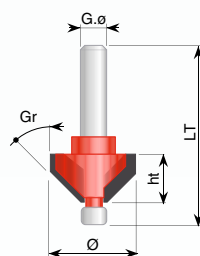
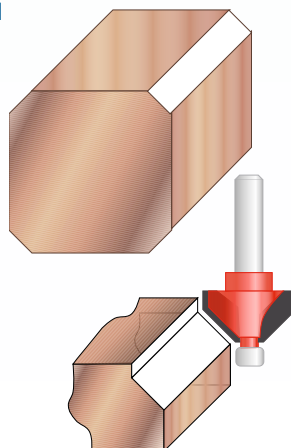
Tipo 4S**Fresa inclinata con perno di guida**

Con questa fresa potete realizzare smussi inclinati anche in angoli molto stretti perché il pivot sostituisce la guida della macchina.

Consiglio pratico: mettete della paraffina sul pivot e sul legno, per evitare il surriscaldamento del legno.

Chamfering pivot cutter

This cutter will enable you to produce bevel edges even in narrow corners, because the pivot replaces the guide of the machine. Practical advice: rub some paraffin on the pivot and the wood-piece, in this way you will avoid overheating of the wood.



Gr.	Ø	ht	LT	Art.		
HW				G ø 6		
45	20	12	50	740		

Tipo 6

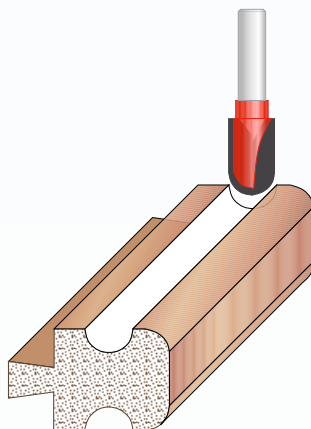
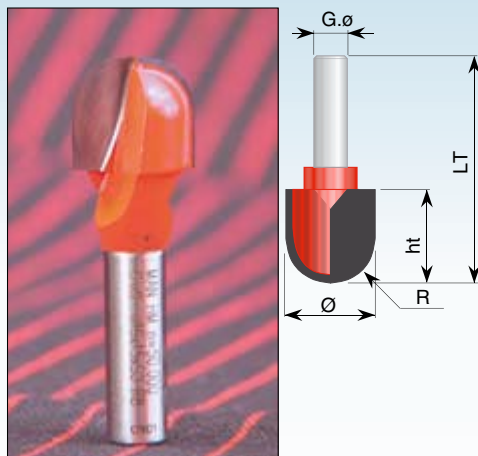
Fresa concava

Queste sono tra le frese più utilizzate; vengono prodotte in acciaio speciale resistente all'abrasione del legno, e in metallo duro, con l'ausilio delle tecnologie più sofisticate.

In figura abbiamo riportato un esempio di realizzazione di maniglia per cassetto con la tipo 6 e la tipo 7.

Concave cutter

These are among the most used cutters; they are produced in special steel, resistant to the abrasion of the wood, and in hard metal, with the most sophisticated technology. The picture shows an example of a drawer-handle, in which the cutter of type 6 and the cutter of type 7 were used.

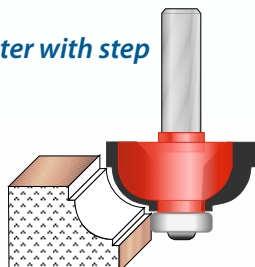


R	Ø	ht	LT	Art.	Art.	
HSC				Gø 6	Gø 8	
4	8	7	31	582 *		
4	8	18	40	78 *	881 *	
5	10	18	40	79 *		
6	12	18	40	80 *	883 *	
6,35	12,7	7	34	583 *	381 *	
7	14	18	40	81 *	884 *	
8	16	18	40		885 *	
10	20	14	40	584 *	387 *	
6,5	13	23	50		381 *	
9	18	25	50		449 *	
R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
1,5	3	10	50	1994		
3	6	12	50	1298	1299	
4	8	14	50	137	978	
5	10	14	50	902	979	
6	12	14	50	138	980	
8	16	14	50	903	981	
10	20	14	50	904	982	
12	24	17	50		1165	1166
15	30	20	50		1167	1168
20	40	25	70			2776

Tipo 6/2sC

Fresa concava con gradino e cuscinetto

Bearing guided concave cutter with step



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
4	25	11	50	2438 *	2439 *
7,5	32	14	50	2440 *	2441 *

Tipo 6SC

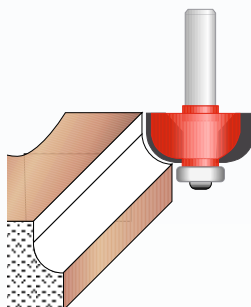
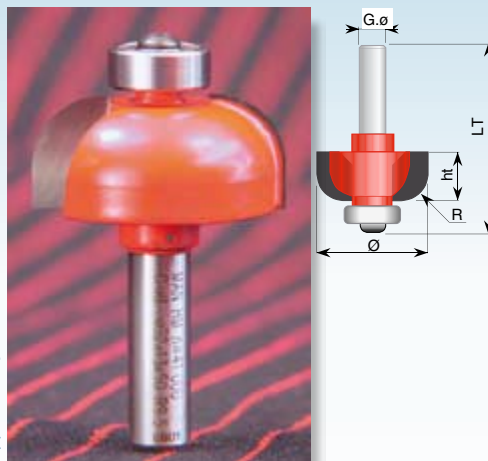
Fresa concava con guida a cuscinetto

Lavorare con precisione e senza la difficoltà di regolare le guide della macchina è possibile grazie alla guida a cuscinetto, costruita con precisione centesimale su frese in metallo duro adatte ad ogni impiego in falegnameria. Se lavorate legni che contengono resine, sostituite il cuscinetto ogni qualvolta la colla lo blocchi, altrimenti funzionerà come un perno di guida.

Bearing guided concave cutter

The bearing allows for higher precision and more control over the machine, consequently also a higher safety level while working.

We recommend that you substitute the bearing whenever it gets stuck because of glues or resins, otherwise it will act as guide pivot.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw

R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
5	23	14	50	140	1060	
6	25	14	50	590	518	
8	29	14	50	591	519	
9,5	32	14	50	592	540	
12	37	17	55	499	558	
15	43	20	60		1220	1221
20	53	26	74			1886
25	63	31	79			1887

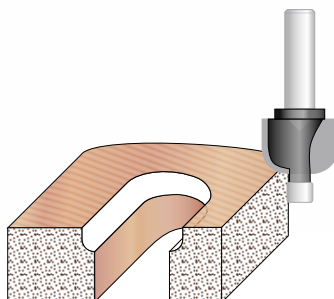
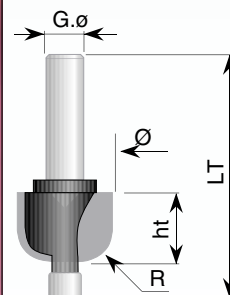
Tipo 6S

Fresa concava con perno di guida

Consentono un lavoro guidato con precisione in zone poco accessibili ed angoli impossibili da raggiungere con le guide della macchina.

Pivot concave cutter

The bearing allows for higher precision and more control over the machine, consequently also a higher safety level while working.



R	Ø	ht	LT	Art.	Art.
HSC				Gø 6	Gø 8
3	11	9	40	83 *	544 *
4	13	9	40	84 *	545 *
5	15	9	40	85 *	551 *
9,5	24	16	40		897 *
12	29	16	45	586 *	578 *
6	18	12	50		554 *

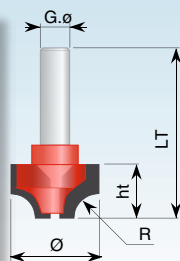
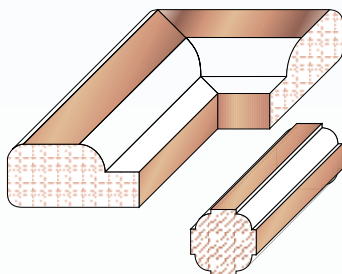
Tipo 7

Fresa convessa

Questa è la fresa sagomata più utilizzata in assoluto, grazie alla sua versatilità di impiego: permette di realizzare scanalature, battute sagomate, serve per stondare gli spigoli ed evitare la scheggiatura, si utilizza per attrezzatura di laboratorio (mensole, ripiani di scaffali) e mobili di casa (sedie, tavolini, antine di mobiletti). La cura particolare e le strette tolleranze di produzione vi permetteranno l'accoppiamento tra il tipo 7 e il suo negativo tipo 6.

Convex cutter

This is the most widely used profiled cutter, because it can be used in many different workings: it allows you to make grooves and moulded rebatings, to chamfer and to avoid splintering. It is also used in the manufacture of workshop furniture (shelves) and house furniture (chairs, tables, furniture-doors,.....). The precision and the small tolerances in the production of these cutters enable you to use this cutter along with its negative, Type 6.



R	Ø	ht	LT	Art.	Art.	Art.
HSC				Gø 6	Gø 8	Gø 9,5
4	14	11	40	86	887	
5	16	12	40	87		
6	18	14	40	88	889	
8	22	16	40	587		
R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
3	14	7	50	1222		
4	16	7	50	994	995	
5	18	11	50	141	983	
6	20	12	50	905	984	
8	24	13	50	906	985	
10	28	15	50		986	
12	34	19	50		987	1223
15	40	20	50		917	1224
30	73	36	79			3233 *

Tipo 7S

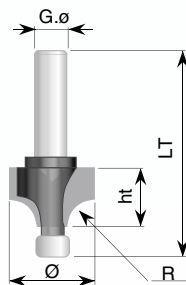
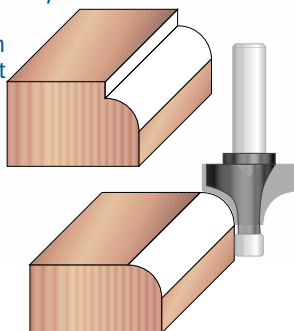
Fresa convessa con perno di guida

Questo tipo di fresa può entrare anche nei bordi più stretti. Consiglio pratico: applicare della paraffina sul pivot e sul bordo del materiale che state lavorando.

Pivot convex cutter

This cutter can be utilized whenever you need to work in narrow corners.

Practical advice: rub some paraffin on the pivot and the wooden part on which you are working.



R	Ø	ht	LT	Art.	Art.
HSC				Gø 6	Gø 8
3	11	9	40	1897 *	
4	13	10	40	89 *	
5	15	10	40	90 *	549 *
6	17	13	45	588 *	
9,5	24	16,5	49		538 *

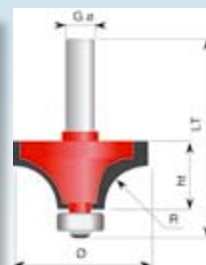
Tipo 7C

Fresa convessa con guida a cuscinetto

La guida a cuscinetto consente maggior precisione e maggior velocità di esecuzione rispetto alle guide montate sulla macchina.

Bearing guided convex cutter

Ball-bearings allow you to work with higher precision and reduced working time compared to the guides installed on the machine.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
2	17	7	50	1248	1258	
3	19	7	50	908	909	
4	21	7	50	3229	3230	
5	23	10	50	593	399	
6	25	12	50	594	479	
8	29	13	50	595	485	
9,5	32	15	50	596	532	809
12	37	19	55	577	507	1104
15	43	20	60		918	989
20	53	26	74			1888
25	63	31	79			1889
30	73	36	84			2483

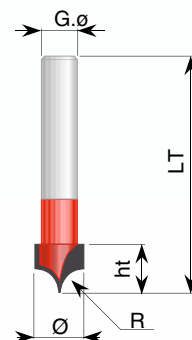
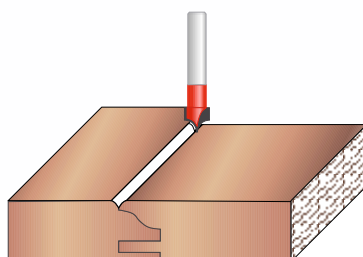
Tipo 7V

Fresa convessa a lancia

Utilizzata soprattutto nella produzione artigianale di antine per mobiletti, per fare "scuri", per nascondere differenze di altezza tra due pannelli uniti o tra montante e traverso.

V-Convex cutter

This is used especially in small-scale production of furniture doors, to build shutters, to conceal any height discrepancies between two panels or between an upright and a cross-piece.



R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
4	8	8	50	741		
5	10	10	50	916	2821	
8	16	13	50	2822	2823	

Tipo 7BA

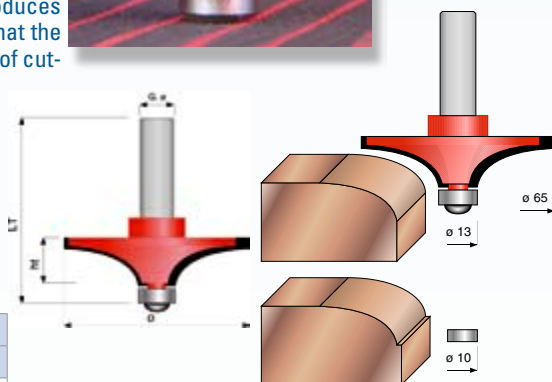
Fresa a becco d'aquila

Usata prevalentemente per formare il corrimano per le scale. E' adatta anche alla produzione di mobili e sedie. Precauzione di sicurezza: Le frese di grosso diametro producono molto truciolo, utilizzate quindi un aspiratore per avere la zona di lavoro ben sgombra e pulita. Riducete la velocità delle frese di diametro 65 mm a 18.000 Giri/1'.

Eagle beak cutter

This cutter is mostly used to make stair handrails, but it is also used for producing furniture and chairs.

Safety precautions: the cutters with a big diameter produces a big quantity of chips. Use therefore an exhauster so that the working area is well clear and clean. Reduce the speed of cutters with Ø 65 mm to 18.000 turns/minute.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

Ø	øc	ht	LT		Art.	Art.
HW					Gø 8	Gø 12
42	13	12	55		1898	1899
65	13	17	65			1900

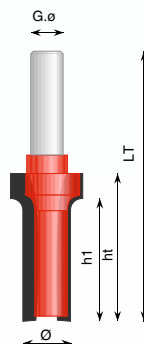
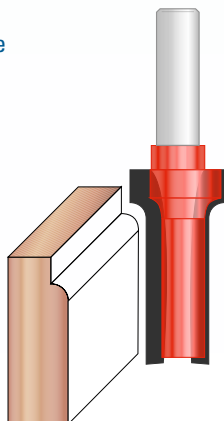
Tipo 2/7

Fresa convessa lunga

Usata per il recupero del listello su serramenti curvi, o per rifilare e stondare contemporaneamente.

Long convex cutter

Used to trim and round your workpiece at the same time.



R	Ø	h1	ht	LT	Art.	Art.
HW					Gø 8	Gø 12
3	12/20	31	35	73	3048 *	3049 *

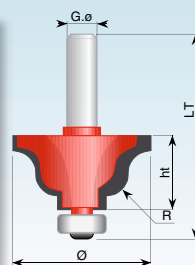
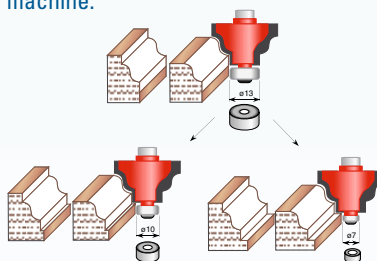
Tipo 8C

Fresa a profilo complesso classico con cuscinetto

La guida a cuscinetto consente maggior precisione e controllo della macchina.

Bearing guided roman ogee cutter

The ball bearing allows you to work with higher precision and a better control of your machine.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
3+3	25	13	50	597	482	
4+4	29	16	55	598	531	
5+5	33	18	55	923	1070	
6+6	37	20	55	924	1071	
8+8	45	24	60		921	1234

Tipo 8

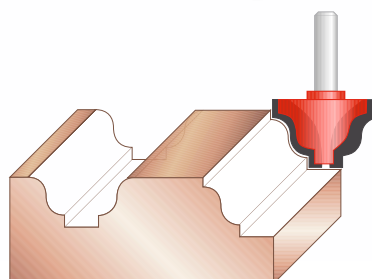
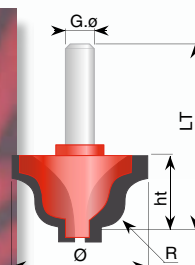
Fresa a profilo complesso classico

La fresa tipo 8 è il profilo più classico utilizzato in falegnameria, permette di realizzare con facilità un profilo esteticamente gradevole.

Roman ogee cutter

The profil of this cutter is the most classic one used in carpentry. With this cutter you can easily make a beautiful moulding.

R	Ø	ht	LT	Art.	Art.	
HSC				Gø 6	Gø 8	
2+2	13	11	40	92	616	
3+3	18	12	40	93	617	
4+4	22	16	40		618	
R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
3+3	20	13	50	144	990	
4+4	24	16	50	910 *	991	
5+5	28	18	50	911 *	992	
6+6	34	20	50		993	1225
8+8	42	24	55		919	1233



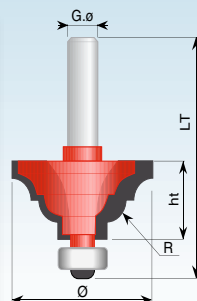
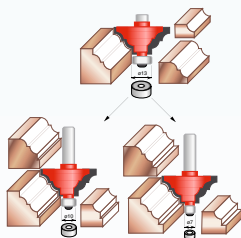
Tipo 8AC

Fresa a profilo complesso con guida a cuscinetto

La guida a cuscinetto consente maggior precisione e controllo della macchina.

Bearing guided ogee fillet cutter

Ball-bearings allow you to work with higher precision and a better control of the machine.



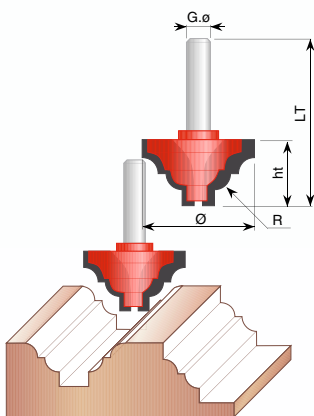
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.	Art.
HW				Gø 6	Gø 8	Gø 12
3+3	29	15,5	55	579	486	
4+4	33	18	55	575	491	
5+5	37	20	55	925	1075	810 *

Tipo 8A

Fresa a profilo complesso

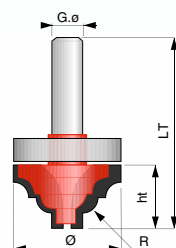
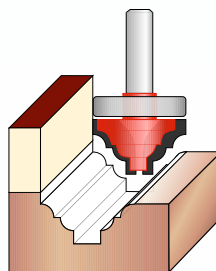
Ogee fillet cutter



Tipo 8AS

Fresa a profilo complesso con cuscinetto posteriore

Back bearing guided ogee fillet cutter



R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
3+3	24	15,5	50	742 *	1077	
4+4	28	18	50	743 *	1078	
5+5	34	20	50		1079	

R	Ø	ht	LT		Art.	
HW					Gø 8	
3+3	24	15,5	50		1789	
4+4	28	18	50		1790	

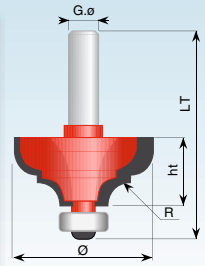
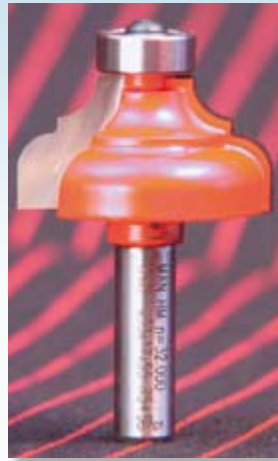
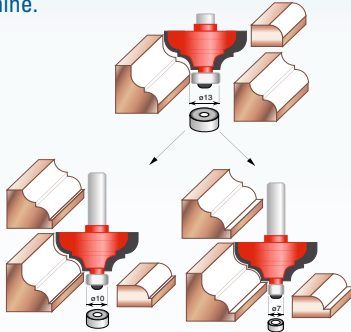
Tipo 8BC

Fresa a profilo complesso con guida a cuscinetto

La guida a cuscinetto consente maggior precisione e controllo della macchina.

Bearing guided ogee fillet cutter

Ball-bearings allow you to work with higher precision and a better control of the machine.



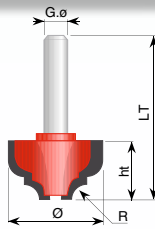
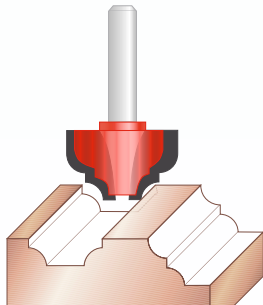
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
4+4	29	16	55	576	484	
5+5	33	17	55	498	493	
6+6	37	19	55	926	1076	

Tipo 8B

Fresa a profilo complesso

Ogee fillet cutter

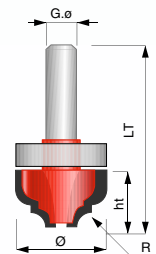
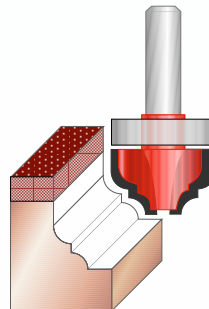


R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
4+4	24	16	50	744	1080	
5+5	28	17	50		1081	
6+6	34	19	50		1082	

Tipo 8BS

Fresa a profilo complesso con cusc. posteriore

Back bearing guided ogee fillet cutter



R	Ø	ht	LT	Art.	
HW				Gø 8	
5+5	28	17	50	1791*	

Tipo 8DC

Fresa a profilo classico con guida a cuscinetto

La guida a cuscinetto consente maggior precisione e controllo della macchina.

Bearings guided roman ogee cutter

Ball-bearings allow you to work with higher precision and a better control of your machine.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
4+4	29	16	55	920 *	1065	
6+6	37	20	55	922 *	1066	

Tipo 8D

Fresa a profilo classico

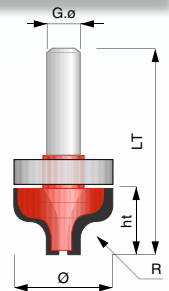
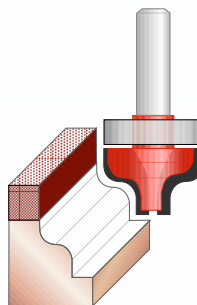
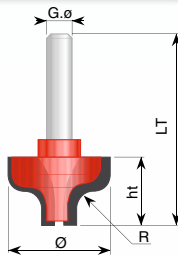
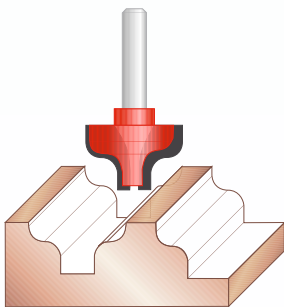
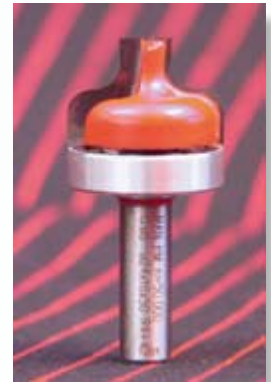
Roman ogee cutter



Tipo 8DS

Fresa a profilo classico con cuscinetto posteriore

Roman ogee cutter with back ball bearing



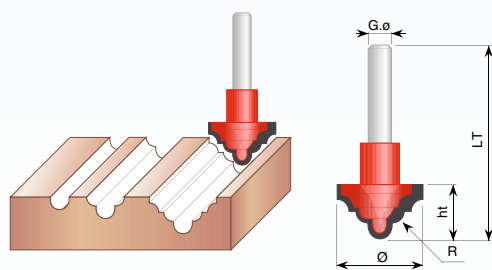
R	Ø	ht	LT	Art.	Art.	
HW				Gø 6	Gø 8	
4+4	24	16	50	915 *	1063	
6+6	34	20	50		1064 *	

R	Ø	ht			Art.	
HW					Gø 8	
4+4	24	16	50		1792*	

Tipo 8E

Fresa a profilo
complesso

Ogee fillet cutter

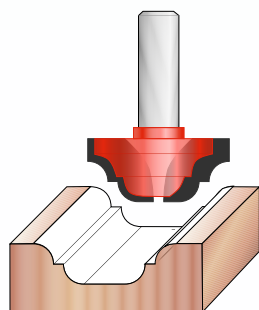


R	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
3+3	22	15	50	1237 *	1238

Tipo 8H

Fresa a profilo
complesso

Ogee fillet cutter

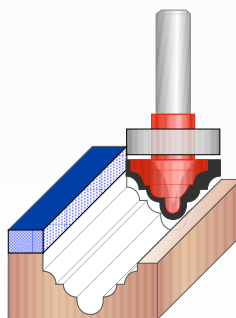


R	Ø	ht	LT	Art.	Art.
HW					Gø 8
4+4	28	18	50	1992	

Tipo 8ES

Fresa a profilo
complesso con cusc.
posteriore

Back bearing guided
ogee fillet cutter

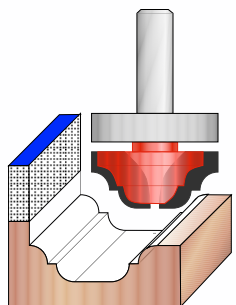


R	Ø	ht	LT	Art.	
HW					Gø 8
3+3	22	15	50	1793	

Tipo 8HS

Fresa a profilo
complesso con cusc.
posteriore

Back bearing guided
ogee fillet cutter

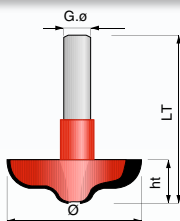
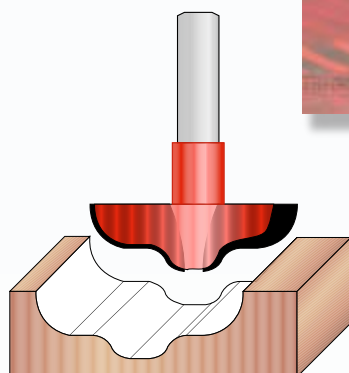


R	Ø	ht	LT	Art.	
HW					Gø 8
4+4	28	18	50	1993	

Tipo 8DE

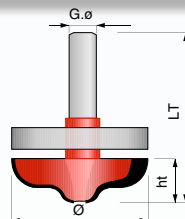
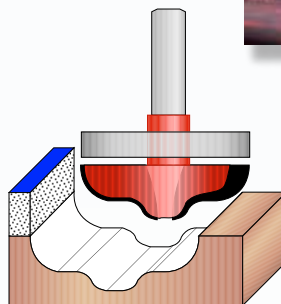
Fresa a profilo classico

Roman ogee cutter

**Tipo 8DES**

Fresa a profilo classico con cuscinetto posteriore

Roman ogee cutter with back ball bearing



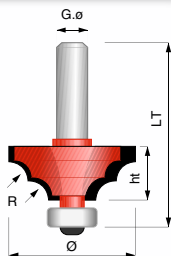
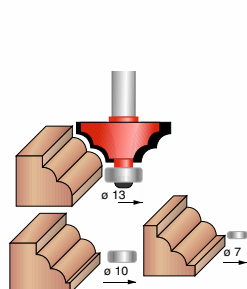
Ø	ht	LT	Art.	Art.
HW			Gø 6	Gø 8
28	14	50	2770 *	2771
40	13	50		1987

Ø	ht	LT	Art.
HW			Gø 8
28	14	50	3045 *
40	13	50	1988

Tipo 8FC

Fresa profilata con guide a cuscinetto

Bearings guided roman ogee cutter

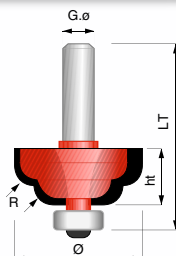
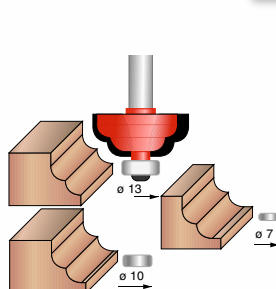


R	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
5+5	33	17	55	1901 *	1902

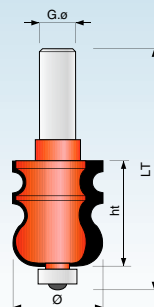
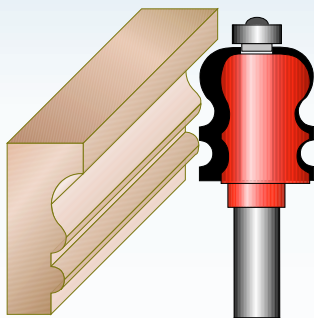
Tipo 8GC

Fresa profilata con guide a cuscinetto

Bearings guided roman ogee cutter

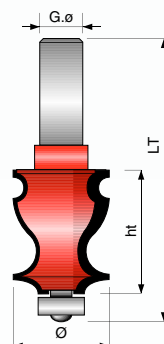
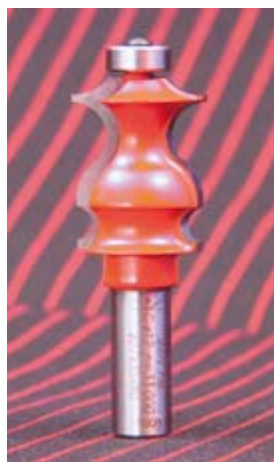
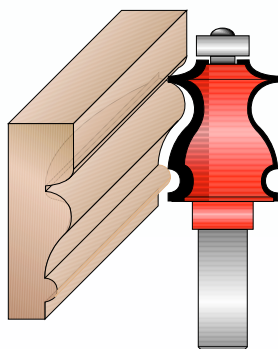


R	Ø	ht	LT	Art.	Art.
HW				Gø 6	Gø 8
5+5	33	17	55	1903 *	1904

Tipo Sag1*Fresa profilata con guida a cuscinetto**Bearing guided cutter*

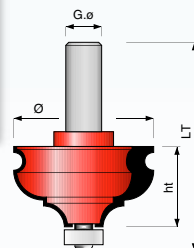
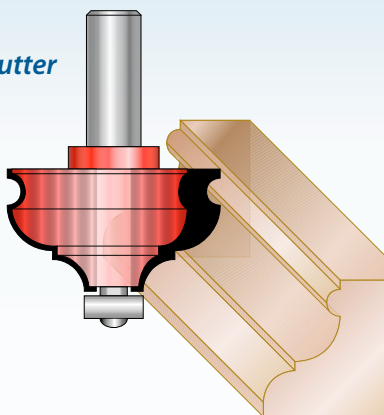
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT		Art.
HW					Gø 12
	30	35	80		2465

Tipo Sag2*Fresa profilata con guida a cuscinetto**Bearing guided cutter*

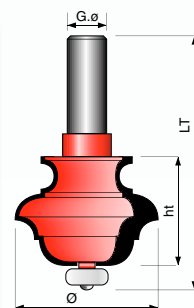
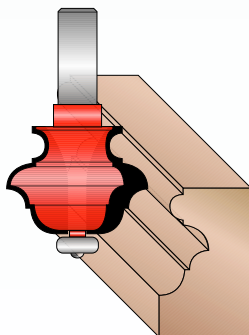
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT		Art.
HW					Gø 12
	27	35	80		2466

Tipo Sag3*Fresa profilata con guida a cuscinetto**Bearing guided cutter*

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT		Art.
HW					Gø 12
	47	27	68		2467

Tipo Sag4*Fresa profilata con guida a cuscinetto**Bearing guided cutter*

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT		Art.	Art.
HW					Gø 8	Gø 12
	34	24	67		2468	2469
	44	33	76			2470

Tipo 4PB

Piattabanda inclinata

Il Ø 42 viene fornita con il cuscinetto Ø 7mm, mentre il Ø 65 con quello Ø 13. E' stata studiata per realizzare il pannello centrale delle antine dei mobiletti con le fresatrici portatili.

Su queste frese è possibile montare il cuscinetto Ø 10 mm.

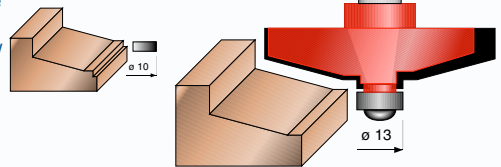
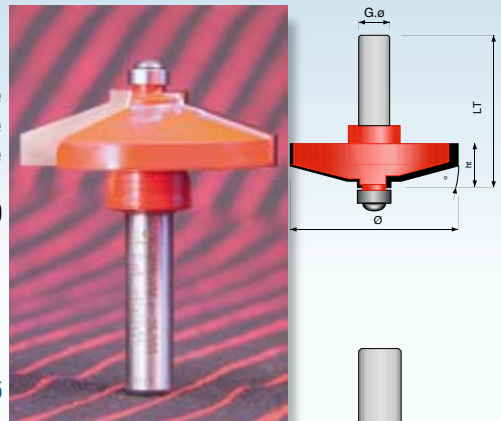
Riducete la velocità delle frese di diametro 65 mm a 18.000 giri/1'.

Inclined raised panel cutter

Ø 42 is supplied with ball-bearing Ø 7, while the cutter of Ø 65 with ball bearing Ø 13.

It has been designed for producing the middle panel of the furniture doors through portable milling machines. On these cutters it is possible to mount also ball-bearing Ø 10.

Reduce the speed of cutters with Ø 65 mm to 18.000 turns/minute.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Cuscinetto	7	4	2,5	506743000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

°	Ø	ht	LT	øc	Art.	Art.
HW					Gø 8	Gø 12
20	42	12	55	7	1995	
15	65	17	65	13		1794

Tipo 6PB

Piattabanda concava

Il Ø 42 viene fornita con il cuscinetto Ø 7 mm, mentre il Ø 65 con quello Ø 13.

E' stata studiata per realizzare il pannello centrale delle antine dei mobiletti con le fresatrici portatili. Su queste frese è possibile montare il cuscinetto Ø 10 mm.

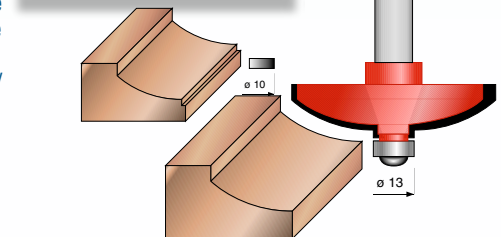
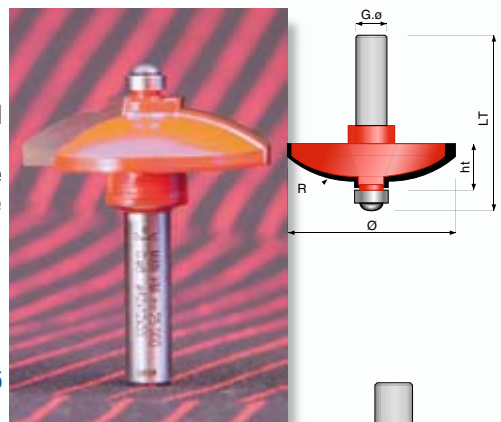
Riducete la velocità delle frese di diametro 65 mm a 18.000 giri/1'.

Concave raised panel cutter

Ø 42 is supplied with ball-bearing Ø 7, while the cutter of Ø 65 with ball bearing Ø 13.

It has been designed for producing the middle panel of the furniture doors through portable milling machines. On these cutters it is possible to mount also ball-bearing Ø 10.

Reduce the speed of cutters with Ø 65 mm to 18.000 turns/minute.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Cuscinetto	7	4	2,5	506743000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	Ø	ht	LT	øc	Art.	Art.
HW					Gø 8	Gø 12
30	42	12	55	7	1996	
40	65	17	65	13		1795

Tipo 8PB

Piattabanda a profilo semplice

Il Ø 42 viene fornita con il cuscinetto Ø 7mm, mentre il Ø 65 con quello Ø 13.

E' stata studiata per realizzare il pannello centrale delle antine dei mobiletti con le fresatrici portatili. Su queste frese è possibile montare il cuscinetto Ø 10 mm.

Riducete la velocità delle frese di diametro 65 mm a 18.000 Giri/1'.

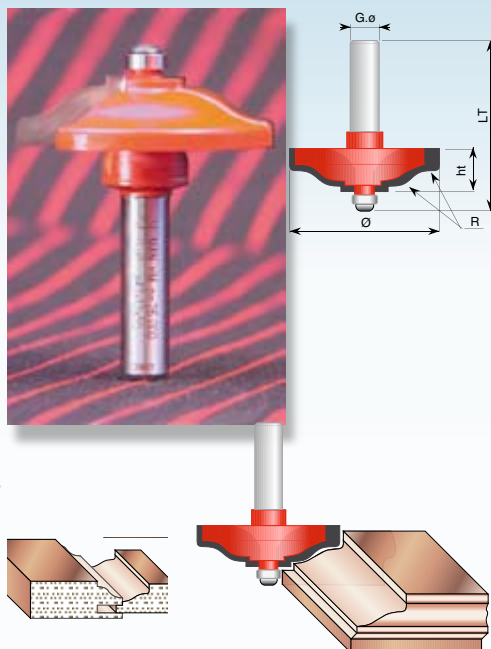
Raised panel cutter with simple profile

Ø 42 is supplied with ball-bearing Ø 7, while the cutter of Ø 65 with ball bearing Ø 13.

It has been designed for producing the middle panel of the furniture doors through portable milling machines. On these cutters it is possible to mount also ball-bearing Ø 10.

Reduce the speed of cutters with Ø 65 mm to 18.000 turns/minute.

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Cuscinetto	7	4	2,5	506743000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key



	Ø	ht	LT	øc	Art.	Art.
HW					Gø 8	Gø 12
	42	12	55	7	1235	1236
	65	17	65	13		1796

Tipo 8APB

Piattabanda a profilo complesso

Il Ø 42 viene fornita con il cuscinetto Ø 7mm, mentre il Ø 65 con quello Ø 13.

E' stata studiata per realizzare il pannello centrale delle antine dei mobiletti con le fresatrici portatili. Su queste frese è possibile montare il cuscinetto Ø 10 mm.

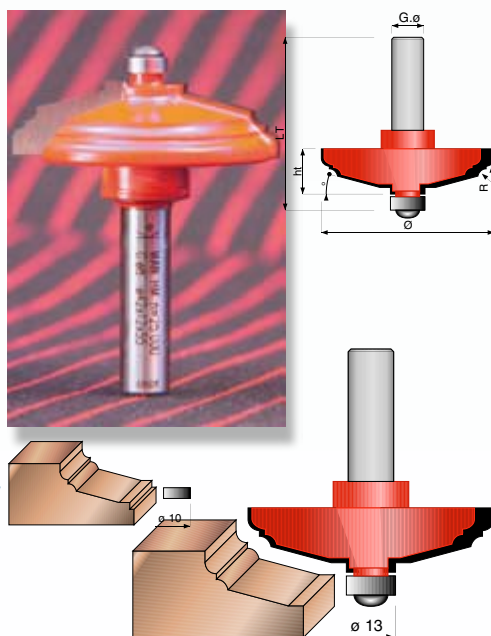
Riducete la velocità delle frese di diametro 65 mm a 18.000 Giri/1'.

Raised panel cutter with complex profile

Ø 42 is supplied with ball-bearing Ø 7, while the cutter of Ø 65 with ball bearing Ø 13.

It has been designed for producing the middle panel of the furniture doors through portable milling machines. On these cutters it is possible to mount also ball-bearing Ø 10.

Reduce the speed of cutters with Ø 65 mm to 18.000 turns/minute.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Cuscinetto	7	4	2,5	506743000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT	øc	Art.	Art.
HW					Gø 8	Gø 12
	42	12	55	7	1997	
	65	17	65	13		1797

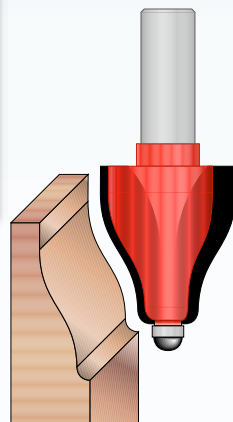
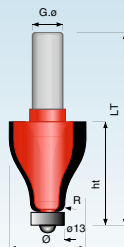
Tipo 4BS

Fresa profilata con guide a cuscinetto

Potete cambiare il cuscinetto in dotazione Ø 13 mm con quello Ø 7 mm (acquistandolo separatamente), in questo modo si ottiene un profilo diverso (come si può vedere dalla figura).

Bearing guided roman ogee cutter

With this cutter it is possible to substitute the bearing Ø 13 mm with the other of Ø 7 mm (sold separately); this enables you to obtain different profiles (as shown in the picture).



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT		Art.	Art.
HW					G.ø 8	Gø 12
	29	35	72		1907	1908

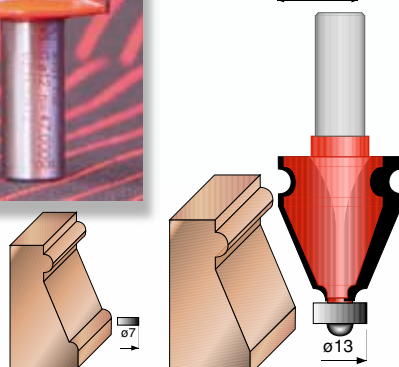
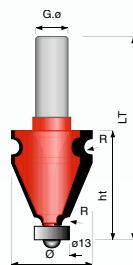
Tipo 4CR

Fresa profilata con guide a cuscinetto

Potete cambiare il cuscinetto in dotazione Ø 13 mm con quello Ø 7 mm (acquistandolo separatamente), in questo modo si ottiene un profilo diverso (come si può vedere dalla figura).

Bearing guided roman ogee cutter

With this cutter it is possible to substitute the bearing Ø 13 mm with the other of Ø 7 mm (sold separately); this enables you to obtain different profiles (as shown in the picture).



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Chiave Tork	T10			90002T100	Tork Key

	Ø	ht	LT		Art.	Art.
HW					G.ø 8	Gø 12
	29	35	72		1905	1906

Tipo M

Fresa per maniglie

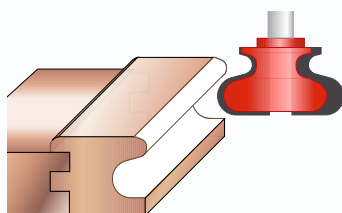
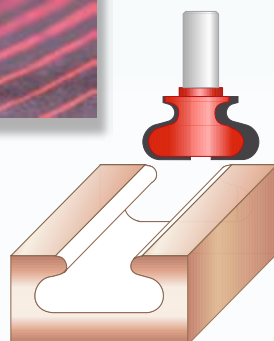
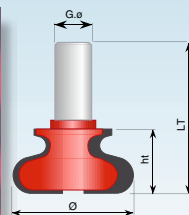
Fresa progettata per la realizzazione di maniglie di stile continentale, può essere utilizzata su pantografi fissi, toupie, o su elettrofresatrici portatili.

La fresa asporta grandi quantità di materiale, è consigliabile perciò fare più passate. Se lavorate nel pieno del legno, fate prima una fresatura cilindrica di scarico per lasciare evacuare i trucioli che la fresa tipo M produrrà, creando l'incavo della maniglia, nella lavorazione successiva.

Cutter for handles

This cutter is designed for the production of door-handles with a continental style and it can be used on fixed pantographs, spindle moulding machines or portable electric milling-machines.

This cutter removes a big quantity of material, it is therefore advisable to remove the material in more passes. If you are working in the middle of the wood, you should first mill cylindrically for an outlet, in order to clear out the shavings you are going to produce later with a cutter for handles.

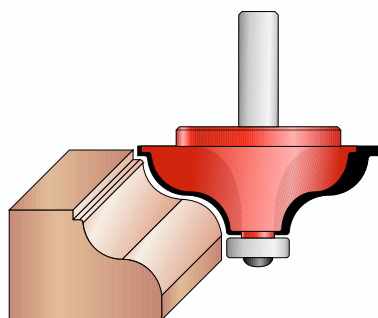
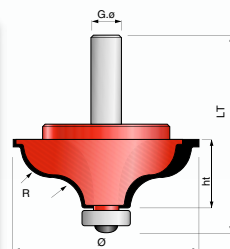


	Ø	ht	LT	Art.	Art.
HW				Gø 8	Gø 12
	42	22	50	1239	1240

Tipo 8CV

Fresa profilata per cornici

Profile cutter for picture frames



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	19	6	5	506263000	Bearing
Vite	M 4		8	973810408	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	13	6	5	506863000	Bearing
Chiave Tork	T15			90002T150	Tork Key

R	Ø	ht	LT		Art.
HW					Gø 12
12	72	27	75		3012+

Tipo 9

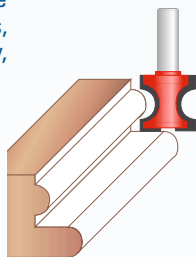
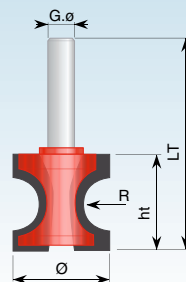
Fresa a lati concavi

Queste frese sono costruite con estrema cura, per consentirvi di realizzare bordature, profili e snodi a mezzo tondo.

Viene utilizzata per stondare mensole, tavoli, sedie e per tutti i materiali come i truciolati che non sopportano gli spigoli vivi.

Half round cutter

These cutters are produced with great care and will allow you to produce edges, profilings and semicircle joints. It is used to round off shelves, tables, chairs and for all materials that chip easily, such as laminated woods.



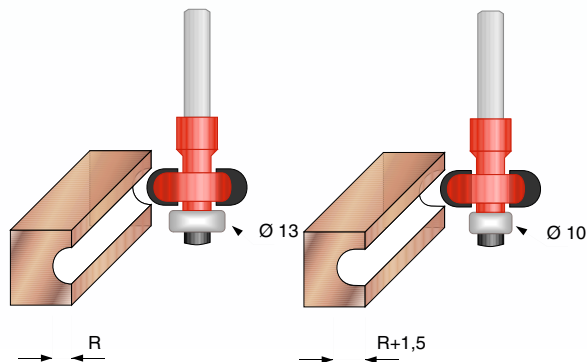
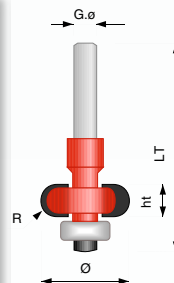
R	Ø	ht	LT	Art.	Art.	
HSC				Gø 6	Gø 8	
3	14	13	40	96	619	
4	16	17	40	97	620	
5	18	21	40	98	621	

R	Ø	ht	LT	Art.	Art.	Art.
HW				G ø 6	G ø 8	G ø 12
3	16	14	50	1448 *	1449	
5	18	16	50	928	996	
6	22	18	50	929	997	
7,5	27	21	50		998	
10	35	26	55		999	
12,5	42	33	65			1241

Tipo LSA

Fresa per listelli di serrande

Profiled cutter for listels



R	Ø	ht	LT	Art.	Art.	
HW				G.ø 6	Gø 8	
3	19	6	50	1338	1358	
5	23	10	50	1339	1359	

Tipo 9C

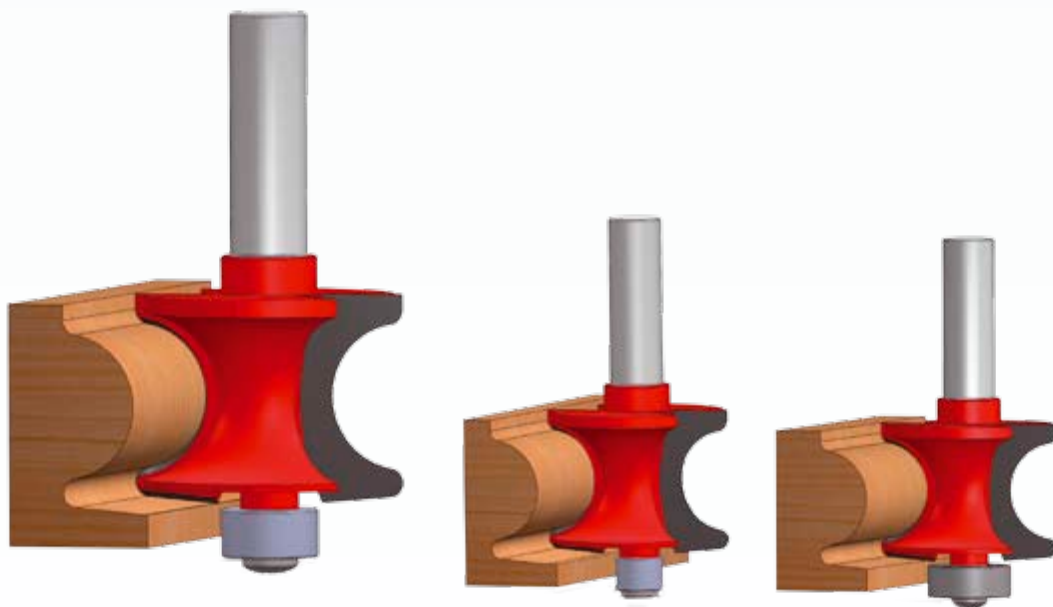
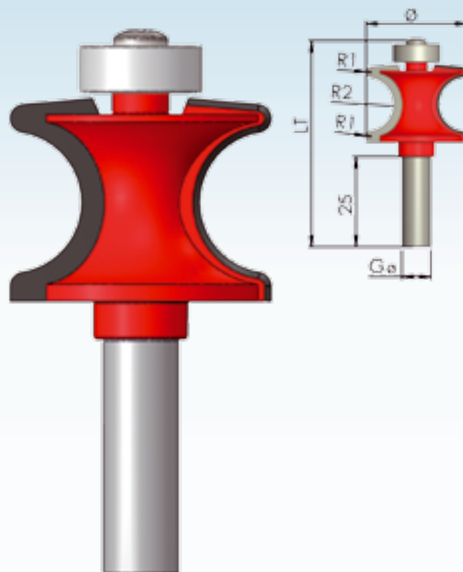
Fresa a lati concavi con cuscinetto

Queste frese sono costruite con estrema cura, per consentirvi di realizzare bordature, profili e snodi a mezzo tondo.

Viene utilizzata per stondare mensole, tavoli, sedie e per tutti i materiali come i truciolati che non sopportano gli spigoli vivi.

Bearing guided Half round cutter

These cutters are produced with great care and will allow you to produce edges, profilings and semicircle joints. It is used to round off shelves, tables, chairs and for all materials that chip easily, such as laminated woods.



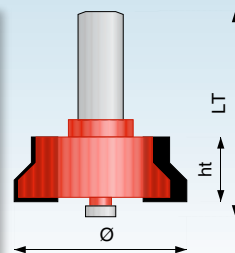
Standard	Ø	ø	S-ht	Codice	
Cuscinetto	13	4	5	506243000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	7	4	2,5	506743000	Bearing
Cuscinetto	10	4	4	501043000	Bearing
Chiave Tork	T10			90002T100	Tork Key

R	r	Ø	ht	LT	Art.	
HW					G ø 8	
5	1	23	16	57	4183	
7,5	1	28	21	57	4184	
10	1	33	26	63	4185	

Tipo IC

Fresa per giunzioni cassetto

La fresa fornita monta il cuscinetto Ø 7 mm, con il quale potete fresare il frontale -fig.1-; con le guide della vostra macchina o acquistando il cuscinetto Ø 32 mm fresate il laterale a filo -fig.2- e ottenete l'incastro con scuretto -fig.3-. Se il vostro laterale è troppo spesso potete fresarlo con il cuscinetto Ø 19 mm -fig.5- otterrete così un incastro più robusto. Se non volete lo scuretto potete giocare con lo spessore dei legni o fresare la fig.1 con un cuscinetto Ø 13 mm o Ø 19 mm.

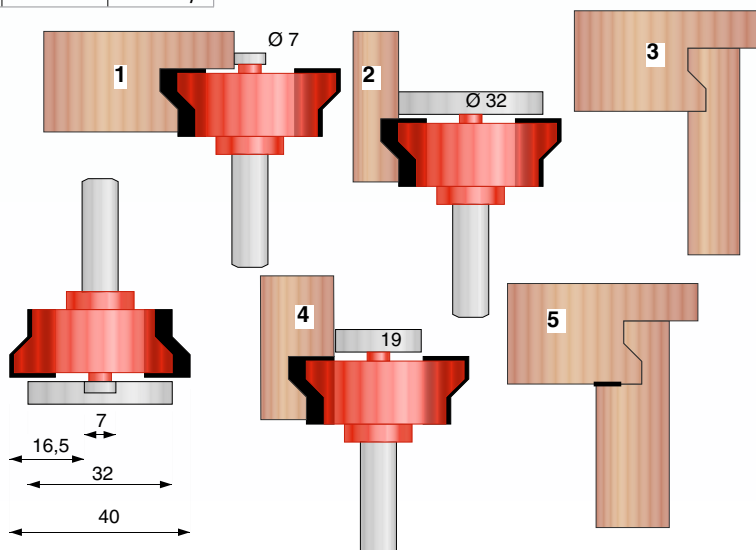


Joint cutter for drawers

The supplied cutter mounts the bearing Ø 7 mm, with which you can mill the frontal piece (picture 1). Use the machine guides or buy the bearing Ø 32 mm and mill the side (picture 2). In this way you get the joint with a projection (picture 3). If the side is too thick, you can mill it by using the bearing Ø 19 mm (picture 5). So you will get a stronger joint. If you do not want the projection you can play upon the thickness of woodpieces or mill the frontal pieces (picture 1) with the bearing Ø 13 mm or the bearing Ø 19 mm.

	Ø	ht	LT		Art.	Art.
HW					Gø 8	G.ø 12
	40	14	50		1990	1991

Standard	Ø	ø	S-ht	Codice	
Cuscinetto	7	4	2,5	506743000	Bearing
Vite	M 3		8	973820308	Screw
Accessori a richiesta			Accessories on request		
Cuscinetto	10	4	4	501043000	Bearing
Cuscinetto	13	4	5	506243000	Bearing
Cuscinetto	19	4	5	506243019	Bearing
Chiave Tork	T10			90002T100	Tork Key



Tipo S1

Fresa sferica

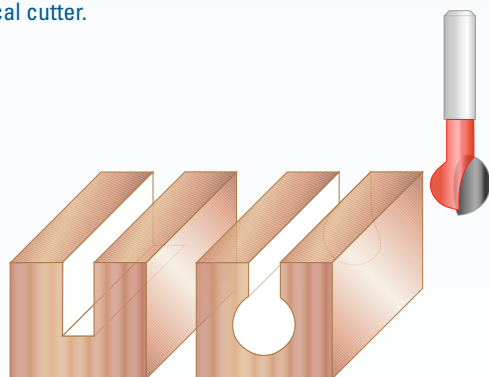
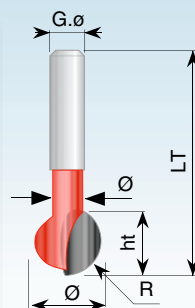
Questa fresa è utilizzata principalmente per creare la cava dove inserire una bacchetta e la stoffa per sedie, sdraio ed arredi.

E' necessario realizzare prima una scanalatura con una fresa cilindrica con una profondità fino al centro della sfera.

Round cutter

This cutter is used to cut a groove, into which you can insert rod and cloth for the production of chairs, deck-chairs and furniture.

Before using this cutter, it is necessary to create a groove with a cylindrical cutter.



R	Ø	ø	ht	LT	Art.	Art.
HW					G.ø 6	Gø 8
6	12	6	11	50		3014
8	16	6	15	50	3043 *	3046
10	20	8	19	50		3047

Tipo T

Fresa per cave a T

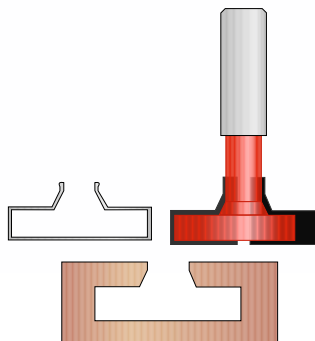
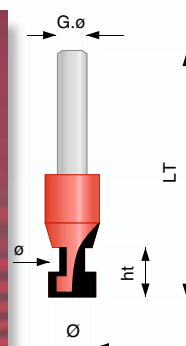
Con la fresa per cave a "T" potrete anche fissare oggetti o quadri e bassorilievi al muro.

Consiglio pratico: Fissate bene il pezzo da lavorare al banco e, quando siete entrati nel legno, avanzate molto lentamente perché il truciolo non ha spazio per evacuare.

T-Slot cutter

With this cutter you can also fix things or paintings and bas-relieves on the wall.

Practical advice: Fix very well the piece on the worktable and, when you enter in the wood, move forward very slowly, because the chip has not the space to go out.



Ø	ø	ht	LT	Art.	Art.	
HSC				Gø 6	Gø 8	
12	6	18	40	103	895	
Ø	ø	ht	LT	Art.	Art.	
HW					Gø 8	Gø 12
9,5	5	10	50		1319	
30	10	18	60		2949	2384

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*A lot of applications and
reduction of cost*

*Corpo in acciaio ad
alta resistenza*

High resistance steel body



*Costo ridotto per
passare da una
composizione all'altra*

*With a small cost it is
possible to buy additional
components and
compose another tool*

*Metallo duro di alta
qualità e durata*

*High quality and wear
resistance hard metal*

Frese componibili Ø foro 10 mm

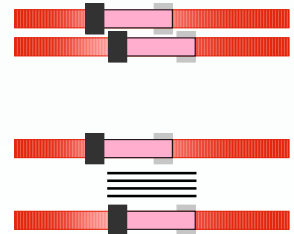
Le frese componibili trattate in queste pagine si possono montare in varie combinazioni; noi Vi forniamo alcuni esempi, altri ne potrete ricavare seguendo alcuni semplici ma indispensabili consigli riportati qui sotto e nelle pagine successive.

Quando accoppiate due o più frese a disco "scalatele" in modo che i taglienti in metallo duro non si tocchino; frapponete tra i dischi un numero di distanziali sufficienti a non far toccare il tagliente con il corpo della fresa vicina.

Montare le frese sfalsate serve ad avere un taglio più dolce e senza vibrazioni.

Fate attenzione al senso di rotazione: controllate di aver montato tutti gli elementi con rotazione oraria.

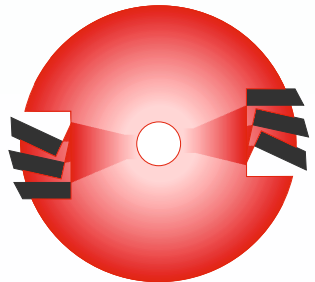
Precauzioni di sicurezza: Quando montate le frese e gli accessori (distanziali e cuscinetti) sull'alberino, fate attenzione a non metterne troppi o troppo pochi; l'ultima fresa, che fa da tappo, deve inserirsi per un millimetro sull'alberino.



Modular cutter with inner bore 10 mm

You can assemble the modular cutters shown in these pages in various compositions; we give you some examples: you can produce other ones, if you follow some easy but indispensable advices, which you find in these pages. When you assemble one or more slotting cutters, arrange them "staggered" in order to avoid that the hard metal cutting edges come into contact among themselves. Interpose enough distance pieces among the slotting cutters to avoid that the cutting edge touches the body of the near cutter. It is necessary to assemble the cutter staggered in order to have a soft cut, without vibrations. Make sure you have assembled all the components with clockwise rotation (right).

Safety measures: When you assemble cutters and accessories (distance pieces and ball bearings) on the arbor, make sure that you have not fitted too many or not enough pieces: the last cutter, which acts as a closing plug, must fit on the arbor for 1 mm.

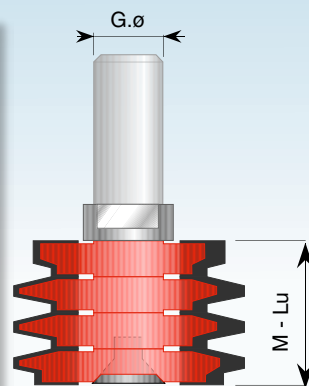


Fresa montata per incastri conici

Queste frese si utilizzano per unire assi e formare strutture in grado di sopportare carichi notevoli, ad esempio i gradini delle scale.

Le tavole che si uniscono possono essere fresate in modo che le venature abbiano direzioni diverse tra loro, questo crea strutture che resistono alle dilatazioni termiche ed all'umidità e con effetto decorativo pregevole.

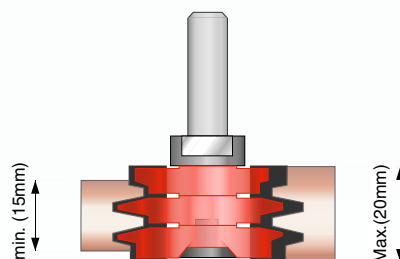
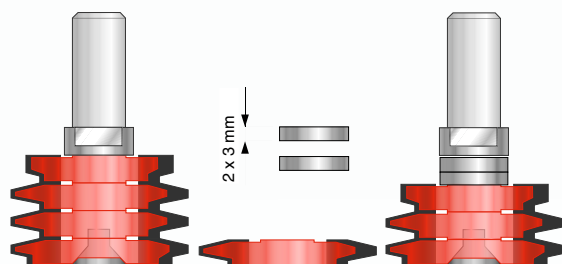
Attenzione: Controllate sempre il serraggio degli elementi della fresa prima di iniziare il lavoro.



Assembled modular cutter for conic joints

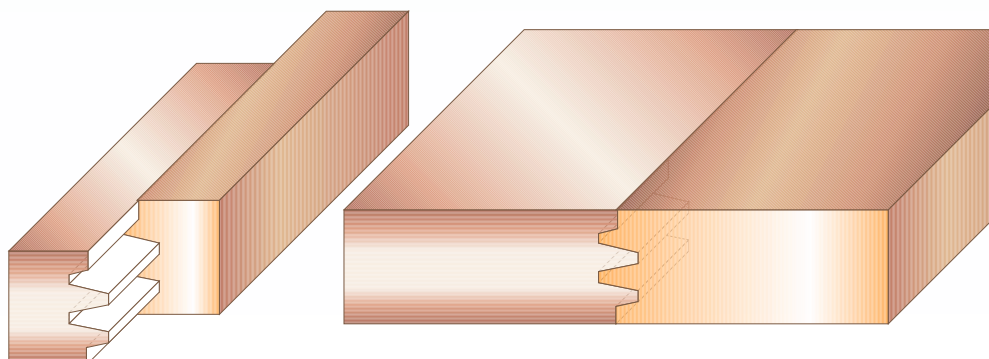
These cutters are used for joining boards and build structures, which can bear considerable weights, for example stairsteps. You can mill the boards to be joined in such a way that the grains run in different directions from one another. In this way you obtain structures which can endure heat dilatations and dampness, and with valuable decorative effect.

Ø	ht	M-Lu	Art.	Art.	Art.
HW			Gø 6	G.ø8	G.ø 12
38	20	15÷20	820	840	
38	26	20÷26		841	842
38	32	26÷32		1278	1279
38	38	32÷38			1284



Per ridurre l'altezza tagliente si deve togliere una fresa centrale ed inserire due distanziali spessore 3 mm.

In order to reduce the cutting height you must remove one of the central cutters and insert two 3 mm distance pieces.



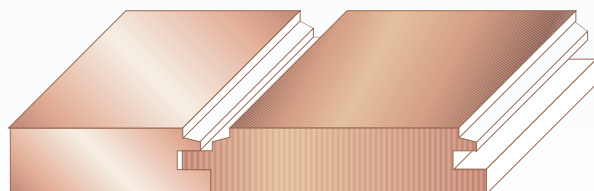
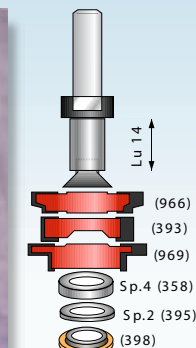
Set per perline con fuga

La piccola fuga con cornice che si forma unendo le tavole, serve a compensare le dilatazioni termiche che ci sono in ambienti riscaldati irregolarmente o che si vogliono coibentare.

Consiglio pratico: frapponete un listello di supporto tra le perline e il muro in modo che l'aria possa circolare tra il muro e la parete di perline, eviterete così il ristagno di umidità negli angoli più freddi.

Set for matchboards with profil

The small profile you obtain by joining the boards helps to counterbalance heat dilatations, which can be found in unevenly heated rooms or if you intend to make an insulated room.



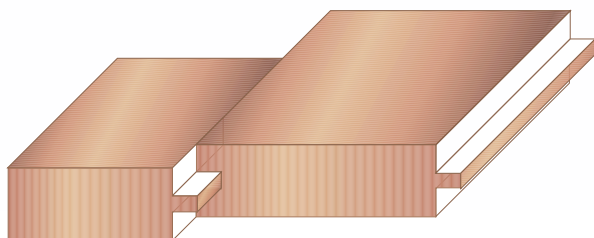
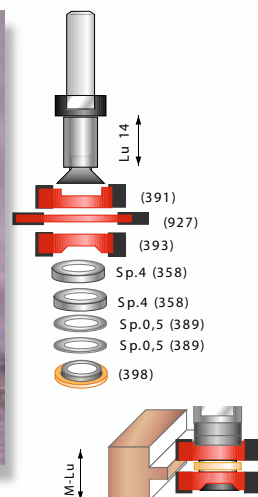
Ø	M-Lu	Art.	Art.		
HW		Gø 6	G.ø8		
34	8÷15	1094	1087		

Set per giunzioni e perline

Questo set di frese componibili è il più semplice, può essere utilizzato per giunzioni di tavole. Le due figure mostrano il montaggio corretto dell'utensile. I componenti di questa fresa possono essere utilizzati anche per gli altri esempi di queste pagine.

Set for joints and matchboards

This set of cutters is the simplest one. You can use it to joint boards. Please keep in mind that the components of this cutter can be used also for the other examples of these pages.



Ø	M-Lu	Art.	Art.		
HW		Gø 6	G.ø8		
40	8÷15	1088	1089		

Fresa montata per guarnizione finestra

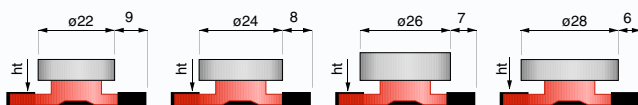
La fresa componibile che vi forniamo già montata, è provvista di cuscinetto Ø 24 e produce una cava dello spessore "ht" della fresa per una profondità di 8 mm. Considerate che il 70% delle guarnizioni oggi in commercio richiede una cava di 4x8. Potete in ogni caso montare un altro cuscinetto se la guarnizione a vostra disposizione ha misure diverse.

La figura sotto vi aiuta a scegliere il cuscinetto che vi serve.

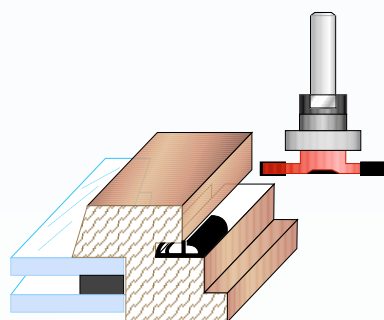
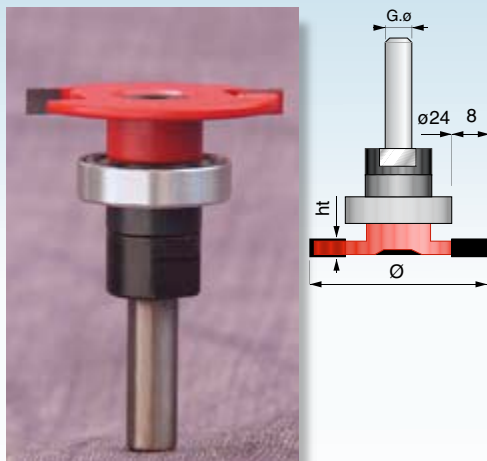
Assembled cutter for the fitting of gaskets into door and window frames

This unit cutter is supplied with a bearing Ø 24 and produces a cavity of height "ht" and width 8 mm. Consider that 70% of the rubber gaskets on sale require a cavity of size 4x8 mm. However if your gasket is of different size, you can mount another ball bearing.

The picture below helps you to choose the right bearing.



Standard	Ø	ø	S-ht	Codice	
Cuscinetto	24	10	5	569003024	bearing
Vite	M 6		14	959330614	screws
Accessori a richiesta			Accessories on request		
Cuscinetto	22	10	5	569003022	bearing
Cuscinetto	26	10	8	560003000	bearing
Cuscinetto	28	10	5	569003028	bearing
Chiave	E 4			900110400	Key



Ø	ht	Lt	Art.	Art.		
HW			Gø 6	G.ø8		
40	3	55	1848	1849		
40	4	56	1850	1851		

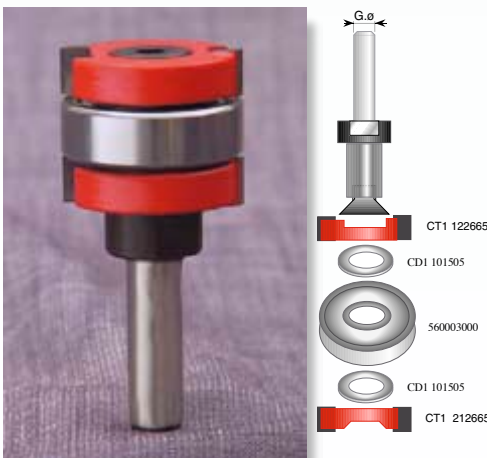
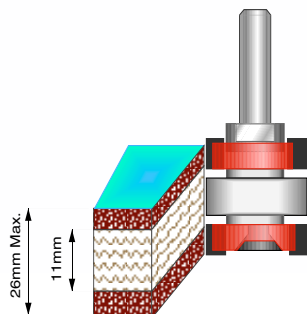
Fresa montata per doppio rifilo

Un pratico esempio di fresa componibile è dato da questa composizione che vi forniamo già montata. La distanza minima tra le due frese è di 10 mm, Vi consigliamo perciò di rispettare l'esempio raffigurato.

Assembled double trimming cutter

A practical example of modular cutter is shown in this composition, which is supplied you already assembled.

The minimum distance between the two cutters is 10 mm, therefore we suggest you to respect the example shown.



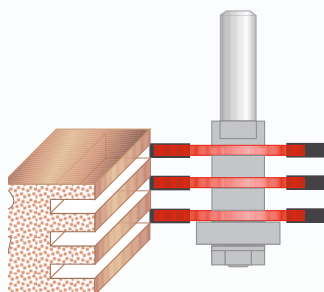
Ø	ht		Art.	Art.		
HW			Gø 6	G.ø8		
26	25		363	819		

Frese a disco foro 10

Le frese a disco servono a effettuare scanalature sul bordo di tavole, tenendo comodamente la macchina appoggiata al piano. Le frese a disco possono essere montate in serie per fare scanalature multiple o possono essere accoppiate per ottenere misure non previste a catalogo.

Slot cutters with bore 10 mm

The slot cutters are designed to make slots on the edge of the boards, while the machine rests easily on the tabletop. The slot cutters can be assembled in series in order to produce multiple grooves, and besides can be combined for making also grooves with measures not shown in our catalogue.



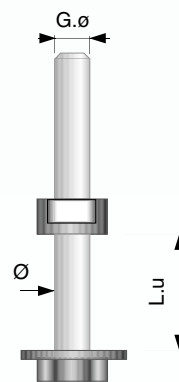
Z	Ø	ht	Fø	Art.	
HW				Fø 10	
3	65	3	10	2804	
3	65	4	10	2805	
3	65	5	10	2806	
3	65	6	10	2807	
3	65	8	10	2808	

Alberino portafrese a disco con foro ø 10 mm

Questi alberini portano le frese a disco di Ø 65 mm e foro 10 mm. Ht-max indica la somma dell'altezza massima delle frese montate contemporaneamente.

Arbors for slot cutters with bore 10 mm

For slot cutters with a 65 mm diameter and a 10 mm bore. It is possible to mount more slot cutters at the same time up to the maximum cutting height (ht max) indicated.

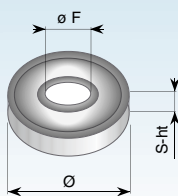


Ø	L.u	ht max	Art.	Art.
			G.ø 8	G.ø 12
10	12	8	3066	3067
10	25	20		3068

Sez C - Frese componibili - Modular cutter

Cuscinetti per frese componibili

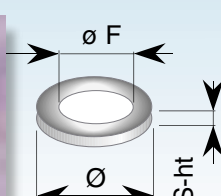
Bearings for modular cutters



	Ø	S-ht	Ø f	Art.	Box	
				Fø 10	X	
	22	6	10	1843	1	
	24	6	10	1844	1	
	26	8	10	394	1	
	28	6	10	1845	1	

Distanziali per frese componibili

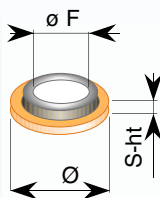
Distance pieces for modular cutters



	Ø	S-ht	Fø	Art.	Box	
				Fø 10	mix	
	15	0,2	10		5	
	15	0,5	10		5	
	15	2	10	1399	1	
	15	3	10		1	
	15	4	10		1	
	15	5	10		1	

Bronzina per frese componibili

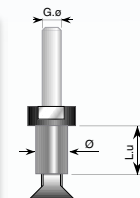
Bush for modular cutters



	Ø	S-ht	Ø f	Art.	Box	
				Fø 10	X	
	15	2,5(3)	10	398	1+1	

Alberi porta frese per frese componibili

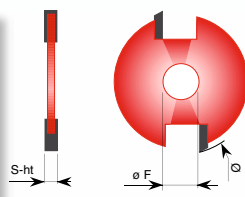
Arbors for modular cutters



Ø	S-ht		Art.	Art.	Art.	
			G.ø6	G.ø 8	G.ø12	
10	14		390	353	355	
10	20			354	356	
10	26			1262	1263	
10	32				1264	

Fresa componibile a disco

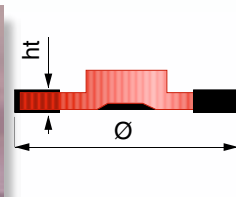
Modular slotting cutter



	Ø	ht	Fø	Art.	
HW				Fø 10	
	40	2,7	10	392	
	40	3	10	927	

Fresa componibile per guarnizioni

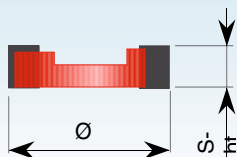
Modular cutter for gaskets



	Ø	ht	Fø	Art.	
HW				Fø 10	
	40	3	10	1846	
	40	4	10	1847	

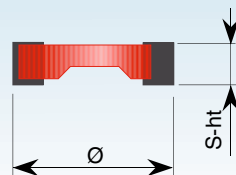
Sez C - Frese componibili - Modular cutter

Fresa componibile superiore
Upper modular cutter



	Ø	ht	Fø	Art.		
HW				Fø 10		
	26	6,5	10	391		

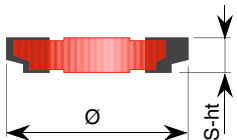
Fresa componibile inferiore
Lower modular cutter



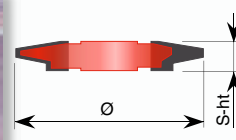
	Ø	ht	Fø	Art.		
HW				Fø 10		
	26	6,5	10	393		

Fresa componibile superiore per incastri
Upper modular cutter for joint

Fresa componibile centrale per incastri
Central modular cutter for joints



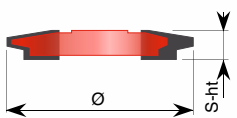
	Ø	ht	Fø	Art.		
HW				Fø 10		
	32	7	10	966		



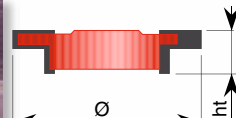
	Ø	ht	Fø	Art.		
HW				Fø 10		
	38	6	10	967		

Fresa componibile inferiore per incastri
Lower modular cutter for joints

Fresa componibile inferiore per perline
Lower modular cutter for matchboards



	Ø	ht	Fø	Art.		
HW				Fø 10		
	38	8	10	968		



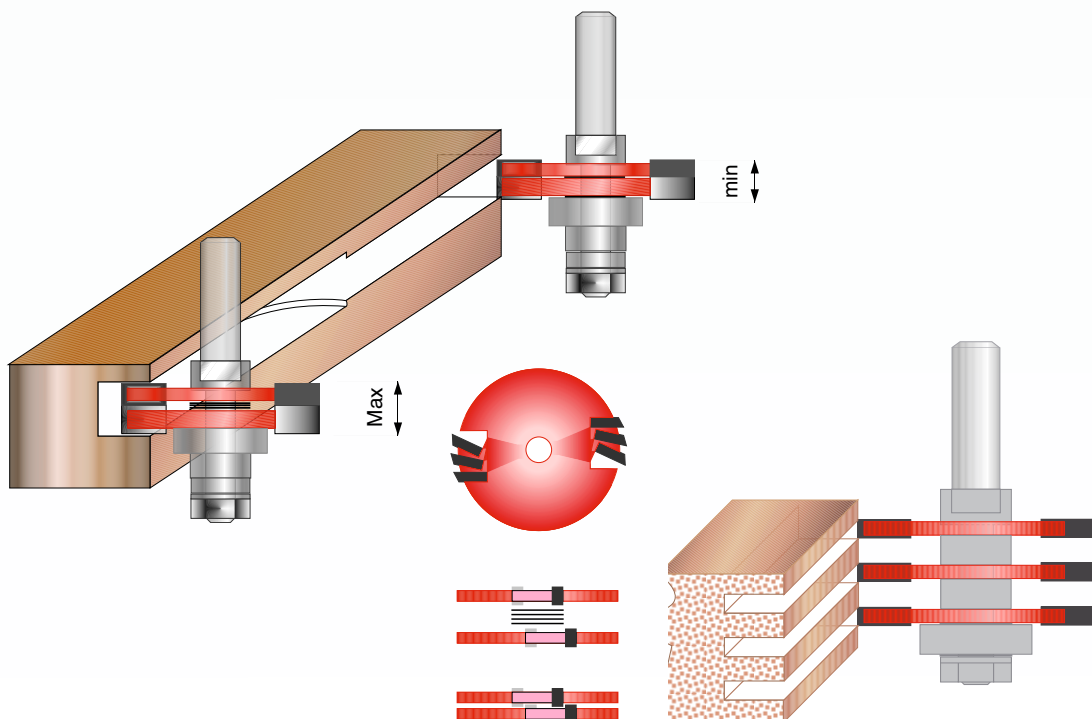
	Ø	ht	Fø	Art.		
HW				Fø 10		
	34	8	10	969		

Frese componibili Ø foro 6 mm

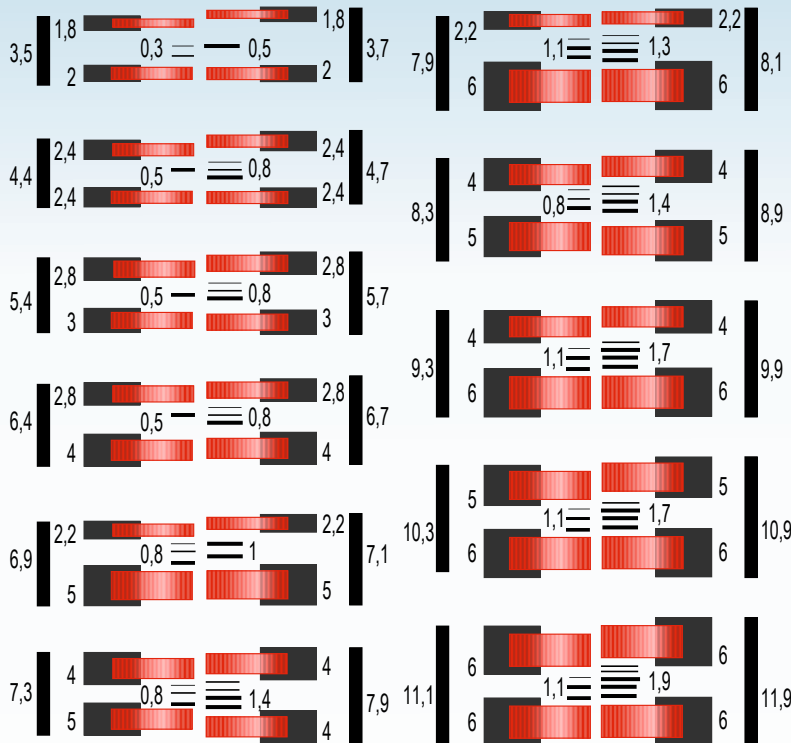
Le frese componibili trattate in queste pagine si possono montare in varie combinazioni; noi Vi forniamo alcuni esempi, altri ne potrete ricavare seguendo alcuni semplici ma indispensabili consigli riportati qui sotto e nelle pagine successive. Quando accoppiate due o più frese a disco "scalatele" in modo che i taglienti in metallo duro non si tocchino; frapponete tra i dischi un numero di distanziali sufficienti a non far toccare il tagliente con il corpo della fresa vicina. Montare le frese sfalsate serve da avere un taglio più dolce e senza vibrazioni. Lo spessore minimo dei distanziali è dato dalla sporgenza del tagliente rispetto al corpo. Lo spessore massimo dei distanziali è dato dalla somma delle due frese meno 0,1mm. ($4+3-0,1=6,9$) Potete in questo modo ottenere scanalature di spessore intermedio o superiore alle frese previste nel nostro catalogo. Fate attenzione al senso di rotazione, controllate di aver montato tutti gli elementi con rotazione oraria. Precauzioni di sicurezza: Quando montate le frese e gli accessori (distanziali e cuscinetti) sull'alberino, fate attenzione a non metterne troppi o troppo pochi; il dado di chiusura deve stringere al centro della parte filettata dell'alberino. Quando utilizzate il cuscinetto di guida mettetelo in fondo, verso il dado di chiusura e le frese sopra, in modo che lo sforzo di taglio venga esercitato il più possibile vicino al mandrino della macchina.

Modular cutter with inner bore 6 mm

You can assemble the modular cutters shown in these pages in various compositions; we give you some examples: you can produce other ones, if you follow some easy but indispensable advices, which you find in these pages. When you assemble one or more slotting cutters, arrange them "staggered" in order to avoid that the hard metal cutting edges come into contact among themselves. Interpose among the slotting cutters enough distance pieces to avoid that the cutting edge touches the body of the near cutter. It is necessary to assemble the cutter staggered in order to have a soft cut, without vibrations. The minimum thickness of the distance pieces is given by the cutting edge projection compared to the body. The maximum thickness of the distance pieces is given by the addition of the two slotting cutters minus 0,1 mm. ($4+3-0,1=6,9$). In this way you can produce grooves with an intermediate or higher thickness than the slotting cutters foreseen in our catalogue. Make sure you have assembled all the components with clockwise rotation (right). Safety measures: When you assemble cutters and accessories (distance pieces and ball bearings) on the arbor, make sure that you have not fitted too many or not enough pieces: the closing nut must tighten in the middle of the threaded part of the arbor. If you use the guide ball bearing, place it at the bottom, next to the closing nut, and then the cutters above, so that the cutting strain is exerted so near as possible to the machine chuck.

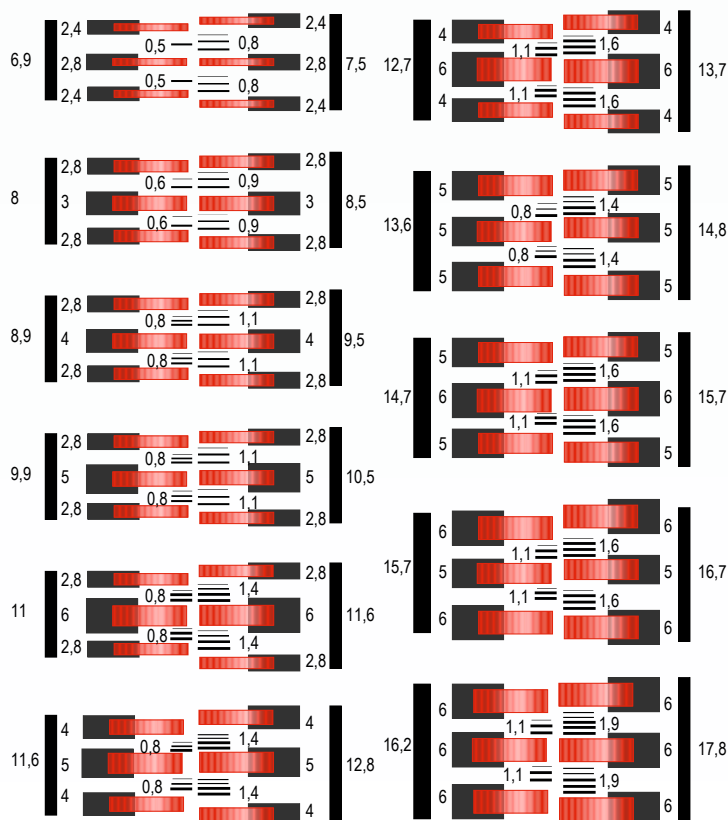


Sez C - Frese componibili - Modular cutter



A fianco abbiamo riportato una tabella dove sulla sinistra di ciascun esempio c'è l'altezza tagliente della fresa ottenuta accoppiando due frese ed interponendo uno spessore minimo di distanziali. Aumentando i distanziali fino allo spessore massimo si ottiene l'altezza tagliente scritta a destra dell'esempio.

In this table you find several examples. On the left of them there is the cutting height, which you can produce with the coupling of two slotting cutters and the interposition of a minimum thickness of distance pieces. If you increase the distance pieces up to the maximum thickness, you produce the cutting height on the right of the examples.

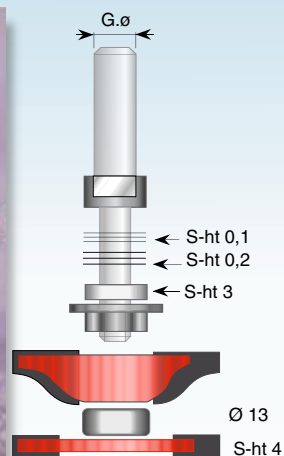


Con tre frese a disco si possono formare altezze taglienti maggiori. Nel-l'esempio riportato sulla sinistra vi è l'altezza tagliente minima, sulla destra l'altezza tagliente massima che potete ottenere con l'aggiunta di altri distanziali. Potete realizzare anche misure intermedie: aumentate lo spessore minimo dei distanziali con altri distanziali fino all'altezza tagliente desiderata.

With three slotting cutters you can create bigger cutting heights. In the example, on the left there is the minimum cutting height; on the right of the example there is the maximum one, which you can produce with the interposition of other distance pieces. You can also create intermediate measures: increase the minimum thickness of distance pieces with other distance pieces up to the cutting height, which you want to produce.

Set per fresare antine profilo medio

La sequenza di operazioni da compiere per realizzare un telaio per antine è la seguente: 1) fresate il montante componendo la fresa come si vede in figura 1 (fresa sagomata, distanziale da 0,1, cuscinetto Ø 13, distanziale da 0,1, fresa a disco spessore 4, distanziale da 3, rondella e dado). Con la fresa così montata, fresate il traverso nella parte interna all'antina. 2) Smontate la fresa e rimontatela come in figura 2 (fresa a disco spessore 4, distanziale da 0,1, cuscinetto Ø 13, distanziale da 0,1, fresa sagomata, distanziale da 3, rondella e dado). Girate sottosopra e fresate il traverso di testa. Rimando: il pannello centrale dell'antina lo potete facilmente ricavare con la fresa tipo 8PB nelle 4 sagome disponibili nel nostro catalogo.



Set for furniture-doors with middle profile

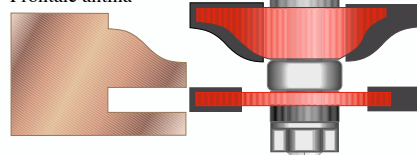
The following is a sequence of steps for the framing of furniture-doors:

1°) Make up the cutter as in figure Nr. 1 (profiled cutter, distance piece 0,1 mm, bearing ø 13 mm, distance piece 0,1 mm, slotting cutter thickness 4 mm, distance piece 3 mm, washer and nut). With the cutter assembled in this way, mill the jamb of your furniture-door and the traverse of the wood in the internal side of the furniture-door. 2°) Disassemble the cutter and assemble it again as in figure Nr. 2 (slotting cutter thickness 4 mm, distance piece 0,1 mm, bearing ø 13 mm, distance piece 0,1 mm, profiled cutter, distance piece 3 mm, washer and nut). Then turn the traverse of the wood upside-down and mill it on the front. Reference: You can easily make the central panel of the furniture-door with the cutter type 8PB in our catalogue.

Ø		M-Lu	Fø	Art.	Art.	
HW				Gø 8	G.ø 12	
40		17÷ 21	6	817	818	

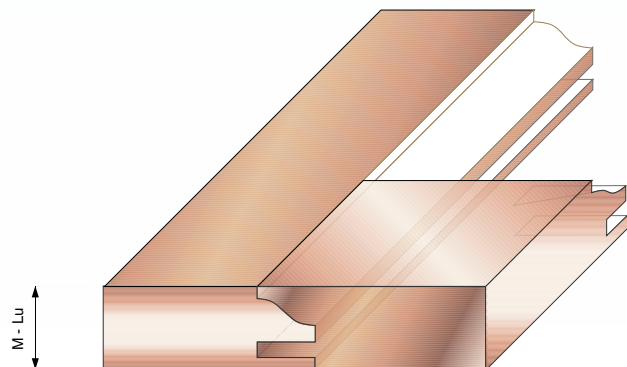
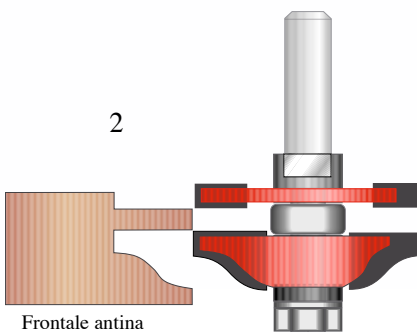
1

Frontale antina



2

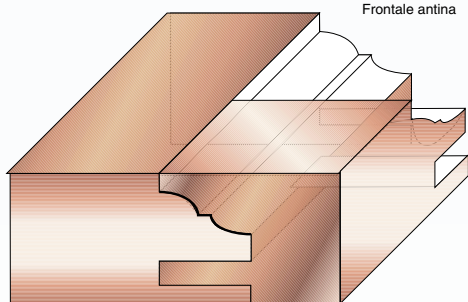
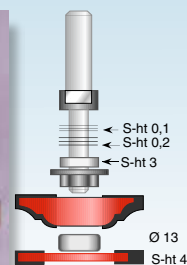
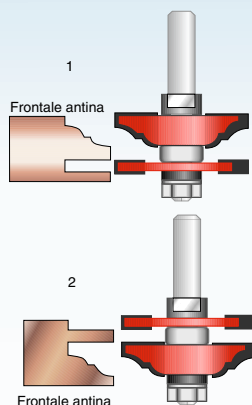
Frontale antina



Sez C - Frese componibili - Modular cutter

Set per fresare antine profilo complesso

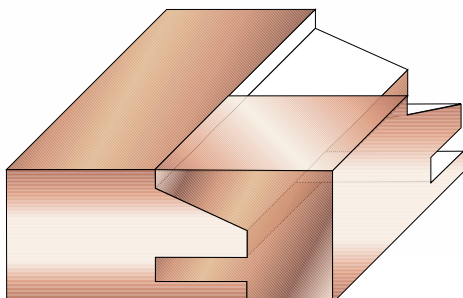
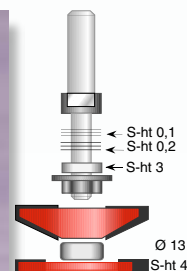
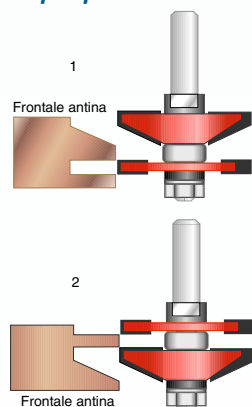
Set for furniture-doors with complex profile



Ø		M-Lu	Fø	Art.	Art.	
HW				Gø 8	G.ø 12	
40		17÷ 21	6	1929	1937	

Set per fresare antine profilo semplice

Set for furniture-doors with simple profile



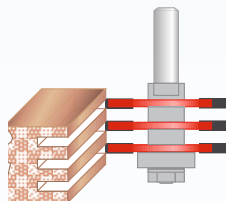
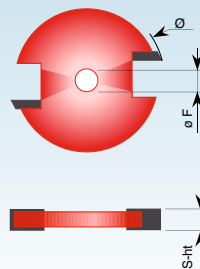
Ø		M-Lu	Fø	Art.	Art.	
HW				Gø 8	G.ø 12	
40		17÷ 21	6	1938	1939	

Fresa a disco

Le frese a disco possono essere montate in serie per fare scanalature multiple, inoltre si possono utilizzare accoppiate per fare scanalature con misure non previste a catalogo. (Vedi pag. 61)

Slotting cutter

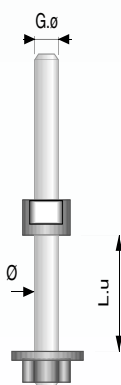
The slotting cutters can be assembled in series in order to produce multiple grooves, and besides can be combined for making also grooves with measures not shown in our catalogue. (Page 61)



	Ø	ht	Fø	Art.		
HW				Fø 6		
	40	1,5	6	752		
	40	1,8	6	753		
	40	2,0	6	754		
	40	2,2	6	755		
	40	2,4	6	756		
	40	2,8	6	757		
	40	3,0	6	758		
	40	3,5	6	3050		
	40	4,0	6	759		
	40	5,0	6	760		
	40	6,0	6	761		

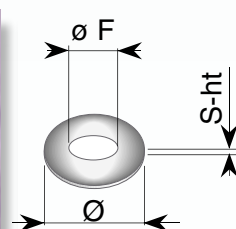
Alberi porta frese a disco

Arbors for slotting cutters



Distanziali per frese a disco

Distance pieces for slotting cutters



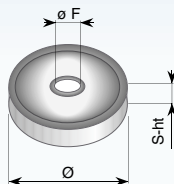
Ø	S-ht	Art.	Art.	Art.	
		G.ø6	G.ø 8	G.ø 12	
6	5	750	846		
6	20	751	848	799	

Ø	S-ht	F	Box Art		
			1998		
12	0,1	6	10		
12	0,2	6	10		
12	0,5	6	10		
12	3	6	5		
12	4	6	5		
12	5	6	5		

Sez C - Frese componibili - Modular cutter

Cuscinetti per frese a disco

Bearings for slotting cutters



	Ø	S-ht	F	Art.
	13	5	6	768
	19	5	6	769
	22	5	6	770
	28	5	6	771

Fresa per antine a profilo medio

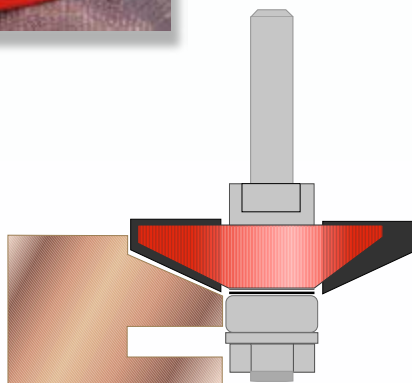
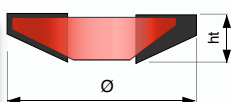
Slotting cutter for furniture-doors with middle profile



Ø	Z	ht	FØ	Art.		
HW				FØ 6		
40	2	10	6	816		

Fresa per antine a profilo semplice

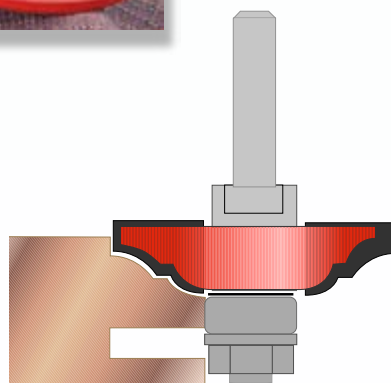
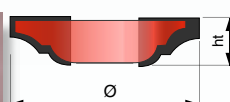
Slotting cutter for furniture-doors with simple profile



Ø	Z	ht	FØ	Art.		
HW				FØ 6		
40	2	10	6	1943		

Fresa per antine a profilo complesso

Slotting cutter for furniture-doors with complex profile



Ø	Z	ht	FØ	Art.		
HW				FØ 6		
40	2	10	6	1942		