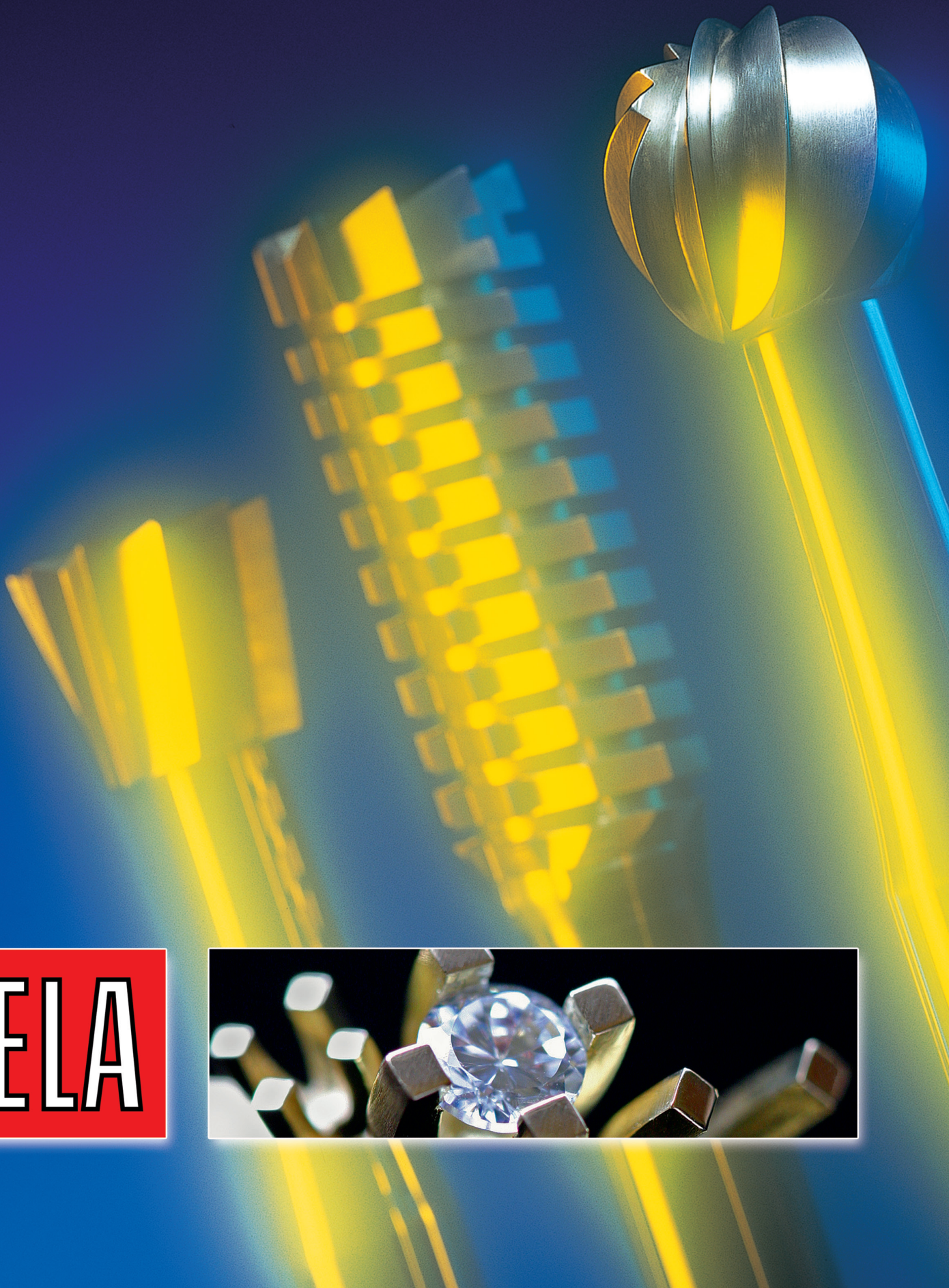


Special Tools for Jewellery



Hartmetall-Bohrer

Carbide burs · Fraises au carbure · Fresas de carburo



Hartmetall-Fräser

Carbide cutters · Fraises au carbure · Fresas de carburo



Spezial-Werkzeuge

Special tools · Outils spéciaux · Herramientas especiales



Diamant-Instrumente

Diamond instruments · Instruments diamantés · Instrumentos de diamantados



Bohrer, Fräser und Spezialwerkzeuge zum Bohren, Fräsen, Steinesetzen, Formen, Schnitzen, Gravieren auf Edelmetallen (wie Silber, Gold, Weißgold, Platin), unedlen Metallen Kupfer, Messing, Bronze), Leichtmetallen (Aluminium, Titan), Edelstahl sowie synthetischen Werkstoffen (Glas, Kunststoff, Keramik, Gips).

Burs, Cutters, Special tools for drilling, cutting, stone setting, forming, carving, engraving on precious metals (like silver, gold, white gold, platinum), base metals (copper, brass, bronze) light metals (aluminium, titanium), high-grade steel and also on synthetic materials (glass, plastic, ceramic, plaster)

Kopf -Durchmesser*Head diameters · Diamètre de tête · diámetro de cabeza*

ID-No.	ø mm	alte Nummer	ID-No.	ø mm	alte Nummer
... 004	0,40	-	... 026	2,60	-
... 005	0,50	4/0	... 027	2,70	10
... 006	0,60	3/0	... 028	2,80	-
... 007	0,70	2/0	... 029	2,9	11
... 008	0,80	0	... 030	3,0	-
... 009	0,90	1	... 031	3,1	12
... 010	1,00	2	... 033	3,3	13
... 011	1,10	-	... 035	3,5	14
... 012	1,20	3	... 037	3,7	15
... 013	1,30	-	... 040	4,0	16
... 014	1,40	4	... 042	4,2	17
... 015	1,50	-	... 045	4,5	18
... 016	1,60	5	... 047	4,7	19
... 017	1,70	-	... 050	5,0	20
... 018	1,80	6	... 055	5,5	21
... 019	1,90	-	... 060	6,00	22
... 020	2,00	-	... 070	7,00	24
... 021	2,10	7	... 080	8,00	26
... 022	2,20	-	... 100	10,0	30
... 023	2,30	8	... 120	12,0	34
... 024	2,40	-	... 140	14,0	38
... 025	2,50	9	... 160	16,	42

Schaftarten und Gesamtlängen

Types of shanks and total lengths
Types de tiges et longueurs totales
Tipos de vástagos y longitudes totales

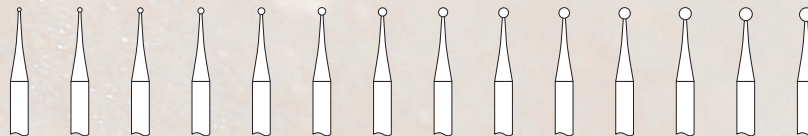
ID-No.	Bezeichnung	Länge mm	ø mm
 ... 104 ...	Handstück, normal Handpiece, normal length Pièce à main, longueur normale Pieza de mano, largo regular	44,00	2,35



Hartmetall-Bohrer

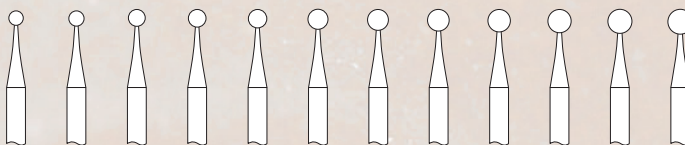
Carbide burs · Fraises au carbure · Fresas de carburo



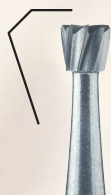
**C1**

	ID-No.	004	005	006	007	008	009	010	011	012	013	014	015	016	017
500 104 001 001 ...		004	005	006	007	008	009	010	011	012	013	014	015	016	017
	US-No.		1/4	1/2	-	1	-	2	-	3	-	4	-	5	-

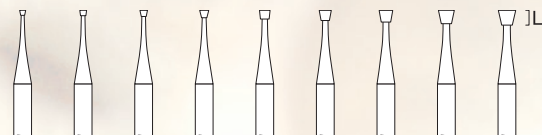
316 *max. 160.000 min⁻¹

316 *max. 160.000 min⁻¹**C1**

ID-No.	018	019	021	022	023	025	026	027	028	029	030	031
500 104 001 001 ...	018	019	021	022	023	025	026	027	028	029	030	031
US-No.	6	-	7	-	8	9	10	-	-	-	11	-

316 *max. 160.000 min⁻¹**C2**

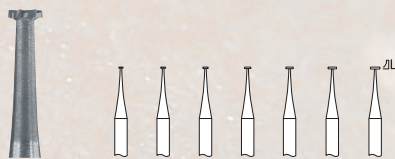
ID-No.	006	007	008	009	010	012	014	016	018	021	023
500 104 010 001 ...	006	007	008	009	010	012	014	016	018	021	023
US-No.	33 1/2	-	34	-	35	36	37	38	39	40	-
L mm	0,5	0,6	0,7	0,8	0,9	1,0	1,2	1,4	1,5	1,7	1,9

**C2 SK**

ID-No.	008	009	010	012	014	016	018	021	023
500 104 010 001 ...	008	009	010	012	014	016	018	021	023
L mm	0,7	0,8	0,9	1,0	1,2	1,4	1,5	1,7	1,9

Scharfkantig
sharp edged
taille en rainure
socavadoras con cantos

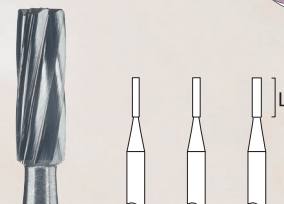


**C3**

ID-No.	009	010	012	014	016
500 104 040 001 ...	009	010	012	014	016
US-No.	14	-	-	-	16
L mm	0,22	0,25	0,27	0,30	0,33

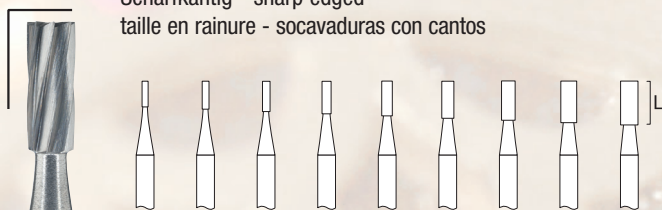
**C21**

ID-No.	008	009	010	012	014	016	018	021	023
500 104 107 006 ...	008	009	010	012	014	016	018	021	023
US-No.	56	-	57	58	59	60	61	62	63
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2	5,5	5,8

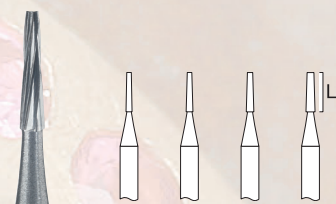
C21 L

ID-No.	009	010	012
500 104 110 006 ...	009	010	012
US-No.	-	57L	58L
L mm	5,2	5,2	5,2

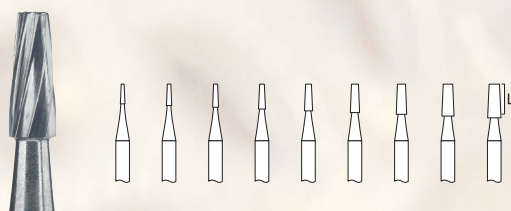
Scharfkantig - sharp edged
 taille en rainure - socavaduras con cantos

**C21SK**

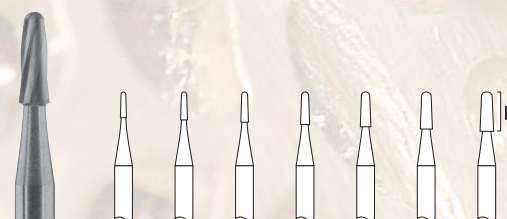
ID-No.	008	009	010	012	014	016	018	021	023
500 104 107 006 ...	008	009	010	012	014	016	018	021	023
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2	5,5	5,8

C23 L

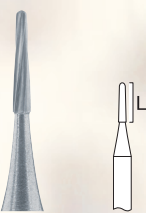
ID-No.	008	009	010	012
500 104 171 006 ...	008	009	010	012
US-No.	169L	-	170L	171L
L mm	5,2	5,2	5,2	5,2

**C23**

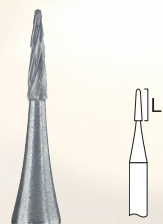
ID-No.	008	009	010	012	014	016	018
500 104 168 006 ...	008	009	010	012	014	016	018
US-No.	169	-	170	171	-	172	-
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2

**C23 R**

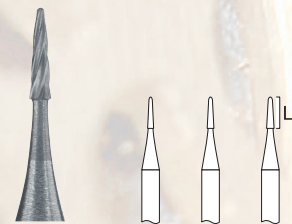
ID-No.	008	009	010	012	014	016	018
500 104 194 006 ...	008	009	010	012	014	016	018
US-No.	-	-	1170	1171	-	1172	-
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2

C23 RL

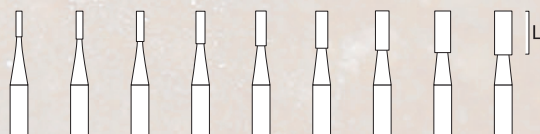
ID-No.	010
500 104 197 006 ...	010
L mm	5,2

C23 SRX

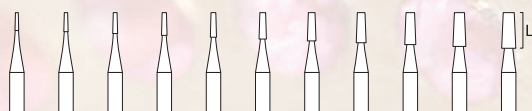
ID-No.	010
500 104 196 019 ...	010
L mm	4,2

C23 SR

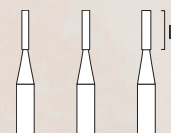
ID-No.	008	009	010
500 104 196 006 ...	008	009	010
L mm	4,2	4,2	4,2

**C31**

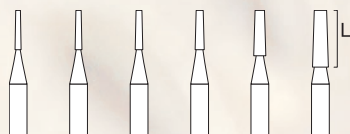
	ID-No.	008	009	010	012	014	016	018	021	023
500 104 107 007 ...	008	009	010	012	014	016	018	021	021	023
US-No.	556	-	557	558	559	560	561	562	563	
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2	5,5	5,8	

**C33**

	ID-No.	008	009	010	012	014	016	018	021	023
500 104 168 007 ...	008	009	010	012	014	016	018	021	021	023
US-No.	699	-	700	701	-	702	-	703	704	
L mm	3,4	3,7	4,0	4,3	4,6	4,9	5,2	5,5	5,8	

**C31 L**

	ID-No.	009	010	012
500 104 110 007 ...	009	010	012	
US-No.	-	557L	558L	
L mm	5,2	5,2	5,2	

**C33 L**

	ID-No.	008	009	010	012	016	021
500 104 170 007 ...	008	009	010	012	016	021	
US-No.	699L	-	700L	701L	702L	703L	
L mm	5,2	5,2	5,2	5,2	6,0	7,5	

**C33 R**

	ID-No.	008	009	010	012	014	016
500 104 194 007 ...	008	009	010	012	014	016	
L mm	3,4	3,7	4,0	4,3	4,6	4,9	



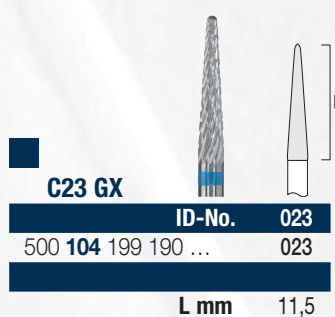
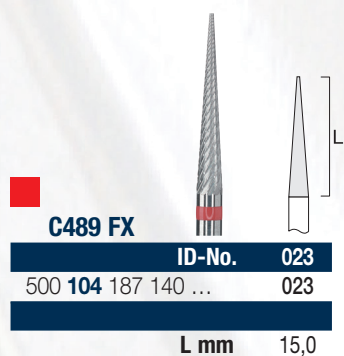
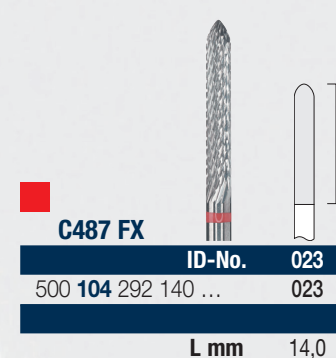
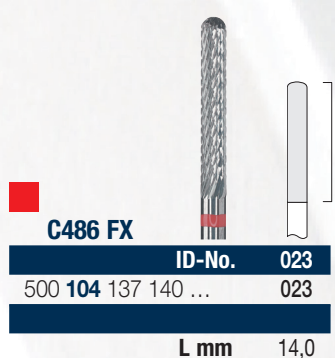
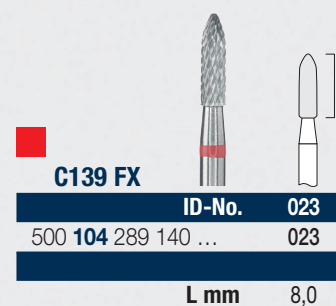
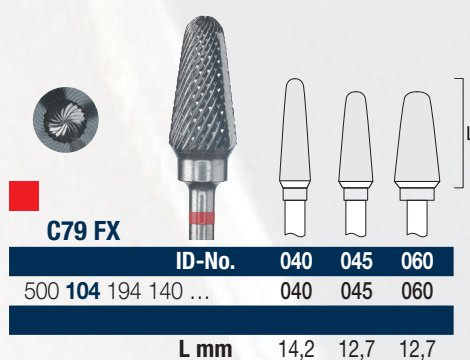
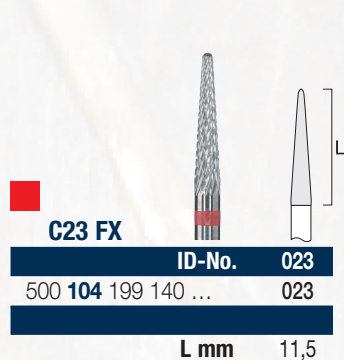
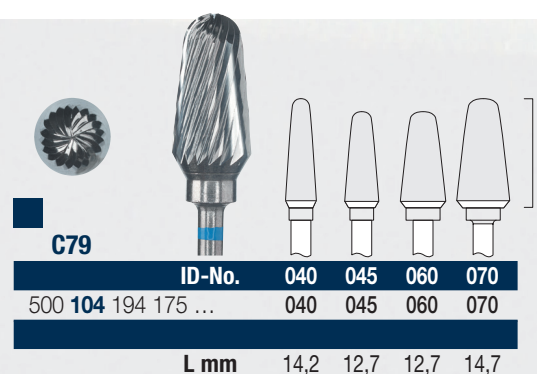
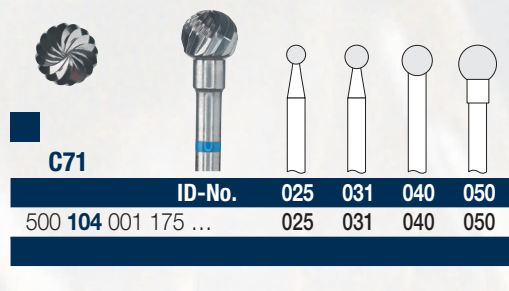
Hartmetall-Fräser

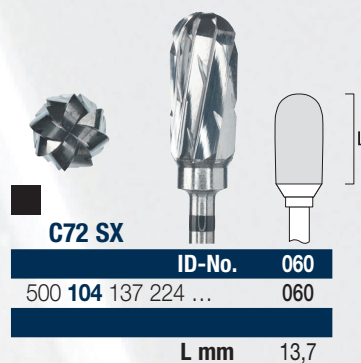
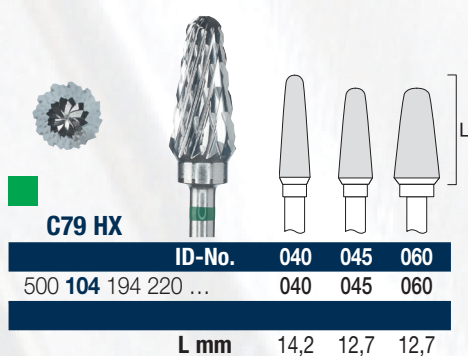
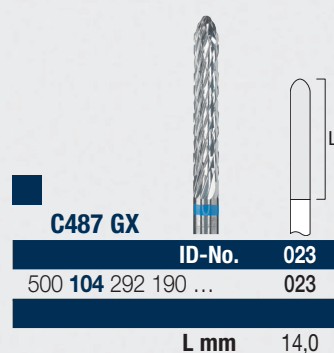
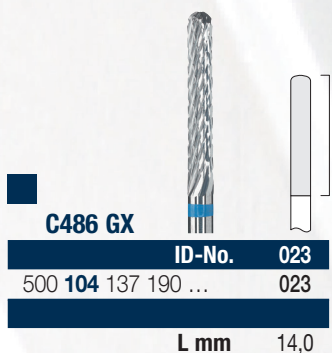
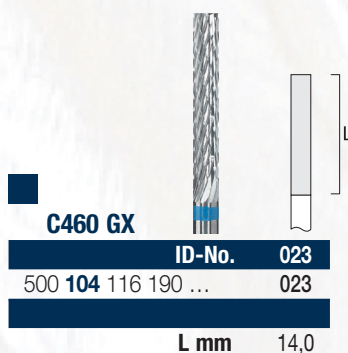
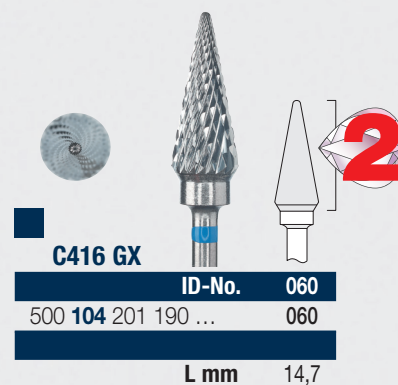
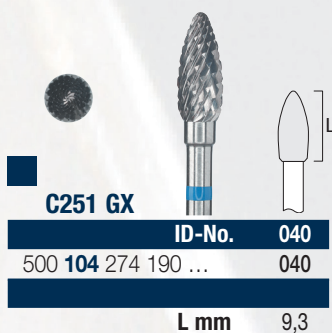
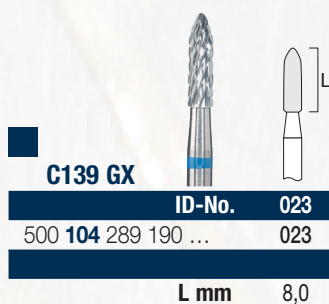
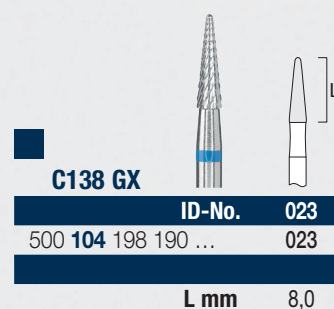
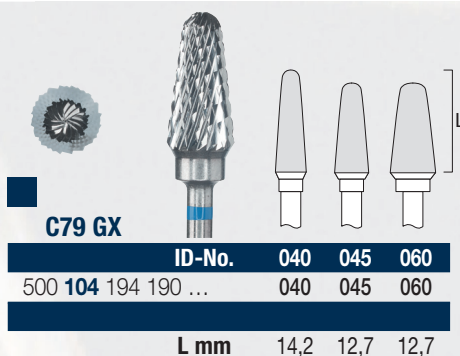
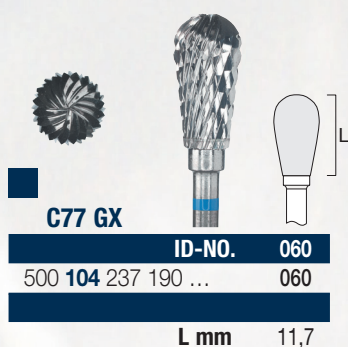
Carbide cutters · Fraises au carbure · Fresas de carburo

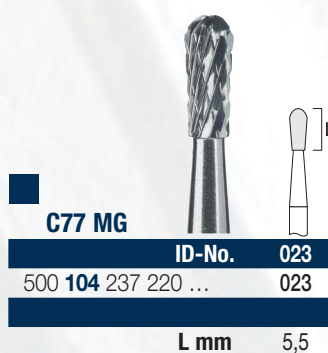
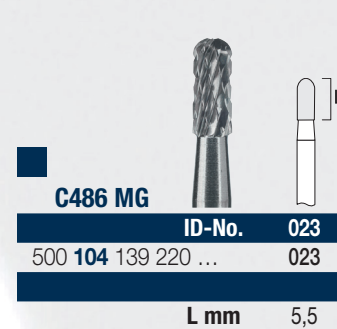
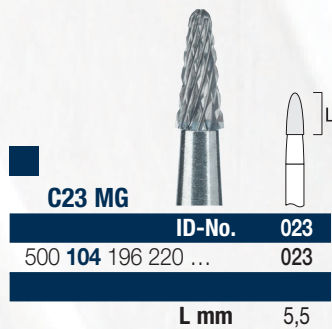
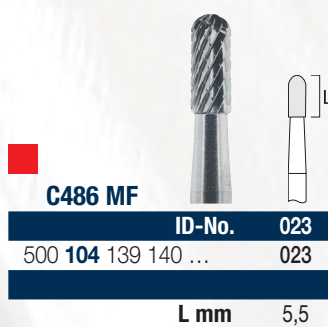
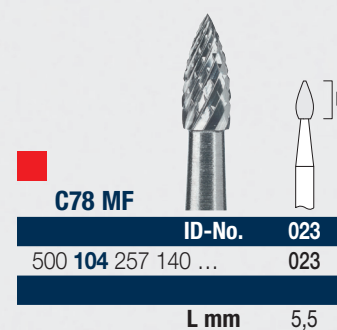
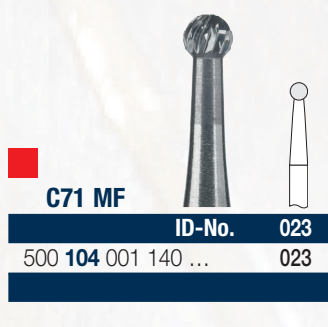
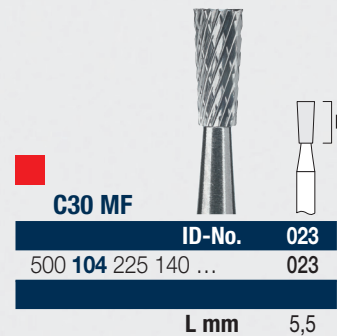
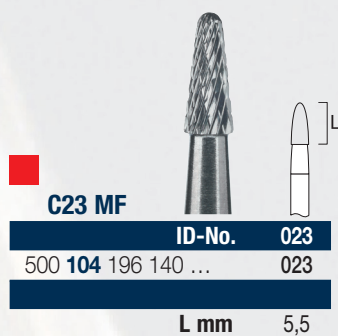


	Farbcodierung Colour code Code couleurs Código colores	Verzahnung Toothing Denture Dentado	Fig. Fig. Fig. Fig.	ID - No. ID - No. ID - No. ID - No.	
	blauer Ring blue ring anneau bleu anillo azul	Standardverzahnt Plain cut, medium Denture simple Dentado simple, medio		175	
	grüner Ring green ring anneau vert anillo verde	Grobverzahnt Plain cut, coarse Denture simple, grosse Dentado simple, grueso	... G	215	
	gelber Ring yellow ring anneau jaune anillo amarillo	Kreuzverzahnt extra fein x-cut, extra fine Denture croisée, extra fine Dentado cruzado, extra fino	... EX	141	
	roter Ring red ring anneau rouge anillo rojo	Kreuzverzahnt fein x-cut, fine Denture croisée, fine Dentado cruzado, fino	... FX	140	
	blauer Ring blue ring bague bleu anillo azul	Kreuzverzahnt standard x-cut, medium Denture croisée, moyenne Dentado cruzado, medio	... GX	190	
	grüner Ring green ring anneau vert anillo verde	Kreuzverzahnt grob x-cut, coarse Denture croisée, grosse Dentado cruzado, grueso	... HX	220	
	schwarzer Ring black ring anneau noir anillo negro	Kreuzverzahnt super grob x-cut, super coarse Denture croisée, très grosse Dentado cruzado, super grueso	... SX	224	
	roter Ring red ring anneau rouge anillo rojo	Querhiebverzahnt fein Cross cut, fine Denture surtaillée, fine Dentado transversal, fino	... FQ	134	
	roter Ring red ring anneau rouge anillo rojo	Minis wie FX Minis like FX Minis comme FX Minis como FX	... MF	140	
	blauer Ring blue ring anneau bleu anillo azul	Minis wie GX Minis like GX Minis comme GX Minis como GX	... MG	220	







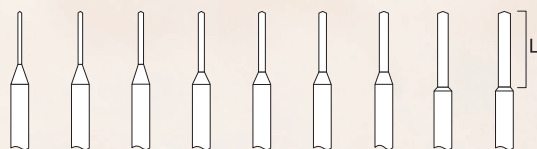


Spezial-Werkzeuge

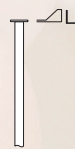


Special tools · Outils spéciaux · Herramientas especiales



ELA**Spezial-Werkzeuge***Special tools · Outils spéciaux · Herramientas especiales***Carbide Twist Drill****C 203**

ID-No.	005	006	007	008	009	010	012	014	016
500 104 417 364 ...	005	006	007	008	009	010	012	014	016
L mm	8	8	8	8	8	8	8	10	10

C 231

ID-No.	023
500 104 045 171...	023
L mm	0,2

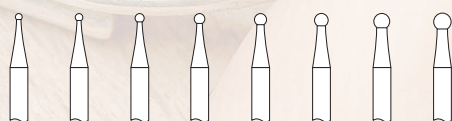
C 219

ID-No.	012
500 104 467 211 ...	012
L mm	4,2

303 RF

ID-No.	050
330 104 603 391 ...	050

Rostfrei
Stainless
Inoxydable
Inoxidable

3**ELA****Diamant-Instrumente***Diamond instruments · Instruments diamantés · Instrumentos de diamantados***801**

ID-No.	009	010	012	014	016	018	021	023
806 104 001 524 ...	010	012	014	016	018	021	021	023

4



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www.emil-lange.de • eMail: info@emil-lange.de

Anastasia Young

Handbuch Schmuck

Die Techniken der Schmuckgestaltung

Gravur / treiben und punzieren / anschmelzen / nieten / Email / bohren / sägen / schneiden / teilen
ausglühen / Metall biegen / loten / beizen / Draht / Edelsteine fassen / polieren / prägen / auf tiefe
Wachs schnitzen und modellieren / Metallguss / Gießharz / Edelmetall-Ton / Acrylglas biegen / Natur-
materialien schnitzen / ziselieren / Perlen aufziehen / Ketten / Scharniere / Furnituren / Verschlüsse
ätzen / Lederbearbeitung / hämmern und prägen / retikulieren / granulieren / patinieren / eloxieren
Blattgold und Metallpulver / laminieren / Einlegearbeiten / Mokume-Gane / Kastenfassungen / Zargen-
fassungen / Krappenfassungen / eingeriebene Fassungen / Pavé- und Körnerfassungen / Fantasiefas-
sungen / Edelsteine / Auftragsarbeiten / Inspiration / Design / Schmuck fotografieren / verkaufen und
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