

Rotating instruments



Optimal in all disciplines

bredent

Safety information

Bredent rotating instruments are manufactured with the utmost care and only delivered after they have been tested for function and concentricity. These instruments meet the highest requirements for dental use.

For your own safety, we recommend wearing protective clothing, protective goggles and a mask, as well as using an extraction system. The regulations of the local professional association must always be followed.

In addition, people with long hair must always wear a hair net to prevent their hair from getting caught inadvertently. There is a high risk of injury at the speeds used!

The indicated speed (packaging/catalogue) and a max. contact pressure of $< 2\text{N}$ must always be adhered to when using rotating instruments to ensure that the instruments have a long life span. Non-compliance will cause the cutting edges to break prematurely and therefore to a loss of quality.

Range of applications

Icons are available for quick and simple tool selection. The user decides independently on the application of the tool.



Crown/bridge technique



Veneer materials



Plastic technique



Creating a model



Precision engineering



Model casting technique




BioHPP material



CAD/CAM technology

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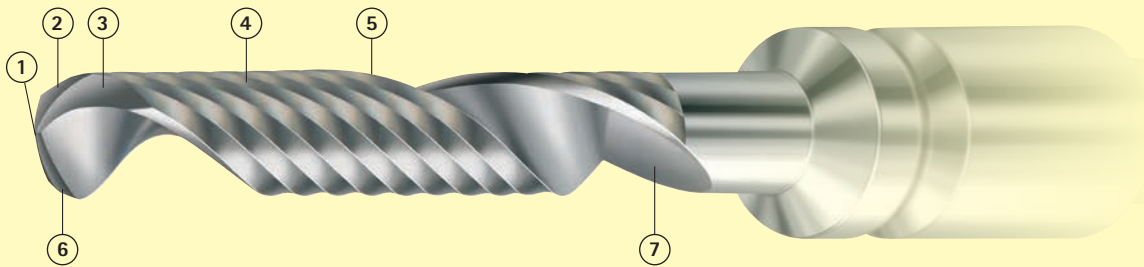
CAM – digitally produced



Modern materials, modern tools

bredent

Innovative cutting geometry for CAD/CAM processing



- ① 1. Radial relief angle divided into thirds to reduce heat when feeding into the milling process
- ② 2. Relief angle divided into thirds to reduce heat when starting the milling process. Machined clearance shape in the half radius.
- ③ 3. Side clearance that starts at the pull to optimise chip removal along the z-axis (immersion in the material)
- ④ 4. Multiple rear reliefs to reduce heat generation
- ⑤ 5. Tapered, sharp cutting edge cutting for precise heat-reduced cutting
- ⑥ 6. Radial geometry shaping area, on one side to define the radius of the milling result
- ⑦ 7. Single-edged pull with tapered cutting angle for quick and coarse chip removal

Innovative cutting geometry enables the dry processing of PMMA, PEEK and other thermoplastic materials in CNC milling machines.

Due to the low heat generation of the bre.CAM cutter during the milling process, easily fusing materials can be machined without the need for water cooling. Warping of delicate structures is avoided. Even at a high feed rate, the bre.CAM cutter generates a smooth surface on the workpiece thanks to its patented cutting of multiple rear reliefs. This saves time during the milling process and further processing.

Tool

The bre.CAM.cutter has been specially developed for dry machining of thermoplastic materials (PMMA / PEEK / Wax) in CNC milling machines.

Wet machining
PMMA/Composite



Dry machining
Thermoplastic/cutter

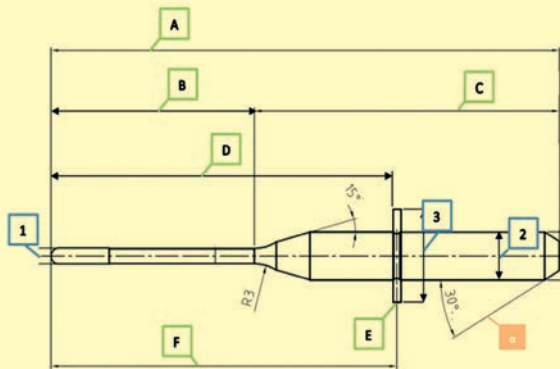


Thanks to a special cutting geometry, it is also possible to take thermoplastic materials, which have properties which allow them to spread quickly and clog up the tool, and mill them without water cooling.

breCAM.cutter

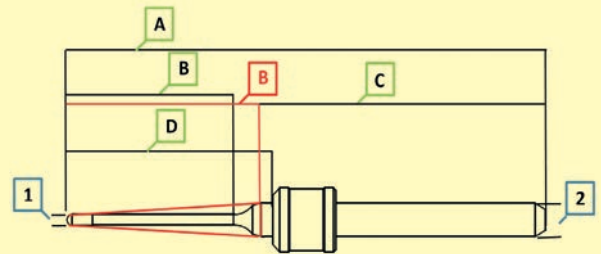
Tool

The stated measurements relate to DIN ISO 2768-1 (1991-06), tolerance class f (fine) for length and angle measurements ± 0.1



	1	2	3	A	B	C	D	E
--	---	---	---	---	---	---	---	---

imes.icore	breCAMX47	1	3	X	38,2	17	21	26,7	X
	zenotec	breCAMX48	2	3	X	38,2	20	18	26,7

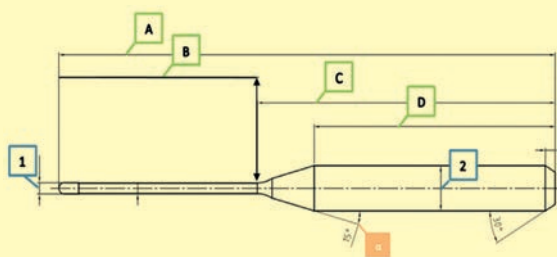


	1	2	A	B	B	C	D
--	---	---	---	---	---	---	---

Amann Girrbach	breCAMY28	0,6	3	47	X	18,3	X	20,2
	breCAMY32	1	3	47	16,4	X	28	20,2
	breCAMY31	2,5	3	47	17,9	X	28	20,2

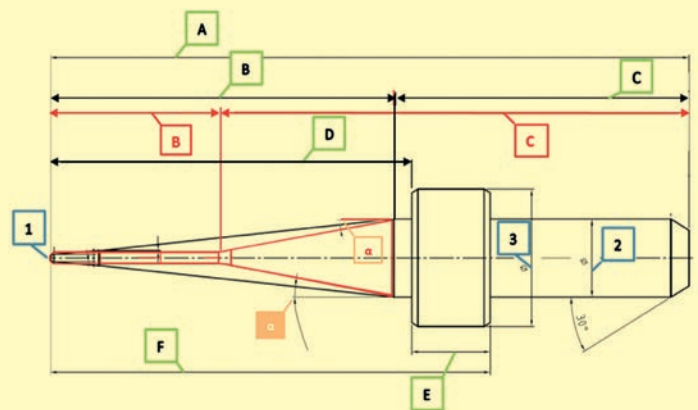
	1	2	3	A	B	C	D	E
--	---	---	---	---	---	---	---	---

vhf	breCAMX67	1	3	X	35	17	18	23,5	X
	breCAMX69	2	3	X	35	20	15	23,5	X



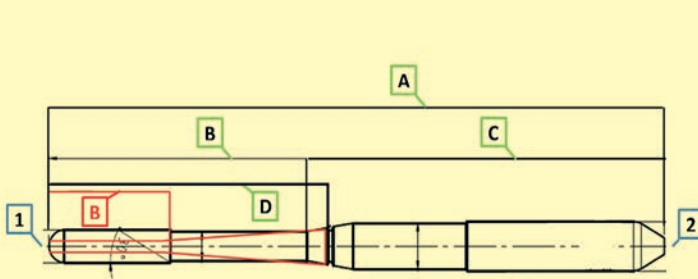
	1	2	A	B	C	D
--	---	---	---	---	---	---

ROLAND	breCAMX53	1	4	50	17	33	30,6
	breCAMX54	2	4	50	20	30	27,7

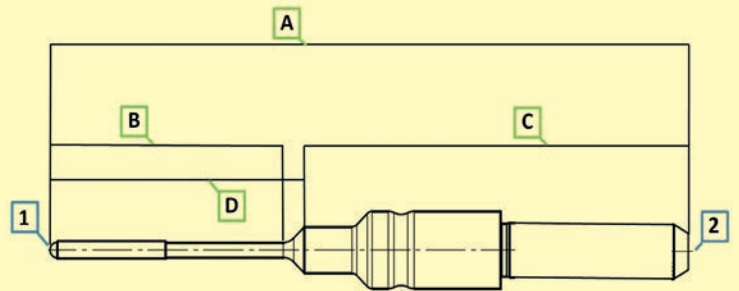


	1	2	3	A	B	B	C	C	D	E
--	---	---	---	---	---	---	---	---	---	---

coritec	breCAMY55	0,6	6	10,5	45	20,5	8,5	36,5	24,5	21,5	6,5
	breCAMY57	1	6	10,5	45		12	33	24,5	21,5	6,5
	breCAMY34	2,5	6	10,5	45	20,5	12	33	24,5	21,5	6,5










		1	2	A	B	B	C	D
Zirkon- zahn	breCAMY53	0,6	3	57	X	5.9	X	18.5
	breCAMY05	1	3	57	X	8.5	X	18.5
	breCAMY07	2	3	57	18,8	X	38,5	18,5



		1	2	A	B	C	D
Cercon	breCAMY22	1	3,5	50	20	28,5	21,5
	breCAMY24	2	3,5	50	20	28,5	21,5
	breCAMY26	3	3,5	50	20	28,5	21,5

Templates

The recommended milling templates are developed further on a continuous basis.

		wax	resin/color	resin/transpa	multiCOM	HIPC	BioHPP
 Feed (mm/sec)	∅ 2 mm	20	15	15	15	15	15
	≤ ∅ 1 mm	19	22	22	22	22	22
 Lateral feed (mm/sec)	≥ ∅ 2 mm	11	7	7	7	7	7
	≤ ∅ 1 mm	11	11	11	11	11	8
 Rotational speed (RMP)	≥ ∅ 2 mm	16.000	19.000	13.000	19.000	19.000	18.000
	≤ ∅ 1 mm	25.000	22.000	22.000	25.000	25.000	20.000
 Delivery Z (mm)	≥ ∅ 2 mm	0,5	0,5	0,5	0,5	0,5	0,40
 Offset (mm)	≥ ∅ 2 mm	0,05	0,05	0,05	0,05	0,05	0,05
	≤ ∅ 1 mm	0	0	0	0	0,5	0
 Path intersection (%)	≥ ∅ 2 mm	50 %	50 %	50 %	50 %	50 %	50 %
 Path distance (mm)	≥ ∅ 1 mm	0,075	0,05	0,05	0,05	0,05	0,05

Good to know: coating is not the same as coating

Growing challenges for cutting are setting increasingly higher requirements for the tool. The enduring trend in cutting technology is constantly faster and more precise, with a longer service life.

"Simultaneous five-axis processing" is the key word; in this form of processing, the tool must be made in a single working step with various cutting angles, cutting speeds and cut depths. In short: the demands made of the tool blade are increasing rapidly.

The diamond-like carbon DLC coating, which is widely used across the dental market, is a black carbon coating, which can not be compared qualitatively with a real diamond coating.

For example, a pure DLC coating increases the service life by a factor of around 0.3 or 30% compared to non-coated tools.

We apply a real diamond coating, such as that on the breCAM.cutter Z_R, using CVD ("Chemical Vapour Deposition"). This extra strong, real diamond coating quadruples the tool's service life compared to non-coated tools.

Product characteristics:

- high degree of hardness at 10,000 HV0.05
- high level of thermoconductivity
- good slip properties
- high dimensional accuracy and process capability
- extremely abrasion-resistant
- extra-thick diamond coating

Benefit:

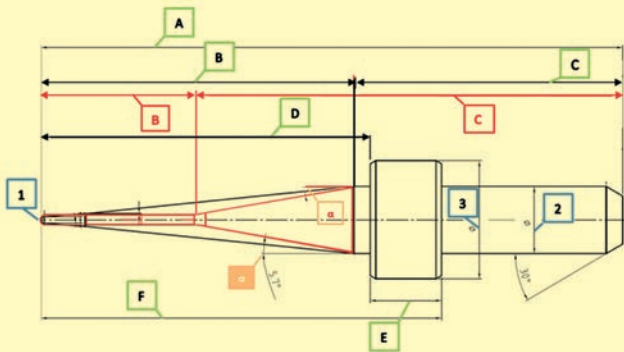
The product-related properties lead to an extraordinarily high tool service life and uniform milling results. Due to the long service life, customers make a significant saving compared to the usual non-coated DLC coatings. The set-up times and storage provisions for tools reduce drastically.



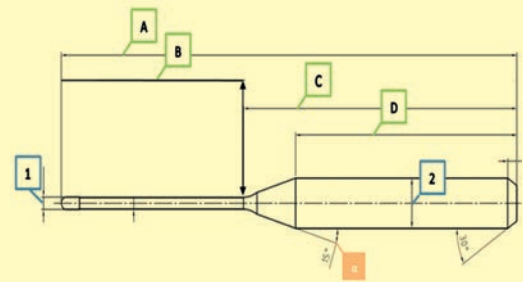
"breCAMcutter Z_R for processing zirconium oxide"

Tool

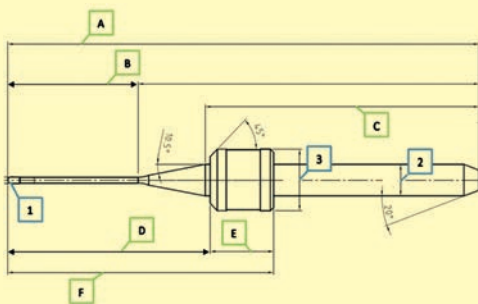
d1	d2	l1	l2	cone (φ)	
	[mm]			[mm]	[mm]



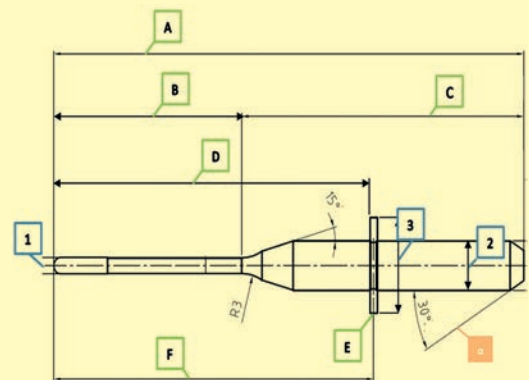
imes.icore	1	2	3	A	B	C	D	E	F	
IMI3006X	0,6	3	7,5	48	21,6	26,4	26,4	4,55	31	3,2
IMI3010D	1	3	7,5	48	14	34	26,4	4,55	31	
IMI3025D	2,5	3	7,5	48	20	28	26,4	4,55	31	R3
IMI6006X	0,6	6	10,5	53	28,5	24,5	30	6,5	36,6	5,7
IMI6010D	1	6	10,5	53	14	39	30	6,5	36,5	10
IMI6025D	2,5	6	10,5	53	20	23	30	6,5	36,5	13



Roland	1	2	3	A	B	C	D	E	F	
ROL4003X	0,3	4	X	50	4	46	38,9	X	X	15 R3
ROL4006X	0,6	4	X	50	10,5	39,5	33,5	X	X	15 R3
ROL4010D	1	4	X	50	20	30	24,3	X	X	15 R3
ROL4020D	2	4	X	50	20	30	26,1	X	X	15 R3



Amann Girrbach	1	2	3	A	B	C	D	E	F	
AMG3006D	0,6	3	5,8	47	13	27,3	20,2	6,3	26,5	R3
AMG3010D	1	3	5,8	47	16	28,5	20,2	6,3	26,5	R3
AMG3025D	2,5	3	5,8	47	18	27,5	20,2	6,3	26,5	18 R3



vhf	1	2	3	A	B	C	D	E	F	
VHF3506X	0,6	3	4,0	35	3,2	31,8	23,6	0,4	23,8	15
VHF3510X	1	3	4,0	35	14	21	23,6	0,4	23,8	15
VHF3520X	2	3	4,0	35	20	15	23,6	0,4	23,8	15

vhf	1	2	3	A	B	C	D	E	F	
VHF3006X	0,6	3	4,0	40	3,2	36,8	26,5	0,4	26,7	15
VHF3010D	1	3	4,0	40	16	24	26,5	0,3	26,7	R3
VHF3020D	2	3	4,0	40	16	24	26,5	0,4	26,7	R3

marked fields are not diamond-coated cutters

Separating



Quick, gentle, comfortable

bredent

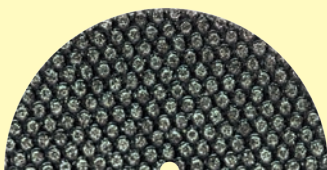
Separating

Flexible abrasive discs

DIA-FLEX



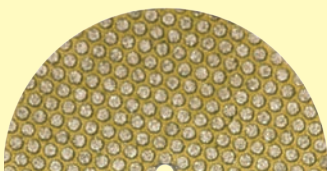
Dia-Flex – the diamond-coated abrasive discs in grit sizes of 120 µm and 40 µm cover a wide application range. Ceramic and zirconia frameworks can be contoured and CoCr alloys can be smoothed quickly and easily.



Dia-Flex diamond disc, 120 µm

Qty.

2	REF	340 0066 1	With mandrel
10	REF	340 0066 2	
Ø mm		20	



Dia-Flex diamond disc, 40 µm

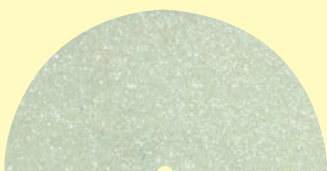
Qty.

2	REF	340 0066 3	With mandrel
10	REF	340 0066 4	
Ø mm		20	

UNI-FLEX



Uni-Flex – The fine grit sizes of 150 and 180 µm corundum are perfectly suitable for resins and produce smooth metal/resin transitions. No undesired transitions in cases of different material hardnesses.



Uni-Flex corundum disc, 180 µm

Qty.

25	REF	340 0066 5	1 screwable mandrel
50	REF	340 0066 6	
100	REF	340 0066 7	
Ø mm		20	



Uni-Flex corundum disc, 150 µm

Qty.

25	REF	340 0066 8	1 screwable mandrel
50	REF	340 0066 9	
100	REF	340 0067 0	
Ø mm		20	



Screwable mandrel

Qty.

10	REF	340 0066 0	
Ø mm		2,35	

Sintered diamond discs

Diabolo

Diabolo – The superior class of diamond grinding tools. For fast and efficient processing of extremely hard dental materials.

Carefully selected natural diamonds are entirely integrated into a mixture of metal and binding material designed for the individual application.

- sharp to the end!



Disk

Ø 15 x 0.2 mm		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
Qty.					
1	REF				SF 327 001
	ISO 807 104 ...				327513 001

Supra Disk

Ø 20 x 0.2 mm		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
Qty.					
1	REF			SN 327 002	SF 327 002
	ISO 807 104 ...			327523 002	327513 002

Duo Disk

Ø 20 x 0.5 mm		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
Qty.					
1	REF			SN 327 005	
	ISO 807 104 ...			327523 005	

Supra Disk

Ø 30 x 0.3 mm		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
Qty.					
1	REF			SN 327 003	
	ISO 807 104 ...			327523 003	

See page 52 for further information!

Separating

Galvanic coated diamond washers

The right diamond washer for every application!

Specially designed for gypsum, the partial diamond coating ensures shatter-proof and anchor-free work.

"Transparent" diamond washers enable the safe separation of facings. The different diamond coatings provide a smooth material surface and reduce reworking.

Giflex-TR

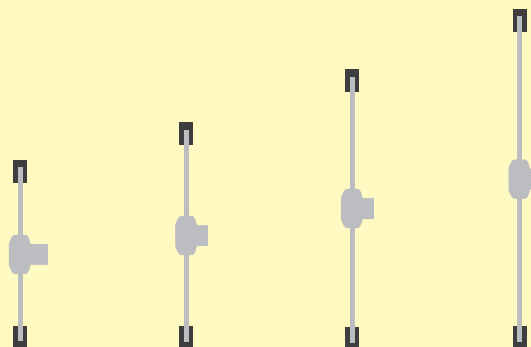


Thickness: 0.30 mm
Coating: on both sides
Version: mounted

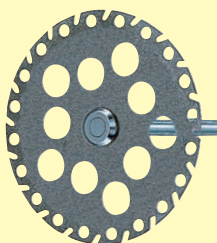


Qty.

1	REF	340 0002 5	340 0012 0	340 0002 0	340 0011 0
	Ø mm	25	30	37	45



Giflex-TR Master x-tray



Thickness: 0.40 mm
Coating: on both sides
Version: mounted

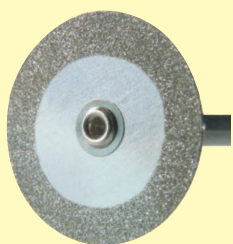


Qty.

1	REF	340 00M2 5			
	Ø mm	25			



Diamond mini



Thickness: 0.23 mm
Coating: on both sides
Version: mounted



Qty.

1	REF	340 0014 3	340 0014 4	340 0014 5	340 0014 6
	Ø mm	8	10	12	14



Galvanic coated diamond washers

Ceraflex

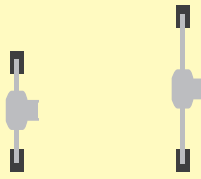


Thickness: 0.25 mm
Coating: on both sides
Version: mounted

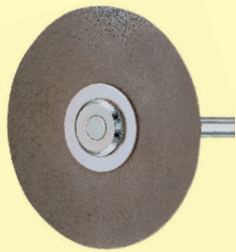


Qty.

1	REF	340 0013 0	340 0003 0		
	Ø mm	16	22		



Microflex

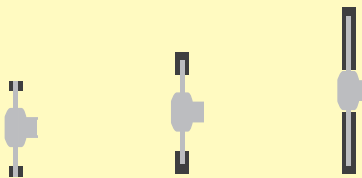


Thickness: 0.08 mm
Coating: on both sides
Version: mounted

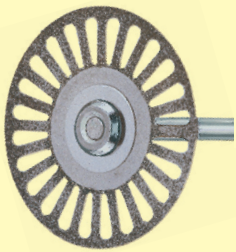


Qty.

1	REF	340 0014 2	340 0014 1	340 0014 0	
	Ø mm	12	16	22	



Transflex-T



Thickness:
Coating:
Version:

0.20 mm
on one side
outer coating

0.20 mm
on one side
inner coating

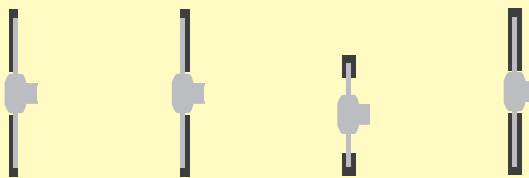
0.25 mm
on both sides
mounted

0.25 mm
on both sides
mounted

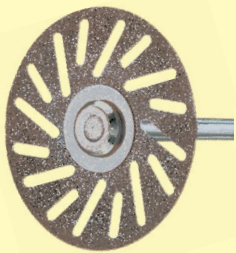


Qty.

1	REF	340 0008 0	340 0009 0	340 0010 0	340 0007 0
	Ø mm	22	22	16	22



Transflex



Thickness:
Coating:
Version:

0.20 mm
on one side
outer coating

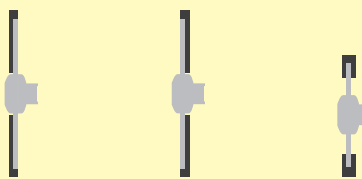
0.20 mm
on one side
inner coating

0.25 mm
on both sides
mounted



Qty.

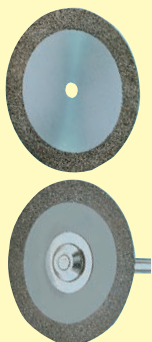
1	REF	340 0005 0	340 0006 0	340 0004 0	
	Ø mm	22	22	22	



Separating

Galvanic coated diamond washers

Ultraflex



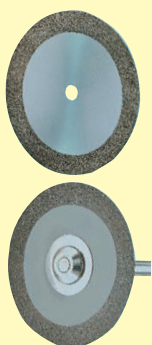
Thickness: 0.15 mm
Coating: on both sides
Version: non-mounted



Qty.

1	REF	340 0027 8	340 0050 0	340 0062 0	
	Ø mm	22	19	22	

Superflex



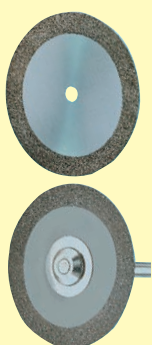
Thickness: 0.20 mm
Coating: on both sides
Version: non-mounted



Qty.

1	REF	340 0028 0	340 0051 0	340 0063 0	
	Ø mm	19	19	22	

Flexibel



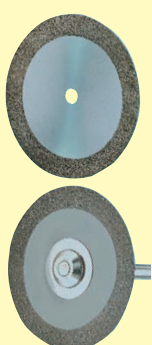
Thickness: 0.23 mm
Coating: on both sides
Version: non-mounted



Qty.

1	REF	340 0030 0	340 0031 0	340 0052 0	340 0064 0
	Ø mm	19	22	19	22

Elastisch



Thickness: 0.25 mm
Coating: on both sides
Version: non-mounted



Qty.

1	REF	340 0032 0	340 0033 0	340 0053 0	340 0065 0
	Ø mm	19	22	19	22

Milling



The highest level of quality for high stress
Carbide tools

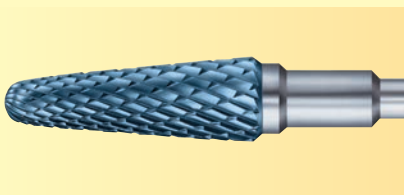
breident

The performance-optimized surface finish

Burs with surface finishes have different properties. The first Diatit-coated bur on the dental market, for example, boasts a higher degree of hardness (3700 HV) and therefore has a longer life span. As a result, breaking of the edges is rare and

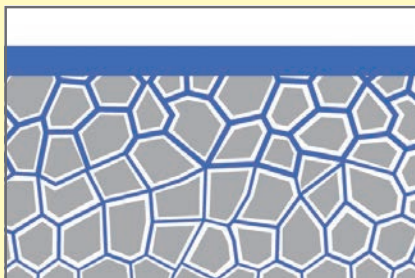
grinding performance is increased. Optimal concentricity of the tool is achieved by the hardening process.

Diatit wear protection – Smooth running from the very beginning



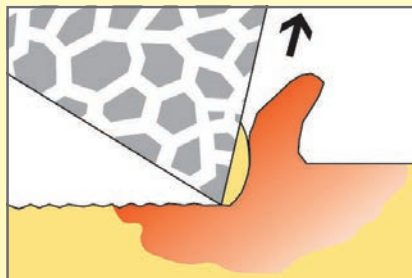
Diatit tools feature particular wear protection: Diatit. This is a special material that is added into the surface of the bur after it has been produced. It hardens the tool surface and reduces the surface friction. This comprehensive hardening process results in a tool which features vibration-free rotation and precise

cutting performance from the very beginning – and this is provided over a considerably extended period. Accurate removal of material is therefore ensured. Additionally, the service life of the tool (compared to uncoated tungsten carbide burs) is increased considerably by the hardening process.



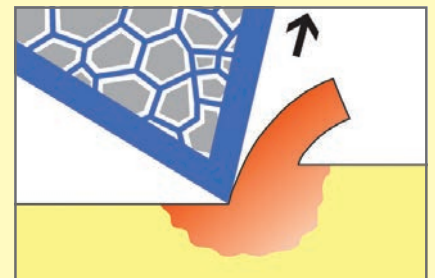
Carbide structure

bredent carbide tools consist of a metal sintering material with a very fine grain. Additionally, Diatit tools are subject to a hardening process after the serration has been completed. This hardening process reaches into the gaps between the crystals to a depth of up to 100 µm.



bredent tool without Diatit wear protection.

Compared to uncoated bredent carbide tools, breaking of the cutting edges of Diatit tools is prevented due to the wear protection. Compared to uncoated bredent carbide burs, the hardness increases to 3700 HV (compared to 1850 HV) and results in an increased service life of the tool.



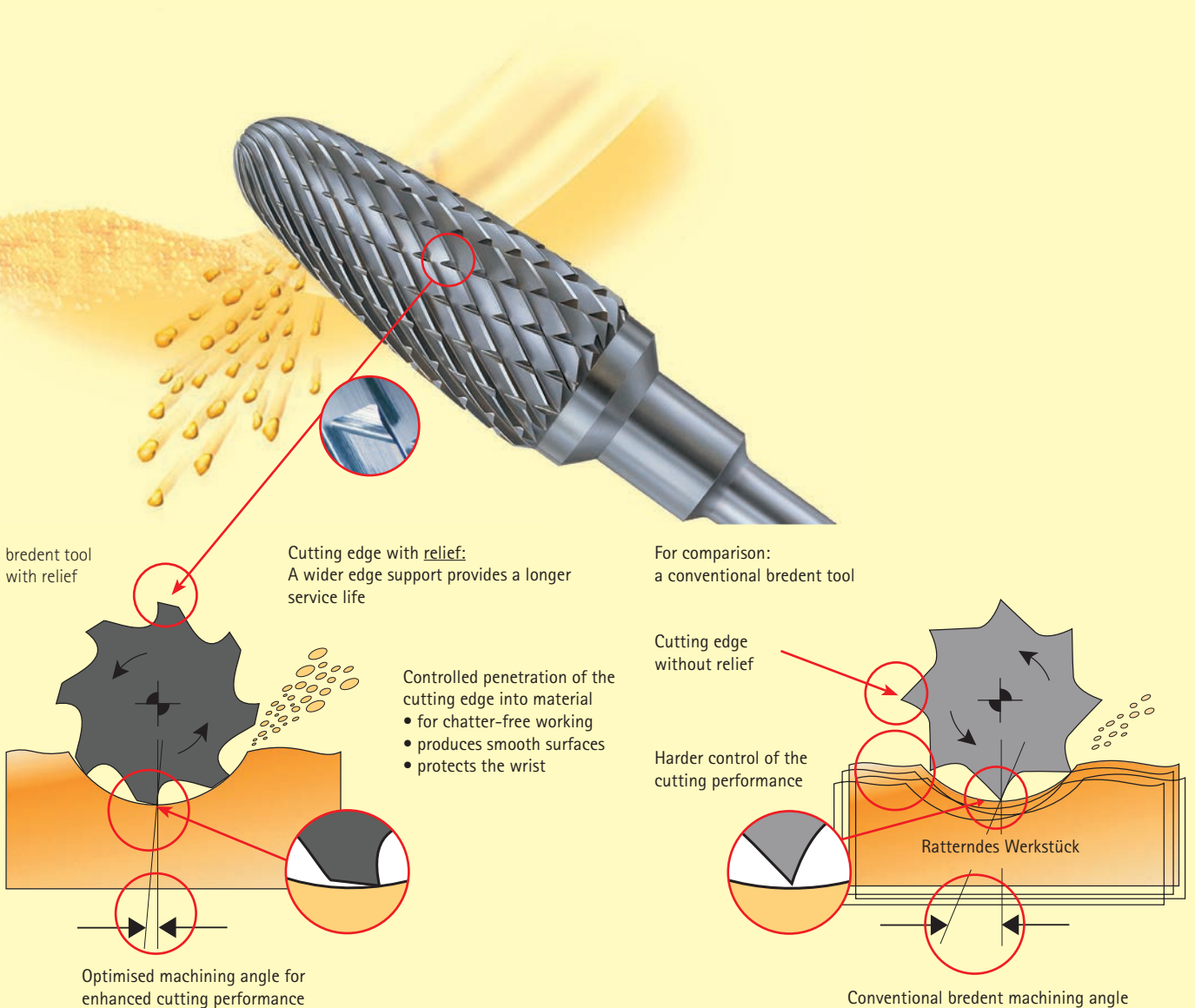
bredent tool with Diatit wear protection.

The surface of the tool is smoothed so that the friction is reduced. The swarf comes off the tools more easily. This results in smoother running of the tool.

The perfected edge cutting support

During surface processing with a conventional tool, additional breakages occur once the edge is broken initially, until the bur can no longer be used. The unique relief serration supports and stabilises the cutting edges. Breaking of the edges is almost impossible as a result.

Simultaneous surface polishing by the relief serration shortens additional processing stages and offers greater efficiency.



Further development of relief serration technology for high-performance polymers (BioHPP) enables optimised surface processing.

Generation M M8 serrated burs with user-specific shapes have been specially developed for this.

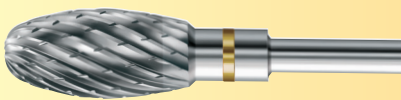
Milling

A wide range for a high degree of flexibility

Users can choose from over 100 burs for the hand piece and over 80 burs for the milling technique using 2.35 and 3.0 mm shaft diameters for every area of processing. The various shapes and serrations are manufactured according to the uses

and divergent surface qualities. A suitably high degree of flexibility is guaranteed thanks to the large range of burs.

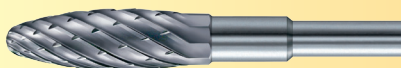
Generation M – the progressive bur concept



The „Generation M“ burs increased service life due to the significant clearance angle of the relief serration and consequently reduce further purchase. Due to the broad support of the edges, breaks are prevented and a high level

of cutting performance is possible. The workpiece that is to be processed therefore retains a smooth surface and reduces the need for subsequent complex polishing work.

Relief burs



Supported cutting increases the bur's service life and therefore provides a longer life span. Simultaneously improved surface quality on the workpiece as a result of the relief serration provides a reduction in polishing and

therefore facilitates time-saving methods. Very quiet running of the bur permits vibration-free working and therefore protects the dental technician's wrist and subsequently the handpiece.

Diatit burs



The special coating in the work area increases the hardness of the carbide to 3700 HV. Due to the diffusion of the coating, the finish is not only achieved on the surface, it also penetrates. As

a result, the stability of the carbide is significantly improved and the service life for cost-effective application is increased.

Diatit titanium burs



The diatit titanium burs have a special cross cut, which enlarges the chip space and therefore reduces friction when titanium processing. Overheating of the titanium is thereby avoided.

These tried-and-tested tools achieve rational and careful removal of material and a simultaneously smooth surface.

Diatit Power burs



The ease of processing of cobalt-chrome alloys is improved using the Diatit Power bur, thanks to its specially-designed serration. The

metal chips produced during this processing cause fewer skin irritations as they are larger and possess a coarse structure.

Diatit-Multidrill



Accurate drill holes are created using the triple-edged multidrill. Thanks to the coating, the dimension of the drill size remains well retained meaning

an excellent fit is achieved. Twelve different sizes provide a wide area of application.

Microbur



The special shape of the tip of the smallest fissure tool in the world, with a diameter of only 0.2 mm for the processing of aesthetically-designed

chewing surfaces, enables inaccessible areas of cusp slopes to be smoothed and facilitates polishing. Can also be used for ceramic.

Silicone burs



Cross-serration enables soft silicone materials to be processed. Rational and

targeted removal is achieved.

Burs for the milling technique



The coordinated bur shapes for wax, metal and polishing processing improve the exact-fit manufacture of milling work. Metal processing is differentiated by the coordinated cutting geometry

for precious metals, non-precious metals and titanium. Burs in 2.35 mm and 3.0 mm shaft diameter are available – depending on the area of application.

Serrations



NF:
Normal serration
Fine

- for processing of any dental material
- easy removal of material with perfect control, smooth workpiece surface
- single cut instead of "double" cross-cut serration



NH:
Normal serration
with relief

- for the processing of precious metals, non-precious metals, plastic, plaster
- excellent removal of material and very smooth rotation, smooth workpiece surface
- relief: wide, stable cutting edge, extended service life



MH:
Medium serration
with relief

- for the processing of precious metals, non-precious metals, plastic and ceramics, where necessary
- good removal of material, very smooth workpiece surface, low vibration running protects the wrist of the technician and the drive
- relief: wider, more stable cutting edge for extended service life, enhanced cutting performance



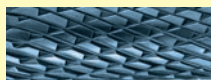
GH:
Coarse serration
with relief

- for coarse processing of precious metals, non-precious metals, plastics; in individual cases also of plaster
- excellent removal of material, low-vibration running and extended service life due to relief



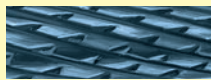
SH:
Super coarse serration
with relief

- for the processing of plaster and suitable for particularly coarse work on plastic
- excellent removal of material and particularly smooth material surface due to relief
- no loading with swarf due to larger cutting spaces



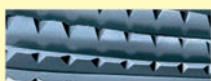
KF:
Cross-cut serration
Fine

- predominantly for more delicate types of work on precious and non-precious metals, plastics and ceramics
- moderate and very accurate removal of material, smooth workpiece surface



KM:
Cross-cut serration
Medium

- for the processing of larger surfaces on precious metals, non-precious metals and plastics, in individual cases also on plaster
- efficient removal of material, smooth workpiece surface, smooth running of tool
- universal application possibilities, therefore reduced frequency of tool exchange required



QG:
Cross-cut serration
Coarse

- especially for the processing of silicones
- very efficient and accurate removal of soft materials



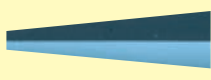
KG:
Cross-cut serration
Coarse

- for the coarse and efficient pre-processing of large surfaces on precious metals, non-precious metals and plastics, in individual cases also on plaster
- extensive removal of material, increased surface roughness compared to the finer bredent serrations



KS:
Cross-cut serration
Super coarse

- especially for the processing of plaster, also suitable for very coarse types of work on plastic
- extensive removal of material
- the size of the cutting space prevents loading with swarf



GG:
Straight serration
Coarse

- to perform cuts in plastic or shellac plates
- very economic cutting of plates
- single, straight cutting edges



KC:
Cross-cut serration
Chrome-Cobalt

- especially for the processing of chrome-cobalt alloys
- excellent removal of material, smooth surface
- the characteristic feature of this tool: the resulting metal swarf cause fewer skin irritations since they are larger and have a coarse structure



KT:
Cross-cut serration
Titanium

- especially for the processing of titanium
- the special cross-cut of this serration increases the cutting space, which reduces the friction. Overheating of titanium is prevented.
- economic, careful removal of material, smooth surface



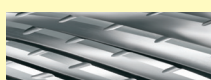
M8:
Extra super coarse
serration

- especially for optimised surface processing of BioHPP
- quick removal for time-saving work
- also suitable for plastics and plasters



M7:
Super coarse serration

- provides multiple applications
- for plaster, plastic and high-end thermoplastic
- quick removal for efficient working



M5:
Coarse serration

- creates smooth surfaces and reduces the amount of work required
- for precious, non-precious metals, plastics



M3:
Medium serration

- for time-saving surface processing
- good material removal with very smooth surfaces
- for all materials

The bredent Order Number System

Colour coding

Rapid recognition of the serration using the colour coding on the shaft of the bur.

NF none	KF red	KS black
NH orange	KM blue	GG none
MH orange	QM light blue	KC purple
GH orange/green	QG white	KT silver grey
SH orange	KG green	M gold



Tool shape, ISO number

Three numbers indicate the tool shape according to ISO.

Letter in initial position

- N = special tool for non-precious metal alloys
- H = carbide
- D = Diatit wear protection¹
- B = special tools (drills), e.g. fissure tool
- F = special tools for the milling technique
- S = silicone bur

Serration

bredent offers the tools mentioned above in 14 different serrations. The serrations are labelled using a combination of two capital letters.

Size

Diameter at the largest point of the working element in decimillimetres.

ISO numbers

are indicated for all tools to ensure enhanced comparability. These internationally standardised numbers feature 15 digits. The numbers include the following information:

1st - 3rd digit:
Materials of the working element

7th - 9th digit:
Shape of the working element

13th - 15th digit:
Diameter of the working element

509 104 263220 060

4th - 6th digit:
Shaft type

10th - 12th digit:
Serration

500 = carbide
509 = carbide diatit coating

103 = handpiece short
104 = handpiece
123 = handpiece thick short













Ø 2.35 mm, 34.0 mm
Ø 2.35 mm, 44.5 mm
Ø 3.00 mm, 30.0 mm

Recommended speeds

The maximum speed of bredent carbide tools is 60,000 rpm. The speed of rotating instruments always depends on the size

of the tool and its serration, the material to be processed and the contact pressure.

The recommended speeds for effective surface processing.

Colour-coding	Plaster	Prosthesis plastic	Veneer plastic	Precious metal/pd-based	Non-precious metal	Ceramic	Silicone	Titanium	BioHPP
MH 	10-20	10-20	15-20	15-20	15-20	15-20			
GH 	10-18	10-18	15-20	15-20	15-20	15-20			
SH 	10-20	10-20							
NH 	10-20	10-20	10-20	10-20	15-20	15-20			
KF 		12-18	15-20	15-20	15-20	15-20			
KM 	12-20	12-20	15-20	15-20	15-20	15-20			
QG 		10-20					20-30		10-20
KG 	10-20	8-12	10-17	15-20	15-20	15-20			
KS 	10-20	10-20							
GG	8-12	8-12							
KC 					10-20				
KT 								10-30	
M 	10-20	10-20	10-20	10-20	10-20				10-20

Recommended speed x 1000 rpm.

Bur application options

Icons are available for rapid and simple bur selection. The user decides independently on the application of the bur.



Crown/bridge technique



Veneer materials



Plastic technique



Creating a model



Precision engineering



Model casting technique



BioHPP material

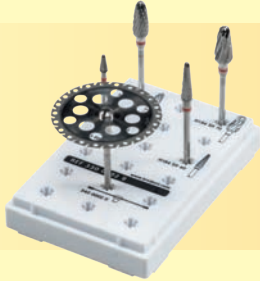


CAD/CAM technology


Bur range

– a suitable bur for every occasion

Manufacturing a model



Simple separating of crowns or the coarse processing of plaster to precision processing of the preparation margin is achieved using this tool combination. The perfect model can be created due to the smooth surface created by the bur's optimised relief serration technique.

 5-piece set
REF 330 0082 8


The plastic technique

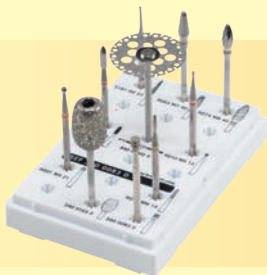
Sets are compiled specially for the various material requirements when using the plastic technique.



Silicone processing


The QG serration provides rational processing of silicones. The cross serration permits rapid chip removal and therefore keeps the view of the work area clear.

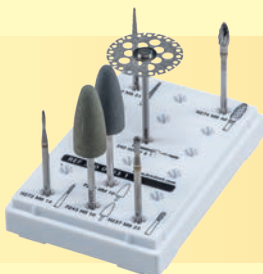
 3-piece set
REF 330 0082 9



Thermoplastic plastics

Heat-reduced processing for gentle processing of thermoplastic plastics is achieved using the compiled set. Deformations and structural damages to the framework are therefore prevented and the life span extended.


 10-piece set
REF 330 0083 0



High Performance Polymers – BioHPP

The new Generation M with M8 serration specially for the surface processing of BioHPP provides simplified processing in addition to smooth and compressed surfaces. Time-optimised processing is achieved due to the already smooth surface.

Recommended by MDT Jürgen Freitag, Bad Homburg (DE).

 7-piece set
REF 330 0083 1



Veneer plastics – composites

The visio.lign Toolkit has been designed specifically for the finishing of composites and visio.lign veneers and guarantees a perfect finish.

 REF VLTOOLKIT

Milling

The plastic technique

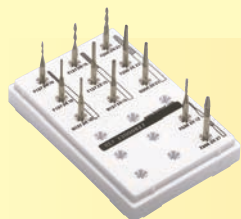
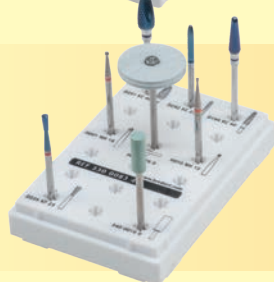
– a suitable bur for every occasion

The plastic technique



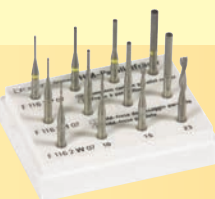
Metal processing

The different alloys require different tools due to the surface quality. Tools selected for the sets provide time-saving



Combination set
11 pieces
REF 330 0082 7

Parallel straight
12 pieces
REF 330 0082 4



Parallel round
12 pieces
REF 330 0082 5



Prosthetics

Quick and efficient – offered by this set with simultaneous smooth surfaces, which significantly reduces reworking.

Recommended by MDT Oliver Heinzmann, Heppenheim (DE).



6-piece set
REF 330 0083 2

processing and reduce the unnecessary choosing of different shapes.

Crown and bridge technology

Processing of the gnathological chewing surfaces and precise shapes in the crown and bridge technique requires precision tools.



8-piece set
REF 330 0083 3

Model casting technique

The elaborate cutting geometry of the KC bur has been developed for the processing of hard alloys. These tools are used for rapid and surface-optimised processing.



8-piece set
REF 330 0083 4

Milling technique

Specific ranges are compiled for time-optimised work in the case of the attachment and telescopic and cone-shaped crown technique. The milling tools are designed for wax milling to bur polishing.



Titanium processing

Rational titanium processing using burs, polishers, brushes and pastes developed specially for titanium.



8-piece set
REF 350 0089 0

Burs for the handpiece

Generation M – the progressive bur concept



M3 gold

Qty.

1	REF	H277 M3 60				
	ISO 500 104 ...	277190 060				
	Length mm	9.6				



M5 gold

Qty.

1	REF	H274 M5 16	H274 M5 40	H263 M5 40	H274 M5 60	
	ISO 500 104 ...	274220 016	274220 040	263220 040	274220 060	
	Length mm	3.3	8.1	8.2	15.0	



M7 gold

Qty.

1	REF	H274M7 16	H274 M7 40	H263 M7 40		
	ISO 500 104 ...	274220 016	274220 040	263220 040		
	Length mm	3.3	8.1	8.2		



BioHPP

M8 gold

Qty.

1	REF	H272M8 14	H237 M8 23	H200 M8 23	H263 M8 40	H194 M8 40	H274 M8 40
	ISO 500 104 ...	272220 014	237220 023	200220 023	263220 040	194220 040	274220 040
	Length mm	6.5	6.0	12.8	8.2	13.7	8.1



BioHPP

M8 gold

Qty.

1	REF	H274 M8 60				
	ISO 500 104 ...	274220 060				
	Length mm	15.0				



Burs for the handpiece

Relief burs



Rapid-Microbur



NH orange

Qty.

1	REF	H001 NH 04	H001 NH 05	H001 NH 06	H001 NH 07	H001 NH 08	H001 NH 09
5	REF	330 0050 4	330 0050 5	330 0050 6	330 0050 7	330 0050 8	330 0050 9
10	REF	330 0100 4	330 0100 5	330 0100 6	330 0100 7	330 0100 8	330 0100 9
	ISO 500 104	001006 004	001006 005	001006 006	001006 007	001006 008	001006 009
	Length mm	0.4	0.5	0.5	0.6	0.7	0.8



NH orange

Qty.

1	REF	H001 NH 10	H001 NH 12	H001 NH 14	H001 NH 16	H001 NH 18	H001 NH 21
5	REF	330 0051 0	330 0051 2	330 0051 4	330 0051 6	330 0051 8	330 0052 1
10	REF	330 0101 0	330 0101 2	330 0101 4	330 0101 6	330 0101 8	330 0102 1
	ISO 500 104	001006 005	001006 012	001006 014	001006 016	001006 018	001006 021
	Length mm	0.9	0.9	1.2	1.3	1.6	1.7



NH orange

Qty.

1	REF	H001 NH 23	H001 NH 31				
5	REF	330 0052 3	330 0053 1				
10	REF	330 0102 3	330 0103 1				
	ISO 500 104	001006 023	001006 031				
	Length mm	2.0	2.8				



NH orange

Qty.

1	REF	H010 NH 08	H010 NH 10	H010 NH 12	H010 NH 16		
5	REF	330 1050 8	330 1051 0	330 1051 2	330 1051 6		
10	REF	330 1100 8	330 1101 0	330 1101 2	330 1101 6		
	ISO 500 104	010006 008	010006 010	010006 012	010006 016		
	Length mm	0.8	1.0	1.2	1.6		

Burs for the handpiece

Relief burs



MH orange

Qty.

1	REF	H277 MH 14	H184 MH 16	H277 MH 23	H001 MH 23	H237 MH 23	H141 MH 23
	ISO 500 104 ...	277190 014	184190 016	277190 023	001190 023	237190 023	141190 023
	Length mm	3.5	8.2	4.5	2.0	6.0	7.5



MH orange

Qty.

1	REF	H289 MH 23					
	ISO 500 104 ...	289190 023					
	Length mm	8.5					



GH orange/green

Qty.

1	REF	H244 GH 23	H263 GH 30	H194 GH 40	H194 GH 50	H263 GH 60	H274 GH 40
	ISO 500 104 ...	244220 023	263220 030	194220 040	194220 050	263220 060	274220 040
	Length mm	5.1	6.2	13.7	13.5	13.2	12.6



GH orange/green

Qty.

1	REF	H274 GH 60					
	ISO 500 104 ...	274220 060					
	Length mm	13.2					



SH orange

Qty.

1	REF	H194 SH 40	H274 SH 40	H263 SH 60	H194 SH 60	H194 SH 70	
	ISO 500 104 ...	194220 040	274220 040	263220 060	194220 060	194220 070	
	Length mm	13.7	12.6	12.6	13.2	13.4	



Milling

Burs for the handpiece

Diatit burs



KF red

Qty.

1	REF	D184 KF16	D198 KF 23	D200 KF 23	D187 KF 23	D237 KF 23	D225 KF 23
	ISO 509 104 ...	184140 016	198140 023	200140 023	187140 023	237140 023	225140 023
	Length mm	8.2	7.9	12.8	14.5	6.0	6.1



KF red

Qty.

1	REF	D289 KF 23	D290 KF 23	D137 KF 23	D194 KF 23	D263 KF 40	D194 KF 40	D194 KF 50
	ISO 509 104 ...	289140 023	290140 023	137140 023	194140 023	263140 040	194140 040	194140 050
	Length mm	8.5	8.5	14.0	10.3	8.2	13.7	13.5



KM blue

Qty.

1	REF	D277 KM 14	D184 KM 16	D277 KM 23	D198 KM 23	D237 KM 23	D225 KM 23
	ISO 509 104 ...	277190 014	184190 016	277190 023	198190 023	237190 023	225190 023
	Length mm	3.5	8.2	4.5	7.9	6.0	6.1



KM blue

Qty.

1	REF	D141 KM 23	D289 KM 23	D137 KM 23	D292 KM 23	D200 KM 23	D187 KM 23
	ISO 509 104 ...	141190 023	289190 023	137190 023	292190 023	200190 023	187190 023
	Length mm	7.5	8.5	14.0	13.0	12.8	14.5



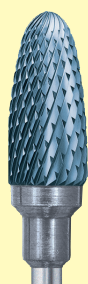
KM blue

Qty.

1	REF	D194 KM 23	D263 KM 40	D194 KM 30	D001 KM 50	D194 KM 40	D194 KM 50
	ISO 509 104 ...	194190 023	263190 040	194190 030	001190 050	194190 040	194190 050
	Length mm	10.7	8.2	13.0	4.5	13.7	13.5

Burs for the handpiece

Diatit burs



KG green

Qty.

1	REF	D137 KG 23	D292 KG 23	D200 KG 23	D187 KG 23	D194 KG 23	
	ISO 509 104 ...	137220 023	292220 023	200220 023	187220 023	194220 023	
	Length mm	14.0	13.0	12.8	14.5	10.3	



KG green

Qty.

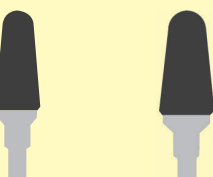
1	REF	D194 KG 40	D194 KG 50	D263 KG 60	D274 KG 60	D237 KG 65	
	ISO 509 104 ...	194220 040	194220 050	263220 060	274220 060	237220 065	
	Length mm	13.7	13.5	13.2	13.7	13.1	



KS black

Qty.

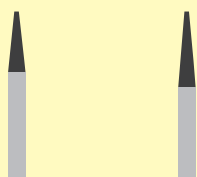
1	REF	D194 KS 60	D194 KS 70				
	ISO 509 104 ...	194223 060	194223 070				
	Length mm	13.2	13.4				



GG

Qty.

1	REF	D468 GG 16	D468 GG 23				
	ISO 509 104 ...	468211 016	468211 023				
	Length mm	8.0	10.0				



Milling

Burs for the handpiece

Diatit titanium burs



KT silver grey

Qty.

1	REF	D001 KT 14	D001 KT 23	D198 KT 23	D194 KT 23	D263 KT 40	D194 KT 40
	ISO 509 104 ...	001190 014	001190 023	198190 023	194190 023	263190 040	194190 040
	Length mm	1.2	2.0	7.9	10.3	8.2	13.7



KT silver grey

Qty.

1	REF	D194 KT 50					
	ISO 509 104 ...	194190 050					
	Length mm	13.5					



Diatit Power bur



KC purple

Qty.

1	REF	D292 KC 23	D194 KC 40	D251 KC 60			
	ISO 509 104 ...	292190 023	194190 040	251190 060			
	Length mm	13.0	13.7	13.2			



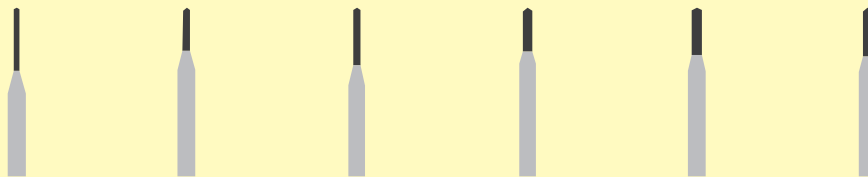
Burs for the handpiece

Diatit multidrill



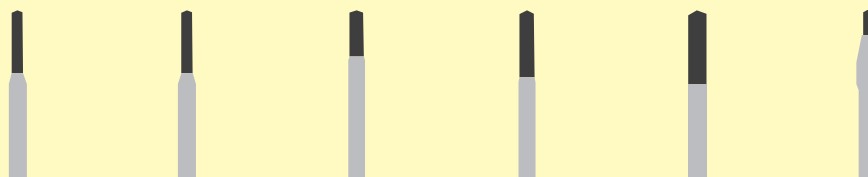
Qty.

1	REF	330 0074 0	330 0061 0	330 0062 0	330 0063 0	330 0115 8	330 0115 7
	ISO 509 104 ...	422366 008	420366 010	422366 010	420366 012	418366 013	421366 013
	Measurements mm	0.8 Ø x 8	1.0 Ø x 5	1.0 Ø x 7	1.2 Ø x 5	1.3 Ø x 3,2	1.3 Ø x 5



Qty.

1	REF	330 0079 0	330 0073 0	330 0116 2	330 0080 0	330 0072 0	330 0075 0
	ISO 509 104 ...	421366 014	422366 015	421366 017	421366 018	421366 020	418366 012
	Measurements mm	1.4 Ø x 6	1.5 Ø x 8	1.7 Ø x 5	1.8 Ø x 6	2.0 Ø x 8	1.2 Ø x 3



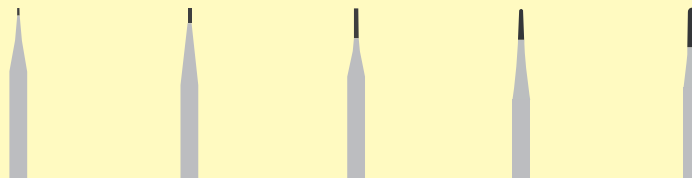
Microburs



NF

Qty.

10	REF	B153 NF 02	B153 NF 04	B153 NF 06	B194 NF 07	B194 NF 09	
5	REF	330 1530 2	330 1530 4	330 1530 6	330 1940 7	330 1940 9	
	ISO 500 104 ...	153006 002	153006 004	153006 006	194006 007	194006 009	
	Length mm	1.0	2.0	4.0	5.0	5.0	



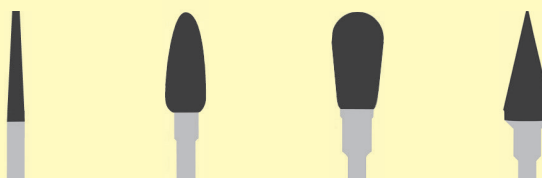
Silicone burs



QG white

Qty.

1	REF	S187 QG 23	S263 QG 60	S237 QG 65	H161 QG 60		
	ISO 500 104 ...	187220 023	263220 060	237220 065	161220 060		
	Length mm	14.5	13.2	13.1	12.7		

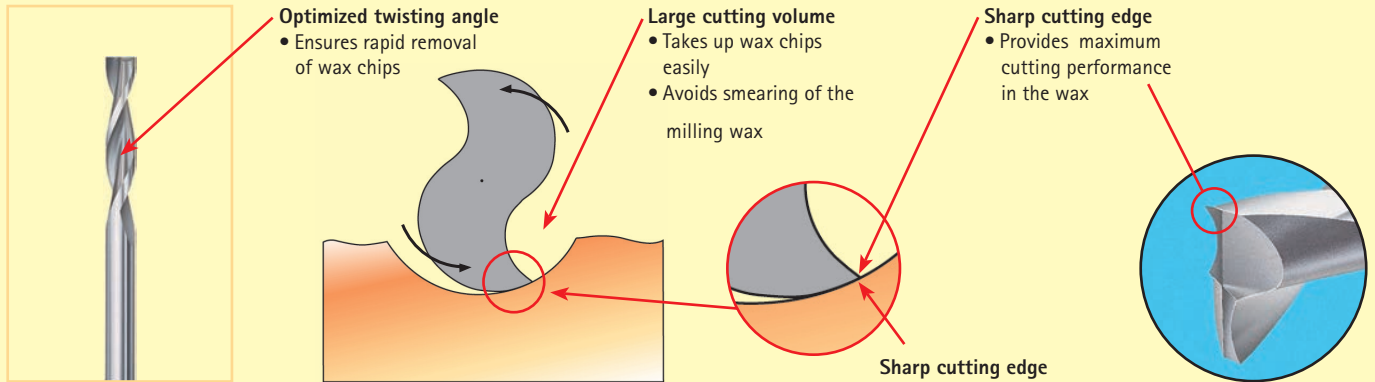


Milling

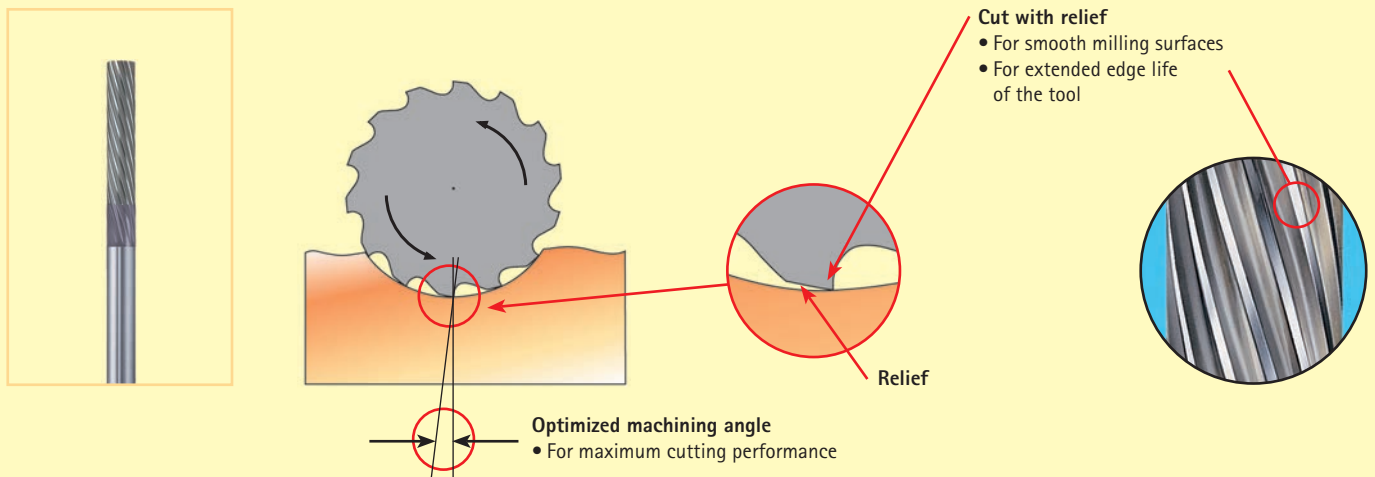
Burs for the milling technique

Tools with relief for the milling technique

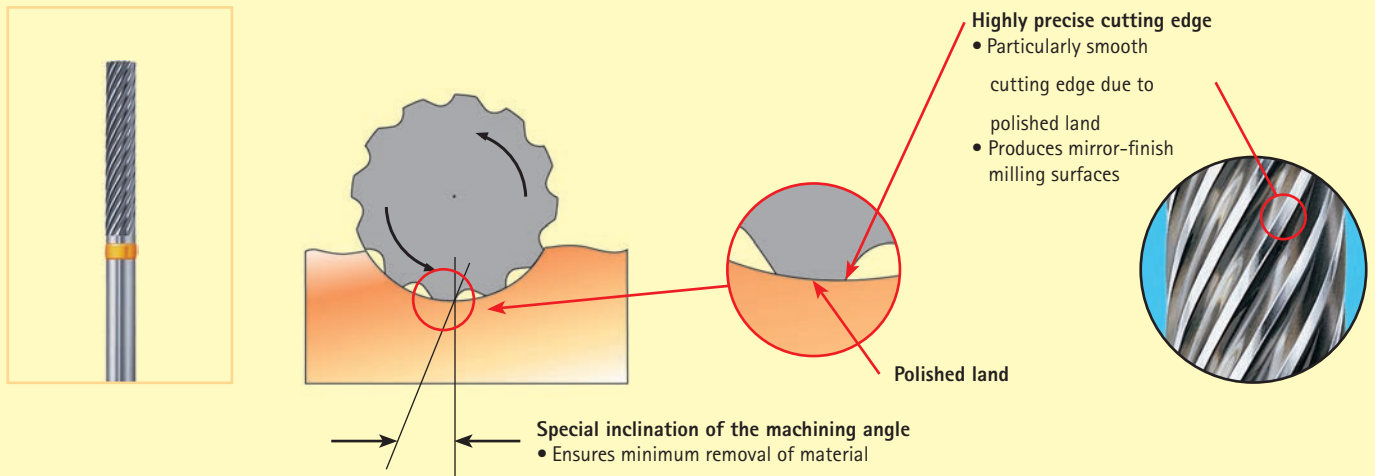
Wax bur



Profile bur



Polishing bur



Burs for the milling technique

Tools with relief for the milling technique

Biotec milling wax



Excellent milling wax with superb modelling properties. Outstanding scraping and milling properties since sticking of wax to the bur is avoided.



Biotec milling wax
28 g
REF 510 0061 4



Enormous amount of time is saved due to good modelling properties since no other wax is required for the shear distributor.

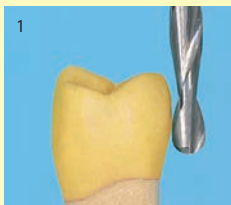


Extremely accurate milling wax to produce smooth and shining surfaces during milling.

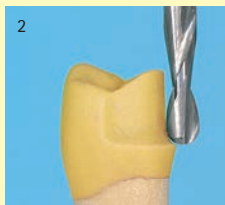


Can be used for press ceramics since the wax burns out almost entirely.

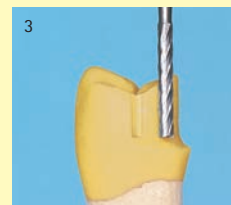
Systematic preparation of a groove-shoulder attachment with the milling technique tool set by bredent



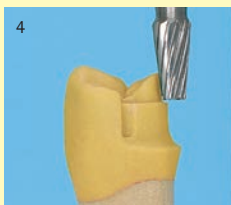
1 It is recommended to model the entire, planned crown in wax prior to starting the milling work.



2 In the first step a semi-round shoulder with a marginal step is prepared with the wax bur F137 3W 23.



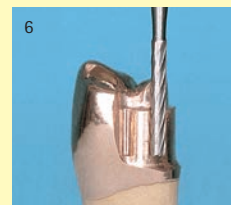
3 Then the approximal grooves are prepared with the groove bur F538 3H 10.



4 Finally, the occlusal shoulder is completed with the shoulder bur F205 3H 27.



5 After casting and finishing of the crown, the parallel surface is remilled with the profile bur F137 3H 23.



6 Remilling of the groove is carried out with the tool F 538 3H 10. During this process the groove bur should only be moved up and down in the vertical axis.



7 The occlusal shoulder is reworked with the tool F205 3H 27.



8 Finally, a high lustre is achieved on the parallel surface using the polishing bur F137 3P 23.



9 The milling tools with relief by bredent produce a perfect high lustre so that additional polishing is not required.



10 A secondary element is modelled with the pattern resin Pi-Ku-Plast and – if required – shaped with rotating tools.



11 The secondary element is cast and placed onto the primary element.



12 The low shrinkage of the pattern resin ensures excellent precision of fit of the secondary element.

Milling

Burs for the milling technique

Wax burs, parallel



Round tip

Qty.

1	Ø 2,35 mm	REF	F137 2W 07	F137 2W 10	F137 2W 15	F137 2W 23		
	ISO 500 103 ...		137366 007	137366 010	137366 015	137366 023		
1	Ø 3,00 mm	REF	F137 3W 07	F137 3W 10	F137 3W 15	F137 3W 23		
	ISO 500 123 ...		137366 007	137366 010	137366 015	137366 023		
	Length mm		8.0	9.0	10.0	14.0		



Flat tip

Qty.

1	Ø 2,35 mm	REF	F116 2W 07	F116 2W 10	F116 2W 15	F116 2W 23		
	ISO 500 103 ...		116366 007	116366 010	116366 015	116366 023		
1	Ø 3,00 mm	REF	F116 3W 07	F116 3W 10	F116 3W 15	F116 3W 23		
	ISO 500 123 ...		116366 007	116366 010	116366 015	116366 023		
	Length mm		8.0	9.0	10.0	14.0		



Wax burs, conical



Round tip

Qty.

1	Ø 2,35 mm	REF	F200 2W 29	F200 2W 23	F200 2W 31	F200 2W 40		
	ISO 500 103 ...		200362 029	200362 023	200362 031	200362 040		
1	Ø 3,00 mm	REF	—	F200 3W 23	F200 3W 31	F200 3W 40		
	ISO 500 123 ...		—	200362 023	200362 031	200362 040		
	Angle		1°	2°	4°	6°		
	Length mm		12.5	13.0	13.5	13.0		



Flat tip

Qty.

1	Ø 2,35 mm	REF	F186 2W 23	F186 2W 31	F186 2W 40		
	ISO 500 103 ...		186362 023	186362 031	186362 040		
1	Ø 3,00 mm	REF	F186 3W 23	F186 3W 31	F186 3W 40		
	ISO 500 123 ...		186362 023	186362 031	186362 040		
	Angle		2°	4°	6°		
	Length mm		13.5	13.5	13.0		



Burs for the milling technique

Profile burs, parallel



**Round tip
Normal serration**

Qty.

1	Ø 2,35 mm REF	F137 2H 07	F137 2H 10	F137 2H 15	F137 2H 23	F137 2H 60	
	ISO 500 103 ...	137103 007	137103 010	137103 015	137103 023	137103 060	
1	Ø 3,00 mm REF	F137 3H 07	F137 3H 10	F137 3H 15	F137 3H 23	F137 3H 60	
	ISO 500 123 ...	137103 007	137103 010	137103 015	137103 023	137103 060	
	Length mm	8.0	10.0	10.0	13.0	12.5	



**N-serration for
titanium and non-
precious metals**

Qty.

1	Ø 2,35 mm REF	N137 2H 10	N137 2H 15	N137 2H 23			
	ISO 500 103 ...	137103 010	137103 015	137103 023			
1	Ø 3,00 mm REF	N137 3H 10	N137 3H 15	N137 3H 23			
	ISO 500 123 ...	137103 010	137103 015	137103 023			
	Length mm	10.0	10.0	13.0			



**Round tip
Cross-cut serration**

Qty.

1	Ø 2,35 mm REF	F137 2K 10	F137 2K 15	F137 2K 23	F137 2K 60		
	ISO 500 103 ...	137190 010	137190 015	137190 023	137190 060		
1	Ø 3,00 mm REF	F137 3K 10	F137 3K 15	F137 3K 23	F137 3K 60		
	ISO 500 123 ...	137190 010	137190 015	137190 023	137190 060		
	Length mm	10.0	10.0	13.0	12.5		



M8 gold

Qty.

1	Ø 2,35 mm REF	F137 M8 10	F137 M8 15	F137 M8 23			
	ISO 500 103 ...	137220 010	137220 015	137220 023			
	Length mm	10.0	10.0	13.0			



Burs for the milling technique

Profile burs, parallel



**Flat tip
Normal serration**

Qty.

1	Ø 2,35 mm REF	F116 2H 07	F116 2H 10	F116 2H 15	F116 2H 23		
	ISO 500 103 ...	116103 007	116103 010	116103 015	116103 023		
1	Ø 3,00 mm REF	F116 3H 07	F116 3H 10	F116 3H 15	F116 3H 23		
	ISO 500 123 ...	116103 007	116103 010	116103 015	116103 023		
	Length mm	7.0	8.0	11.0	15.0		



**N-serration for
titanium and non-
precious metals**

Qty.

1	Ø 2,35 mm REF	N116 2H 10	N116 2H 15	N116 2H 23			
	ISO 500 103 ...	116103 010	116103 015	116103 023			
1	Ø 3,00 mm REF	N116 3H 10	N116 3H 15	N116 3H 23			
	ISO 500 123 ...	116103 010	116103 015	116103 023			
	Length mm	8.0	11.0	15.0			



Burs for the milling technique

Profile burs, conical



**Round tip
Normal serration**

Qty.

1	Ø 2,35 mm REF	F200 2H 23	F200 2H 31	F200 2H 40			
	ISO 500 103 ...	200103 023	200103 031	200103 040			
1	Ø 3,00 mm REF	F200 3H 23	F200 3H 31	F200 3H 40			
	ISO 500 123 ...	200103 023	200103 031	200103 040			
	Angle	2°	4°	6°			
	Length mm	13.0	13.0	13.0			



**N-serration for
titanium and non-
precious metals**

Qty.

1	Ø 2,35 mm REF	N200 2H 23	N200 2H 31	N200 2H 40			
	ISO 500 103 ...	200103 023	200103 031	200103 040			
1	Ø 3,00 mm REF	N200 3H 23	N200 3H 31	N200 3H 40			
	ISO 500 123 ...	200103 023	200103 031	200103 040			
	Angle	2°	4°	6°			
	Length mm	13.0	13.0	13.0			



Cross-cut serration

Qty.

1	Ø 2,35 mm REF	F200 2K 18	F200 2K 29	F200 2K 23	F200 2K 31	F200 2K 40	
	ISO 500 103 ...	200190 018	200190 029	200190 023	200190 031	200190 040	
1	Ø 3,00 mm REF	F200 3K 18	F200 3K 29	F200 3K 23	F200 3K 31	F200 3K 40	
	ISO 500 123 ...	200190 018	200190 029	200190 023	200190 031	200190 040	
	Angle	1°	1°	2°	4°	6°	
	Length mm	13.0	17.0	13.0	13.0	13.0	



BioHPP

M8 gold

Qty.

1	Ø 2,35 mm REF	F200 M8 23					
	ISO 500 103 ...	200220 023					
	Angle	2°					
	Length mm	13.0					



Burs for the milling technique

Profile burs, conical



Flat tip Normal serration

Qty.

1	Ø 2,35 mm REF	F186 2H 23	F186 2H 31	F186 2H 40			
	ISO 500 103 ...	186103 023	186103 031	186103 040			
1	Ø 3,00 mm REF	F186 3H 23	F186 3H 31	F186 3H 40			
	ISO 500 123 ...	186103 023	186103 031	186103 040			
	Angle	2°	4°	6°			
	Length mm	13.5	13.5	13.5			



N-serration for titanium and non- precious metals

Qty.

1	Ø 2,35 mm REF	N186 2H 23	N186 2H 31	N186 2H 40			
	ISO 500 103 ...	186103 023	186103 031	186103 040			
1	Ø 3,00 mm REF	N186 3H 23	N186 3H 31	N186 3H 40			
	ISO 500 123 ...	186103 023	186103 031	186103 040			
	Angle	2°	4°	6°			
	Length mm	13.5	13.5	13.5			



Burs for the milling technique

Polishing burs, parallel



**Round tip
Normal serration**

Qty.

1	Ø 2,35 mm REF	F137 2P 07	F137 2P 10	F137 2P 15	F137 2P 23		
	ISO 500 103 ...	137102 007	137102 010	137102 015	137102 023		
1	Ø 3,00 mm REF	F137 3P 07	F137 3P 10	F137 3P 15	F137 3P 23		
	ISO 500 123 ...	137102 007	137102 010	137102 015	137102 023		
	Length mm	8.0	9.0	11.0	13.5		



**N-serration for
titanium and non-
precious metals**

Qty.

1	Ø 2,35 mm REF	N137 2P 10	N137 2P 15	N137 2P 23			
	ISO 500 103 ...	137102 010	137102 015	137102 023			
1	Ø 3,00 mm REF	N137 3P 10	N137 3P 15	N137 3P 23			
	ISO 500 123 ...	137102 010	137102 015	137102 023			
	Length mm	9.0	11.0	13.5			



Milling

Burs for the milling technique

Polishing burs, parallel



**Flat tip
Normal serration**

Qty.

1	Ø 2,35 mm REF	F116 2P 07	F116 2P 10	F116 2P 15	F116 2P 23		
	ISO 500 103 ...	116102 007	116102 010	116102 015	116102 023		
1	Ø 3,00 mm REF	F116 3P 07	F116 3P 10	F116 3P 15	F116 3P 23		
	ISO 500 123 ...	116102 007	116102 010	116102 015	116102 023		
	Length mm	8.0	9.0	11.0	13.5		



**N-serration for
titanium and non-
precious metals**

Qty.

1	Ø 2,35 mm REF	N116 2P 10	N116 2P 15	N116 2P 23			
	ISO 500 103 ...	116102 010	116102 015	116102 023			
1	Ø 3,00 mm REF	N116 3P 10	N116 3P 15	N116 3P 23			
	ISO 500 123 ...	116102 010	116102 015	116102 023			
	Length mm	9.0	11.0	13.5			



Burs for the milling technique

Polishing burs, conical



Round tip
Normal serration

Qty.

1	Ø 2,35 mm REF	F200 2P 23	F200 2P 31	F200 2P 40			
	ISO 500 103 ...	200102 023	200102 031	200102 040			
1	Ø 3,00 mm REF	F200 3P 23	F200 3P 31	F200 3P 40			
	ISO 500 123 ...	200102 023	200102 031	200102 040			
	Angle	2°	4°	6°			
	Length mm	13.0	13.0	13.5			



Flat tip
Normal serration

Qty.

1	Ø 2,35 mm REF	F186 2P 23	F186 2P 31	F186 2P 40			
	ISO 500 103 ...	186102 023	186102 031	186102 040			
1	Ø 3,00 mm REF	F186 3P 23	F186 3P 31	F186 3P 40			
	ISO 500 123 ...	186102 023	186102 031	186102 040			
	Angle	2°	4°	6°			
	Length mm	13.0	13.0	13.5			



Milling

Burs for the milling technique

Grooved bur



Qty.

1	Ø 2,35 mm REF	F538 2H 07	F538 2H 10	F538 2H 12	F538 2H 15	F538 2H 20	
	ISO 500 103 ...	538175 007	538175 010	538175 012	538175 015	538175 020	
1	Ø 3,00 mm REF	F538 3H 07	F538 3H 10	F538 3H 12	F538 3H 15	F538 3H 20	
	ISO 500 123 ...	538175 007	538175 010	538175 012	538175 015	538175 020	
	Length mm	7.5	8.5	8.5	8.5	8.5	

Shouldered bur



Qty.

1	Ø 2,35 mm REF	F205 2H 27	F205 2H 29				
	ISO 500 103 ...	205175 027	205175 029				
1	Ø 3,00 mm REF	F205 3H 27	F205 3H 29				
	ISO 500 123 ...	205175 027	205175 029				
	Length mm	5.0	5.0				

Milling and drilling oil



Milling and drilling oil
REF 550 0000 8

The milling and drilling oil was especially developed to be used together with the milling and drilling tools by bredent. The special consistency produces a reliable oil film between the metal and the drill so that the metal swarf slides out of the cutting spaces of the tool. The cutting performance and the service life of the milling tools are thus increased. The milling and drilling oil does not cure thanks to its high evaporation temperature.

Application:

Always add sufficient quantities of milling and drilling oil during centre punching, drilling and milling.

Grinding



The highest level of quality for high stress
diamond tools

bredent

Grinding

Diamond grinders

The right tool for every application

The varied selection of bredent diamond tools offers a high level of flexibility when using them on the most varied materials. The long-lasting sintered diamond cutters are therefore particularly suitable for economical metal processing and the

shape-retaining galvanic coated diamond cutters can be used for ceramic or even plastic processing. The ceramically-bonded diamond grinders are the ideal processing tools for ceramic materials or zirconium oxide.



Sintered diamond



Galvanic coated diamond



Ceramically-bonded diamond

Diamond grinders

Recommended speeds

Recommended speeds for effective surface processing:

	Ø mm	U/min. x 1000
Sintered diamond grinding tools	1.6	30
	2.5	30
	3.1	25
	4.0	25
	5.0	20
	6.0	20
	8.0	15
	10.0	15
	25	10
Sintered diamond grinding tools FG	all	37 – 110
Galvanic coated diamond cutter milling technique Wax bur: Diamond cutter:	all	4 – 5
	all	10 – 20
Galvanic coated diamond cutters Diamond cutter: Diacryl cutter:	1.5 – 7	20 – 30
	5 – 8	10
	10 – 12	15 – 20
Galvanic coated diamond cutters FG	10 – 11	150 – 75
	12 – 16	110 – 55
	18 – 23	85 – 37
Galvanic coated diamond washers	8 – 45	15 – 20
Ceramically-bonded diamond cutters	3.5	10 – 24
	4.5 – 6	10 – 20
	15 – 22	10 – 15

Range of applications

Icons are available for quick and simple tool selection. The user decides independently on the application of the tool.



Crown/bridge technique



Veneer materials



Plastic technique



Creating a model



Precision engineering



Model casting technique



BioHPP material

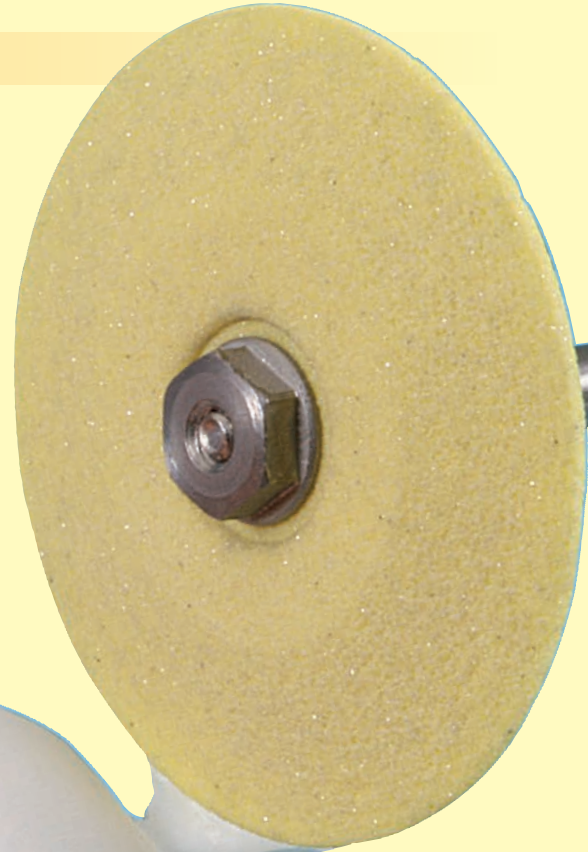
Grinding

Diamond grinders

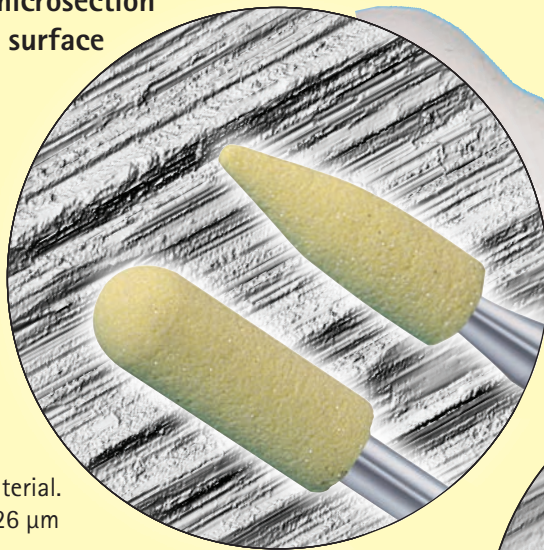
Diagen-Turbo-Grinder – now in two abrasion levels

The system of diamond grinders with extraordinary grinding properties thanks to special Diagen diamond binding material.

- two abrasion levels for more flexibility during use
- special binding material (coarse) for longer tool life (20%) and reduced consumption of grinders
- cooling effect prevents damage to all ceramics, particularly zirconium oxide
- 11 different shapes for all applications ensure perfect processing results
- can be used on zirconium oxide, silicate ceramics and metal
- continuously exposed diamonds guarantee fast removal of material
- recommended by leading zirconium manufacturers; * to ensure that the right decision has been made



Comparison of microsection Zirconium oxide surface



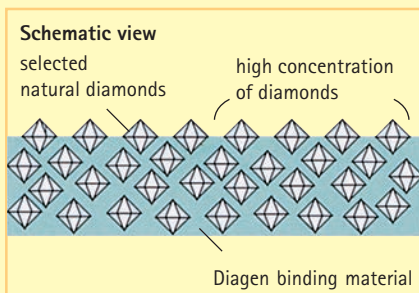
Fast removal thanks to coarse diamond grain and special diamond binding material. Surface roughness: 26 μm

*The companies Ivoclar Vivadent®, Vita® and Teamziereis® recommend the Diagen-Turbo-Grinders for processing zirconium oxide and ceramic.



Smoothing of surfaces and finishing with fine diamond grain: Surface roughness 2 μm

Unsurpassed grinding power and abrasive capacity on zirconium oxide, ceramic and metal surfaces at reduced pressure. Prolonged tool life compared to conventional binding materials leads to a wide range of applications and therefore a high degree of efficiency.



Diamond grinders

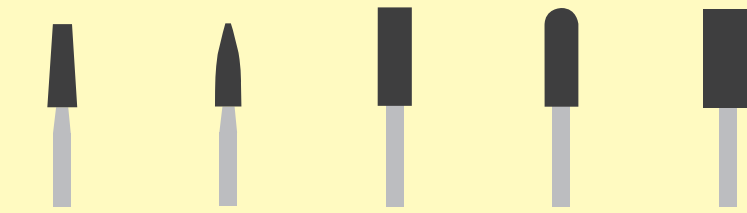
Diagen-Turbo-Grinder - now in two abrasion levels



coarse

Qty.

2	REF	340 G015 0	340 G015 5	340 G016 0	340 G016 5	340 G017 0	
	Ø mm	3.5	3.5	4.5	4.5	6	
	Length mm	11	11	13	13	13	



Qty.

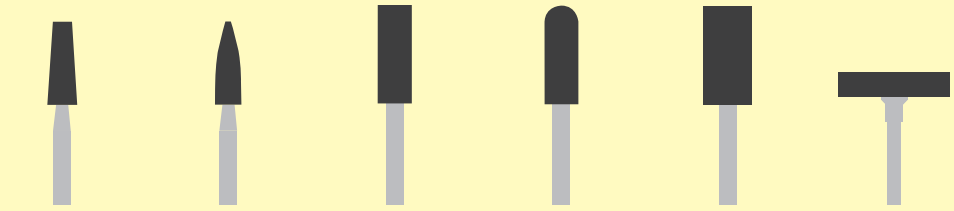
1	REF	340 G021 0					
	Ø mm	22					
	Length mm	2					



fine

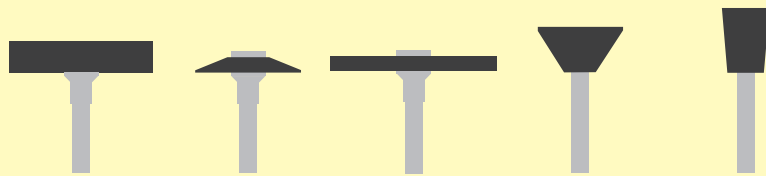
Qty.

2	REF	340 0015 0	340 0015 5	340 0016 0	340 0016 5	340 0017 0	340 0018 0
	Ø mm	3.5	3.5	4.5	4.5	6.5	15
	Length mm	11	11	13	13	13	3.5



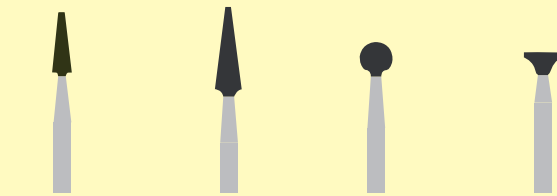
Qty.

1	REF	340 0019 0	340 0021 0	340 0022 0	340 0024 0	340 0025 0	
	Ø mm	22	22	22	12	6	
	Length mm	4.5	2	2	6	8	



Qty.

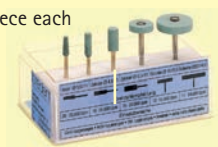
2	REF	340 0026 0	340 0026 5	340 0027 0	340 0027 5		
	Ø mm	2.4	3.4	4.0	2.5		
	Length mm	7.8	10.5		5		



Qty.

1	REF	340 0020 0
---	-----	------------

Assortment 5 pieces, 1 piece each
Diagen-Turbo-Grinder



Assortment 5 pieces, 1 piece each
Diagen-Turbo-Grinder ceramic

340 0020 5



Grinding

Diamond grinding

Sintered diamond grinding tools

Diabolo – The superior class of diamond grinding tools. For fast and efficient processing of extremely hard dental materials.

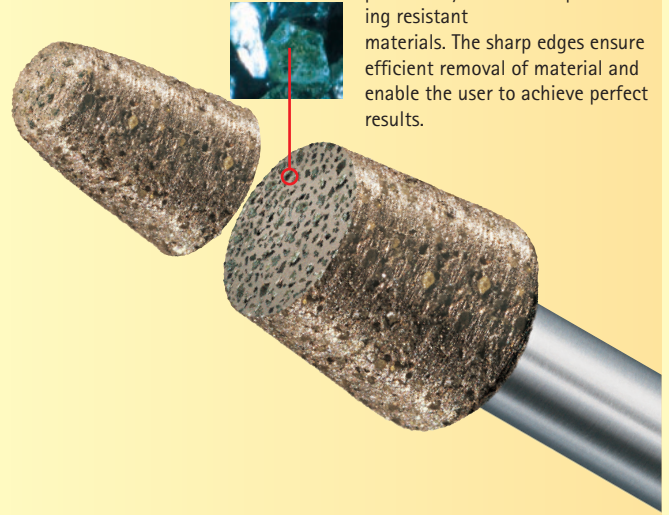
Carefully selected natural diamonds are entirely integrated into a mixture of metal and binding material designed for the individual application.

Due to the special manufacturing process, worn out diamond grit is automatically removed and replaced by razor sharp diamond crystals so that automatic sharpening is achieved. As a result, continuous material removal on the workpiece surface is achieved over the whole life span of the Diabolo.

The range of different shapes ensures individual selection and permits the use for numerous applications.

The self-sharpening effect allows to perform extremely difficult processing of dental material in a simple, fast and efficient manner.

Owing to the tremendous hardness, the diamond grinding tool is particularly suitable for processing resistant materials. The sharp edges ensure efficient removal of material and enable the user to achieve perfect results.



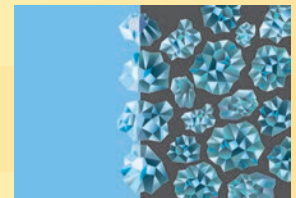
Schematic comparison of electroplated and sintered diamond grinding tools:

In the case of electroplated grinding tools, the diamond crystals have been adhered to the bur blank using a metal bond.

In the bredent sintering method, the razor sharp diamond crystals are embedded in an adapted mixture of binding material.



Diamond crystals in an electro-deposited metal bond.



Diamond crystals embedded in a special mixture of binding material.

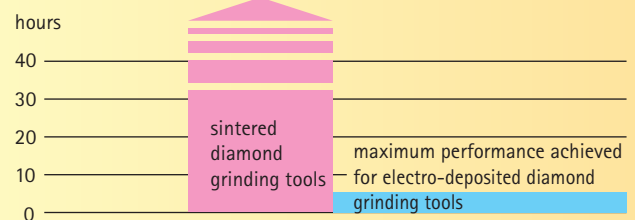
Galvanic coated diamond cutters

Thanks to the hard shaping core of the diamond tool, a steady, consistent tool shape is applied during processing. This enables selective and contoured designing of the workpiece surface.

The various shapes and diamond grains facilitate the processing of different materials and fine to very coarse removal.



Maximum performance for a lifetime!



Summary: When comparing sintered/electroplated diamond grinding tools in the long-term test, the bredent Diabolo tools excelled due to their efficiency and extended service life. Thanks to the self-sharpening properties of the diamond crystals, the sintered diamond tools feature high cutting performance and ensure perfect removal of material for the duration of service life.


Sintered diamond grinding tools

Diabolo

Colour coding

Diabolo grinding tools feature colour coding.

This system indicates the different grit size of the grinding tool and therefore simplifies selection of the suitable tool.

Colour coding	Grit size	Grit area	Marking
	200 µm		extra coarse / black
	130 µm		coarse / green
	100 µm		normal
	80 µm		fine / red

Order number

To facilitate reordering, the order number of the respective Diabolo grinding tool is engraved onto the shaft.

Razor sharp:

Diabolo diamond crystals constantly form new cutting edges during grinding. This way extremely high resistance and extended service life are ensured.

The colour code:

From fine to extra coarse grit - at a single glance! A different colour for each of the four grit sizes ensures that you select the correct Diabolo. Simple selection of the desired grit size with the help of the colour rings.

Order number:

The order number is included on the shaft of every tool to prevent errors when ordering.



SF= Sintered diamond, fine
199= shape of the working tip (C)
050= largest diameter of the working tip (E)

Precise:

Every Diabolo sintered diamond is fully concentric and therefore wears down evenly. As a result, restorations fit perfectly. This even applies to complex milling of non-precious metal objects.

Guaranteed bredent quality:

Every sintered diamond undergoes the bredent quality assurance test. We guarantee optimum, uniform cutting performance right down to the last particle of diamond.

Very easily changed:

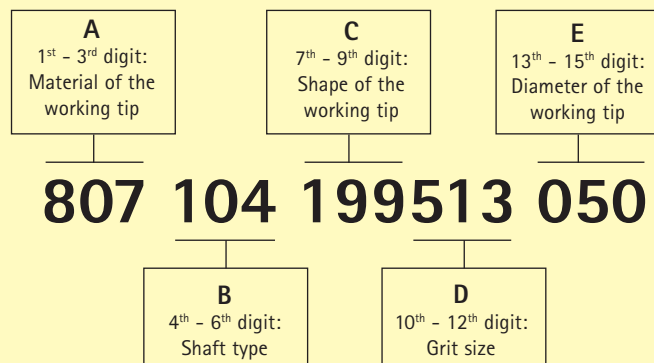
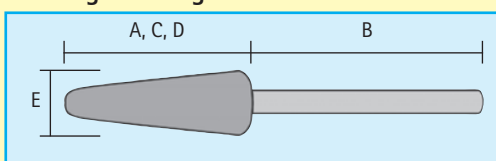
Diabolo sintered diamonds feature rounded ends on their shafts so that they can be inserted into any handpiece quickly.

ISO number

ISO numbers are indicated for all tools to ensure enhanced comparability.

These internationally standardised numbers have 15 digits. The numbers include the following information:

Grinding tool diagram



Sintered diamond grinding tools

Diabolo



Conical, pointed

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF			SN 165 023	SF 165 023
	ISO 807 104 ...			165523 023	165513 023
1	REF	SS 167 050		SN 167 050	
	ISO 807 104 ...	167543 050		167523 050	



Conical, round

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF		SG 198 025	SN 198 025	
	ISO 807 104 ...		198533 025	198523 025	
1	REF			SN 198 037	
	ISO 807 104 ...			198523 037	
1	REF		SG 199 031	SN 199 031	SF 199 031
	ISO 807 104 ...		199533 031	199523 031	199513 031
1	REF	SS 199 040	SG 199 040	SN 199 040	
	ISO 807 104 ...	199543 040	199533 040	199523 040	
1	REF	SS 199 050	SG 199 050	SN 199 050	
	ISO 807 104 ...	199543 050	199533 050	199523 050	



Conical

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 171 031			
	807 104 ...	171543 031			
1	REF			SN 173 031	
	807 104 ...			173523 031	
1	REF	SS 173 040			
	807 104 ...	173543 040			



Bud, round

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 261 050	SG 261 050		SF 261 050
	807 104 ...	261543 050	261533 050		261513 050
1	REF	SS 263 050	SG 263 050	SN 263 050	
	807 104 ...	263543 050	263533 050	263523 050	

Sintered diamond grinding tools

Diabolo



Bud

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 254 060	SG 254 060	SN 254 060	
	807 104 ...	254543 060	254533 060	254523 060	



Bud, slender

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF				SF 257 031
	807 104 ...				257513 031



Cylinder, flame-shaped

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 250 016	SG 250 016	SN 250 016	SF 250 016
	807 104 ...	250543 016	250533 016	250523 016	250513 016
1	REF	SS 251 031		SN 251 031	
	807 104 ...	251543 031		251523 031	



Cylinder, round

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 141 031		SN 141 031	
	807 104 ...	141543 031		141523 031	
1	REF	SS 143 050	SG 143 050	SN 143 050	
	807 104 ...	143543 050	143533 050	143523 050	
1	REF	SS 143 080	SG 143 080		SF 143 080
	807 104 ...	143543 080	143533 080		143513 080
1	REF	SS 153 031			SF 153 031
	807 104 ...	153543 031			153513 031

Diabolo Cleaner



Qty.		Diabolo Cleaner
1	REF	340 0100 0

The indispensable tool for removing contaminations so that constant cutting performance of the Diabolo tools is ensured. Contaminated material is removed easily and quickly and new diamond cutting edges are exposed from the bronze binding material.



Grinding

Sintered diamond grinding tools

Diabolo



Cylinder, pointed

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 131 031	SG 131 031		
	807 104 ...	131543 031	131533 031		



Cylinder

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF		SG 111 025	SN 111 025	
	807 104 ...		111533 025	111523 025	
1	REF			SN 112 016	
	807 104 ...			112523016	
1	REF	SS 113 050	SG 113 050		
	807 104 ...	113543 050	113533 050		



Inverted cone

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF				SF 227 016
	807 104 ...				227513 016
1	REF		SG 227 031		SF 227 031
	807 104 ...		227533 031		227513 031



Inverted cone

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF			SN 014 018	
	807 104 ...			014523 018	
1	REF			SN 014 021	
	807 104 ...			014523 021	

Sintered diamond grinding tools

Diabolo



Inverted cone with recess

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF				SF 030 012
	ISO 807 104 ...				030513 012
1	REF			SN 030 018	SF 030 018
	ISO 807 104 ...			030523 018	030513 018
1	REF	SS 030 025	SG 030 025	SN 030 025	SF 030 025
	ISO 807 104 ...	030543 025	030523 025	030523 025	030513 025
1	REF			SN 030 040	
	ISO 807 104 ...			030523 040	
1	REF			SN 030 060	
	ISO 807 104 ...			030523 060	



Round

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF				SF 001 021
	807 104 ...				001513 021



Lens

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 304 050		SN 304 050	
	807 104 ...	304543 050		304523 050	
1	REF	SS 304 080		SN 304 080	
	807 104 ...	304543 080		304523 080	
1	REF		SG 304 120	SN 304 120	
	807 104 ...		304533 120	304523 120	



Wheel

Qty.		extra coarse 200 µm	coarse 130 µm	normal 100 µm	fine 80 µm
1	REF	SS 072 040	SG 072 040		SF 072 040
	807 104 ...	072543 040	072533 040		072513 040

Grinding

Sintered diamond grinding tools FG

FG – Diabolo



Qty.

1	REF	FF 263 023	FF 250 016	FF 141 023	FF 227 023	FF 289 023	FF 263 014
	Description	Bud fine, large	Flame, fine	Cylinder, round head, fine	Inverted cone, fine	Torpedo, fine	Bud fine, small

Qty.

Assortment 6 pieces
FG-Diabolo, fine grit

1	REF	330 0116 6
---	-----	------------

1 piece each
Bud, large
Flame
Cylinder, round head
Inverted cone
Torpedo
Bud, small

FG = 1.6 mm
Shaft diameter



FG adapter 1.6 to 2.35

Qty.

10	REF	340 0100 2
	Ø mm	2.35

airaqua turbine

Qty.

1	REF	110 0146 0
---	-----	------------

airaqua turbine

airaqua turbine is a handy, compact unit with a lightweight handpiece for precise processing of hard materials such as high-performance ceramics (sintered zirconium oxide), press and metal ceramics.

Scope of delivery:

Table unit with filter, controller, manometer, water reservoir and regulators, footswitch, handpiece with rotor, special oil 30 ml and adapter

Technical data:

Speed	300,000 rpm
Energy supply	compressed air
Operating pressure	2.8 – 3.2 bar
Air consumption	40 l/min.
Water reservoir	350 ml
Collet	1.6 mm
Lubrication	manual
Width	approx. 190 mm
Height	approx. 190 mm
Depth	approx. 125 mm



Galvanic coated diamond cutters

Diamond grinding tools



Qty.

1	REF	340 0070 0	340 0071 0	340 0072 0	340 0073 0	340 0074 0	340 0075 0
	Designation / Ø mm	KA 4.0	KA 2.5	KI 2.5	SR 1.0	KF 0.5	KS 2.0



Qty.

1	REF	340 0076 0	340 0077 0	340 0078 0	340 0079 0	340 0080 0	340 0081 0
	Designation / Ø mm	KS 1.5	RU 2.0	RU 1.5	RU 1.0	LZ 2.0	LZ 1.5

Grinding

Galvanic coated diamond cutters

Diacryl Grinding Instruments – for efficient plastic processing!



Qty.

1	REF	340 0103 0				
	Designation	Coarse diamond instrument				
	Ø mm	11				



Qty.

1	REF	340 0104 0	340 0105 0			
	Designation	Universal diamond instrument	Papillae diamond instrument			
	Ø mm	8	5			



Qty.

1	REF	340 0106 0	340 0102 0			
	Designation	Round diamond instrument for peripheries	Round diamond instrument for peripheries			
	Ø mm	6	6			



Qty.

1	REF	340 0090 0				
	Designation	Rubber grinder				
	Ø mm	12				



Qty.

1	REF	340 0107 0
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Assortment 6 pieces
Diacryl Grinding Instruments



Galvanic coated diamond cutters

Special Diamonds for the Veneering Technique



**Diamond Grinding
Tool for Veneering
Techniques**

Qty.

1	REF	340 0084 0	340 0083 0	340 0085 0			
	ISO 806 104 ...	033524 029	000524 032	171524 033			
	Designation	Vb1	Vb2	Vb3			
	Ø mm	3	3	3			



Set-up grinding tool



Qty.



1	REF	340 0101 0					
	Ø mm	6.5					



Grinding

Galvanic coated diamond cutter milling technique

Wax burs


straight cutting edge, parallel, round face

Qty.

1	REF	320 0083 0	320 0084 0	320 0085 0	320 0088 0	320 0087 0
	ISO 330 103 ...	137382 007	137382 010	137382 012	137382 023	
	Ø mm	0.7	1.0	1.2	2.3	



Working speed on wax 5,000 rpm

Assortment 4 pieces, 1 piece each



cross section of cutting edge

Diamond grinding tools






coarse grain, parallel, round face

Qty.

1	REF	340 0083 G	340 0084 G	340 0085 G	340 0086 G	340 0087 G
	ISO 806 103 ...	137534 010	137534 012	137534 015	137534 019	137534 023
	Ø mm	1.0	1.2	1.5	1.9	2.3

Working speed on CrCo/NPM 10,000 - 20,000 rpm

fine grain, parallel, round face

Qty.

1	REF	340 0083 F	340 0084 F	340 0085 F	340 0086 F	340 0087 F
	ISO 806 103 ...	137524 010	137524 012	137524 015	137524 019	137524 023
	Ø mm	1.0	1.2	1.5	1.9	2.3

Working speed on CrCo/NPM 10,000 - 20,000 rpm

Galvanic coated diamond cutter milling technique

Wax burs



straight cutting edge, conical, round face

Qty.

1	REF	320 0080 2	320 0081 4	320 0082 6		320 0086 0
	ISO 330 103 ...	200382 023	200382 031	200382 040		
	conical	2°	4°	6°		

Working speed on wax 5,000 rpm



cross section of cutting edge

Assortment 3 pieces, 1 piece each

Diamond grinding tools



coarse grain, conical, round face

Qty.

1	REF	340 0088 G	340 0089 G	340 0090 G		
	ISO 806 103 ...	200534 023	200534 031	200534 040		
	conical	2°	4°	6°		

Working speed on CrCo/NPM 10,000 - 20,000 rpm



fine grain, conical, round face

Qty.

1	REF	340 0088 F	340 0089 F	340 0090 F		
	ISO 806 103 ...	200524 023	200524 031	200524 040		
	conical	2°	4°	6°		

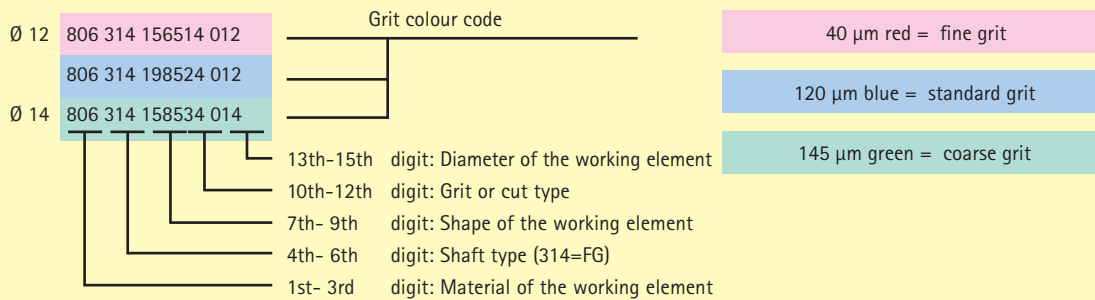
Working speed on CrCo/NPM 10,000 - 20,000 rpm



Grinding

Galvanic coated diamond cutters FG

Grit colour code



bre diamant duplex

The bre-diamant duplex has diamond coating with two different grit sizes: An abrasive natural diamond grit (125 µm) and the fine diamond grit (40 µm) at the instrument tip ensure fast removal of material.



bre diamant eterna

The bre-diamant eterna benefits from a longer cutting force thanks to the multiple layers of natural diamond grains. Particularly suitable for extensive substance removal in prosthetics and the processing of zirconium oxide restorations. Confirmed by user tests!




bre diamant cooler

Target achieved more quickly with less effort

The spiral-shaped diamond coating enables quick and gentle abrasion with optimal removal of the grinding material. Due to its clean cutting, the bre-diamant cooler is perfectly suited for surface structuring of ceramic and zircon.



Galvanic coated diamond cutters FG

bre  diamant duplex



Qty.

5	REF	X 198 NF 12	X 199 NF 12	X 299 NF 18	X 546 NF 16		
	ISO 806 314 ...	198524 012	199524 012	299524 018	546524 016		
	Ø mm	12	12	18	16		
5	REF	X 198 NF 16	X 199 NF 16		X 546 NF 20		
	ISO 806 314 ...	198524 016	199524 016		546524 020		
	Ø mm	16	16		20		

fig. 2:1

40 µm
120 µm
145 µm



Qty.

5	REF	X 141 NF 12	X 288 NF 10	X 289 NF 10	X 290 NF 12		
	ISO 806 314 ...	141524 012	288524 010	289524 010	290524 012		
	Ø mm	12	10	10	12		
5	REF	X 141 NF 16	X 288 NF 12	X 289 NF 12	X 290 NF 14		
	ISO 806 314 ...	141524 016	288524 012	289524 012	290524 014		
	Ø mm	16	12	12	14		
5	REF			X 289 NF 14			
	ISO 806 314 ...			289524 014			
	Ø mm			14			

fig. 2:1



FG adapter 1.6 to 2.35


Qty.

10	REF	340 0100 2	
	Ø mm	2.35	

FG = 1.6 mm
Shaft diameter

Grinding

Galvanic coated diamond cutters FG

bre  diamant **eterna**



Qty.

5	REF	E 140 FF 12	E 141 FF 14	E 156 FF 12	E 158 FF 14	E 172 FF 16	
	ISO 806 314 ...	140514 012	141514 014	156514 012	158514 014	172514 016	
	Ø mm	12	14	12	14	16	
5	REF	E 140 NF 12	E 141 NF 14	E 156 NF 12	E 158 NF 14	E 172 NF 16	
	ISO 806 314 ...	140524 012	141524 014	156524 012	158524 014	172524 016	
	Ø mm	12	14	12	14	16	
5	REF				E 158 CF 14	E 172 CF 16	
	ISO 806 314 ...				158534 014	172534 016	
	Ø mm				14	16	

40 µm

120 µm

145 µm

fig. 2:1



Qty.

5	REF	E 199 FF 12	E 234 NF 12	E 250 FF 12	E 257 FF 20	E 277 FF 23	
	ISO 806 314 ...	199514 012	234524 012	250514 012	257514 020	277514 023	
	Ø mm	12	12	12	20	23	
5	REF	E 199 NF 12	E 234 NF 14	E 250 NF 16	E 257 NF 20	E 277 NF 23	
	ISO 806 314 ...	199524 012	234524 014	250514 016	257524 020	277524 023	
	Ø mm	12	14	16	20	23	
5	REF		E 234 CF 12	E 250 NF 12	E 257 CF 20	E 277 CF 23	
	ISO 806 314 ...		234514 012	250524 012	257534 020	277534 023	
	Ø mm		12	12	20	23	
5	REF		E 234 CF 14	E 250 NF 16			
	ISO 806 314 ...		234514 014	250524 016			
	Ø mm		14	16			
5	REF			E 250 CF 16			
	ISO 806 314 ...			250534 016			
	Ø mm			16			

fig. 2:1




FG adapter 1.6 to 2.35

Qty.

10	REF	340 0100 2	
	Ø mm	2.35	

FG = 1.6 mm
Shaft diameter

Galvanic coated diamond cutters FG

bre  diamant eterna



Qty.

40 µm

120 µm

145 µm

fig. 2:1

5	REF	E 289 FF 12	E 290 FF 14	E 298 FF 14	E 299 FF 12		
	ISO 806 314 ...	289514 012	290514 014	298514 014	299514 012		
	Ø mm	12	14	14	12		
5	REF	E 289 FF 14	E 290 NF 14	E 298 FF 16	E 299 FF 16		
	ISO 806 314 ...	289514 014	290524 014	298514 016	299514 016		
	Ø mm	14	14	16	16		
5	REF	E 289 NF 12	E 290 CF 14	E 298 FF 20	E 299 FF 18		
	ISO 806 314 ...	289524 012	290534 014	298514 020	299514 018		
	Ø mm	12	14	20	18		
5	REF	E 289 NF 14		E 298 FF 22	E 299 NF 12		
	ISO 806 314 ...	289524 014		298514 022	299524 012		
	Ø mm	14		22	12		
5	REF	E 289 CF 12		E 298 NF 14	E 299 NF 16		
	ISO 806 314 ...	289534 012		298524 014	299524 016		
	Ø mm	12		14	16		
5	REF	E 289 CF 14		E 298 NF 16	E 299 NF 18		
	ISO 806 314 ...	289534 014		298524 016	299524 018		
	Ø mm	14		16	18		
5	REF			E 298 NF 20	E 299 CF 16		
	ISO 806 314 ...			298524 020	299534 016		
	Ø mm			20	16		
5	REF			E 298 NF 22	E 299 CF 18		
	ISO 806 314 ...			298524 022	299534 018		
	Ø mm			22	18		
5	REF			E 298 CF 16			
	ISO 806 314 ...			298534 016			
	Ø mm			16			
5	REF			E 298 CF 20			
	ISO 806 314 ...			298534 020			
	Ø mm			20			
5	REF			E 298 CF 22			
	ISO 806 314 ...			298534 022			
	Ø mm			22			

FG adapter 1.6 to 2.35


Qty.

10	REF	340 0100 2	
	Ø mm	2,35	

FG = 1.6 mm
Shaft diameter

Grinding

Galvanic coated diamond cutters FG

bre  diamant cooler



Qty.

5	REF	C 158 NF 14	C 289 NF 14	C 290 NF 14	C 298 NF 20		
	ISO 806 314 ...	158524 014	289524 014	290524 014	298524 020		
	Ø mm	14	14	14	20		
5	REF	C 158 CF 14	C 289 CF 14	C 290 CF 14	C 298 NF 22		
	ISO 806 314 ...	158534 014	289534 014	290534 014	298524 022		
	Ø mm	14	14	14	22		
5	REF				C 298 CF 20		
	ISO 806 314 ...				298534 020		
	Ø mm				20		
5	REF				C 298 CF 22		
	ISO 806 314 ...				298534 022		
	Ø mm				22		

40 µm

120 µm

145 µm

fig. 2:1



FG adapter 1.6 to 2.35

Qty.

10	REF	340 0100 2	
	Ø mm	2,35	

FG = 1.6 mm
Shaft diameter

Polishing



The right finish for every material

bredent

Polishing

Polishing metal

with a handpiece



Hexagonal brushes Chungking, black

Qty.

15	REF	520 0013 0	520 0019 0	
	Ø mm	13	19	



Pen-shaped brushes Chungking, black, 7mm long

Qty.

15	REF	350 0043 0	350 0041 0	
	Ø mm	2	4	



Round brush Chungking, black, double the bristles

Qty.

15	REF	350 0049 0	350 0056 0	350 0050 0
	Ø mm	19	22	25



Round brush Chungking, black

Qty.

15	REF	350 0051 0	350 0052 0	350 0053 0
	Ø mm	19	22	25



Linen buff coated

Qty.

15	REF	350 0091 0		
	Ø mm	22		



Round brush Rodeo

Qty.

15	REF	350 0095 0	350 0096 0	350 0097 0
	Ø mm	15	18	21



Hexagonal brushes Rodeo

Qty.

15	REF	520 0R13 0	520 0R19 0	
	Ø mm	13	19	



Cotton buff

Qty.

15	REF	350 0065 0		
	Ø mm	22		



Linen buff

Qty.

15	REF	350 0067 0		
	Ø mm	22		



Linen buff, felt 3 layers

Qty.

15	REF	350 0064 0		
	Ø mm	22		



Pen-shaped brushes Goat-hair, white, 7 mm long

Qty.

15	REF	350 0044 0	350 0042 0	
	Ø mm	2	4	

Polishing metal

With the motor



Chungking black converging, 4 rows

Qty.

12	REF	350 0033 0		
	Ø mm	80		



Chungking black straight, 4 rows

Qty.

12	REF	350 0072 0	350 0031 0	
	Ø mm	65	80	



Chungking black converging, 1 row

Qty.

12	REF	350 0025 0		
	Ø mm	44		



Chungking black

Qty.

10	REF	350 0048 0	350 0047 0	
	Ø mm	42	48	



Chungking black tapering

Qty.

10	REF	350 0063 0		
	Ø mm	36		



Hexagonal brush Chungking rows

Qty.

10	REF	520 0004 8		
	Ø mm	48		

Polishing

Polishing metal

With the motor



Abraso-Soft Metal				
Qty.				
1	REF	350 0102 1	350 0081 0	
	Ø mm	50	80	



Abraso-Buff Polipast Metal				
Qty.				
1	REF	350 0102 6	350 0086 0	
	Ø mm	50	80	



Abraso-Buff Metal				
Qty.				
1	REF	350 0102 5	350 0079 0	
	Ø mm	50	80	



High Luster Buff Metal, 50 layers				
Qty.				
1	REF	350 0093 0	350 0083 0	
	Ø mm	60	100	



Abraso-Buff Metal Mini				
Qty.				
10	REF	350 0062 0		
	Ø mm	48		

Metal polishing set



Metal polishing set				
Qty.				
1	REF	350 0085 0		
	Contents	1 x 150 g	Abraso-Star K50	low abrasion
		1 x 150 g	Abraso-Star K80	high abrasion
		1 x 500 g	Pumice Polishing Paste	
		1 Stück	Abraso-Soft Metal	
		1 Stück	Abraso-Buff Metal	
		1 Stück	High Luster Buff Metal	
		50 ml	Abraso Star Glaze	

Polishing acrylic

with a handpiece



Hexagonal brushes Goat-hair white

Qty.				
15	REF	520 0014 1	520 0015 1	
∅ mm		13	19	



Cotton buff

Qty.				
15	REF	350 0065 0		
∅ mm		22		



Round brush Goat-hair white double the bristles

Qty.				
15	REF	350 0054 0	350 0055 0	
∅ mm		19	22	



Leather Buff

Qty.				
15	REF	350 0066 0		
∅ mm		22		



Linen buff

Qty.				
15	REF	350 0067 0		
∅ mm		22		



Polishing buff, felt 3 layers

Qty.				
15	REF	350 0064 0		
∅ mm		22		

Polishing

Polishing acrylic

With the motor



Chungking white, 4 rows				
Qty.				
12	REF	350 0074 0	350 0034 0	
Ø mm		65	80	



Abraso-Sil Acrylic				
Qty.				
1	REF	350 0102 2	350 0099 3	
Ø mm		50	80	



Chungking white, 3 rows				
Qty.				
12	REF	350 0075 0	350 0030 0	
Ø mm		60	70	



Abraso-Buff Acrylic				
Qty.				
1	REF	350 0102 4	350 0078 0	
Ø mm		50	80	



Chungking white, 2 rows				
Qty.				
12	REF	350 0027 0		
Ø mm		50		



Prepolishing Buff				
Qty.				
1	REF	350 0098 0	350 0099 1	
Ø mm		60	80	



Chungking white, 1 row				
Qty.				
12	REF	350 0102 3	350 0024 0	
Ø mm		24	44	



Abraso-Soft Acrylic				
Qty.				
1	REF	350 0102 0	350 0080 0	
Ø mm		50	80	



Mandrel for polishing brush				
Qty.				
1	REF	360 0116 8		



Leather Buff				
Qty.				
1	REF	350 0099 0	350 0036 0	350 0035 0
Ø mm		60	80	100



Goat-hair, metal core				
Qty.				
10	REF	350 0061 0		
Ø mm		48		



High Luster Buff Acrylic				
Qty.				
1	REF	350 0094 0	350 0082 0	
		40 layers	35 layers	
Ø mm		60	100	

Polishing acrylic

Polishing acrylic set



Polishing acrylic set

Qty.

1	REF	350 0084 0
Content	1 x 150 g	Abraso-Star K50 low abrasive
	1 x 500 g	Pumice polishing paste
	1 Stück	Abraso-Soft Acryl
	1 Stück	Abraso-Buff Acrylic
	1 Stück	High Luster Buff Acrylic

Abraso-Gum – Acrylic



Acrylic polisher, coarse green

Qty.

1	REF	P 243 HG 10
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Acrylic polisher, medium grey

Qty.

1	REF	P 243 HM 10
---	-----	-------------



Acrylic polisher, fine red

Qty.

1	REF	P 243 HF 10
---	-----	-------------



Acrylic finishing set

Qty.

1	REF	350 0099 2
Content	1 Diatit-HM bur REF D 263 KG 60	
	1 Diatit-HM bur REF D 200 KF 23	
	1 Acrylic polisher coarse green	
	1 Acrylic polisher medium grey	
	1 Acrylic polisher fine red	

Universal polishing

Abraso-Fix



Pen-shaped brushes green - coarse				
Qty.				
2	REF	350 0075 7		
8	REF	350 0076 2		
Ø mm		4		



Round brush green - coarse				
Qty.				
2	REF	350 0059 0		
8	REF	350 0075 5		
Ø mm		22		



Pen-shaped brushes blue - normal				
Qty.				
2	REF	350 0075 6		
8	REF	350 0076 1		
Ø mm		4		



Round brush blue - normal				
Qty.				
2	REF	350 0057 0		
8	REF	350 0075 4		
Ø mm		22		



Pen-shaped brushes red - fine				
Qty.				
2	REF	350 0046 0		
8	REF	350 0076 0		
Ø mm		4		



Round brush red - fine				
Qty.				
2	REF	350 0060 0		
8	REF	350 0075 3		
Ø mm		22		



Pen-shaped brushes yellow - extra fine				
Qty.				
2	REF	350 0045 0		
8	REF	350 0075 9		
Ø mm		4		



Round brush yellow - extra fine				
Qty.				
2	REF	350 0058 0		
8	REF	350 0075 2		
Ø mm		22		



Pen-shaped brushes yellow - extra fine				
Qty.				
2	REF	350 0077 0		
8	REF	350 0070 0		
Ø mm		2		



Assortment Round brush, 4 pieces				
Qty.				
1	REF	350 0075 1		
Content		1 piece each: extra fine, fine, regular, coarse		

Assortment Pen-shaped brushes, 4 pieces				
Qty.				
1	REF	350 0075 8		
Content		1 piece each: extra fine, fine, regular, coarse		

Universal polishing

Abraso-Gum with quick chuck



PM rubber polishing, red			
Qty.			
100	REF	520 0010 0	



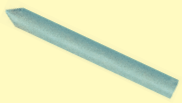
NPM rubber polishing, black			
Qty.			
100	REF	520 0014 0	



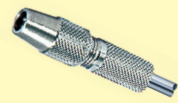
PM prepolishing, blue			
Qty.			
100	REF	520 0011 0	



NPM high luster, brown			
Qty.			
100	REF	520 0015 0	



PM high luster, green			
Qty.			
100	REF	520 0012 0	



NPM Quick chuck			
Qty.			
1	REF	350 0023 0	

Polishing

Precious metal polishing

Precious metal polishing



Aurogum, coarse

Qty.		Cylinder	Lens	Wheel
12	REF	PWE G061 2	PLE G221 2	PRE G221 2
50	REF	PWE G065 0	PLE G225 0	PRE G225 0
100	REF	PWE G060 0	PLE G220 0	PRE G220 0
	mm	19 x Ø 6 mm	4 x Ø 22 mm	4 x Ø 22 mm
	ISO 638 900 ...	114522 060	303522 220	372522 220

Aurogum, fine

Qty.		Cylinder	Lens	Wheel
12	REF	PWE F061 2	PLE F221 2	PRE F221 2
50	REF	PWE F065 0	PLE F225 0	PRE F225 0
100	REF	PWE F060 0	PLE F220 0	PRE F220 0
	mm	19 x Ø 6 mm	4 x Ø 22 mm	4 x Ø 22 mm
	ISO 638 900 ...	114522 060	303522 220	372522 220



Spiral mandrel

Qty.				
6	REF	360 0116 7		
	ISO 312 104 ...	610415 050		



Quick mandrel Size 2

Qty.				
10	REF	360 0115 3		
	ISO 330 104 ...	606050 050		



Screwable mandrel

Qty.				
10	REF	340 0066 0		
	Ø mm	2.35		

Cotton mandrel



Cotton mandrel

Qty.				
2	REF	360 0126 9		
	Ø mm	2.35		

Ceramic polishing

Ceramic Polishing Ceragum



Ceragum, coarse

Qty.		Cylinder	Lens	Wheel
12	REF	PWK G061 2	PLK G221 2	PRK G221 2
50	REF	PWK G065 0	PLK G225 0	PRK G225 0
100	REF	PWK G060 0	PLK G220 0	PRK G220 0
	mm	19 x Ø 6 mm	4 x Ø 22 mm	4 x Ø 22 mm
	ISO 658 900 ...	114532 060	303532 220	372532 220



Ceragum, mittel

Qty.		Cylinder	Lens	Wheel
12	REF	PWK M061 2	PLK M221 2	PRK M221 2
50	REF	PWK M065 0	PLK M225 0	PRK M225 0
100	REF	PWK M060 0	PLK M220 0	PRK M220 0
	mm	19 x Ø 6 mm	4 x Ø 22 mm	4 x Ø 22 mm
	ISO 658 900 ...	114522 060	303522 220	372522 220



Ceragum, fine

Qty.		Walze	Linse	Wheel
12	REF	PWK F061 2	PLK F221 2	PRK F221 2
50	REF	PWK F065 0	PLK F225 0	PRK F225 0
100	REF	PWK F060 0	PLK F220 0	PRK F220 0
	mm	19 x Ø 6 mm	4 x Ø 22 mm	4 x Ø 22 mm
	ISO 658 900 ...	114502 060	303502 220	372502 220



Spiral mandrel

Qty.				
6	REF	360 0116 7		
	ISO 312 104 ...	610415 050		



Quick mandrel Size 2

Qty.				
10	REF	360 0115 3		
	ISO 330 104 ...	606050 050		



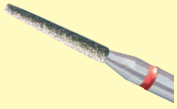
Screwable mandrel

Qty.				
10	REF	340 0066 0		
	Ø mm	2.35		

Polishing

Polishing ceramic

Polishing ceramic breCAM



Diamond grinding fine			
Qty.			
1	REF	340 0107 1	



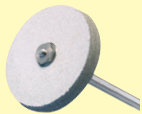
Tungsten carbide			
Qty.			
1	REF	H010 NH 12	



Round brush green - coarse			
Qty.			
2	REF	350 0059 0	
8	REF	350 0075 5	
	Ø mm	22	



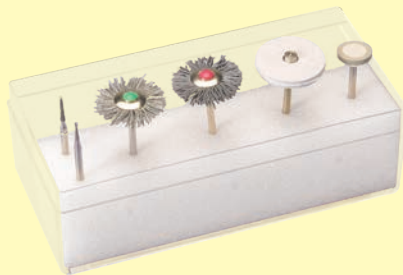
Round brush ret - fine			
Qty.			
2	REF	350 0060 0	
8	REF	350 0075 3	
	Ø mm	22	



Ceragum coarse, wheel not mounted			
Qty.			
12	REF	PRK G221 2	
50	REF	PRK G225 0	
100	REF	PRK G220 0	



Cerafine, wheel			
Qty.			
1	REF	520 2028 5	



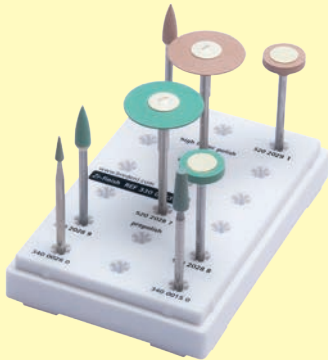
breCeram processing set for ceramics 6 pieces			
Qty.			
1	REF	520 2028 6	
Content	1 diamond grinder fine 1 Tungsten carbide 1.2 1 Abraso-Fix green 1 Abraso-Fix ret 1 Ceragum coarse, wheel 1 Cerafine, wheel		



Felt wheels, not mounted			
Qty.			
100	REF	350 0071 0	
	Ø mm	12	

Zirconium polishing

Zirconium polishing set



The two-stage polishing set for zirconium quickly gives a perfect high gloss. In combination with the tried and tested Diagen-Turbo-Grinder, the preparation of zirconium constructions is made easy.

Zi-finish Zirconium polishing set, 8-part

Qty.

1	REF	330 0083 6		
	Content	1 lens, pre-polish 1 wheel, pre-polish 1 conical tip, pre-polish 1 lens, high-gloss 1 wheel, high-gloss 1 conical tip, high-gloss 1 conical Diagen-Turbo-Grinder 1 conical Diagen-Turbo-Grinder tip		

Refill packs

Qty.

	REF			
1	520 2028 7	Lens, pre-polish REF 520 2028 7		
2	520 2028 8	Wheel, pre-polish REF 520 2028 8		
2	520 2028 9	Conical tip, pre-polish REF 520 2028 9		
1	520 2029 0	Lens, high-gloss REF 520 2029 0		
2	520 2029 1	Wheel, high-gloss REF 520 2029 1		
2	520 2029 2	Conical tip, high-gloss REF 520 2029 2		
2	340 0015 0	Conical Diagen-Turbo-Grinder		
2	340 0026 0	Conical Diagen-Turbo-Grinder tip		

Polishing

Polishing pastes

Metal polishing



Abraso-Star K80 high abrasion

Qty.			
1	REF	520 0016 2	
	g	320	



Brepol

Qty.			
1	REF	540 0103 7	
	g	50	



Titapol-Polishing paste

Qty.			
1	REF	520 0015 3	520 0015 4
	g	150	350

Metal and acrylic polishing pastes



Pumice polishing paste for acrylic and metal polishing

Qty.			
1	REF	REF 520 0016 0	
	g	3 x 500 g-Riegel	



Abraso-Star K50 low abrasion

Qty.			
1	REF	520 0016 1	
	g	320	



Abraso Star Glaze High Luster Polishing

Qty.			
1	REF	520 0016 3	
	ml	2 x 50	

Acrylic polishing paste



Acrypol High Luster Paste for facing acrylics

Qty.			
1	REF	520 0017 0	
	g	170	

Ceramic polishing paste



Diamond Polishing Paste

Qty.			
1	REF	540 0014 0	
	g	5	

Zirconia polishing paste



Zi-polish

Qty.			
1	REF	360 1002 5	
	g	5	

Instruments / Cleaning

Instruments



Pollygrip Crown holder				
Qty.		wide	narrow	
1	REF	360 0100 0	360 0099 0	



Crown holder, wide				
Qty.				
1	REF	360 0098 0		

Replacement parts: Special rubber sleeves				
Qty.				
100	REF	360 0096 0		



Crown holder, narrow				
Qty.				
1	REF	360 0097 0		

Cleaning



Dentaclean mixing fluid for pumice powder				
Qty.				
1	REF	520 0099 9		
	ml	1000		
1	REF	520 0099 8		
	ml	5000		



Dentaclean impression and denture disinfectant				
Qty.				
1	REF	520 0100 6		
	ml	1000		
25	pieces	Shipping bags		



Dentaclean denture cleaning agent				
Qty.				
1	REF	520 0099 2		
	ml	1000		



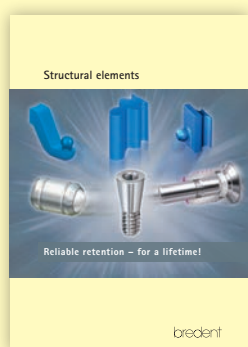
Dentaclean ultrasonic cleaning agent				
Qty.				
1	REF	520 0099 7		
	ml	1000		

Rotating instruments

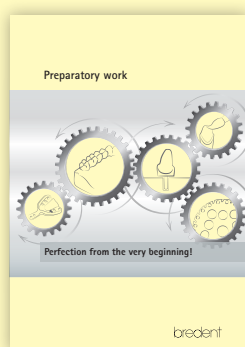
Optimal in all disciplines



Other offers that may be of interest to you



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