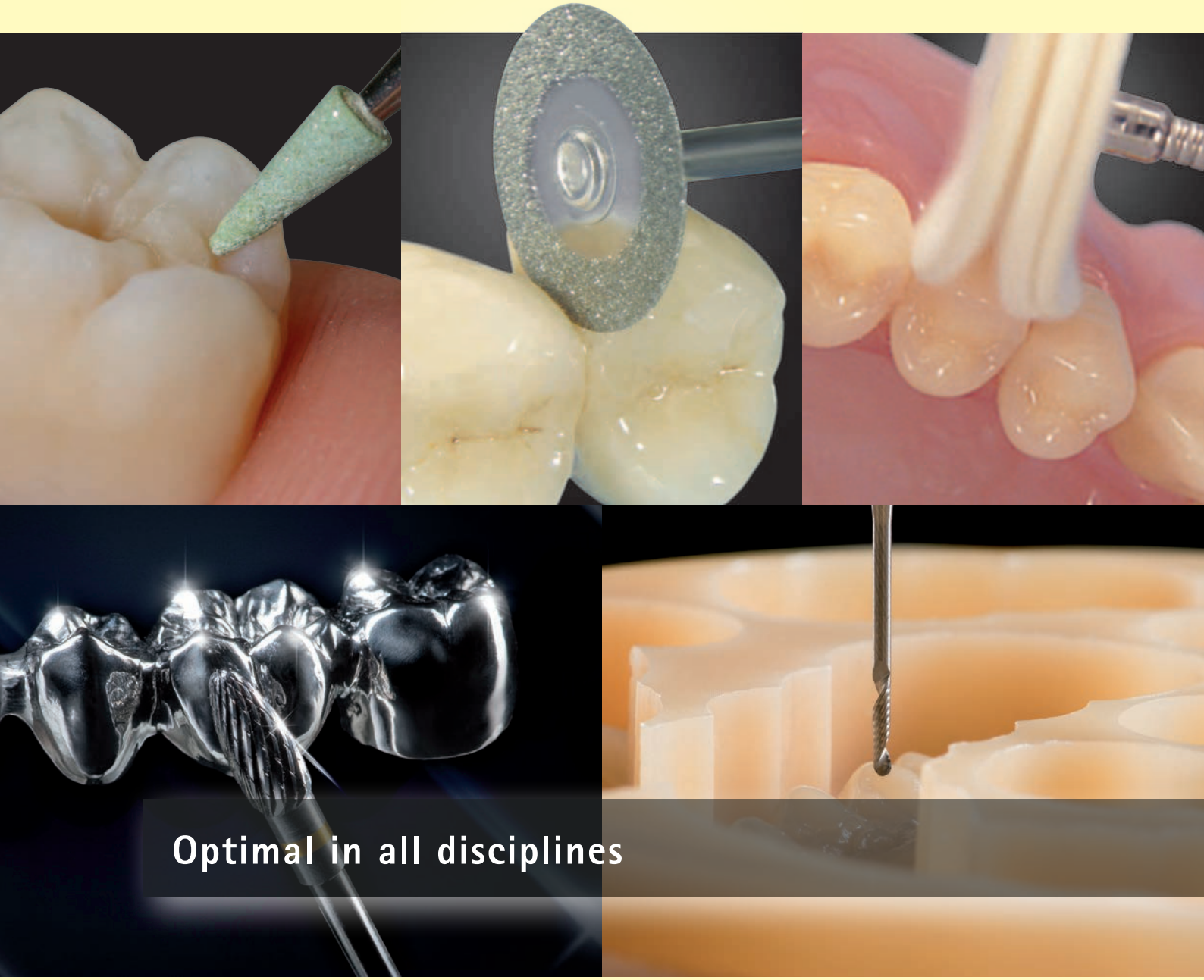
# Rotating instruments



## 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 < 2N 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**

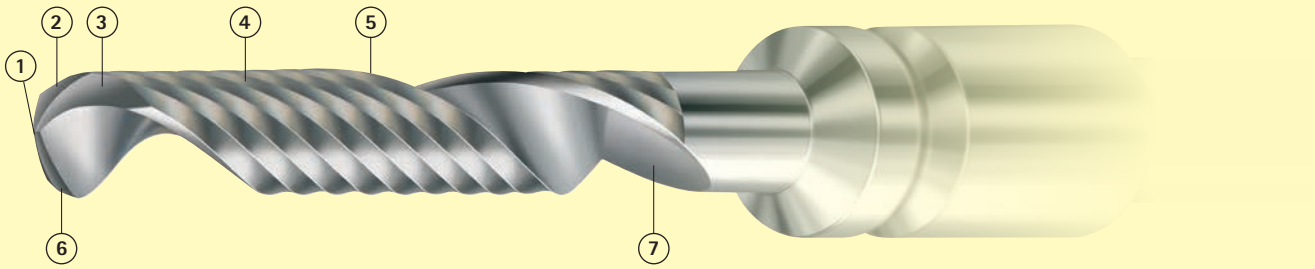
# Content

# 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. Side clearance that starts at the pull to optimise chip removal along the z-axis (immersion in the material)
4. Multiple rear reliefs to reduce heat generation
5. Tapered, sharp cutting edge cutting for precise heat-reduced cutting
6. Radial geometry shaping area, on one side to define the radius of the milling result
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 breCAM.cutter has been specially developed for dry machining of thermoplastic materials (PMMA / PEEK / Wax) in CNC milling machines.

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.

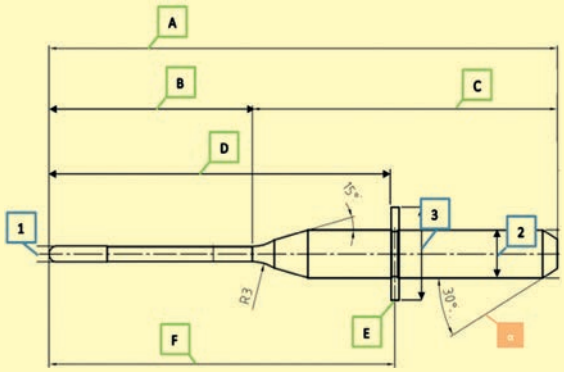
Wet machining
PMMA/Composite

Dry machining
Thermoplastic/cutter

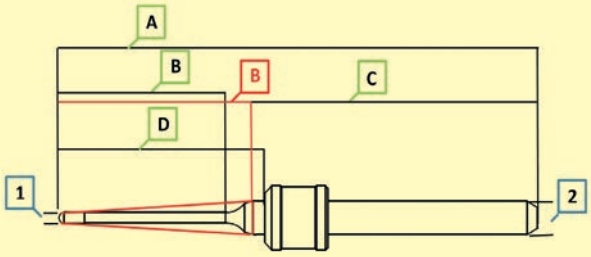
# breCAM.cutter

## Tool

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

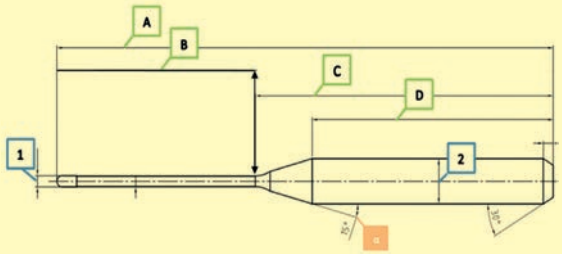



| | | 1 | 2 | 3 | A | B | C | D | E |
|---|---|---|---|---|---|---|---|---|---|
| imes.icore | breCAMX47 | 1 | 3 | X | 38,2 | 17 | 21 | 26,7 | X |
| zenotec | breCAMX48 | 2 | 3 | X | 38,2 | 20 | 18 | 26,7 | X |

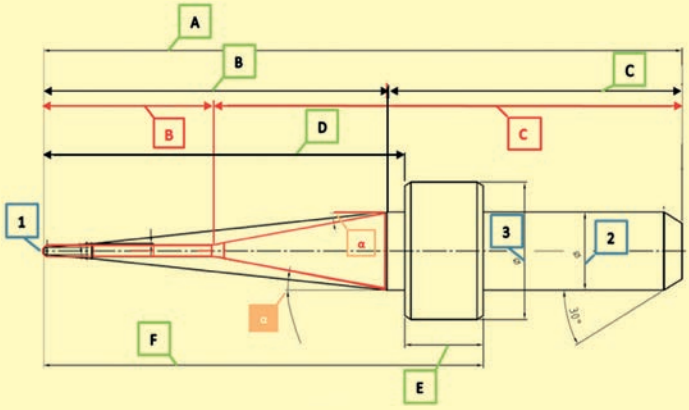



| | | 1 | 2 | A | B | B | C | D |
|---|---|---|---|---|---|---|---|---|
| Amann Girrbach | breCAMY28 | 0,6 | 3 | 47 | X | 18.3 | X | 20,2 |
| | breCAMY32 | 1 | 3 | 47 | 16,4 | X | 28 | 20,2 |
| | breCAMY31 | 2,5 | 3 | 47 | 17,9 | X | 28 | 20,2 |

| | | 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 |



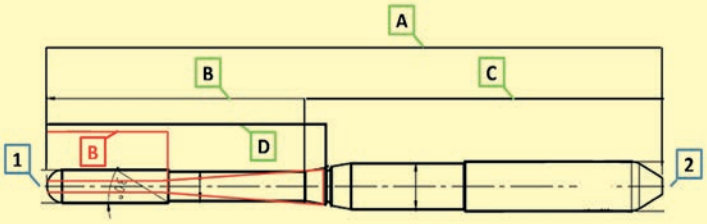

| | | 1 | 2 | A | B | C | D |
|---|---|---|---|---|---|---|---|
| ROLAND | breCAMX53 | 1 | 4 | 50 | 17 | 33 | 30,6 |
| | breCAMX54 | 2 | 4 | 50 | 20 | 30 | 27,7 |



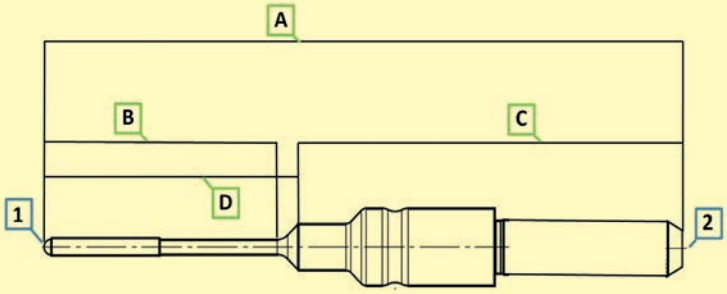

| | | 1 | 2 | 3 | A | B | B | C | C | D | E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| coritec | breCAMY55 | 0,6 | 6 | 10,5 | 45 | 20,5 | 8.5 | 36.5 | 24.5 | 21,5 | 6,5 |
| | breCAMY57 | 1 | 6 | 10,5 | 45 | | 12 | 33 | 24.5 | 21,5 | 6,5 |
| | breCAMY34 | 2,5 | 6 | 10,5 | 45 | 20,5 | 12 | 33 | 24.5 | 21,5 | 6,5 |

## breCAM.cutter

### Tool




| | | 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 |

# breCAM.cutter

## Templates

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

| | | breCAM. wax | breCAM. splint | breCAM. monoCOM | breCAM. multiCOM | breCAM. HIPC | breCAM. BioHPP |
|---|---|---|---|---|---|---|---|
|  Feed (mm/sec) | Ø 2 mm | 20 | 15 | 15 | 15 | 15 | 15 |
| | ≤ Ø 1 mm | 19 | 22 | 22 | 22 | 22 | 22 |
|  Lateral feed (mm/sec) | ≥ Ø 2 mm | 11 | 7 | 7 | 7 | 7 | 7 |
| | ≤ Ø 1 mm | 11 | 11 | 11 | 11 | 11 | 8 |
|  Rotational speed (RMP) | ≥ Ø 2 mm | 16.000 | 19.000 | 19.000 | 19.000 | 19.000 | 18.000 |
| | ≤ Ø 1 mm | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 20.000 |
|  Delivery Z (mm) | ≥ Ø 2 mm | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,40 |
|  Offset (mm) | ≥ Ø 2 mm | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 |
| | ≤ Ø 1 mm | 0 | 0 | 0 | 0 | 0,5 | 0 |
|  Path intersection (%) | ≥ Ø 2 mm | 50 % | 50 % | 50 % | 50 % | 50 % | 50 % |
|  Path distance (mm) | ≥ Ø 1 mm | 0,075 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 |

# breCAM.cutter $Z_R$

## Tool

### 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 ZR, 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 ZR for processing zirconium oxide"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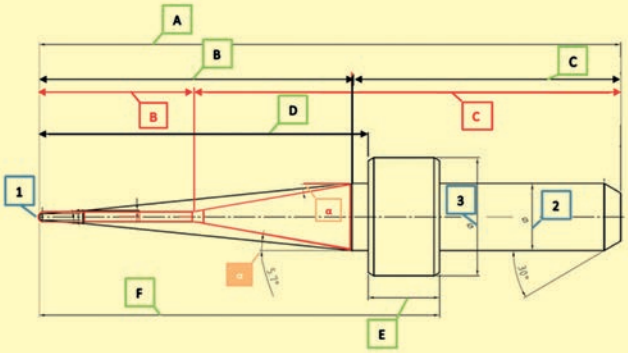
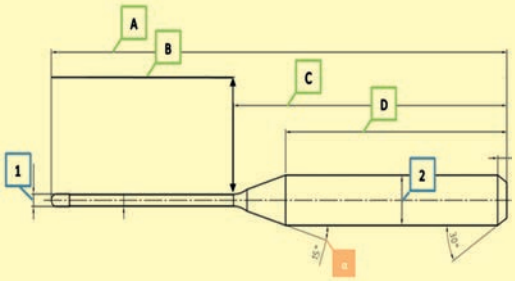
## Tool

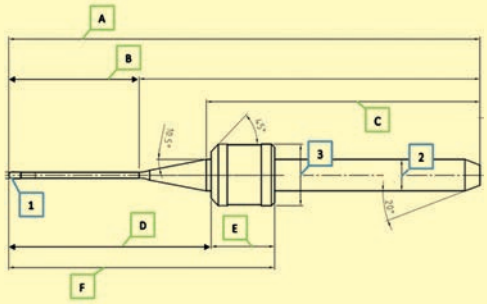
| d1 | d2 | | l1 | l2 | | cone (ϕ) | |
|---|---|---|---|---|---|---|---|
| | [mm] | [mm] | | [mm] | [mm] | | [°] |



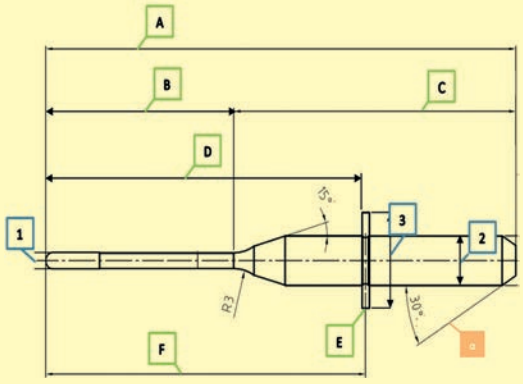

| | 1 | 2 | 3 | A | B | C | D | E | F | |
|---|---|---|---|---|---|---|---|---|---|---|
| imes.icore | | | | | | | | | | |
| IMI3006X | 0,6 | 3 | 7,5 | 48 | 21,6 | 26,4 | 26,4 | 4,55 | 31 | 3,2 |
| IMI3010D | 1 | 3 | 7,5 | 48 | 14 | 34 | 26.4 | 4,55 | 31 | |
| IMI3025D | 2,5 | 3 | 7,5 | 48 | 20 | 28 | 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 |




| | 1 | 2 | 3 | A | B | C | D | E | F | |
|---|---|---|---|---|---|---|---|---|---|---|
| Roland | | | | | | | | | | |
| 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 |




| | 1 | 2 | 3 | A | B | C | D | E | F | |
|---|---|---|---|---|---|---|---|---|---|---|
| Amann Girrbach | | | | | | | | | | |
| 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 |




| | 1 | 2 | 3 | A | B | C | D | E | F | |
|---|---|---|---|---|---|---|---|---|---|---|
| vhf | | | | | | | | | | |
| 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 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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

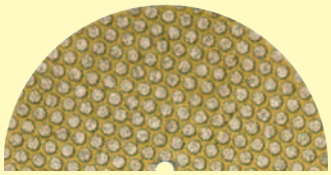
# Flexible abrasive discs

## 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

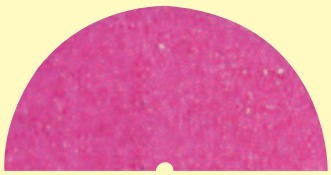
| Qty. | | | |
|---|---|---|---|
| 2 | REF | 340 0066 3 | With mandrel |
| 10 | REF | 340 0066 4 | |
| | Ø mm | 20 | |

## 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!

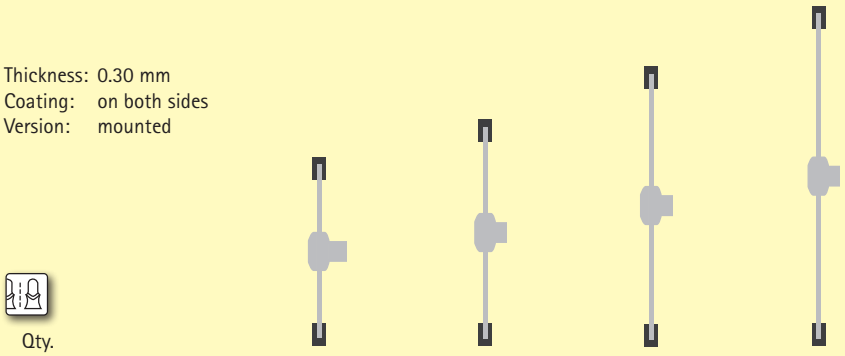
# Galvanic coated diamond washers

**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.

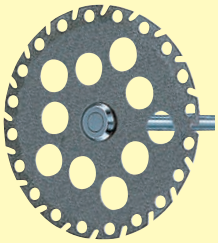
## Giflex-TR

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 |

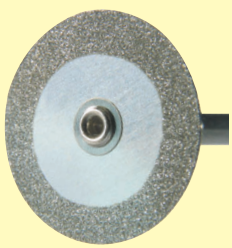
## Giflex-TR Master x-tray



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 |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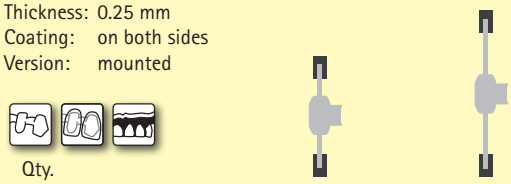
# Galvanic coated diamond washers

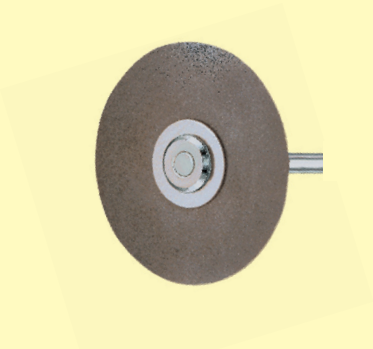
## Ceraflex

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

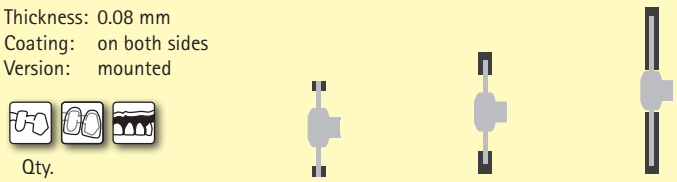


| Qty. | | | | | |
|---|---|---|---|---|---|
| 1 | REF | **340 0013 0** | **340 0003 0** | | |
| | Ø mm | 16 | 22 | | |

## Microflex

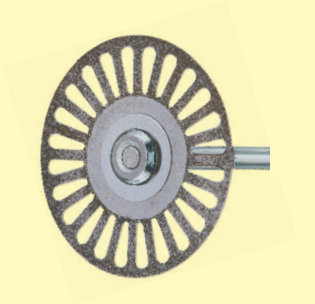


Thickness: 0.08 mm
Coating: on both sides
Version: mounted



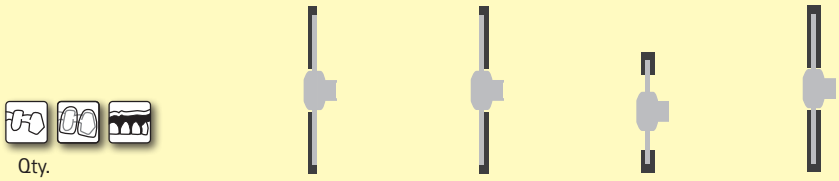
| Qty. | | | | | |
|---|---|---|---|---|---|
| 1 | REF | **340 0014 2** | **340 0014 1** | **340 0014 0** | |
| | Ø mm | 12 | 16 | 22 | |

## Transflex-T



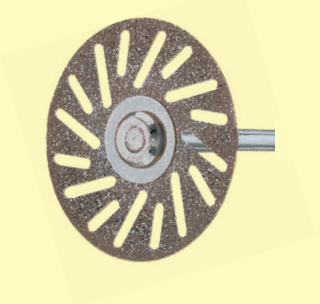
Thickness:
Coating:
Version:

| | 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 |
|---|---|---|---|---|



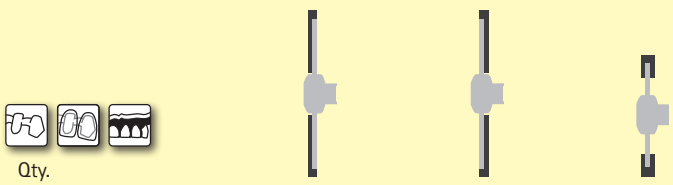
| Qty. | | | | | |
|---|---|---|---|---|---|
| 1 | REF | **340 0008 0** | **340 0009 0** | **340 0010 0** | **340 0007 0** |
| | Ø mm | 22 | 22 | 16 | 22 |

## Transflex



Thickness:
Coating:
Version:

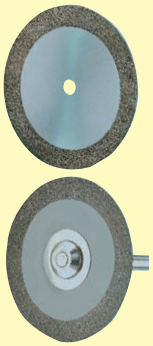
| | 0.20 mm on one side outer coating | 0.20 mm on one side inner coating | 0.25 mm on both sides mounted |
|---|---|---|---|



| Qty. | | | | | |
|---|---|---|---|---|---|
| 1 | REF | **340 0005 0** | **340 0006 0** | **340 0004 0** | |
| | Ø mm | 22 | 22 | 22 | |

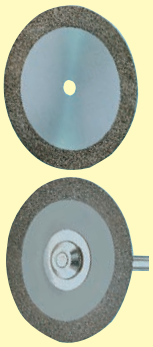
# Galvanic coated diamond washers

## Ultraflex



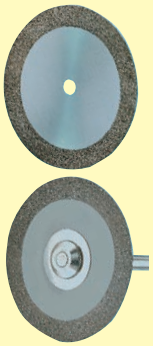
| Thickness: | 0.15 mm | 0.15 mm | 0.15 mm | |
|---|---|---|---|---|
| Coating: | on both sides | on both sides | on both sides | |
| Version: | non-mounted | mounted | mounted | |
| Qty. | | | | |
| 1 REF | **340 0027 8** | **340 0050 0** | **340 0062 0** | |
| Ø mm | 22 | 19 | 22 | |

## Superflex



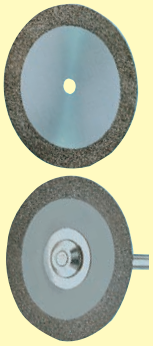
| Thickness: | 0.20 mm | 0.20 mm | 0.20 mm | |
|---|---|---|---|---|
| Coating: | on both sides | on both sides | on both sides | |
| Version: | non-mounted | mounted | mounted | |
| Qty. | | | | |
| 1 REF | **340 0028 0** | **340 0051 0** | **340 0063 0** | |
| Ø mm | 19 | 19 | 22 | |

## Flexibel



| Thickness: | 0.23 mm | 0.23 mm | 0.23 mm | 0.23 mm |
|---|---|---|---|---|
| Coating: | on both sides | on both sides | on both sides | on both sides |
| Version: | non-mounted | non-mounted | mounted | 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 | 0.25 mm | 0.25 mm | 0.25 mm |
|---|---|---|---|---|
| Coating: | on both sides | on both sides | on both sides | on both sides |
| Version: | non-mounted | non-mounted | mounted | mounted |
| Qty. | | | | |
| 1 REF | **340 0032 0** | **340 0033 0** | **340 0053 0** | **340 0065 0** |
| Ø mm | 19 | 22 | 19 | 22 |

# Milling

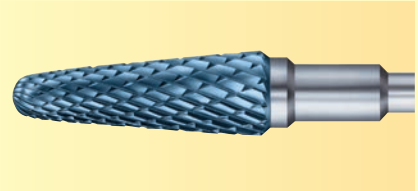
**The highest level of quality for high stress Carbide tools**

bredent

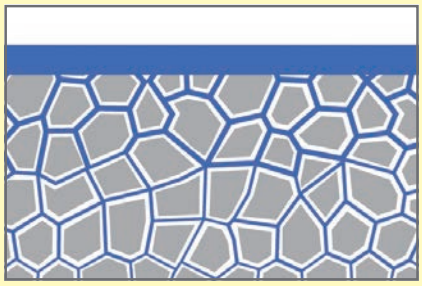
## The performance-optimized surface finish

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.

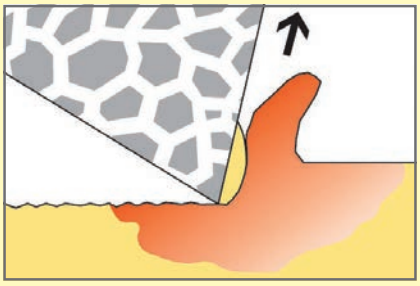
## Diatit wear protection – Smooth running from the very beginning



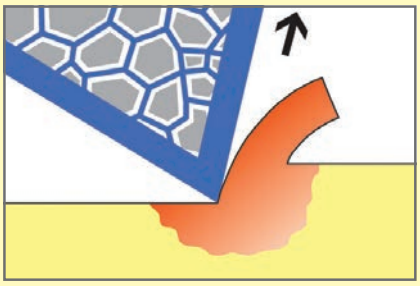
Diatit tools feature particular wear protection: Diatit. This is a special material that is added into the surface of the bur after it has been produced. It hardens the tool surface and reduces the surface friction.
This comprehensive hardening process results in a tool which features vibration-free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

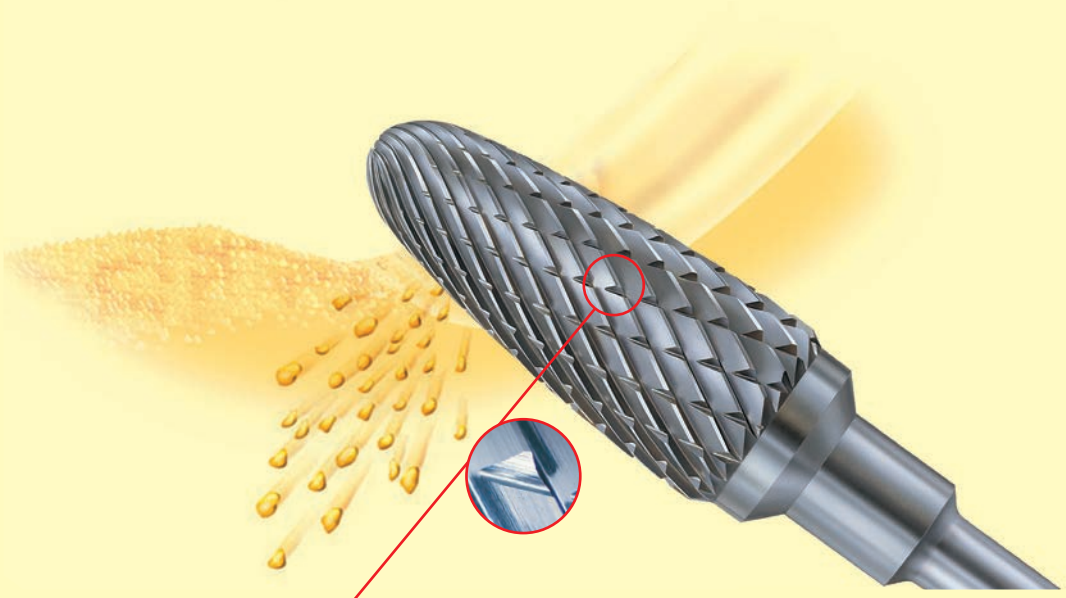


**bredent tool with Diatit wear protection.**
The surface of the tool is smoothened so that the friction is reduced. The swarf comes off the tools more easily. This results in smoother running of the tool.

# The perfected edge cutting support

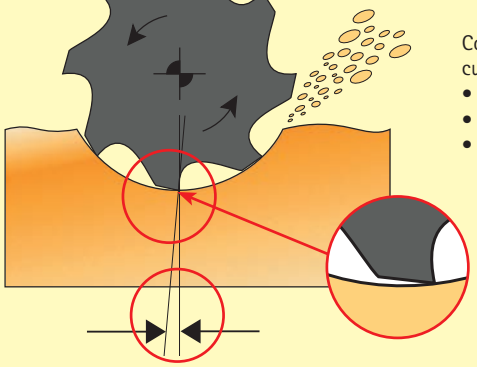
During surface processing with a conventional tool, additional breakages occur once the edge is broken initially, until the bur can no longer be used. The unique relief serration supports and stabilises the cutting edges. Breaking of the edges is almost impossible as a result.

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



bredent tool with relief

Cutting edge with relief:
A wider edge support provides a longer service life



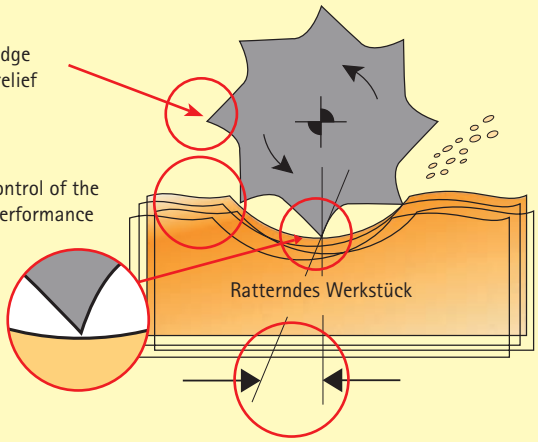
Controlled penetration of the cutting edge into material
- for chatter-free working
- produces smooth surfaces
- protects the wrist

Optimised machining angle for enhanced cutting performance

For comparison:
a conventional bredent tool

Cutting edge without relief

Harder control of the cutting performance




Conventional bredent machining angle

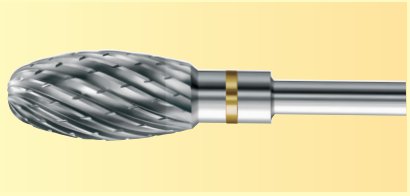
Further development of relief serration technology for high-performance polymers (BioHPP) enables optimised surface processing.

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

## A wide range for a high degree of flexibility

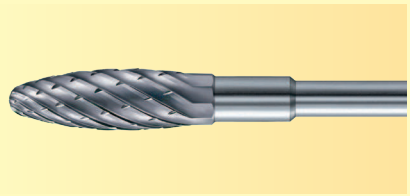
Users can choose from over 100 burs for the hand piece and over 80 burs for the milling technique using 2.35 and 3.0 mm shaft diameters for every area of processing. The various shapes and serrations are manufactured according to the uses and divergent surface qualities. A suitably high degree of flexibility is guaranteed thanks to the large range of burs.

## Generation M – the progressive bur concept



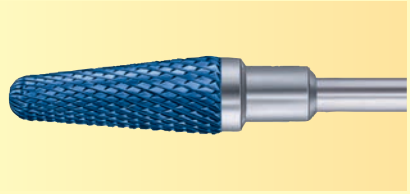
The „Generation M" burs increased service life due to the significant clearance angle of the relief serration and consequently reduce further purchase. Due to the broad support of the edges, breaks are prevented and a high level of cutting performance is possible. The workpiece that is to be processed therefore retains a smooth surface and reduces the need for subsequent complex polishing work.

## Relief burs



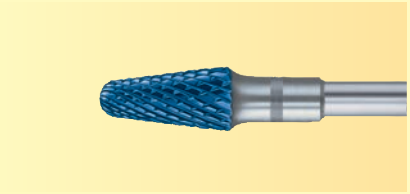
Supported cutting increases the bur's service life and therefore provides a longer life span. Simultaneously improved surface quality on the workpiece as a result of the relief serration provides a reduction in polishing and therefore facilitates time-saving methods. Very quiet running of the bur permits vibration-free working and therefore protects the dental technician's wrist and subsequently the handpiece.

## Diatit burs



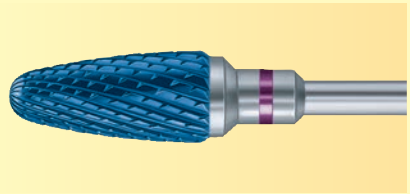
The special coating in the work area increases the hardness of the carbide to 3700 HV. Due to the diffusion of the coating, the finish is not only achieved on the surface, it also penetrates. As a result, the stability of the carbide is significantly improved and the service life for cost-effective application is increased.

## Diatit titanium burs



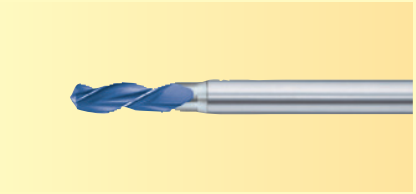
The diatit titanium burs have a special cross cut, which enlarges the chip space and therefore reduces friction when titanium processing. Overheating of the titanium is thereby avoided. These tried-and-tested tools achieve rational and careful removal of material and a simultaneously smooth surface.

## Diatit Power burs



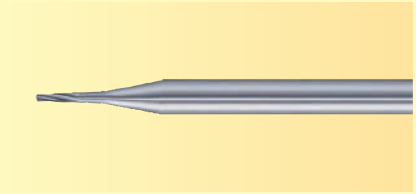
The ease of processing of cobalt-chrome alloys is improved using the Diatit Power bur, thanks to its specially-designed serration. The metal chips produced during this processing cause fewer skin irritations as they are larger and possess a coarse structure.

## Diatit-Multidrill



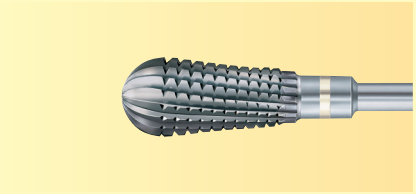
Accurate drill holes are created using the triple-edged multidrill. Thanks to the coating, the dimension of the drill size remains well retained meaning an excellent fit is achieved. Twelve different sizes provide a wide area of application.

## Microbur



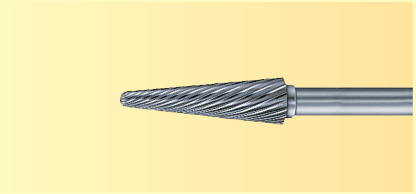
The special shape of the tip of the smallest fissure tool in the world, with a diameter of only 0.2 mm for the processing of aesthetically-designed chewing surfaces, enables inaccessible areas of cusp slopes to be smoothed and facilitates polishing. Can also be used for ceramic.

## 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

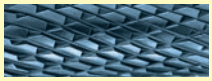
- for the processing of precious metals, non-precious metals, plastic and ceramics, where necessary
- good removal of material, very smooth workpiece surface, low vibration running protects the wrist of the technician and the drive
- relief: wider, more stable cutting edge for extended service life,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

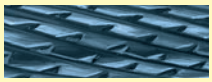
**SH:**
Super coarse serration
with relief

- 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



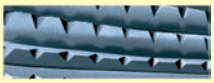
**KF:**
Cross-cut serration
Fine

- 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

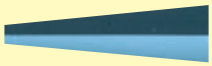
- especially for the processing of silicones
- very efficient and accurate removal of soft materials

**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

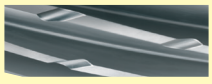
- to perform cuts in plastic or shellac plates
- very economic cutting of plates
- single, straight cutting edges

**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

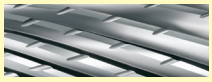


**M8:**
Extra super coarse
serration

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

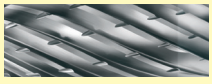
**M7:**
Super coarse serration

- 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

Pictures in scale 1: 5

# 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 protection[1]
**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 Ø 2.35 mm, 34.0 mm
**104** = handpiece Ø 2.35 mm, 44.5 mm
**123** = handpiece thick short 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

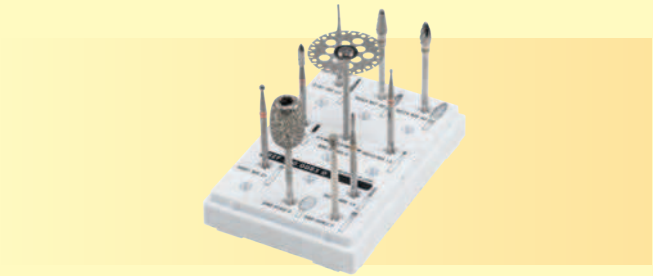
### The plastic technique

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

# The plastic technique

## – a suitable bur for every occasion

## The plastic technique

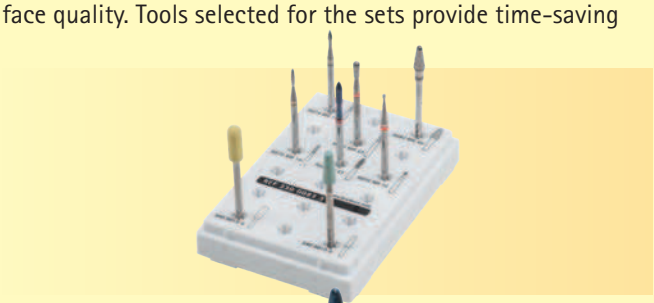
### Prosthetics

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

## Metal processing

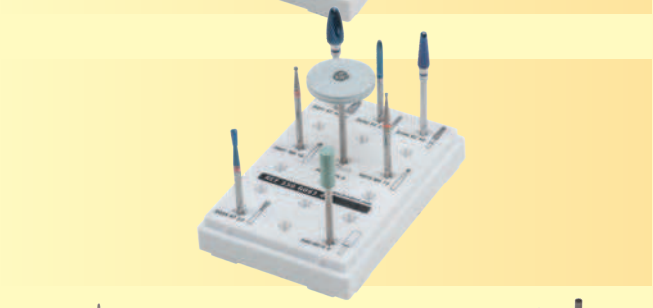
The different alloys require different tools due to the surface quality. Tools selected for the sets provide time-saving processing and reduce the unnecessary choosing of different shapes.



### Crown and bridge technology

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

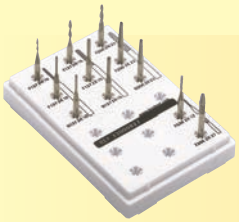
8-piece set
REF 330 0083 3



### Model casting technique

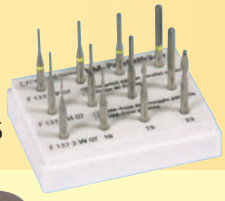
The elaborate cutting geometry of the KC bur has been developed for the processing of hard alloys. These tools are used for rapid and surface-optimised processing.

8-piece set
REF 330 0083 4



Combination set
11 pieces
REF 330 0082 7

Parallel straight
12 pieces
REF 330 0082 4



Parallel round
12 pieces
REF 330 0082 5

### 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.

13-piece set
REF 350 0089 0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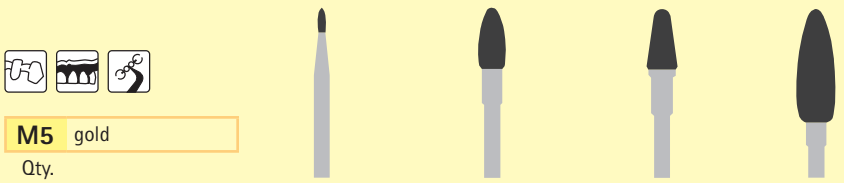
# Burs for the handpiece

## 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

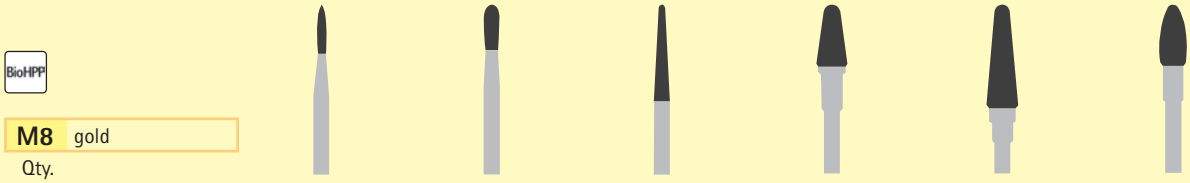
Qty.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 | | | |



**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 |

**M8** gold

Qty.

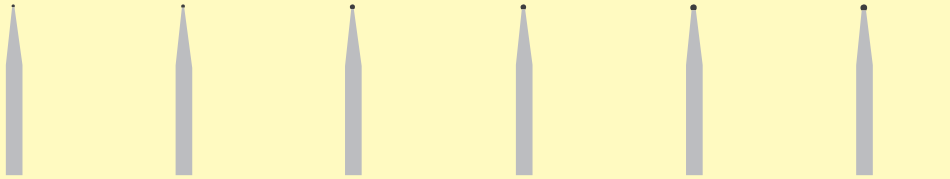
| | | |
|---|---|---|
| 1 | REF | **H274 M8 60** |
| | ISO 500 104 ... | 274220 060 |
| | Length mm | 15.0 |

# Burs for the handpiece

## Relief burs

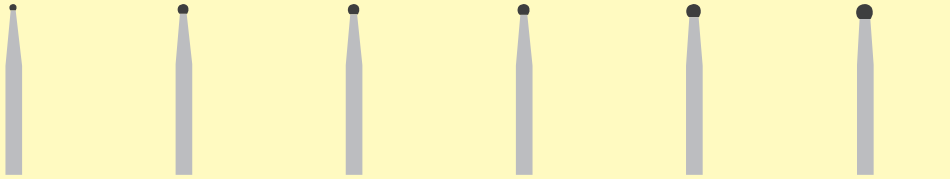
### Rapidy-Microbur

**NH** orange



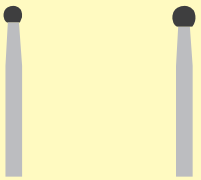
| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | **H001 NH 04** | **H001 NH 05** | **H001 NH 06** | **H001 NH 07** | **H001 NH 08** | **H001 NH 09** |
| 5 | REF | **330 0050 4** | **330 0050 5** | **330 0050 6** | **330 0050 7** | **330 0050 8** | **330 0050 9** |
| 10 | REF | **330 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



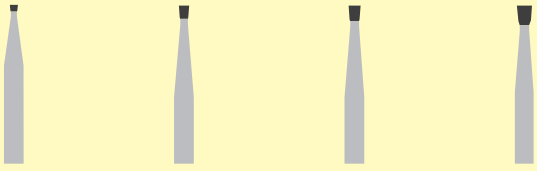
| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | **H001 NH 10** | **H001 NH 12** | **H001 NH 14** | **H001 NH 16** | **H001 NH 18** | **H001 NH 21** |
| 5 | REF | **330 0051 0** | **330 0051 2** | **330 0051 4** | **330 0051 6** | **330 0051 8** | **330 0052 1** |
| 10 | REF | **330 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.

| 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.

| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | **H289 MH 23** | | | | | |
| | ISO 500 104 ... | 289190 023 | | | | | |
| | Length mm | 8.5 | | | | | |

**GH** orange/green

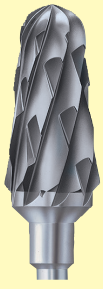
Qty.

| 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.

| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | **H274 GH 60** | | | | | |
| | ISO 500 104 ... | 274220 060 | | | | | |
| | Length mm | 13.2 | | | | | |



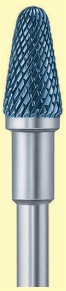
**SH** orange

Qty.

| 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 | |

# 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 |

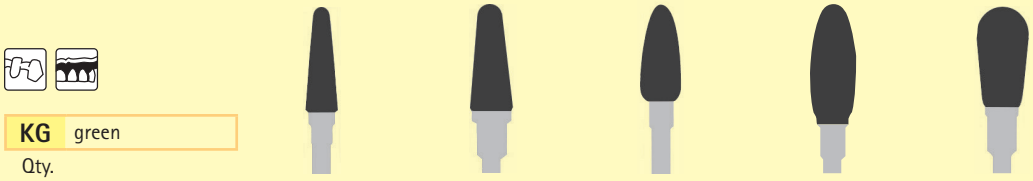
# Burs for the handpiece

## Diatit burs

**KG** green

Qty.

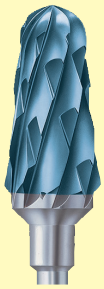
| 1 | REF | D137 KG 23 | D292 KG 23 | D200 KG 23 | D187 KG 23 | D194 KG 23 | |
|---|---|---|---|---|---|---|---|
| | ISO 509 104 ... | 137220 023 | 292220 023 | 200220 023 | 187220 023 | 194220 023 | |
| | Length mm | 14.0 | 13.0 | 12.8 | 14.5 | 10.3 | |

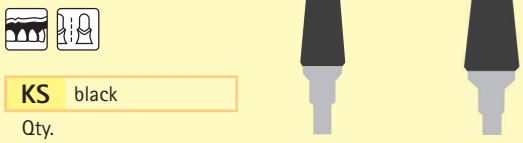


**KG** green

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 | |

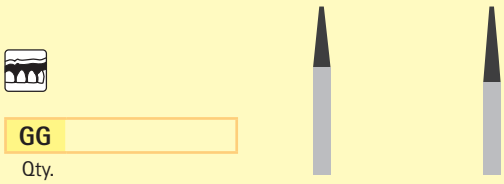




**KS** black

Qty.

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



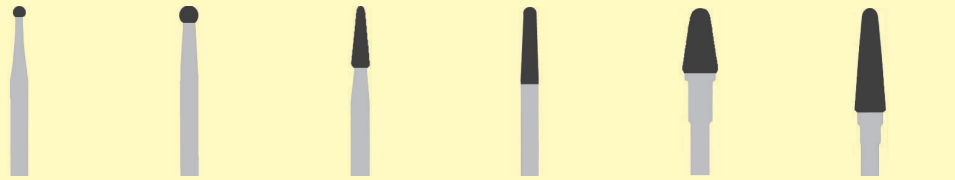
**GG**

Qty.

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

# 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

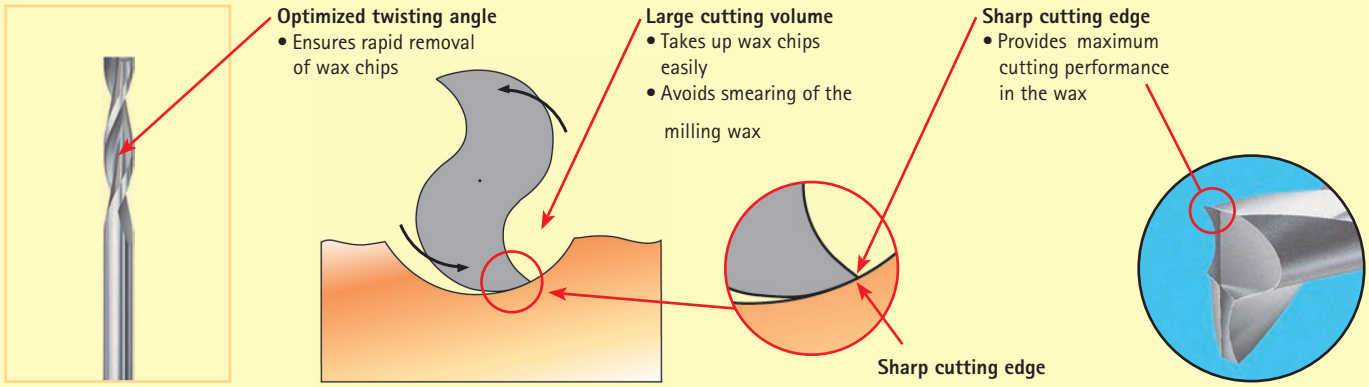
**QG** white

| 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 | | |

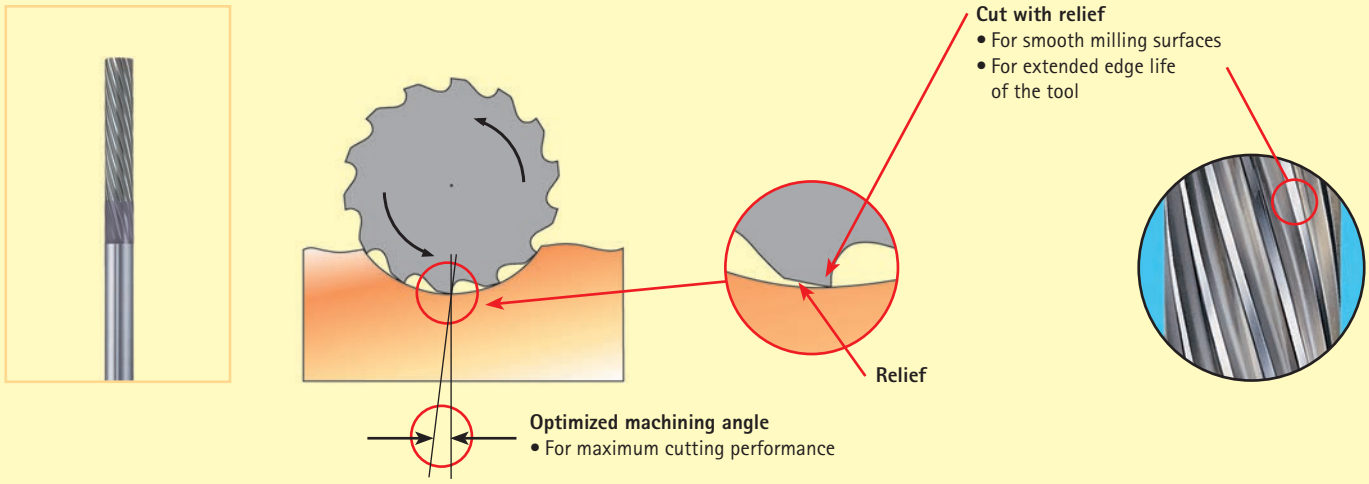
# Burs for the milling technique

## Tools with relief for the milling technique

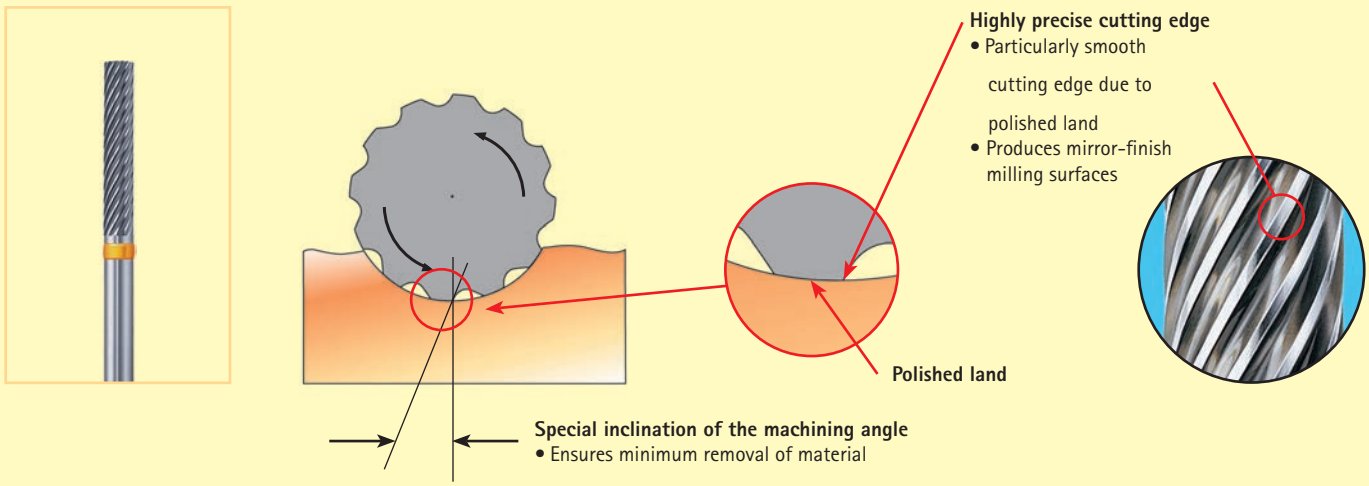
### Wax bur




### 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.

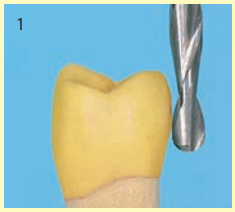

**Biotec milling wax**
28 g
**REF 510 0061 4**


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

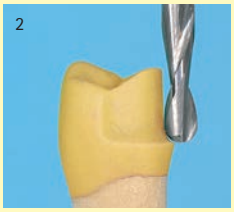

Extremely accurate milling wax to produce smooth and shining surfaces during milling.


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

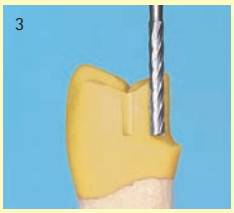
### Systematic preparation of a groove-shoulder attachment with the milling technique tool set by bredent



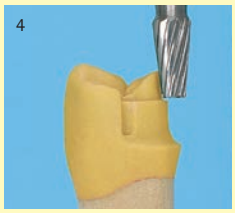

It is recommended to model the entire, planned crown in wax prior to starting the milling work.



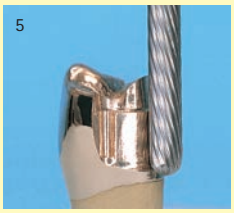

In the first step a semi-round shoulder with a marginal step is prepared with the wax bur F137 3W 23.



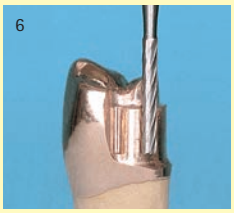

Then the approximal grooves are prepared with the groove bur F538 3H 10.



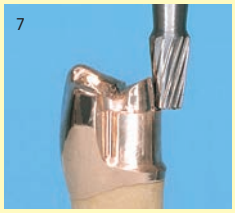

Finally, the occlusal shoulder is completed with the shoulder bur F205 3H 27.



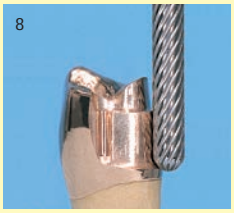

After casting and finishing of the crown, the parallel surface is remilled with the profile bur F137 3H 23.



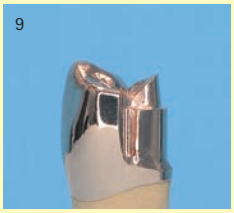

Remilling of the groove is carried out with the tool F 538 3H 10. During this process the groove bur should only be moved up and down in the vertical axis.



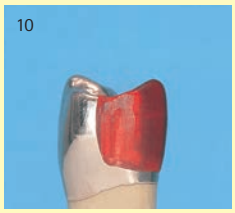

The occlusal shoulder is reworked with the tool F205 3H 27.




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




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



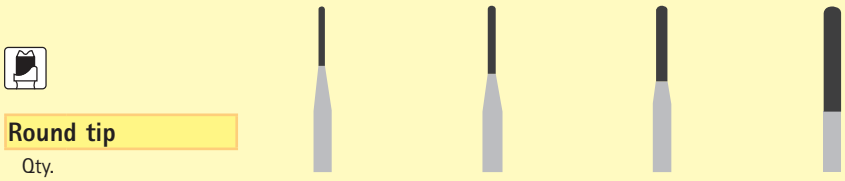

A secondary element is modelled with the pattern resin Pi-Ku-Plast and – if required – shaped with rotating tools.


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


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

# Burs for the milling technique

## Wax burs, parallel



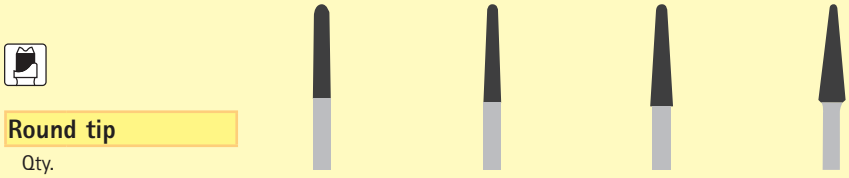
**Round tip**

| 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**

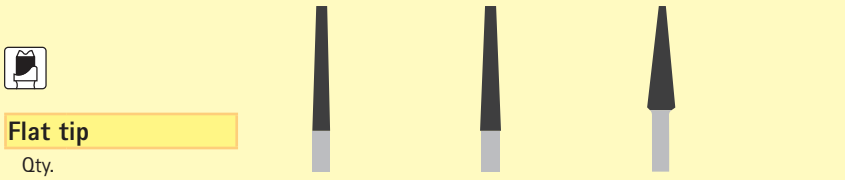
| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **Ø 2,35 mm** REF | **F116 2W 07** | **F116 2W 10** | **F116 2W 15** | **F116 2W 23** | | |
| | ISO 500 103 ... | 116366 007 | 116366 010 | 116366 015 | 116366 023 | | |
| 1 | **Ø 3,00 mm** REF | **F116 3W 07** | **F116 3W 10** | **F116 3W 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 | | |



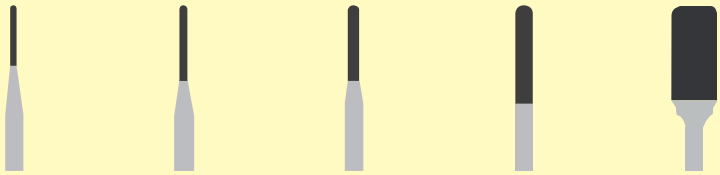
**Flat tip**

| 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**

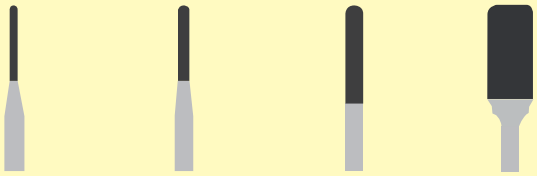


| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **Ø 2,35 mm** REF | **F137 2H 07** | **F137 2H 10** | **F137 2H 15** | **F137 2H 23** | **F137 2H 60** | |
| | ISO 500 103 ... | 137103 007 | 137103 010 | 137103 015 | 137103 023 | 137103 060 | |
| 1 | **Ø 3,00 mm** REF | **F137 3H 07** | **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**

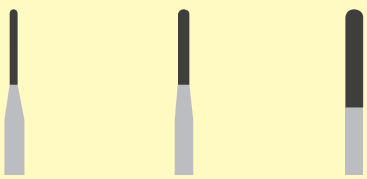
| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **Ø 2,35 mm** REF | **N137 2H 10** | **N137 2H 15** | **N137 2H 23** | | | |
| | ISO 500 103 ... | 137103 010 | 137103 015 | 137103 023 | | | |
| 1 | **Ø 3,00 mm** REF | **N137 3H 10** | **N137 3H 15** | **N137 3H 23** | | | |
| | ISO 500 123 ... | 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

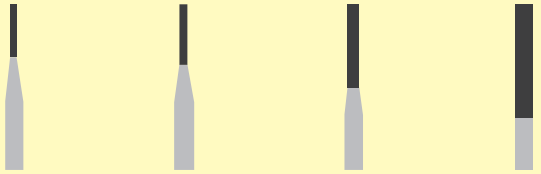


| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | **Ø 2,35 mm** REF | **F137 M8 10** | **F137 M8 15** | **F137 M8 23** | | | |
| | ISO 500 103 ... | 137220 010 | 137220 015 | 137220 023 | | | |
| | Length mm | 10.0 | 10.0 | 13.0 | | | |

# Burs for the milling technique

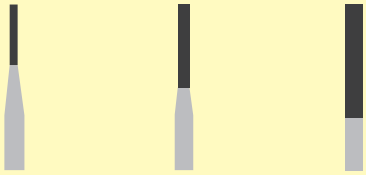
## Profile burs, parallel

**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

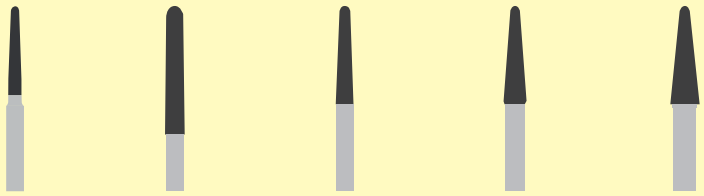
**Round tip**
**Normal serration**

| 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 | | | |

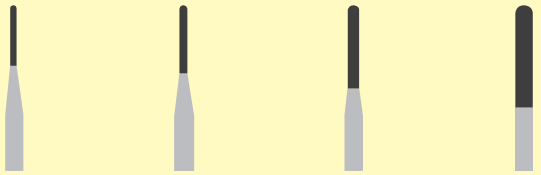
**N-serration for titanium and non-precious metals**

| 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 | | |

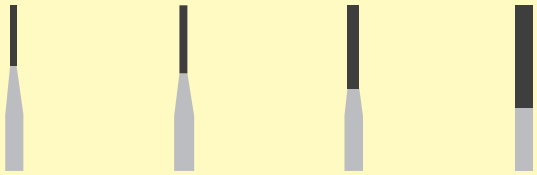
**N-serration for titanium and non-precious metals**

| 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 | | | |

# Burs for the milling technique

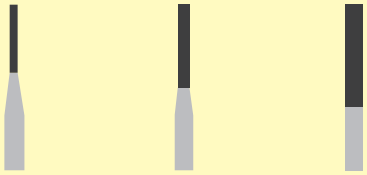
## Polishing burs, parallel

**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 | | | |

# 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

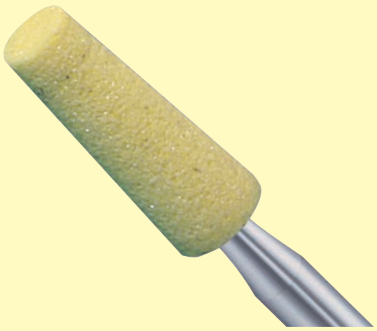
## Diamond grinders

### 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<br>2.5<br>3.1<br>4.0<br>5.0<br>6.0<br>8.0<br>10.0<br>25 | 30<br>30<br>25<br>25<br>20<br>20<br>15<br>15<br>10 |
| Sintered diamond grinding tools FG | all | 37 – 110 |
| Galvanic coated diamond cutter milling technique<br>Wax bur:<br>Diamond cutter: | <br>all<br>all | <br>4 – 5<br>10 – 20 |
| Galvanic coated diamond cutters<br>Diamond cutter:<br>Diacryl cutter: | <br>1.5 – 7<br>5 – 8<br>10 –12 | <br>20 – 30<br>10<br>15 – 20 |
| Galvanic coated diamond cutters FG | 10 – 11<br>12 – 16<br>18 – 23 | 150 – 75<br>110 – 55<br>85 – 37 |
| Galvanic coated diamond washers | 8 – 45 | 15 – 20 |
| Ceramically-bonded diamond cutters | 3.5<br>4.5 – 6<br>15 – 22 | 10 - 24<br>10 - 20<br>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**

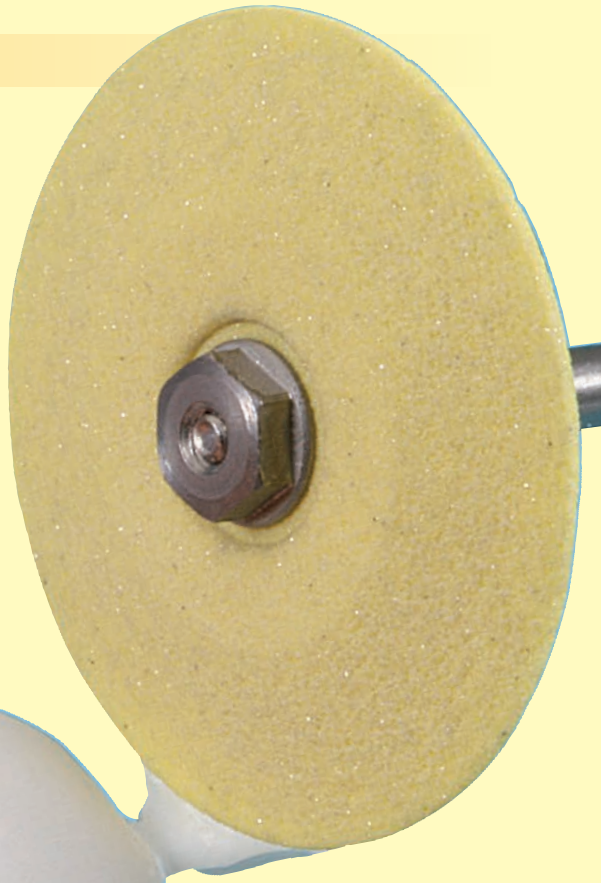
**BioHPP material**

## Diamond grinders

### Diagen-Turbo-Grinder – now in two abrasion levels

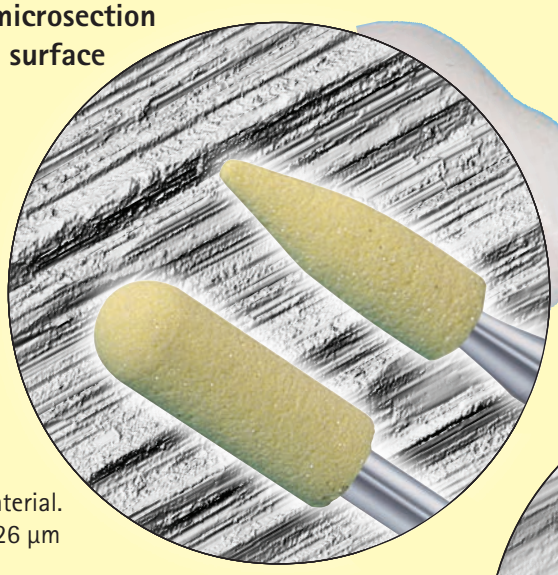
The system of diamond grinders with extraordinary grinding properties thanks to special Diagen diamond binding material.

- 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

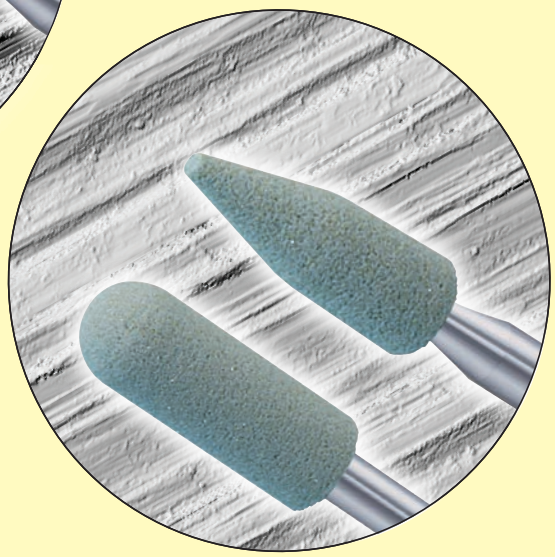


*The companies Ivoclar Vivadent®, Vita® and Teamziereis® recommend the Diagen-Turbo-Grinders for processing zirconium oxide and ceramic.

**Comparison of microsection Zirconium oxide surface**

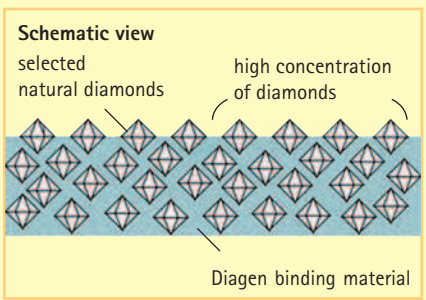


Fast removal thanks to coarse diamond grain and special diamond binding material.
Surface roughness: 26 µm



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 sur-faces 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.





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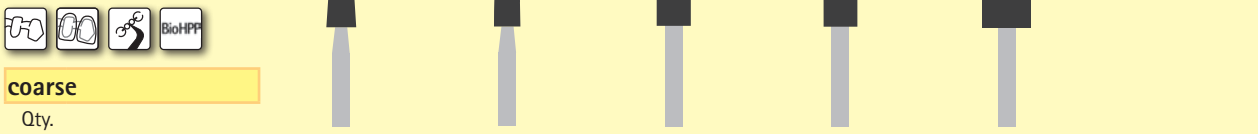
# Diamond grinders

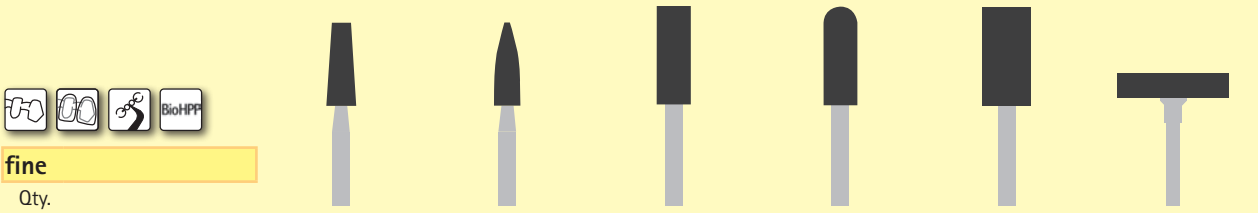
## Diagen-Turbo-Grinder - now in two abrasion levels



**coarse**

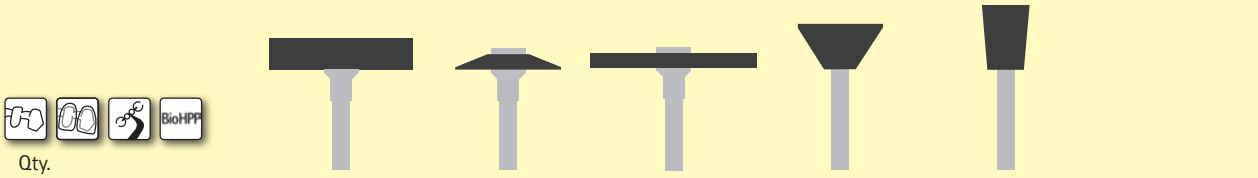
| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | REF | 340 G015 0 | 340 G015 5 | 340 G016 0 | 340 G016 5 | 340 G017 0 | |
| | Ø mm | 3.5 | 3.5 | 4.5 | 4.5 | 6 | |
| | Length mm | 11 | 11 | 13 | 13 | 13 | |

| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | 340 G021 0 | | | | | |
| | Ø mm | 22 | | | | | |
| | Length mm | 2 | | | | | |

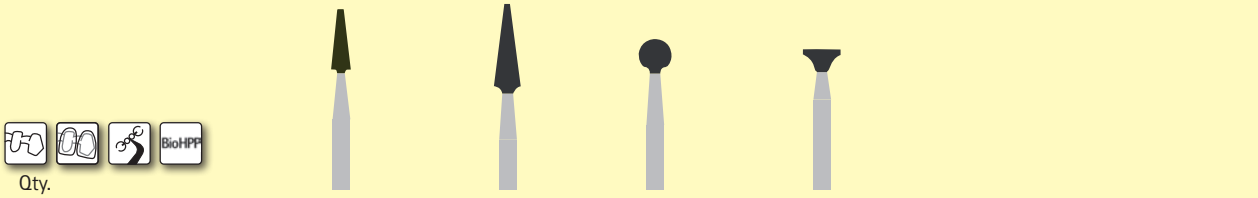


**fine**

| 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 |

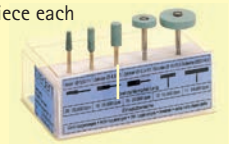


| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | 340 0019 0 | 340 0021 0 | 340 0022 0 | 340 0024 0 | 340 0025 0 | |
| | Ø mm | 22 | 22 | 22 | 12 | 6 | |
| | Length mm | 4.5 | 2 | 2 | 6 | 8 | |



| 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. | | Assortment 5 pieces, 1 piece each Diagen-Turbo-Grinder | Assortment 5 pieces, 1 piece each Diagen-Turbo-Grinder ceramic |
|---|---|---|---|
| 1 | REF | 340 0020 0 | 340 0020 5 |



# Diamond grinding

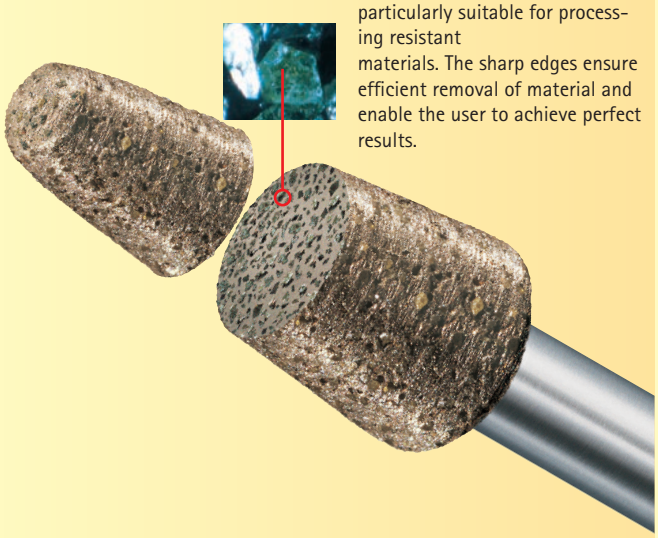
## Sintered diamond grinding tools

**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.



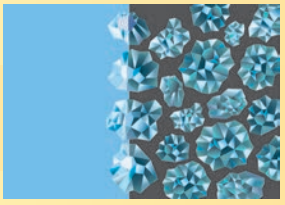
Owing to the tremendous hardness, the diamond grinding tool is particularly suitable for processing resistant materials. The sharp edges ensure efficient removal of material and enable the user to achieve perfect results.

**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.

Diamond crystals in an electrodeposited metal bond.

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



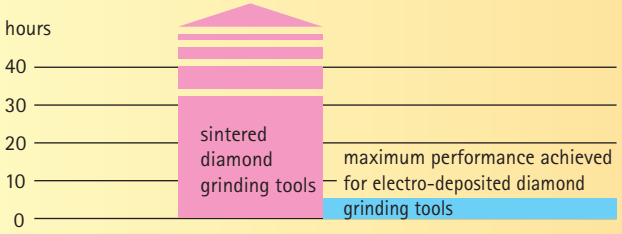
Diamond crystals embedded in a special mixture of binding material.

## 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.

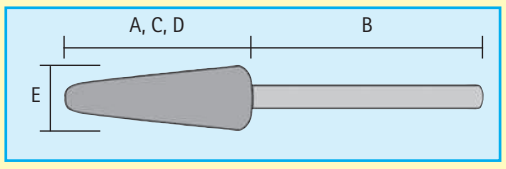
**Guaranteed bredent quality:**
Every sintered diamond undergoes the bredent quality assurance test. We guarantee optimum, uniform cutting performance right down to the last particle of diamond.

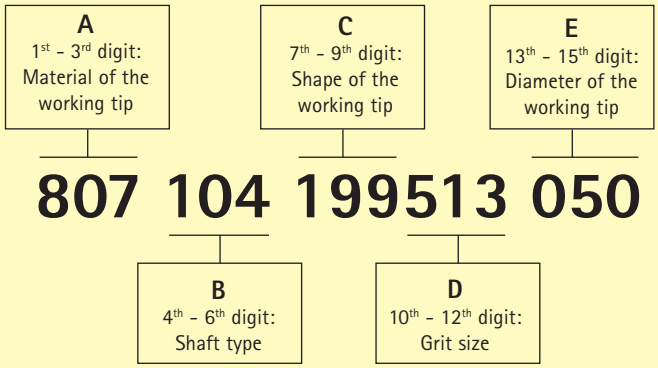
**Very easily changed:**
Diabolo sintered diamonds feature rounded ends on their shafts so that they can be inserted into any handpiece quickly.

### 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.

# 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

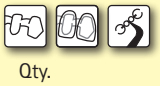
| Qty. | | extra coarse 200 µm | coarse 130 µm | normal 100 µm | fine 80 µm |
|---|---|---|---|---|---|
| 1 | REF | **SS 304 050** | | **SN 304 050** | |
| | 807 104 ... | 304543 050 | | 304523 050 | |
| 1 | REF | **SS 304 080** | | **SN 304 080** | |
| | 807 104 ... | 304543 080 | | 304523 080 | |
| 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 |

# 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<br>fine, large | Flame,<br>fine | Cylinder, round<br>head, fine | Inverted cone,<br>fine | Torpedo,<br>fine | Bud<br>fine, small |

| Qty. | | **Assortment** 6 pieces<br>**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. | | **airaqua turbine** |
|---|---|---|
| 1 | REF | **110 0146 0** |


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.

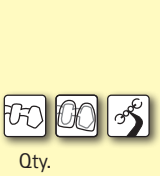
Scope of delivery:
Table unit with filter, controller, manometer, water reservoir and regulators, footswitch, handpiece with rotor, special oil 30 ml and adapter

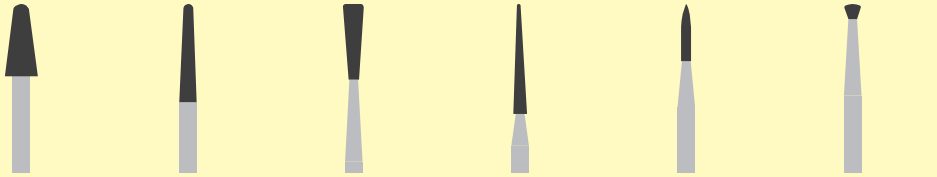
Technical data:

| | |
|---|---|
| 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 |

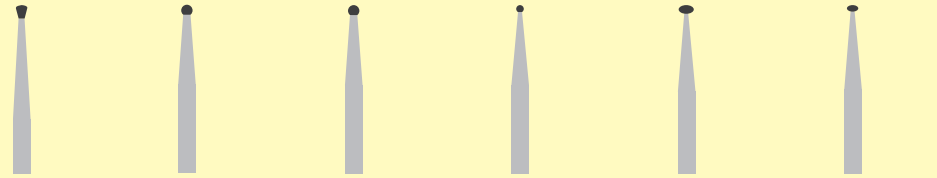
# Galvanic coated diamond cutters

## 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 |

## 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. | | **Assortment** 6 pieces **Diacryl Grinding Instruments** |
|---|---|---|
| 1 | REF | **340 0107 0** |

# 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 | | | |

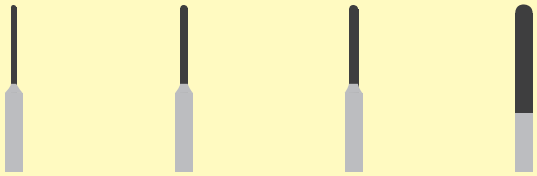
## Set-up grinding tool

| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | REF | 340 0101 0 | | | | | |
| | Ø mm | 6.5 | | | | | |

# Galvanic coated diamond cutter milling technique

## Wax burs

**straight cutting edge, parallel, round face**



cross section of cutting edge

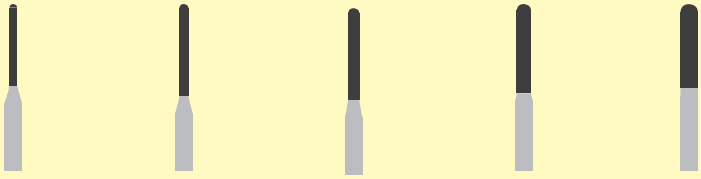
Assortment 4 pieces, 1 piece each

| 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

## Diamond grinding tools

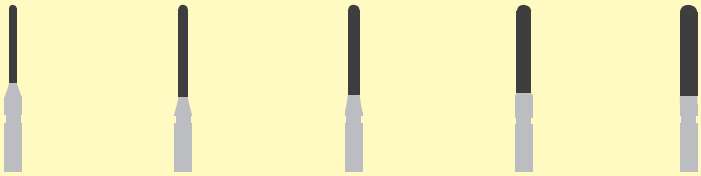
**coarse grain, parallel, round face**



| 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**

cross section of cutting edge

| Qty. | | | | | | Assortment 3 pieces, 1 piece each |
|---|---|---|---|---|---|---|
| 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

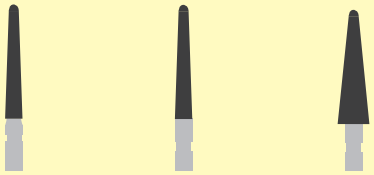
## Diamond grinding tools

**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

# Galvanic coated diamond cutters FG

## Grit colour code

Ø 12 806 314 156514 012
806 314 198524 012
Ø 14 806 314 158534 014

Grit colour code

13th-15th digit: Diameter of the working element
10th-12th digit: Grit or cut type
7th- 9th digit: Shape of the working element
4th- 6th digit: Shaft type (314=FG)
1st- 3rd digit: Material of the working element

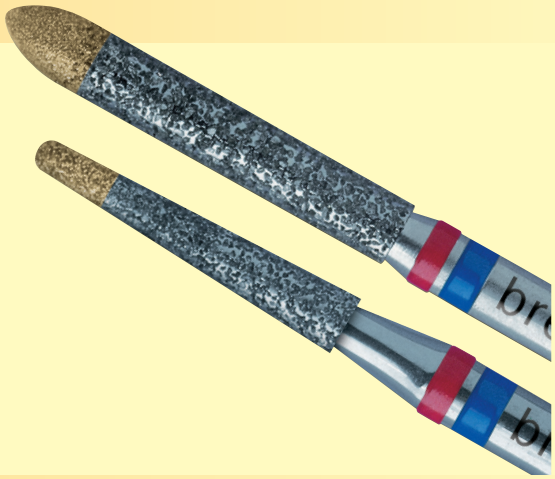
40 µm red = fine grit

120 µm blue = standard grit

145 µm green = coarse grit

## 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.



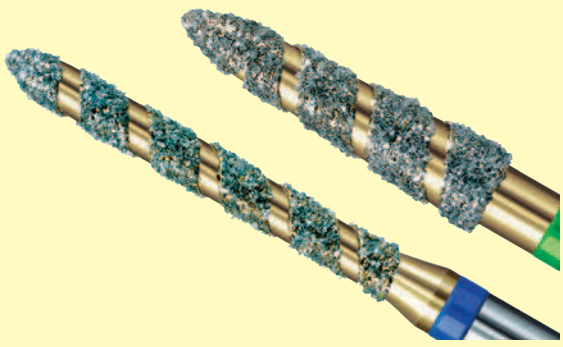
## bre diamant eterna

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.

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# Galvanic coated diamond cutters FG

## bre diamant duplex

40 µm
120 µm
145 µm



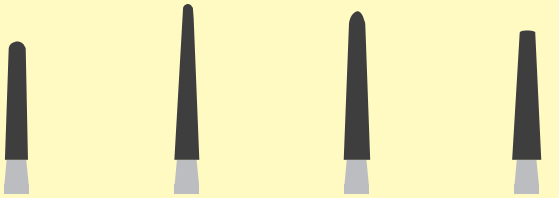


fig. 2:1

| 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 | | |



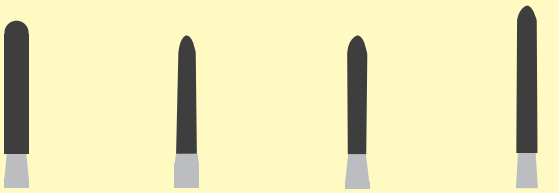


fig. 2:1

| 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 | | | |

**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

40 µm
120 µm
145 µm

fig. 2:1

| 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 | 172524016 | |
| | 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 | |

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 FF 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 | | | |

**FG adapter 1.6 to 2.35**

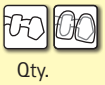
| Qty. | | | |
|---|---|---|---|
| 10 | REF | **340 0100 2** | |
| | Ø mm | 2.35 | |

FG = 1.6 mm
Shaft diameter

# Galvanic coated diamond cutters FG

bre diamant eterna

40 µm
120 µm
145 µm



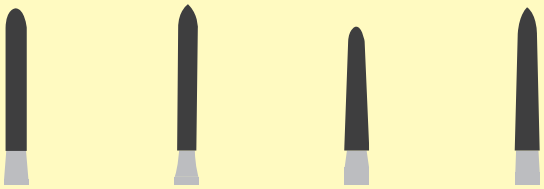


fig. 2:1

| Qty. | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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

# Galvanic coated diamond cutters FG

## bre diamant cooler




40 µm
120 µm
145 µm

fig. 2:1

| 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 | | |

**FG adapter 1.6 to 2.35**

| Qty. | | | |
|---|---|---|---|
| 10 | REF | **340 0100 2** | |
| | Ø mm | 2,35 | |

FG = 1.6 mm
Shaft diameter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# Polishing

## The right finish for every material

bredent

# 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 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** | |
| | Ø mm | 13 | 19 | |

**Cotton buff**

| Qty. | | | | |
|---|---|---|---|---|
| 15 | REF | **350 0065 0** | | |
| | Ø mm | 22 | | |

**Round brush Goat-hair white**
**double the bristles**

| Qty. | | | | |
|---|---|---|---|---|
| 15 | REF | **350 0054 0** | **350 0055 0** | |
| | Ø mm | 19 | 22 | |

**Leather Buff**

| Qty. | | | | |
|---|---|---|---|---|
| 15 | REF | **350 0066 0** | | |
| | Ø mm | 22 | | |

**Linen buff**

| Qty. | | | | |
|---|---|---|---|---|
| 15 | REF | **350 0067 0** | | |
| | Ø mm | 22 | | |

**Polishing buff,** felt 3 layers

| Qty. | | | | |
|---|---|---|---|---|
| 15 | REF | **350 0064 0** | | |
| | Ø mm | 22 | | |

## Polishing acrylic

### With the motor

**Chungking white,** 4 rows

| Qty. | | | | |
|---|---|---|---|---|
| 12 | REF | **350 0074 0** | **350 0034 0** | |
| | Ø mm | 65 | 80 | |

**Chungking white,** 3 rows

| Qty. | | | | |
|---|---|---|---|---|
| 12 | REF | **350 0075 0** | **350 0030 0** | |
| | Ø mm | 60 | 70 | |

**Chungking white,** 2 rows

| Qty. | | | | |
|---|---|---|---|---|
| 12 | REF | **350 0027 0** | | |
| | Ø mm | 50 | | |

**Chungking white,** 1 row

| Qty. | | | | |
|---|---|---|---|---|
| 12 | REF | **350 0102 3** | **350 0024 0** | |
| | Ø mm | 24 | 44 | |

**Mandrel for polishing brush**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **360 0116 8** | | |

**Goat-hair,** metal core

| Qty. | | | | |
|---|---|---|---|---|
| 10 | REF | **350 0061 0** | | |
| | Ø mm | 48 | | |

**Abraso-Sil Acrylic**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0102 2** | **350 0099 3** | |
| | Ø mm | 50 | 80 | |

**Abraso-Buff Acrylic**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0102 4** | **350 0078 0** | |
| | Ø mm | 50 | 80 | |

**Prepolishing Buff**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0098 0** | **350 0099 1** | |
| | Ø mm | 60 | 80 | |

**Abraso-Soft Acrylic**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0102 0** | **350 0080 0** | |
| | Ø mm | 50 | 80 | |

**Leather Buff**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0099 0** | **350 0036 0** | **350 0035 0** |
| | Ø mm | 60 | 80 | 100 |

**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** | |

**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<br>1 Diatit-HM bur REF D 200 KF 23<br>1 Acrylic polisher coarse green<br>1 Acrylic polisher medium grey<br>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

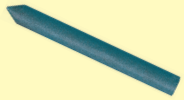
| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **350 0075 8** | | |
| | Content | 1 piece each: extra fine, fine, regular, coarse | | |

# Universal polishing

## Abraso-Gum with quick chuck

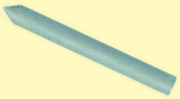
**PM rubber polishing,** red

| Qty. | | | |
|---|---|---|---|
| 100 | REF | **520 0010 0** | |



**PM prepolishing,** blue

| Qty. | | | |
|---|---|---|---|
| 100 | REF | **520 0011 0** | |



**PM high luster,** green

| Qty. | | | |
|---|---|---|---|
| 100 | REF | **520 0012 0** | |

**NPM rubber polishing,** black

| Qty. | | | |
|---|---|---|---|
| 100 | REF | **520 0014 0** | |

**NPM high luster,** brown

| Qty. | | | |
|---|---|---|---|
| 100 | REF | **520 0015 0** | |

**NPM Quick chuck**

| Qty. | | | |
|---|---|---|---|
| 1 | REF | **350 0023 0** | |

# 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**

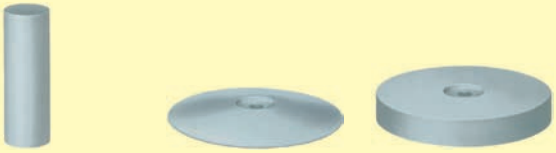
| Qty. | | | |
|---|---|---|---|
| 10 | REF | 340 0066 0 | |
| | Ø mm | 2.35 | |

## Cotton mandrel

**Cotton mandrel**

| Qty. | | | | |
|---|---|---|---|---|
| 2 | REF | **360 0126 9** | | |
| | Ø mm | 2.35 | | |

## Ceramic Polishing 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**

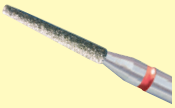
| Qty. | | | | |
|---|---|---|---|---|
| 10 | REF | **360 0115 3** | | |
| | ISO 330 104 ... | 606050 050 | | |

**Screwable mandrel**

| Qty. | | | |
|---|---|---|---|
| 10 | REF | 340 0066 0 | |
| | Ø mm | 2.35 | |

# Polishing ceramic

## Polishing ceramic breCAM



**Diamond grinding fine**

| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **340 0107 1** | | |

**Tungsten carbide**

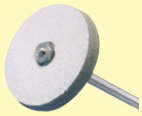
| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **H010 NH 12** | | |

**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 | | |

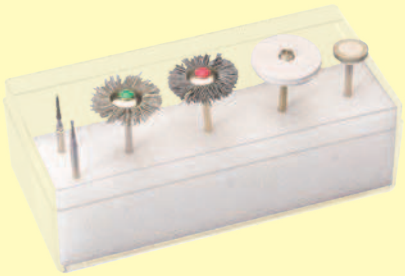


**Ceragum coarse,** wheel not mounted

| 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

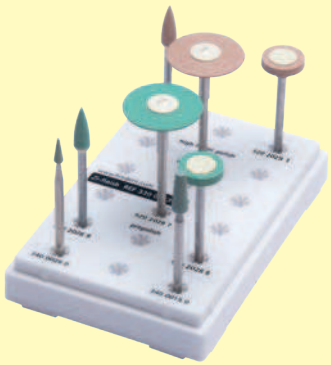
| Qty. | | | | |
|---|---|---|---|---|
| 1 | REF | **520 2028 6** | | |
| | Content | 1 diamond grinder fine<br>1 Tungsten carbide 1.2<br>1 Abraso-Fix green<br>1 Abraso-Fix ret<br>1 Ceragum coarse, wheel<br>1 Cerafine, wheel | | |

**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 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

### 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


REF 000 570 GB


REF 000 611 GB



000786GB-20180517

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