

Products for manual zirconium processing

Profile milled zircon processing with bredent products for highest precision.
From wax-up to mirror polish: a sound system for time saving work.



Harmonized products ensure the safe make of top level quality dental restorations.
Processing speed for reduced labor and freedom of work.

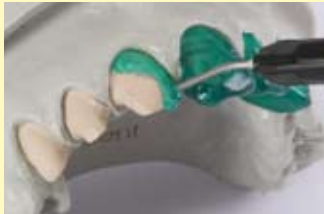
bredent

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compoForm UV

Light curing resin from a syringe for time saving modelation of crown and bridge constructions, individual abutments and bars. Through immediate curing with a UV hand lamp or bre.lux handlamp a precise and clean application is achieved. This reduces corrections and saves time.

- pasty – non runny, for exact application
- stable – allows safe modeling to match the demands of profile milling
- low shrinkage – for high precision, custom made modelations.
- millable – for ease of trimming
- easy syringe application reduces modeling time



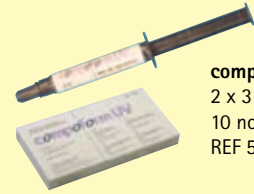
Pin-point application directly from a syringe for quick and precise modeling.



Fast and simple – making individual abutments from compoForm UV.



compoForm UV easy trimmable with tungsten burs.



compoForm UV
2 x 3 ml syringes
10 nozzles
REF 540 0115 0

Asseccories: _____

Nozzles
25 pieces
REF 580 0001 8



bre.lux Power Unit
Kit
REF 140 0097 0

SERACOLL UV

Light curing wax glue with high grade of capillary attraction means tension free constructions.

- safety by high stability
- speedy work flow by short curing time
- smooth surface of modelation equals smooth zircon surface
- high **capillary attraction** – safe joining of bridge segments
- shrinkage free – ideal for custom made constructions



Tension free, stable and safe joining of bridge segments for high precision modelations.



Gaples closure between bridge units through high capillary effect. More safety by applying this procedure.



SERACOLL UV smoothes the surface means smooth probe scanning of the structure.



SERACOLL UV
2 x 3 ml
2 dipping bowels
REF 540 0115 1

Asseccories: _____

bre.lux Power Unit
Kit
REF 140 0097 0

Vario-Soft 3 zircon sv

The approved attachment system Vario-Soft 3 is now also available for zircon. The joint and integrated stress compensator, especially designed for zircon specifications, clearly indicates Vario-Soft 3 zircon sv for combined denture work. Two sizes available for anterior and posterior areas allow application in low space regions

- approved attachment system with three grades of friction for gaining more individuality
- solid joints between attachment and crown for more safety
- individually reduceable for low vertical space regions



Joining the components with compo-Form UV Completion of the joint with SERACOLL UV to be light cured.



Mirror polishing of the attachment after sintering with Zi-polish (Page 7) The secondary framework to be processed as usual.

Vario-Soft 3 zircon sv
8-pieces pack
REF 430 0732 2

Vario-Soft 3 zircon sv mini sv
8-Pieces pack
REF 430 0732 2

Vario-Soft 3 mini sv
females grün
8 pieces
REF 430 0733 5

females gelb
8 pieces
REF 430 0733 3

females rot
8 pieces
REF 430 0733 1

For each single product please ask for the specific brochure.

Asseccories: _____

Parallel holder universal
REF 360 0115 1

5-motions-glue and 5-motions-active

Tough-flowing super glue for clean and safe connection of blanks and modelation. Activator-spray for 5-motions-glue provides safe joint between modelation and blank and to other materials.

- non-dripping and clean application
- quick setting with 5-motions-active activator spray saves time
- verklebt alle Materialien miteinander und ist somit universell einsetzbar



Pin point fixation with 5-motions-glue. Quick and safe connection by using 5 motions-active spray.



Quick frame mounting of the zircon blanc. By using the activator spray different materials are joint together. This widens the field of indication.



5-motions-glue
super glue gel
20 g
REF 360 1002 6



5-motions-active
activator spray for 5-
motions-glue
200 ml
REF 360 1002 7

Scanners and grinders

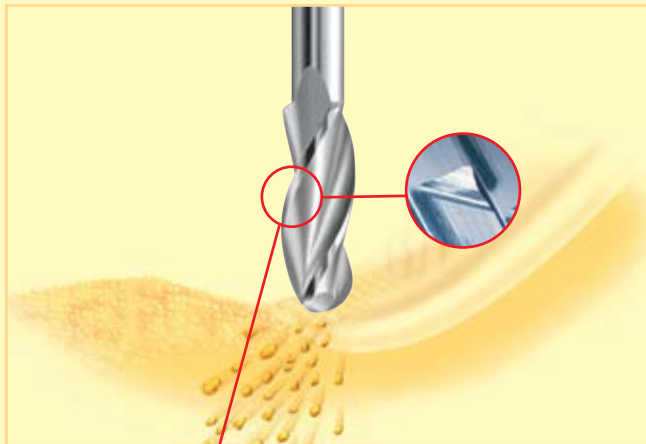
Scanners and grinders

Multiple fields of applications in dental technique require special geometries for precise zircon processing.

The approved relief grinding technique of bredent created special burs for precise cutting and smooth surfaces.

- applicable for all units using a magnification factor of 1:1,25
- Relief grinding technology stands for smooth surfaces and reduced retouching work.
- 11 different designs for a wide range of applications
- special tool steel stands for long life span and endurance

Relief grinding technology means smooth surfaces avoiding material ruptures:



bredent-relief-cutting tool

Relief-cutting edge: bold support of the cutting edge for tripled endurance

Controlled material ingestion of the tool

- rattle free handling
- generates smooth surfaces

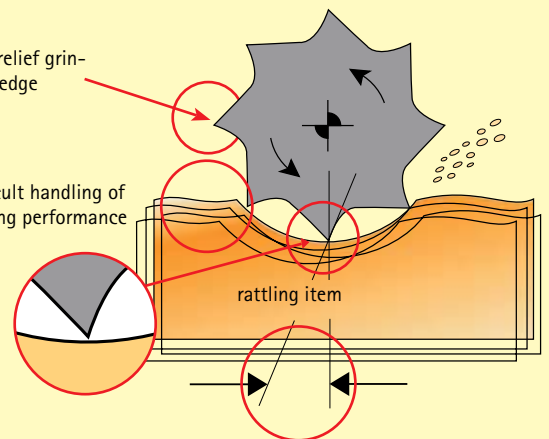
Optimized chip angle for increased cutting performance

Tripled life-span and endurance compared to conventional bredent-gearing. In a special process, bredent tungsten carbide burs of the latest development state are provided with relief grinding properties. This stabilises the cutting edges against ruptural destruction. This also enhances the endurance of those tools by the factor three compared to conventional tools for green state processing. In addition the relief grinding design optimizes the chip angle for immaculate cutting performance.

Comparison: A conventional tool

Non relief grinding edge

Difficult handling of cutting performance



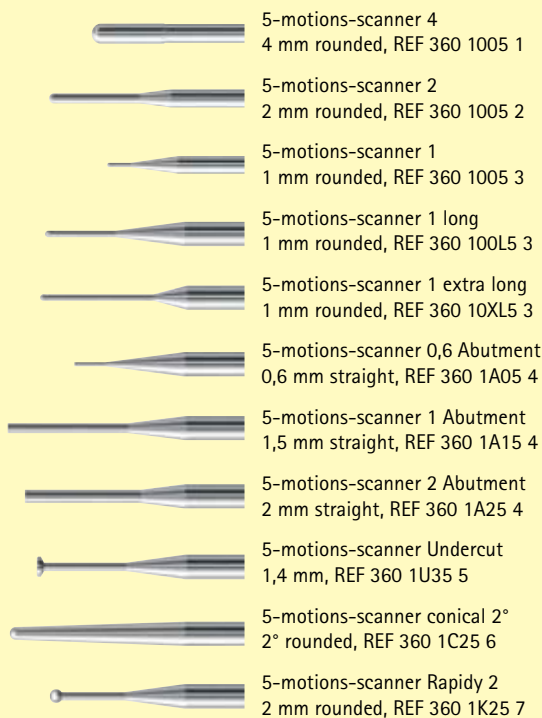
rattling item

Conventional chip angle

Relief grinding technology for smooth surfaces, avoiding surface ruptures:



Harmonized scanners and burs in various shapes and sizes covering all aspects of processing. The solution for simple and successful zirconium work. Relief grinding geometry of burs provides an immaculate balance, a clean and smooth surfaced grinding pattern, avoiding ruptures of cutting edges.



All burs and scanners have a spindle diameter of 3 mm and are suitable for units with an enlarge factor of 1 : 1,25



Preliminary work by 5-motions-milling cutter 2, speedy and smooth performance.



Deep grindings like with abutments become effortless with long shaped burs.



The right angled, flat headed burs provide a good seating surface on implant platforms.



Drilling and surface work is carried out precisely with the Rapidy 2.

Giflex TR

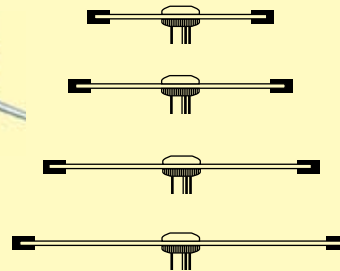
Safe cutting of the construction from the blanc due to diamond coated edge. No tilting of the disc. Cutting area is easily visible due to segmented disc design.



Tilt free cutting the construction from the blanc. This improves job safety.



Additional safety when cutting construction from the blanc: diamond coated edge.



Giflex TR
Ø 25 mm
REF 340 0002 5

Ø 30 mm
REF 340 0012 0

Ø 37 mm
REF 340 0002 0

Ø 45 mm
REF 340 0011 0

Transflex

Improved, break resistant cutting performance by tilted slot geometry and view-thru design of Transflex disc. Both sided diamond coating is ideal for anterior and posterior area cutting.



Clear separating of pre-sintered zircon. View thru ability guarantees precise trimming.



Transflex
Ø 22 mm
REF 340 0004 0

Further diamond coated cutting discs to be found in our bredent main catalogue at chapter 11.

Relief grinding technology for smooth surfaces.

Optimized chip angle and smooth cutting behavior reduces surface ruptures of zircon. A smooth surface reduces reworking.



Rough trimming through relief grinding technology without material chipping. Smooth surfaces as perfect results.



Perfect fine trimming with the H 263 GH 30 due to its slim shape, avoiding the use of multiple burs.



For rough trimming
REF H194 GH 40



For fine trimming
REF H263 GH 30

Further carbide tools to be found in our bredent main catalogue at chapter 9.

Ceragum rough

Gentle abrasion combined with surface smoothening. Structural surface specifications can be already applied at this stage. The use of cylindric, lentic or wheel shapes apply as indicated by the situation.



Marginal finish by using the cylinder. Interdental use by tip sharpening ensures smoothness in all regions for ease of work.



Contour trimming with surface smoothening using the lenticle shaped wheel. Preparing the reduced shape for veneering process.



Large flat areas such as on bars to be smoothened using the disc. Trimming down sprueing areas of soft zircon is easy to handle and saves time.



Ceragum rough
Cylinder 19 x Ø 6 mm
50 pieces
REF PKW G065 0

Lentic 4 x Ø 22 mm
50 pieces
REF PLK G225 0

Wheel 4 x Ø 22 mm
50 pieces
REF PRK G225 0

Diagen-Turbo-Grinder

The diamond grinder system with extraordinary cutting properties through special Diagen-Diamant-binding. Highly abrasive grinding performance on zircon surfaces. Applying only light pressure for gentle surface processing.

- two grades of abrasion offers more flexibility of use
- special binding (rough) equals 20 % more endurance and saves on tool consumption
- Cooling effect to avoid damages of zircon
- recommended by leading zircon- and ceramic manufacturers

Zircon grinding patterns

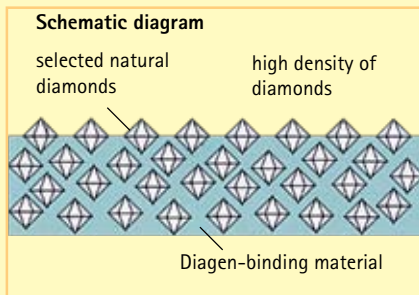
New shapes in 2 grades of abrasion.

Boosts trimming through rough diamond grain sizes and special Diagen binding.

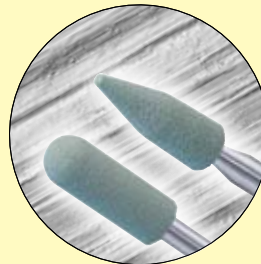


Surface roughness: 26 µm

Highest grinding performance and abrasivity on zircon, ceramic and metal surfaces at low contact pressure. Improved endurance compared to regular bindings effectively allow a wide field of applications.



New shapes in well-proven quality.



Surface smoothing and fine cut by fine grain diamonds.
Surface roughness: 2 µm

Diagen-Turbo-Grinder recommended by: Ivoclar Vivadent, Vita und Teamziereis



The shape „pointy cylinder“ allows speedy and time saving trimming of narrow areas.



The rounded shape is for easy trimming of shoulders on individual abutments. Optimized trimming times and generating cost saving effects.

Diagen-Turbo-Grinder, rough

New quality of diagen binding with large diamond grain size for speedy trimming.



Cylinder pointy
Ø 3,5 x 11 mm, 2 pieces
REF 340 G015 5



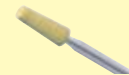
Cylinder rounded
Ø 4,5 x 13 mm, 2 pieces
REF 340 G016 5



Cylinder
Ø 4,5 x 13 mm, 2 pieces
REF 340 G016 0



Cylinder
Ø 6,0 x 13 mm, 2 pieces
REF 340 G017 0



Cone
Ø 3,5 x 11 mm, 2 pieces
REF 340 G015 0



Lentil
Ø 22 x 2 mm, 1 pieces
REF 340 G021 0

Diagen-Turbo-Grinder, fine

Established fine grain quality for perfect surface smoothness.



Cylinder pointy
Ø 3,5 x 11 mm, 2 pieces
REF 340 0015 5



Cylinder rounded
Ø 4,5 x 13 mm, 2 pieces
REF 340 0016 5



Cone
Ø 3,5 x 11 mm, 2 pieces
REF 340 0015 0



Cylinder
Ø 4,8 x 13 mm, 2 pieces
REF 340 0016 0



Cylinder
Ø 6,5 x 13 mm, 2 pieces
REF 340 0017 0



Top down cone with notch
Ø 6 x 8 mm, 1 piece
REF 340 0025 0



Top down cone with notch
Ø 12 x 6 mm
1 piece
REF 340 0024 0



Lentil
Ø 22 x 2 mm, 1 piece
REF 340 0021 0



Wheel
Ø 22 x 2 mm, 1 piece
REF 340 0022 0



Wheel
Ø 15 x 3,5 mm, 2 piece
REF 340 0018 0



Wheel
Ø 22 x 4,5 mm, 1 piece
REF 340 0019 0

Sets



Diagen-Turbo-Grinder
5 pieces
REF 340 0020 0



Diagen-Turbo-Grinder ceramic
5 pieces
REF 340 0020 5

Accessories



Zi-polish
5 g
REF 360 1002 5



Abrasive polishing paste Zi-polish in combination with Rodeo wheel-brush for perfect, time-saving mirror polish of zircon surfaces.

airaqua turbine

The airaqua turbine is a handy, compact unit that comes with a light handpiece für die precise processing of zirconium.

Airaqua turbine holds an air/water spraying device that feeds the processing area safely. This water cooling avoids overheating of the zircon and dramatically reduces the risk of micro-cracks, ensuring safe processing. Water spray collects the abrasive dust and preserves trimming tools for a longer endurance. An optional adaptor is available for use of the handpiece in milling machines.

The button on the handpiece allows a quick on/off toggle of water spray. A tiny rotor allows a maximum of work comfort und optimal view on the work piece. Lubrication is fed directly into the ball bearings.

The handpiece features a special adapter (midwest) and thus can be used with angle handpieces, turbines and air motors with the same standard.



Technical data:

Speed	300 000 U/Min.
Energy supply	compressed air
Operating pressure	2.8 – 3.2 bar
Air consumption	40 l/Min.
Water tank	350 ml
Collet	1,6 mm
Lubrication	Manuell
Width	ca. 190 mm
Height	ca. 190 mm
Depth	ca. 125 mm

Scope of delivery:

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

airaqua turbine
REF 110 0146 0



Accessories:

Adapter airaqua turbine

16 mm
REF 730 0018 4
18 mm (for BF2)
REF 730 0018 3

28,5 mm
REF 730 0018 5

airaqua turbine oil

30 ml
REF 520 0033 5

FG-Diablo – sintered diamond grinders for the turbine

Quick and efficient processing of any type of zircon and hard dental materials. Friction-grip first class diamond grinders with razor sharp diamonds, self-regenerating grit and extended durability.



Bud, fine, large
REF FF 263 023



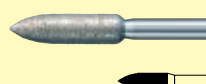
Flame, fine
REF FF 250 016



Cylinder, round head fine,
REF FF 141 023



Top-down cone, fine
REF FF 227 023



Torpedo, fine
REF FF 289 023



Bud, fine, small
REF FF 263 014

Accessories:

Diablo Cleaner
1 Stück
REF 340 0100 0



Indispensable tool for removing contaminations. Diablo Cleaner guarantees constant performance. Contaminated material is removed easily and quickly and new diamond crystals are exposed from the bronze binding material and integrated into the surface of the tool to enhance the cutting performance and reduce the grinding time.



Zircon – the white gold

Everything is possible in manual zircon processing with the 5-motions-mill copy milling unit.

Easily transform into zircondioxide what ever can be modeled in resin.



Standard crown and bridgework can be easily manufactured by using the 5-motions-mill copy milling unit.



Time saving manufacturing of delicate attachment work via Vario-Soft 3.



Individual abutments for high value work in the shortest of time.



Custom fit and stable post and cores for aesthetical solutions.



ZTM Andreas Lüdtkke

Safely manufactured, individual Security-Lock retained zircon bridge.



ZTM Andreas Lüdtkke

An aesthetical, low impact, TMJ friendly restoration finished via the visio.lign system.

breident offers two interesting courses for manual zircon processing

Unlimited flexibility in all dimensions | methodic copy milling

Modul 01 | 3-unit real patient case

REF 950 0110 0

Content

Gaining severe knowledge in use of the 5-motions-system by milling your real patient's case.
The referees will freely chat about inside knowledge and impart competent knowledge from their long time experience.
Modeling and milling of a patient's case up to three units on the first day.
Fitting of the sintered bridge on day two.

Goal

Safe handling of the milling unit is deepened by the referees.
Efficient work-flow management will be achieved to quickly implement economy of copy milling into your every day's work.

Ask for available course dates on tel. (+49) 0 73 09 / 8 72-22!

Modul 02 | 7-unit real patient case

REF 950 0111 0

Content

Gaining severe knowledge in use of the 5-motions-system by milling your real patient's case.
The referees will freely chat about inside knowledge and impart competent knowledge from their long time experience.
Modeling and milling of a patient's case up to three units on the first day.
Fitting of the sintered bridge on day two.

Goal

Safe handling of the milling unit is deepened by the referees.
Efficient work-flow management will be achieved to quickly implement economy of copy milling into your every day's work.



Zi-polish - the perfect mirror polish!

Zircon polishing paste for high gloss surfaces. Two different diamond grain sizes for pre- and high gloss polishing of marginal edges, basal areas, primary crowns, individual abutments and bars. The special binding agent avoids spraying of the polishing past when dipping the brush into the paste container. This also reduces paste consumption.

- the high content of diamond particles reduces polishing time and leaves a highly glossy surface
- special binding agent reduces paste consumption
- proper wipe off of pre polish residues from dents



Due to a special binding agent the paste sticks to the brush, saving material also.



Perfect and speedy mirror polish is achieved by high diamond particle density.



Zi-polish
5 g
REF 360 1002 5

Wheel brush Rodeo

Specially selected tail hair from wild horses, which vary in hardness between chunking bristle and goat-hair, are especially suitable for pre-polishing soft alloys.

- selected hair qualities for best results
- three different diameters for hard, medium, soft for individual application
- double loaded for best polishing results in interdental areas



Selected quality of horsehair greatly sponges the polishing paste for high gloss surfaces.



Little pressure and low speed for gentle and economical polishing.



Wheel brush Rodeo double loaded
Pack of 15 pieces
Ø 15 mm REF 350 0095 0
Ø 18 mm REF 350 0096 0
Ø 21 mm REF 350 0097 0

Spot Clip

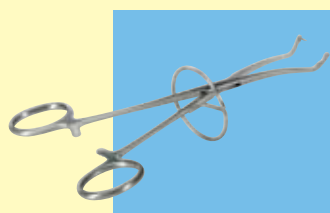
Clip with punctual grip facilitates veneering – two designs available.



A problem known to every ceramist: PFM / PFZ crowns without a collar. Insufficient opaque coverage where hemostat touches. Solution to this problem: Spot Clip.



After releasing the Spot Clip the washy opaquer runs together where the needle tip had touched the framework to result in an even and smooth surface.



Spot Clip
1 piece
REF 310 0000 5

Spot Clip with rest-ring
1 piece
REF 310 0000 7

5-motions-system

Unrestricted Flexibility in all Dimensions

The copy milling unit 5-motions-system is the base for high-value dental restorations from zircon by it's 5 axis technology. Harmonized system components to ease your daily work. It's 2 filter dust extraction system with integrated suction-head keeps your working area constantly clean and clear. A perfect illumination of scanning and milling areas is also provided by two individually adjustable spotlights carrying 21 LED's each.

Everything is possible ! From individual abutments, parallel bars, telescopic crowns or screw joints. Technical freedom and flexibility of this system convinces by its wide field of application.

- 5 axis system applies to all indications
- clear design for relaxed working
- high performance sintering furnace up to 1600 C.
- 2 filter dust extraction system for dust-free operation
- harmonized system for efficient working



5-motions-mill
5-axis milling-unit
REF 360 1000 0

5-motions-starter kit
*one machine
REF 360 1002 0



5-motions-furnace
High performance
sintering furnace
REF 360 1000 5



5-motions-cleaner
2-filter dust extractor
REF 360 1001 0



5-motions-drying lamp
REF 360 1000 4



5-motions-zircon
zircon blanks small
6/16, 16 mm height
3 pieces
REF 360 1061 6
6/20, 20 mm height
3 pieces
REF 360 1062 0



5-motions-colors
zircon coloring liquid
each 100 ml
A1 REF 360 1CA1 0
A3 REF 360 1CA3 0
B1 REF 360 1CB1 0
B3 REF 360 1CB3 0
C3 REF 360 1CC3 0



5-motions-zircon
zircon blanks medium
10/16, 16 mm height
2 pieces
REF 360 1101 6
10/20, 20 mm height
2 pieces
REF 360 1102 0



5-motions-zircon
zircon blanks
14/16, 16 mm height
1 piece
REF 360 1141 6
14/20, 20 mm height
1 piece
REF 360 1142 0



Please ask for comprehensive brochures.
Tailor made system components and individually arranged solutions on request.

5-motions-system courses
Modul 1
3-units patient's case
REF 950 0110 0

Modul 2
7-units patient's case
REF 950 0111 0

Both are 2-days-courses in Senden/Ulm.
For available dates please contact: 0 73 09 / 8 72 - 22 oder www.bredent.com

