D+Z

Drendel + Zweiling
DIAMANT GmbH

# 2014

Feb. 2014 · Stand: Feb. 2014

## DRENDEL + ZWEILING

**The pioneer in preparation technique**

The company was founded in Berlin on August 1st, 1920 by Wilhelm Hugo Drendel and Fritz Zweiling.
During the first years, Drendel + Zweiling focused on the production and distribution of special dental instruments.
However, it was not long before the company started intense research into the production of diamond instruments.

With the invention of the galvanic coating process in 1932, Drendel + Zweiling's constant strive for improvement was crowned with success. Drendel + Zweiling became a pioneer in the production of advanced dental diamond instruments.

Further milestones in the development of dentistry:
• FG programme INTERNATIONAL

Drendel + Zweiling has always been customer orientated and therefore constantly extended their range for the dental practice and laboratory.

Today, the instrument range includes the following products:
• diamond instruments and discs
• tungsten carbide burs and finishers
• surgical instruments
• polishers
• instrument sets
• bur blocks
• diamond coated forceps
• instruments for ENT and neurosurgery

## DRENDEL + ZWEILING

***Pionier der Präparationstechnik***

*Das Unternehmen wurde am 1. August 1920 von Wilhelm Hugo Drendel und Fritz Zweiling in Berlin gegründet.*
*Zunächst beschäftigte man sich mit der Herstellung und dem Vertrieb von Dentalspezialitäten.*
*Doch schon bald wurde mit der Forschung für die Fertigung von Diamantinstrumenten und Werkzeugen begonnen.*
*Im Jahre 1932 waren die ständigen Bemühungen um Verbesserungen von Erfolg gekrönt, das galvanische Diamantierungsverfahren war erfunden.*

*Drendel + Zweiling wurde damit zum Wegbereiter der modernen Diamantinstrumente für die Zahnheilkunde.*
*Weitere Meilensteine in der Entwicklung der Zahnheilkunde:*
*• FG-Programm INTERNATIONAL.*

*Drendel + Zweiling hat sich schon immer an den Kundenwünschen orientiert und deshalb das Angebot für Praxis und Labor erweitert und stets angepasst.*

*Ab sofort umfasst das Liefersortiment folgende Produktbereiche:*
*• Diamantinstrumente und -scheiben*
*• Hartmetallbohrer*
*• Finierer*
*• Chirurgische Instrumente*
*• Polierer*
*• Sätze*
*• Diamantierte Extraktionszangen*
*• Instrumente für HNO- und Neurochirurgie*

# Icons and Diamond grit sizes | *Pictogramme und Diamant-Körnungen*

Cavity preparation
*Kavitätenpräparation*

Crown preparation
*Kronenpräparation*

Working on fillings
*Füllungsbearbeitung*

Crown cutting
*Kronentrennen*

Removal of old fillings
*Ausbohren alter Füllungen*

Root planing
*Wurzelglättung*

Milling technique
*Feinwerktechnik*

Angle
*Winkel*

Prophylaxis
*Prophylaxe*

Oral surgery
*Kieferchirurgie*

for single-use only
*nur zum Einmalgebrauch*

Root planing
*Wurzelglättung*

Root canal preparation
*Wurzelkanalaufbereitung*

Crown and bridge technique
*Kronen-/Brückentechnik*

Acrylic technique
*Kunststofftechnik*

Model fabrication
*Modellherstellung*

Model casting technique
*Modellgusstechnik*

Bevel cut (milling)
*Fasenschliff*

Gnatho-orthopaedics
*KFO*

cutting tip
*schneidende Spitze*

REF
Order No.
*Bestellnummer*

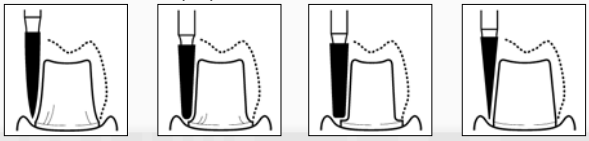
ISO
ISO No.
*ISO-Nummer*

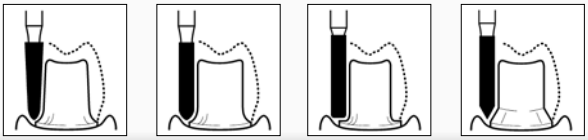
LOT
Lot number – for traceability of the respective production batch
*Lotnummer – ermöglicht die Rückverfolgbarkeit der entsprechenden Produktionscharge*

opt.
Speed recommendation
*Drehzahlempfehlung*

max.
Maximum permissible speed
*maximal zulässige Drehzahl*

Various types of crown preparation
*Varianten der Kronenpräparation*





## Diamond grit sizes · *Diamant-Körnungen*

| | | |
|---|---|---|
| U = | ultra-fine · *ultrafein* | 10 µm |
| C = | extra-fine · *extrafein* | 25 µm |
| F = | fine · *fein* | 46 µm |
| – = | medium · *mittel* | 105–120 µm * |
| G = | coarse · *grob* | 126–150 µm * |
| SG = | super-coarse · *supergrob* | 180 µm * |

**)* With some instruments the grit size may deviate from the specified value in relation to their shape and size.**

*Die Korngröße kann in Abhängigkeit von Instrumentenform und -größe bei einzelnen Instrumenten vom genannten Wert abweichen.*

Please note that the various instruments within each product group (e.g. diamonds or tungsten carbide) are sorted by their reference number, i.e. 368, 368A, 369, etc. in ascending order.
Exception: polishers are sorted by their field of application, e.g. polishers for ceramics.

*Bitte beachten Sie, dass die Instrumente innerhalb jeder Produktgruppe (z.B. Diamant- oder Hartmetallinstrumente) aufsteigend nach Referenznummer sortiert sind, d.h. 368, 368A, 369, etc.*
*Ausnahme: lediglich die Polierer sind nach ihrem Anwendungsgebiet sortiert, z.B. Polierer für die Keramikbearbeitung.*

## Table structure/Ordering options | *Tabellenstruktur/Bestellmöglichkeiten*

**Instrument** *Instrument/Werkzeug*

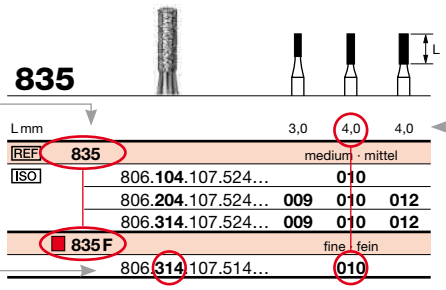
Enlarged representation of the head portion. *Vergrößerte Darstellung des Kopfbereiches.*

**Colour coding + REF number** *Farbmarkierung + REF-Bestellnummer*

The colour coding indicates the grit size or type of toothing. *Die Farbmarkierung gibt jeweils Auskunft über die Körnungsgröße bzw. die Verzahnung.*

**Shank type** ISO 6360 *Schaftart* ISO 6360

Attention: With extra-long head and/or neck the overall length will change! *Achtung: Bei Instrumenten mit überlanger Kopf- und/oder Halsform verändert sich die Gesamtlänge!*




**Line drawings 1:1** *Strichzeichnungen 1:1*

The line drawings show the actual size of the individual instruments. *Die Strichzeichnungen geben zusätzlich Orientierung über die Originalgröße der jeweiligen Instrumente und Werkzeuge.*

**Dimensions/designations** *Maße/Bezeichnungen*

The designations, numbers, sizes and production dimensions mainly correspond to the currently applicable ISO and DIN standards. *Die Bezeichnungen, Numerierungen, Größenangaben und Fertigungsmaße entsprechen überwiegend den zur Zeit gültigen ISO- und DIN-Normen.*

## How to order? | *Wie bestelle ich?*

You can either use the REF order number or the ISO numbering system when placing an order. *Sie können die Bestellung Ihres gewünschten Instrumentariums mit Hilfe der REF-Bestellnummer oder des ISO-Nummernsystems vornehmen.*

Please specify the REF order number
+ shank type number
+ the respective size.

***REF-Bestellnummer***

*Notieren Sie bitte die REF-Bestellnummer*
*+ Schaftartnummer*
*+ die jeweilige Größenangabe.*

Please specify the ISO number
+ the respective size.

***ISO-Bestellnummer***

*Nach ISO notieren Sie bitte die ISO-Nummer*
*+ die jeweilige Größenangabe.*

| **Sample Order** | *Bestellbeispiel* | **Order by REF No.** | *Bestellung nach REF Nr.* | **Order by ISO No.** | *Bestellung nach ISO Nr.* |
|---|---|---|---|---|---|
| 835 | **Medium Grain** *Mittlere Körnung* | **835 + .314. + 010** | **or** / *oder* | **806.314.107.524. + 010** | |
| 835F | **Fine Grain** *Feine Körnung* | **835F + .314. + 010** | **or** / *oder* | **806.314.107.514. + 010** | |

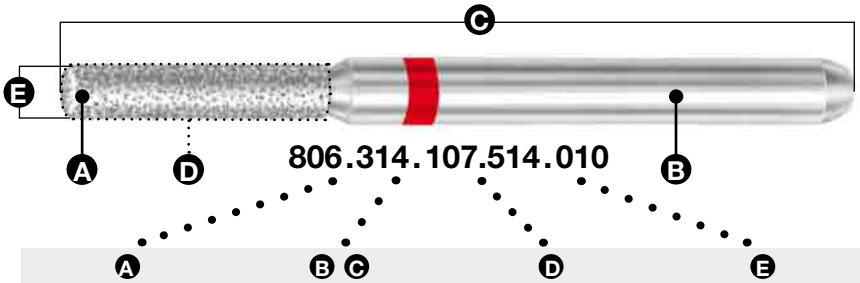
## Numbering system | *Nummernsystem* ISO 6360

Some features of rotary instruments are already internationally standardized. For example, coupling dimensions, shank diameter and shank type (ISO 1797) as well as the sizes (ISO 2157). The international harmonization of instrument designations is guaranteed by the ISO numbering system.

The ISO order number consists of a certain number code indicating specific instrument-related data for clear identification.

*Verschiedene Bereiche der rotierenden Instrumente sind international bereits genormt. Hierzu gehören die Anschlussmaße mit Schaftdurchmesser und Schaftart (ISO 1797) und die Größenangaben (ISO 2157). Die internationale Vereinheitlichung der Instrumentenbezeichnungen wird durch das ISO-Nummernsystem sichergestellt.*

*Die ISO-Bestellnummer besteht aus einem festen Nummerncode, der Auskunft gibt über bestimmte instrumenten- und werkzeugbezogene Daten, die eine eindeutige Identifizierung ermöglichen.*




**A** **Material of the working part**
- Diamond, galvanic metal bond

***Werkstoff des Arbeitsteils***
- *Diamant, galvanische Metallbindung*

**B C** **Shank and overall length**
- FG
- 19 mm coupling dimensions according to ISO 1797

***Schaft und Gesamtlänge***
- *FG*
- *19 mm Anschlussmaße nach ISO 1797*

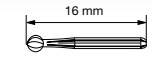
**D** **Shape and design**
- cylindrical, round edges
- fine grit, hard bond

***Form und Ausführung***
- *zylindrisch, Ecken rund*
- *feine Körnung, harte Bindung*

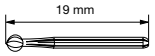
**E** **Nominal size** ISO 2157
- Largest diameter of the working part ($^{1}/_{10}$mm)

***Nenngröße*** *ISO 2157*
- *größter Durchmesser des Arbeitsteils ($^{1}/_{10}$mm)*

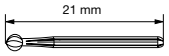
**Shank type** | *Schaftarten* ISO 6360 · ISO 1797



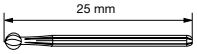

**313** · FG short
*FG kurz* Ø 1,60 mm



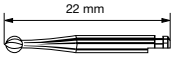

**314** · FG (Friction Grip)
*FG* Ø 1,60 mm



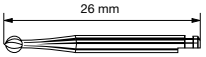

**315** · FG long
*FG lang* Ø 1,60 mm



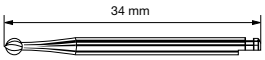

**316** · FG extra-long
*FG extra lang* Ø 1,60 mm



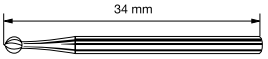

**204** · Right-angle
*Winkelstück* Ø 2,35 mm



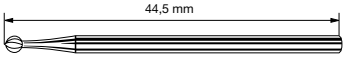

**205** · Right-angle long
*Winkelstück lang* Ø 2,35 mm



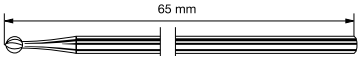

**206** · Right-angle extra-long
*Winkelstück extra lang* Ø 2,35 mm




**103** · Handpiece short (HPS)
*Handstück kurz* Ø 2,35 mm




**104** · Handpiece
*Handstück* Ø 2,35 mm




**105** · Handpiece long (HPL)
*Handstück lang* Ø 2,35 mm

**Preparation instruments** | *Präparationsinstrumente*

Bud
*Knospe* 7

Egg
*Ei* 7

Special
*Spezialform* 7

Grenade
*Granate* 7, 18

Interdental
*Interdental* 7

Round
*Rund* 8

Inverted cone
*Umgekehrter Kegel* 8

Double cone
*Doppelkegel* 9

Diabolo
*Diabolo* 9

Wheel
*Reifen* 9, 18

Groove
grinding instruments
*Rillenschleifer* 9

Lenticular
*Linse* 10

Onion-shaped
*Zwiebelform* 10

Concave
*Konkav* 10

Pear
*Birne* 9, 10

Cylinder
*Zylinder* 10–11

Cylinder round
*Zylinder rund* 11, 17

Cylinder pointed
*Zylinder spitz* 17

Cylinder, end-cutting only
*Zylinder, Stirn schneidend* 11

Tapered
*Konisch* 12–13

Tapered round
*Konisch rund* 13–14, 18

Tapered,
ellipse-shaped
*Konisch, Ellipse* 13, 15

Pointed
*Spitz* 14, 18

Flame
*Flamme* 15

Needle-shaped
*Nadelform* 15, 17, 18

Torpedo
*Torpedo* 16

Torpedo tapered
*Torpedo, konisch* 16

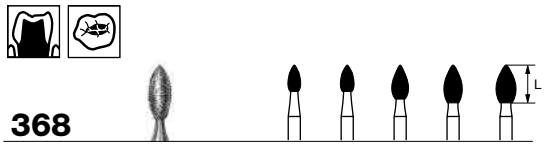
Palatinal
grinding instruments
*Palatinalschleifer* 18



Please note that the various instruments within each product group (e.g., diamond burs, Intec or sintered diamonds) are sorted by their reference number in ascending order.

*Bitte beachten Sie, dass die Instrumente innerhalb jeder Produktgruppe (z.B. Diamantschleifer, Intec-Diamanten oder Sinterdiamanten) aufsteigend nach Referenznummer sortiert sind.*

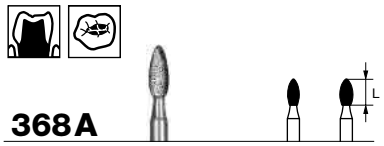
## 368



| L mm | | 3,5 | 3,5 | 4,5 | 5,0 | 5,0 |
|---|---|---|---|---|---|---|
| REF | **368** | | | | | |
| ISO | 806.**204**.257.524… | | | | **023** | |
| | 806.**314**.257.524… | **016** | **018** | **021** | **023** | |
| ■ | **368SG** | | | | | |
| | 806.**314**.257.544… | | | | **023** | |
| ■ | **368G** | | | | | |
| | 806.**314**.257.534… | **016** | | **021** | **023** | |
| ■ | **368F** | | | | | |
| | 806.**204**.257.514… | | | | **023** | |
| | 806.**314**.257.514… | **016** | **018** | **021** | **023** | |
| □ | **368C** | | | | | |
| | 806.**204**.257.504… | | | | | **025** |
| | 806.**314**.257.504… | **016** | **018** | **021** | **023** | |

021–025 = max. 300 000 min⁻¹

## 368A



| L mm | | 3,5 | 3,5 |
|---|---|---|---|
| REF | **368A** | | |
| ISO | 806.**314**.254.524… | **016** | **018** |
| ■ | **368AG** | | |
| | 806.**314**.254.534… | **016** | |
| ■ | **368AF** | | |
| | 806.**314**.254.514… | **016** | |
| □ | **368AC** | | |
| | 806.**314**.254.504… | **016** | |
| □ | **368AU** | | |
| | 806.**314**.254.494… | **016** | |

## 369

| L mm | | 5,5 |
|---|---|---|
| REF | **369** | |
| ISO | 806.**314**.263.524… | **025** |

025 = max. 160 000 min⁻¹

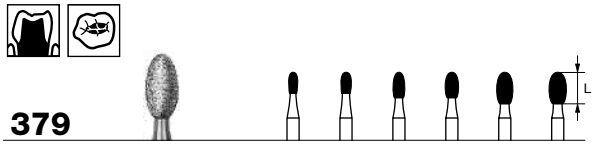
Occlu-Former

## 369A

| L mm | | 5,0 | 5,0 |
|---|---|---|---|
| REF | **369A** | | |
| ISO | 806.**314**.506.524… | **018** | **023** |
| ■ | **369AG** | | |
| | 806.**314**.506.534… | | **023** |
| ■ | **369AF** | | |
| | 806.**314**.506.514… | **018** | |

023 = max. 300 000 min⁻¹

## 379



| L mm | | 2,8 | 2,8 | 3,4 | 3,4 | 4,2 | 4,2 |
|---|---|---|---|---|---|---|---|
| REF | **379** | | | | | | |
| ISO | 806.**314**.277.524… | | **014** | | **018** | | **023** |
| ■ | **379SG** | | | | | | |
| | 806.**314**.277.544… | | | | | | **023** |
| ■ | **379G** | | | | | | |
| | 806.**314**.277.534… | | | | | | **023** |
| ■ | **379F** | | | | | | |
| | 806.**204**.277.514… | | | | | | **023** |
| | 806.**314**.277.514… | **012** | | **016** | **018** | **021** | **023** |
| □ | **379C** | | | | | | |
| | 806.**314**.277.504… | | | **016** | **018** | | **023** |

021 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹

## 379 B

| L mm | | 4,3 |
|---|---|---|
| REF | **379 B** | |
| ISO | 806.**314**.277.524… | **020** |

020 = max. 300 000 min⁻¹

## 390

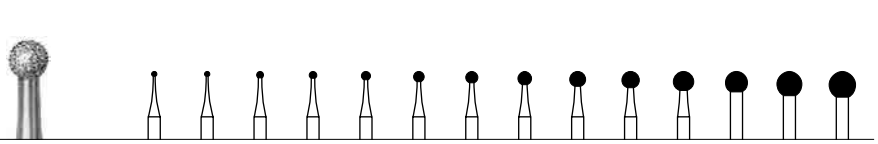
| L mm | | 3,5 |
|---|---|---|
| REF | **390** | |
| ISO | 806.**314**.274.524… | **016** |
| ■ | **390F** | |
| | 806.**314**.274.514… | **016** |
| □ | **390C** | |
| | 806.**314**.274.504… | **016** |

## 392

| L mm | | 5,0 | 5,0 |
|---|---|---|---|
| REF | **392** | | |
| ISO | 806.**314**.465.524… | | **016** |
| ■ | **392F** | | |
| | 806.**314**.465.514… | | **016** |
| □ | **392C** | | |
| | 806.**314**.465.504… | **014** | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = □ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

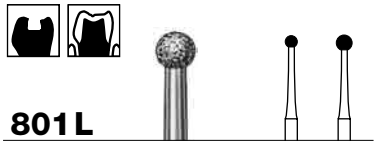
## 801



| REF | 801 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**104**.001.524… | | | 008 | | 010 | 012 | 014 | 016 | 018 | 021 | 023 | 027 | | 033 | |
| | 806.**204**.001.524… | | | | 009 | 010 | 012 | 014 | 016 | 018 | 021 | 023 | 027 | | 033 | |
| | 806.**314**.001.524… | 007 | 008 | 009 | 010 | 012 | 014 | 016 | 018 | 021 | 023 | | 029 | 033 | 035 |
| | **801 G** | | | | | | | | | | | | | | |
| | 806.**314**.001.534… | | | 009 | 010 | 012 | 014 | 016 | 018 | 021 | 023 | | 029 | | |
| | **801 F** | | | | | | | | | | | | | | |
| | 806.**204**.001.514… | | | | | | | | | 018 | | 023 | | 033 | |
| | 806.**314**.001.514… | | | | | | | 014 | | 018 | 021 | 023 | | 029 | 033 |
| | **801 C** | | | | | | | | | | | | | | |
| | 806.**204**.001.504… | | | | | | | | | | | 023 | | | |
| | 806.**314**.001.504… | | | | | | 012 | 014 | 016 | 018 | | 023 | | 029 | |

023 = max. 300 000 min⁻¹ 033 = max. 120 000 min⁻¹
029 = max. 140 000 min⁻¹ 035 = max. 120 000 min⁻¹

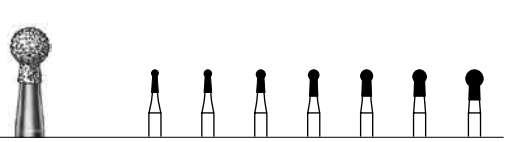
## 801 L



| REF | 801 L | | |
|---|---|---|---|
| ISO | 806.**314**.697.524… | | 016 |
| | **801 L SG** | | |
| | 806.**314**.697.544… | | 016 |
| | **801 L G** | | |
| | 806.**314**.697.534… | 016 | 021 |

016 = max. 300 000 min⁻¹
021 = max. 300 000 min⁻¹

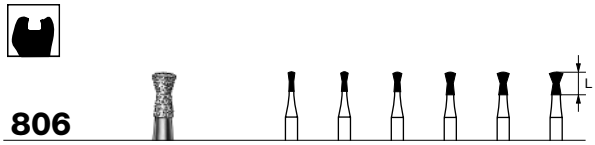
## 802



| L mm | | 3,0 | 3,0 | 3,0 | 3,5 | 3,5 | 3,5 | 4,0 |
|---|---|---|---|---|---|---|---|---|
| REF | 802 | | | | | | | |
| ISO | 806.**314**.002.524… | 009 | 010 | 012 | 014 | 016 | 018 | 023 |
| | **802 G** | | | | | | | |
| | 806.**314**.002.534… | | 010 | 012 | 014 | | | |

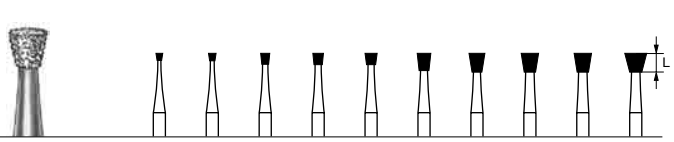
023 = max. 300 000 min⁻¹

## 806



| L mm | | 2,5 | 2,5 | 2,5 | 3,0 | 3,0 | 3,0 |
|---|---|---|---|---|---|---|---|
| REF | 806 | | | | | | |
| ISO | 806.**314**.019.524… | 009 | 010 | 012 | 014 | 016 | 018 |
| | **806 G** | | | | | | |
| | 806.**314**.019.534… | | 010 | 012 | 014 | 016 | |

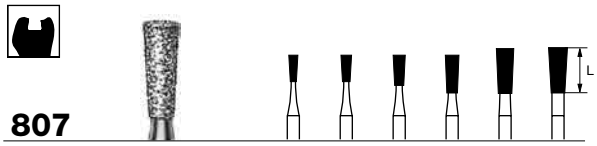
## 805



| L mm | | 1,0 | 1,0 | 1,5 | 1,5 | 1,5 | 2,3 | 2,5 | 2,5 | 2,5 | 3,0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| REF | 805 | | | | | | | | | | |
| ISO | 806.**104**.010.524… | | | 012 | 014 | 016 | 018 | 021 | | 025 | 027 |
| | 806.**204**.010.524… | | | 012 | | | | | | | |
| | 806.**314**.010.524… | 009 | 010 | 012 | 014 | 016 | 018 | | 023 | | |
| | **805 G** | | | | | | | | | | |
| | 806.**314**.010.534… | | 010 | 012 | 014 | 016 | 018 | | | | |
| | **805 F** | | | | | | | | | | |
| | 806.**314**.010.514… | | | | 014 | | | | | | |

025 = max. 160 000 min⁻¹

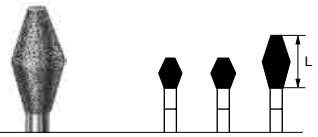
## 807



| L mm | | 3,5 | 3,5 | 4,0 | 5,0 | 6,0 | 6,0 |
|---|---|---|---|---|---|---|---|
| REF | 807 | | | | | | |
| ISO | 806.**104**.225.524… | | | | 018 | 023 | 025 |
| | 806.**314**.225.524… | 012 | 014 | 016 | 018 | | |
| | **807 G** | | | | | | |
| | 806.**314**.225.534… | | 014 | 016 | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = ☐ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

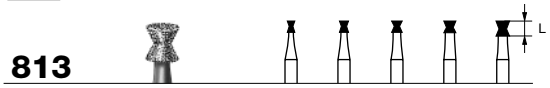
## 811



| L mm | | 4,2 | 4,2 | 7,0 |
|---|---|---|---|---|
| REF | **811** | | | |
| ISO | 806.**314**.038.524… | **031** | **033** | **037** |

031 = max. 140 000 min⁻¹ 037 = max. 100 000 min⁻¹
033 = max. 100 000 min⁻¹

## 813



| L mm | | 1,5 | 1,5 | 1,5 | 1,5 | 2,0 |
|---|---|---|---|---|---|---|
| REF | **813** | | | | | |
| ISO | 806.**314**.032.524… | **010** | **012** | **014** | **016** | **018** |

## 815

| L mm | | 0,5 | 0,8 |
|---|---|---|---|
| REF | **815** | | |
| ISO | 806.**314**.040.524… | **014** | **035** |

035 = max. 100 000 min⁻¹

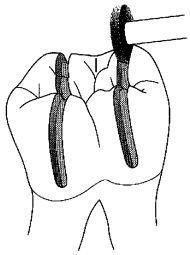
## 818

| L mm | | 0,6 | 0,6 |
|---|---|---|---|
| REF | **818** | | |
| ISO | 806.**314**.041.524… | **047** | **050** |

047 = max. 80 000 min⁻¹
050 = max. 80 000 min⁻¹

## 822

| L mm | | 2,0 | 2,0 |
|---|---|---|---|
| REF | **822** | | |
| ISO | 806.**314**.232.524… | **008** | **009** |



## 824

| L mm | | 0,6 | 0,6 |
|---|---|---|---|
| REF | **824** | | |
| ISO | 806.**314**.055.524… | **037** | **047** |

037 = max. 100 000 min⁻¹ 047 = max. 90 000 min⁻¹

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

## 825

| REF | 825 | | |
|---|---|---|---|
| ISO | 806.**104**.304.524… | **023** | |
| | 806.**314**.304.524… | **023** | **042** |

023 = max. 300 000 min⁻¹
042 = max. 80 000 min⁻¹

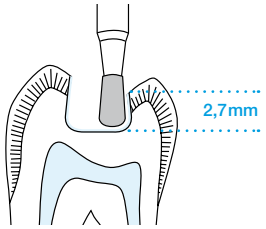
## 827

| L mm | | 4,2 |
|---|---|---|
| REF | 827 C | |
| ISO | 806.**314**.464.504… | **018** |

## 833

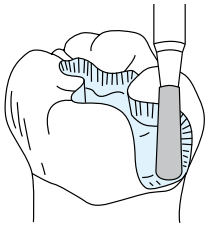
| L mm | | 3,5 |
|---|---|---|
| REF | 833 F | |
| ISO | 806.**314**.466.514… | **031** |
| | 833 C | |
| | 806.**314**.466.504… | **031** |

031 = max. 140 000 min⁻¹




The 2.7 mm working part serves as a depth control to avoid damage to the pulp.

*Die Kopflänge 2,7 mm dient als Tiefenlehre um Pulpenschäden zu vermeiden.*



Preparation of a cervical shoulder

*Anlegen einer zervikalen Stufe*

## 830

| L mm | | 2,7 | 2,7 | 2,7 | 2,7 | 2,7 |
|---|---|---|---|---|---|---|
| REF | 830 | | | | | |
| ISO | 806.**314**.233.524… | **009** | **010** | **012** | **014** | **016** |
| | 830 G | | | | | |
| | 806.**314**.233.534… | | **010** | **012** | **014** | **016** |

## 830 L

| L mm | | 4,0 | 4,0 | 5,0 | 5,0 | 5,0 |
|---|---|---|---|---|---|---|
| REF | 830 L | | | | | |
| ISO | 806.**314**.234.524… | **010** | **012** | **014** | **016** | **018** |
| | 830 L SG | | | | | |
| | 806.**314**.234.544… | | | **014** | | |
| | 830 L G | | | | | |
| | 806.**314**.234.534… | | **012** | **014** | **016** | **018** |

## 830 RLA

| L mm | | 4,7 |
|---|---|---|
| REF | 830 RLA | |
| ISO | 806.**314**.237.524… | **032** |

032 = max. 100 000 min⁻¹

## 835

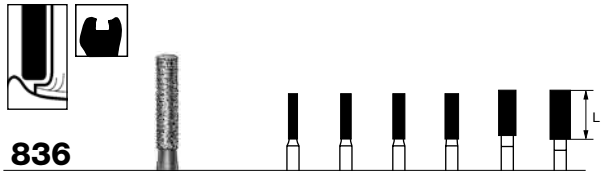
| L mm | | 3,0 | 3,0 | 3,0 | 4,0 | 4,0 | 4,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|---|---|---|---|
| REF | 835 | | | | | | | | |
| ISO | 806.**104**.107.524… | | | | **010** | | | | |
| | 806.**204**.107.524… | | | | **010** | **012** | | | |
| | 806.**314**.107.524… | **006** | **008** | **009** | **010** | **012** | **014** | **016** | **018** |
| | 835 G | | | | | | | | |
| | 806.**314**.107.534… | | | **009** | **010** | **012** | **014** | | |
| | 835 F | | | | | | | | |
| | 806.**314**.107.514… | | | | **010** | | **014** | | |

## 835 KR

| L mm | | 3,0 | 4,0 | 4,0 | 4,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|---|---|
| REF | 835 KR | | | | | | |
| ISO | 806.**314**.156.524… | **008** | **010** | **012** | **014** | **016** | **018** |
| | 835 KR G | | | | | | |
| | 806.**314**.156.534… | | **010** | **012** | **014** | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

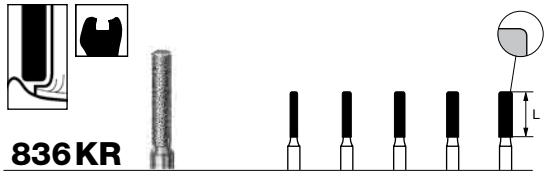
## 836



| L mm | | 6,0 | 6,0 | 6,0 | 6,0 | 6,0 | 6,5 |
|---|---|---|---|---|---|---|---|
| REF | **836** | | | | | | |
| ISO | 806.**104**.110.524… | | | | | **023** | **027** |
| | 806.**314**.110.524… | **012** | **014** | **016** | **018** | | |
| ■ | **836 SG** | | | | | | |
| | 806.**314**.110.544… | | **014** | | | | |
| ■ | **836 G** | | | | | | |
| | 806.**314**.110.534… | **012** | **014** | **016** | **018** | | |
| ■ | **836 F** | | | | | | |
| | 806.**314**.110.514… | **012** | | | | | |

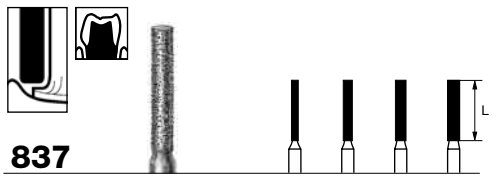
027 = max. 160 000 min⁻¹

## 836 KR



| L mm | | 6,0 | 6,0 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|---|---|
| REF | **836 KR** | | | | | |
| ISO | 806.**314**.157.524… | **010** | **012** | **014** | **016** | **018** |
| ■ | **836 KR G** | | | | | |
| | 806.**314**.157.534… | **010** | **012** | **014** | | |

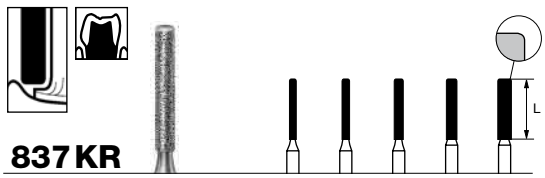
## 837



| L mm | | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | **837** | | | | |
| ISO | 806.**104**.111.524… | | | **014** | **016** |
| | 806.**204**.111.524… | | **012** | | |
| | 806.**314**.111.524… | **009** | **012** | **014** | **016** |
| ■ | **837 SG** | | | | |
| | 806.**314**.111.544… | | | **014** | |
| ■ | **837 G** | | | | |
| | 806.**314**.111.534… | | **012** | **014** | |

009 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹

## 837 KR



| L mm | | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|---|
| REF | **837 KR** | | | | | |
| ISO | 806.**314**.158.524… | **009** | **010** | **012** | **014** | |
| ■ | **837 KR G** | | | | | |
| | 806.**314**.158.534… | | | | **014** | **018** |
| ■ | **837 KR F** | | | | | |
| | 806.**314**.158.514… | | | **012** | | |
| ■ | **837 KR C** | | | | | |
| | 806.**314**.158.504… | | | | **014** | |

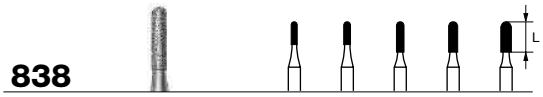
009 = max. 160 000 min⁻¹ 012 = max. 300 000 min⁻¹
010 = max. 160 000 min⁻¹

## 837 L

| L mm | | 10,0 | 10,0 |
|---|---|---|---|
| REF | **837 L** | | |
| ISO | 806.**314**.112.524… | | **014** |
| ■ | **837 L G** | | |
| | 806.**314**.112.534… | **012** | |

012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹

## 838



| L mm | | 3,0 | 3,0 | 4,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|---|
| REF | **838** | | | | | |
| ISO | 806.**314**.137.524… | **008** | **009** | **010** | **012** | **014** |
| ■ | **838 SG** | | | | | |
| | 806.**314**.137.544… | | | | **012** | |
| ■ | **838 G** | | | | | |
| | 806.**314**.137.534… | | | | **012** | **014** |
| ■ | **838 F** | | | | | |
| | 806.**314**.137.514… | | | | **012** | |

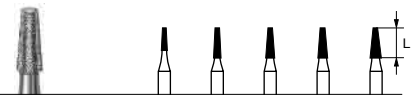
## 839

| REF | **839** | | |
|---|---|---|---|
| ISO | 806.**314**.150.524… | **010** | **012** |

010 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹

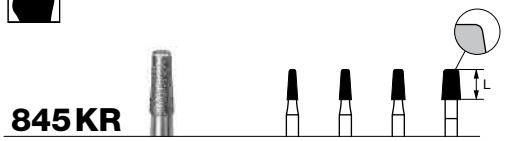
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

## 845



| L mm | | 3,0 | 4,0 | 4,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|---|
| REF | **845** | | | | | |
| ISO | 806.**314**.168.524… | **008** | **010** | **012** | | **016** |
| | **845 G** | | | | | |
| | 806.**314**.168.534… | | | **012** | **014** | |

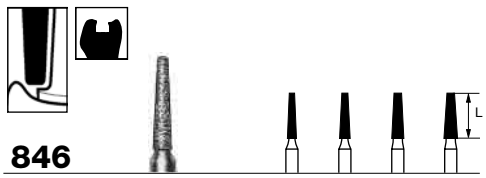
## 845 KR



| L mm | | 4,0 | 4,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|
| REF | **845 KR** | | | | |
| ISO | 806.**314**.544.524… | **014** | **016** | **018** | **025** |
| | **845 KR F** | | | | |
| | 806.**314**.544.514… | | **016** | **018** | **025** |

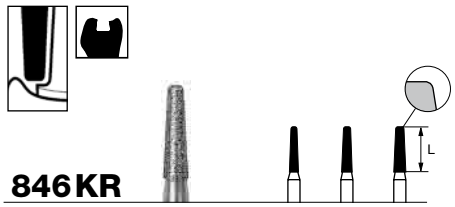
025 = max. 160 000 min⁻¹

## 846



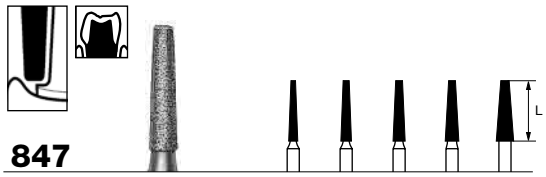
| L mm | | 6,0 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|---|
| REF | **846** | | | | |
| ISO | 806.**314**.171.524… | **012** | **014** | **016** | **018** |
| | **846 G** | | | | |
| | 806.**314**.171.534… | **012** | | **016** | |

## 846 KR



| L mm | | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| REF | **846 KR** | | | |
| ISO | 806.**314**.545.524… | **012** | **014** | **016** |
| | **846 KR G** | | | |
| | 806.**314**.545.534… | | | **016** |

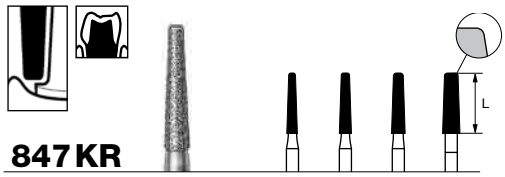
## 847



| L mm | | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|---|
| REF | **847** | | | | | |
| ISO | 806.**104**.172.524… | | | | | **023** |
| | 806.**314**.172.524… | **012** | **014** | **016** | **018** | **023** |
| | **847 SG** | | | | | |
| | 806.**314**.172.544… | | | **016** | | |
| | **847 G** | | | | | |
| | 806.**314**.172.534… | **012** | **014** | **016** | **018** | |
| | **847 F** | | | | | |
| | 806.**314**.172.514… | | **014** | | | |

012 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹

## 847 KR

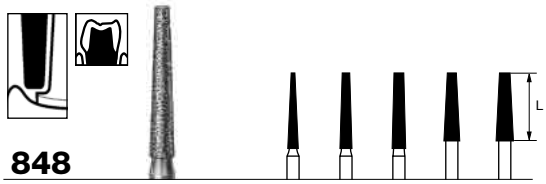


| L mm | | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | **847 KR** | | | | |
| ISO | 806.**314**.546.524… | **012** | **014** | **016** | **018** |
| | **847 KR G** | | | | |
| | 806.**314**.546.534… | | | **016** | **018** |

012 = max. 300 000 min⁻¹

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

## 848



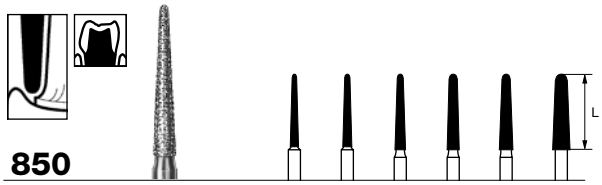

| L mm | | 10,0 | 10,0 | 10,0 | 9,0 | 9,0 |
|---|---|---|---|---|---|---|
| REF | **848** | | | | | |
| ISO | 806.**104**.173.524… | | **016** | | | **023** |
| | 806.**204**.173.524… | | **016** | | | |
| | 806.**314**.173.524… | **014** | **016** | **018** | **021** | **023** |
| | **848 SG** | | | | | |
| | 806.**314**.173.544… | | **016** | | | |
| | **848 G** | | | | | |
| | 806.**314**.173.534… | **014** | **016** | **018** | **021** | **023** |
| | **848 F** | | | | | |
| | 806.**314**.173.514… | | **016** | | | |

014 = max. 300 000 min⁻¹ · 021 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹ · 023 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹

## 849


| L mm | | 4,0 |
|---|---|---|
| REF | **849** | |
| ISO | 806.**314**.194.524… | **012** |
| | **849 G** | |
| | 806.**314**.194.534… | **012** |

## 850




| L mm | | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|---|
| REF | **850** | | | | | | |
| ISO | 806.**104**.199.524… | | | | **016** | **018** | **023** |
| | 806.**204**.199.524… | | | | | **018** | |
| | 806.**314**.199.524… | **011** | **012** | **014** | **016** | **018** | **023** |
| | **850 SG** | | | | | | |
| | 806.**314**.199.544… | | | | **016** | | |
| | **850 G** | | | | | | |
| | 806.**314**.199.534… | | **012** | **014** | **016** | **018** | **023** |
| | **850 F** | | | | | | |
| | 806.**314**.199.514… | | **012** | **014** | **016** | | |
| | **850 C** | | | | | | |
| | 806.**314**.199.504… | | | | **016** | | |

011 = max. 160 000 min⁻¹ · 014 = max. 300 000 min⁻¹ · 018 = max. 300 000 min⁻¹
012 = max. 300 000 min⁻¹ · 016 = max. 300 000 min⁻¹ · 023 = max. 300 000 min⁻¹

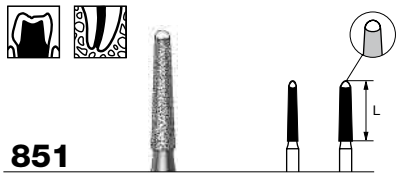
## 850 SMF


| L mm | | 10,0 |
|---|---|---|
| REF | **850 S MF** | |
| ISO | 806.**314**.199.XXX… | **011** |

011 = max. 160 000 min⁻¹

Break off the lamina.
*Aufbrechen der Schmelzlamellen.*

## 851

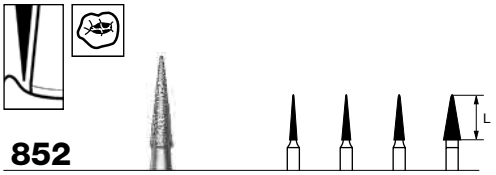



| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | **851** | | |
| ISO | 806.**314**.219.524… | **012** | **016** |

012 = max. 300 000 min⁻¹

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

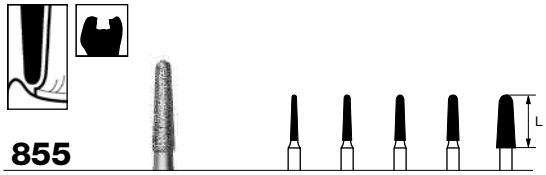
## 852



| L mm | | 6,0 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|---|
| REF | **852** | | | | |
| ISO | 806.**314**.164.524… | | **012** | | |
| | **852 G** | | | | |
| | 806.**314**.164.534… | | | | **023** |
| | **852 F** | | | | |
| | 806.**314**.164.514… | | **012** | **014** | |
| | **852 C** | | | | |
| | 806.**314**.164.504… | **010** | | **014** | |
| | **852 U** | | | | |
| | 806.**314**.164.494… | **010** | | | |

010 = max. 160 000 min⁻¹
023 = max. 300 000 min⁻¹

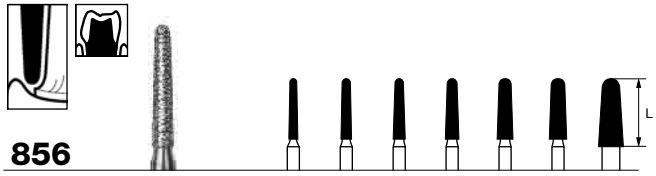
## 855



| L mm | | 6,0 | 6,0 | 6,0 | 6,0 | 7,0 |
|---|---|---|---|---|---|---|
| REF | **855** | | | | | |
| ISO | 806.**314**.197.524… | **010** | **012** | **014** | **016** | **025** |
| | **855 SG** | | | | | |
| | 806.**314**.197.544… | | | | | **025** |
| | **855 G** | | | | | |
| | 806.**314**.197.534… | | **012** | | **016** | **025** |
| | **855 F** | | | | | |
| | 806.**314**.197.514… | **010** | | | | |

010 = max. 160 000 min⁻¹
025 = max. 160 000 min⁻¹

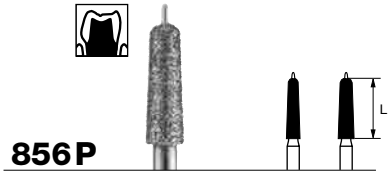
## 856



| L mm | | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 | 9,0 |
|---|---|---|---|---|---|---|---|---|
| REF | **856** | | | | | | | |
| ISO | 806.**104**.198.524… | | | | **018** | | | **033** |
| | 806.**314**.198.524… | **012** | **014** | **016** | **018** | **021** | | |
| | **856 SG** | | | | | | | |
| | 806.**314**.198.544… | | | **016** | **018** | | | |
| | **856 G** | | | | | | | |
| | 806.**314**.198.534… | **012** | **014** | **016** | **018** | **021** | **023** | |
| | **856 F** | | | | | | | |
| | 806.**314**.198.514… | **012** | **014** | **016** | **018** | **021** | **023** | |
| | **856 C** | | | | | | | |
| | 806.**314**.198.504… | **012** | | | | | | |

012 = max. 300 000 min⁻¹
021 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹
033 = max. 100 000 min⁻¹

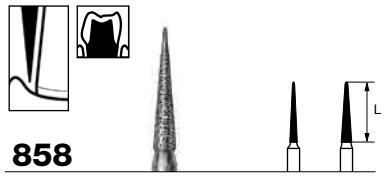
## 856 P



| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | **856 P** | | |
| ISO | 806.**314**. … .524… | **018** | **021** |
| | **856 PG** | | |
| | 806.**314**. … .534… | **018** | **021** |
| | **856 PF** | | |
| | 806.**314**. … .514… | **018** | **021** |

= max. 160 000 min⁻¹

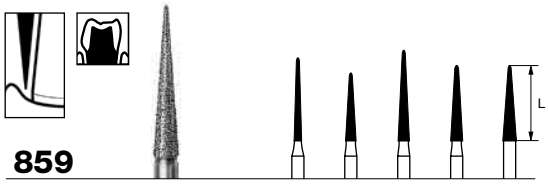
## 858



| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | **858** | | |
| ISO | 806.**104**.165.524… | | **014** |
| | 806.**314**.165.524… | **010** | **014** |
| | **858 G** | | |
| | 806.**314**.165.534… | | **014** |
| | **858 F** | | |
| | 806.**314**.165.514… | **010** | **014** |
| | **858 C** | | |
| | 806.**314**.165.504… | | **014** |

010 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹

## 859

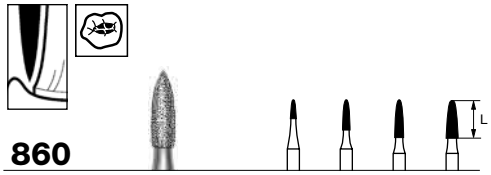


| L mm | | 11,0 | 9,0 | 12,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|
| REF | **859** | | | | | |
| ISO | 806.**104**.166.524… | | | | | **018** |
| | 806.**314**.166.524… | | **014** | | | **018** |
| | 806.**314**.167.524… | **010** | | **015** | | |
| | **859 G** | | | | | |
| | 806.**314**.166.534… | | **014** | | | **018** |
| | **859 F** | | | | | |
| | 806.**314**.166.514… | | **014** | | | **018** |
| | 806.**314**.167.514… | **010** | | | | |
| | **859 C** | | | | | |
| | 806.**314**.166.504… | **010** | **014** | | **016** | **018** |
| | **859 U** | | | | | |
| | 806.**314**.166.494… | | **014** | | | |

010 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
015 = max. 160 000 min⁻¹
016 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹

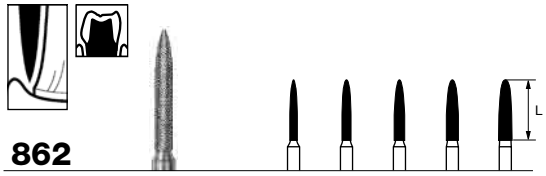
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

## 860



| L mm | | 2,5 | 4,0 | 5,0 | 5,0 |
|---|---|---|---|---|---|
| REF | **860** | | | | |
| ISO | 806.**314**.245.524… | | **010** | **012** | **016** |
| | **860 G** | | | | |
| | 806.**314**.245.534… | | | **012** | |
| | **860 F** | | | | |
| | 806.**314**.245.514… | | | **012** | |
| | **860 C** | | | | |
| | 806.**204**.245.504… | **009** | | | |
| | 806.**314**.245.504… | **009** | **010** | | |

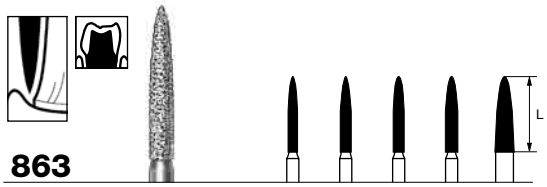
## 862



| L mm | | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|---|
| REF | **862** | | | | | |
| ISO | 806.**104**.249.524… | | | | **016** | **018** |
| | 806.**204**.249.524… | | | **014** | **016** | |
| | 806.**314**.249.524… | **010** | **012** | **014** | **016** | |
| | **862 SG** | | | | | |
| | 806.**314**.249.544… | | **012** | | | |
| | **862 G** | | | | | |
| | 806.**314**.249.534… | | **012** | **014** | **016** | |
| | **862 F** | | | | | |
| | 806.**314**.249.514… | **010** | **012** | **014** | | |
| | **862 C** | | | | | |
| | 806.**204**.249.504… | | | **014** | | |
| | 806.**314**.249.504… | **010** | **012** | **014** | **016** | |
| | **862 U** | | | | | |
| | 806.**314**.249.494… | | **012** | | | |

010 = max. 300 000 min⁻¹
012 = max. 300 000 min⁻¹

## 863



| L mm | | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|
| REF | **863** | | | | | |
| ISO | 806.**104**.250.524… | **012** | | **016** | | **025** |
| | 806.**314**.250.524… | **012** | **014** | **016** | **018** | |
| | **863 G** | | | | | |
| | 806.**314**.250.534… | **012** | **014** | **016** | **018** | |
| | **863 F** | | | | | |
| | 806.**204**.250.514… | | | **016** | | |
| | 806.**314**.250.514… | **012** | **014** | **016** | | |
| | **863 C** | | | | | |
| | 806.**204**.250.504… | **012** | | | | |
| | 806.**314**.250.504… | **012** | | **016** | | |

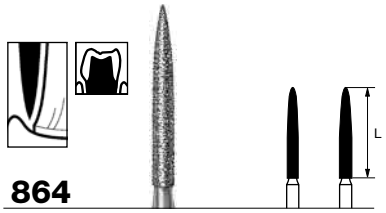
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹

## 863 GK

| L mm | | 10,0 |
|---|---|---|
| REF | **863 GK C** | |
| ISO | 806.**314**.256.504… | **012** |

012 = max. 300 000 min⁻¹

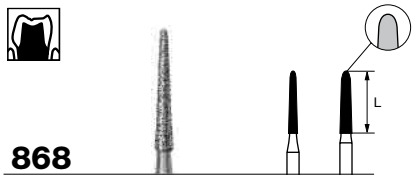
## 864



| L mm | | 12,0 | 12,0 |
|---|---|---|---|
| REF | **864** | | |
| ISO | 806.**314**.251.524… | **016** | |
| | **864 G** | | |
| | 806.**314**.251.534… | **016** | **018** |

016 = max. 160 000 min⁻¹
018 = max. 160 000 min⁻¹

## 868

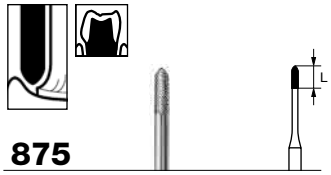


| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | **868** | | |
| ISO | 806.**314**.223.524… | **012** | **016** |

012 = max. 300 000 min⁻¹

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

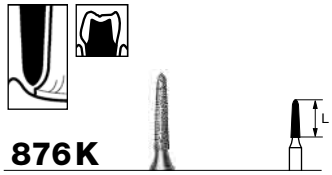
## 875



| L mm | 3,0 |
|---|---|
| REF | **875** |
| ISO | 806.**314**.535.524… **009** |

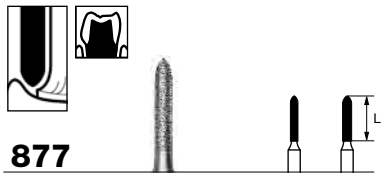
009 = max. 300 000 min⁻¹

## 876K



| L mm | 5,0 |
|---|---|
| REF | **876KG** |
| ISO | 806.**314**.296.534… **012** |

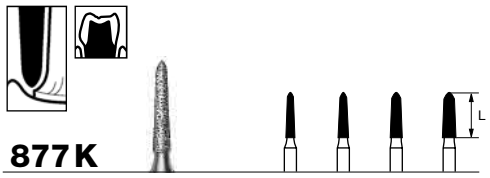
## 877



| L mm | 6,0 | 6,0 |
|---|---|---|
| REF | **877** | |
| ISO | 806.**314**.288.524… **010** | **012** |
| | **877G** | |
| | 806.**314**.288.534… **010** | **012** |
| | **877F** | |
| | 806.**314**.288.514… | **012** |

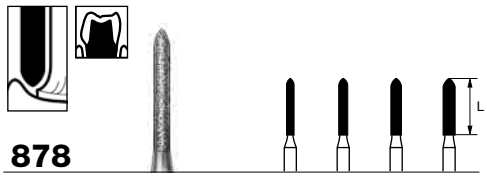
010 = max. 160 000 min⁻¹

## 877K



| L mm | 6,0 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| REF | **877K** | | | |
| ISO | 806.**314**.297.524… **012** | **014** | **016** | |
| | **877KG** | | | |
| | 806.**314**.297.534… **012** | **014** | **016** | **018** |

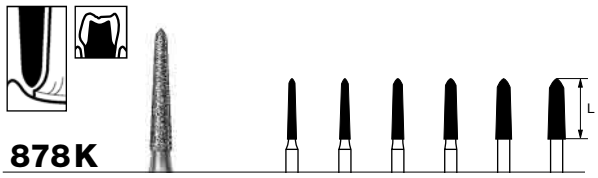
## 878



| L mm | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| REF | **878** | | | |
| ISO | 806.**314**.289.524… **010** | **012** | **014** | **016** |
| | **878G** | | | |
| | 806.**314**.289.534… **010** | **012** | **014** | **016** |
| | **878F** | | | |
| | 806.**314**.289.514… **010** | **012** | **014** | **016** |

010 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹

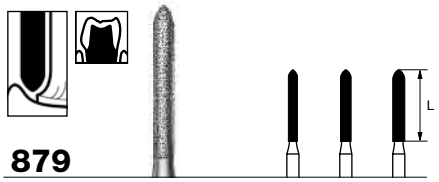
## 878K



| L mm | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|---|
| REF | **878K** | | | | | |
| ISO | 806.**314**.298.524… **012** | **014** | **016** | **018** | **021** | |
| | **878KSG** | | | | | |
| | 806.**314**.298.544… | | **016** | | | |
| | **878KG** | | | | | |
| | 806.**314**.298.534… **012** | **014** | **016** | **018** | **021** | **023** |
| | **878KF** | | | | | |
| | 806.**314**.298.514… | **014** | **016** | | | |

012 = max. 300 000 min⁻¹
021 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹

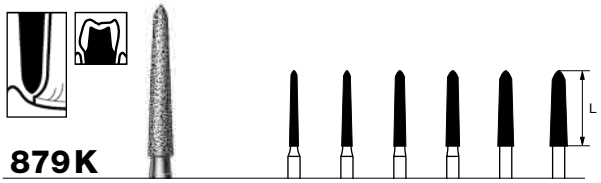
## 879



| L mm | 10,0 | 10,0 | 10,0 |
|---|---|---|---|
| REF | **879** | | |
| ISO | 806.**314**.290.524… **012** | **014** | |
| | **879G** | | |
| | 806.**314**.290.534… **012** | **014** | **016** |
| | **879F** | | |
| | 806.**314**.290.514… **012** | **014** | **016** |
| | **879C** | | |
| | 806.**314**.290.504… **012** | | |

012 = max. 160 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹

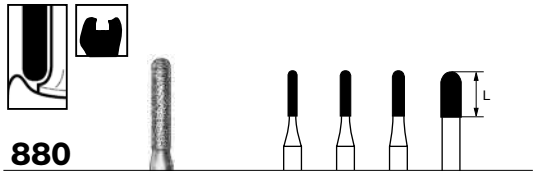
## 879K



| L mm | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|
| REF | **879K** | | | | | |
| ISO | 806.**314**.299.524… **012** | **014** | **016** | **018** | **021** | |
| | **879KG** | | | | | |
| | 806.**314**.299.534… **012** | **014** | **016** | **018** | **021** | **023** |

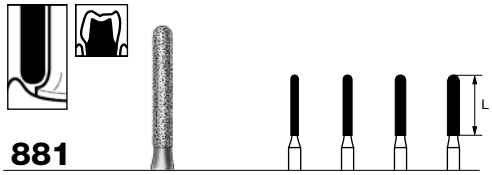
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹
021 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |



## 880

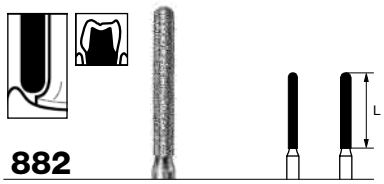
| L mm | | 6,0 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|---|
| REF | **880** | | | | |
| ISO | 806.**104**.140.524… | | | **016** | **027** |
| | 806.**314**.140.524… | **012** | **014** | **016** | |
| | **880 G** | | | | |
| | 806.**314**.140.534… | **012** | **014** | | |
| | **880 F** | | | | |
| | 806.**314**.140.514… | **012** | | | |



## 881

| L mm | | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | **881** | | | | |
| ISO | 806.**314**.141.524… | **010** | **012** | **014** | **016** |
| | **881 G** | | | | |
| | 806.**314**.141.534… | | **012** | **014** | **016** |
| | **881 F** | | | | |
| | 806.**314**.141.514… | **010** | **012** | **014** | **016** |

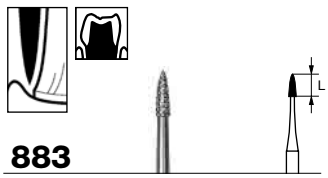
010 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹



## 882

| L mm | | 10,0 | 10,0 |
|---|---|---|---|
| REF | **882** | | |
| ISO | 806.**314**.142.524… | **012** | **014** |
| | **882 F** | | |
| | 806.**314**.142.514… | **012** | **014** |

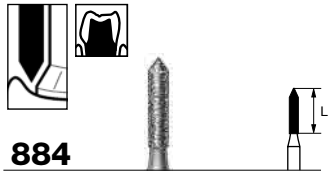
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹



## 883

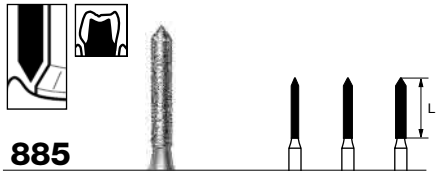
| L mm | | 3,0 |
|---|---|---|
| REF | **883 G** | |
| ISO | 806.**314**.539.534… | **010** |

010 = max. 300 000 min⁻¹



## 884

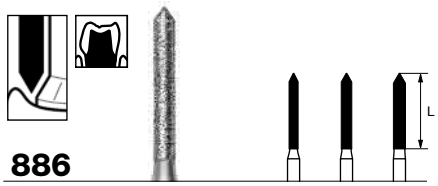
| L mm | | 6,0 |
|---|---|---|
| REF | **884** | |
| ISO | 806.**314**.129.524… | **012** |
| | **884 G** | |
| | 806.**314**.129.534… | **012** |
| | **884 F** | |
| | 806.**314**.129.514… | **012** |



## 885

| L mm | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| REF | **885** | | | |
| ISO | 806.**314**.130.524… | | **012** | **014** |
| | **885 G** | | | |
| | 806.**314**.130.534… | | **012** | **014** |
| | **885 F** | | | |
| | 806.**314**.130.514… | **010** | **012** | |

010 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹



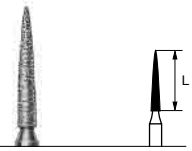
## 886

| L mm | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|
| REF | **886** | | | |
| ISO | 806.**314**.131.524… | **012** | **014** | **016** |
| | **886 G** | | | |
| | 806.**314**.131.534… | | **014** | **016** |
| | **886 F** | | | |
| | 806.**314**.131.514… | | **014** | |

012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | | |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | | |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | | |
| – | = | ISO 524 | without ring · *ohne Ring* | medium · *mittel* | 105–120 µm | | |
| G | = ■ | ISO 534 | Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm | | |
| SG | = ■ | ISO 544 | Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm | | |

## 888



| L mm | | 8,0 |
|---|---|---|
| REF | **888** | |
| ISO | 806.**314**.496.524… | **012** |

012 = max. 300 000 min⁻¹

## 889

| L mm | | 3,5 | 4,0 |
|---|---|---|---|
| REF | **889** | | |
| ISO | 806.**314**.540.524… | **009** | |
| | **889 G** | | |
| | 806.**314**.540.534… | **009** | **010** |
| | **889 F** | | |
| | 806.**314**.540.514… | **009** | **010** |

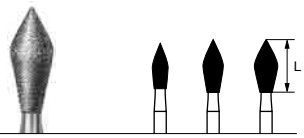
009 = max. 300 000 min⁻¹
010 = max. 300 000 min⁻¹

## 898

| L mm | | 10,5 |
|---|---|---|
| REF | **898** | |
| ISO | 806.**314**.213.524… | **016** |

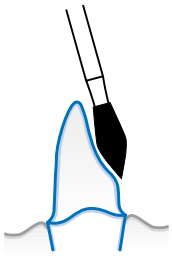
016 = max. 300 000 min⁻¹

## 899

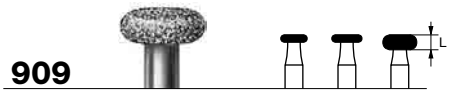


| L mm | | 6,5 | 7,0 | 7,0 |
|---|---|---|---|---|
| REF | **899** | | | |
| ISO | 806.**314**.033.524… | **021** | **027** | **031** |
| | **899 F** | | | |
| | 806.**314**.033.514… | **021** | **027** | |

021 = max. 300 000 min⁻¹
027 = max. 160 000 min⁻¹
031 = max. 140 000 min⁻¹



## 909



| L mm | | 1,0 | 1,0 | 2,0 |
|---|---|---|---|---|
| REF | **909** | | | |
| ISO | 806.**314**.068.524… | **035** | **040** | |
| | **909 G** | | | |
| | 806.**314**.068.534… | **035** | **040** | **045** |

035 = max. 100 000 min⁻¹
040 = max. 100 000 min⁻¹
045 = max. 80 000 min⁻¹

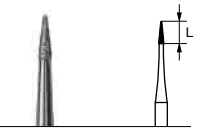
## 972

| L mm | | 4,0 |
|---|---|---|
| REF | **972 C** | |
| ISO | 806.**314**.XXX.504… | **020** |

## 973

| L mm | | 4,7 |
|---|---|---|
| REF | **973 F** | |
| ISO | 806.**314**.XXX.514… | **021** |
| | **973 C** | |
| | 806.**314**.XXX.504… | **021** |

## 955



| L mm | | 3,0 |
|---|---|---|
| REF | **955 F** | |
| ISO | 806.**314**.699.514… | **008** |
| | **955 C** | |
| | 806.**314**.699.504… | **008** |

max. 300 000 min⁻¹

## 956

| L mm | | 4,0 |
|---|---|---|
| REF | **956 F** | |
| ISO | 806.**314**.159.514… | **010** |
| | **956 C** | |
| | 806.**314**.159.504… | **010** |

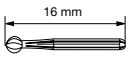
## 957

| L mm | | 3,0 |
|---|---|---|
| REF | **957 F** | |
| ISO | 806.**314**.195.514… | **009** |

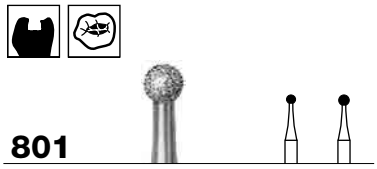
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# Diamond Instruments FG short
## *Diamantinstrumente FG kurz*

**313 · FG short** · *FG kurz*

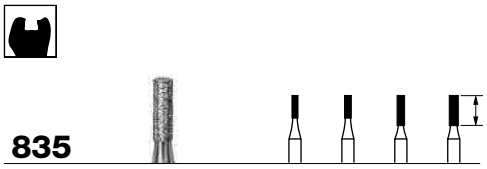



Ø 1,60 mm



**801**

| REF | 801 | | |
|---|---|---|---|
| ISO | 806.313.001.524… | 012 | 014 |
| 801 G | | | |
| | 806.313.001.534… | | 014 |



**835**

| L mm | | 3,0 | 3,0 | 4,0 | 4,0 |
|---|---|---|---|---|---|
| REF | 835 | | | | |
| ISO | 806.313.107.524… | 008 | 009 | 010 | 012 |

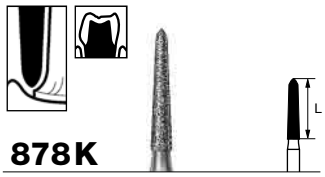

**856**

| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | 856 G | | |
| ISO | 806.313.198.534… | 016 | 018 |


**878**

| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | 878 | | |
| ISO | 806.313.289.524… | 012 | |
| 878 G | | | |
| | 806.313.289.534… | 012 | 014 |
| 878 F | | | |
| | 806.313.289.514… | | 014 |

012 = max. 300 000 min⁻¹




**878K**

| L mm | | 8,0 |
|---|---|---|
| REF | 878K | |
| ISO | 806.313.298.524… | 016 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# ZD Diamond abrasives
## *ZD-Zirkonschleifer*

NEW

**$ZrO_2$ – Diamond abrasives for work on zirconium oxide**

The popularity of tooth coloured restorations is constantly on the increase. Zirconium oxide has proven to be the perfect material for this application due to its reliable and durable properties, however, the great hardness of this material makes it very difficult to grind with conventional instruments.

Thanks to a special bonding and specially chosen diamond grains, these abrasive instruments facilitate efficient material reduction while creating a perfect surface finish without dark friction marks.

For optimal results we recommend to use the instruments in the red contra-angle at an optimal speed of 160,000 rpm.

***$ZrO_2$ – Diamantschleifer zur Zirkonbearbeitung***

*Zirkonoxid wird zu einem immer beliebteren Material für zahnfarbene Restaurationen. Es ist ein sehr zuverlässiger, langlebiger Werkstoff, der auf Grund seiner Härte aber schwer zu bearbeiten ist.*

*Mit den ZD-Diamanten stehen nun Spezialinstrumente zur Verfügung, die das Arbeiten auf Zirkonoxid erleichtern und effizienter machen. Durch eine spezielle Bindung und Diamantkornauswahl bieten die Schleifer eine hohe Abtragsleistung und erzielen gleichzeitig eine perfekte Oberfläche ohne dunkle Streifen durch zu hohe Reibung.*

*Bei Einsatz im roten Winkelstück und einer Drehzahl von 160.000 $min^{-1}$ erzielen die ZD-Schleifer optimale Ergebnisse.*

**ZD801**

REF ZD801
ISO 806.**314.**... . ... **014** **023**

**ZD856**

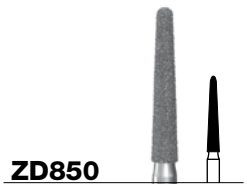
REF ZD856
ISO 806.**314.**... . ... **018**

**ZD881**

REF ZD881
ISO 806.**314.**... . ... **016**

**ZD379**

REF ZD379
ISO 806.**314.**... . ... **023**



**ZD850**

REF ZD850
ISO 806.**314.**... . ... **016**

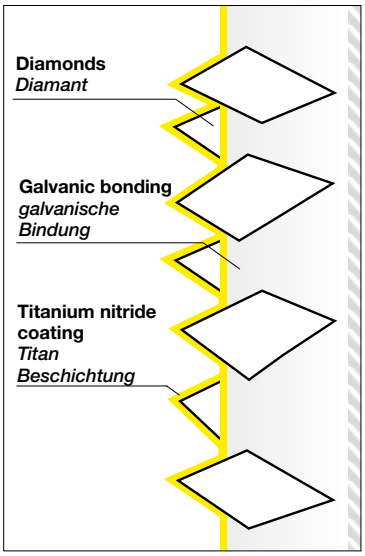
**ZD880CC**

REF ZD880CC
ISO 806.**314.**... . ... **012**

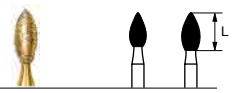
Crown cutter
*Kronentrenner*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# Titanium Nitride (TiN) Coated Instruments
## *TiN Instrumente*




### T 368

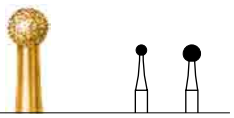



| L mm | | 2,2 | 5,0 |
|---|---|---|---|
| REF | **T 368** | | |
| ISO | 806.**314**.....524... | | **023** |
| ■ | **T 368 G** | | |
| | 806.**314**.....534... | **020** | **023** |
| ■ | **T 368 F** | | |
| | 806.**314**.....514... | **020** | **023** |

### T 379

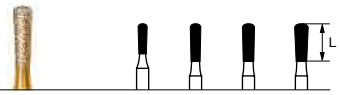

| L mm | | 4,2 |
|---|---|---|
| REF | **T 379** | |
| ISO | 806.**314**.....524... | **023** |
| ■ | **T 379 G** | |
| | 806.**314**.....534... | **023** |
| ■ | **T 379 F** | |
| | 806.**314**.....514... | **023** |

### T 801



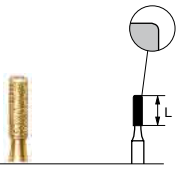
| | | |
|---|---|---|
| REF | **T 801** | |
| ISO | 806.**314**.....524... | **014** |
| ■ | **T 801 G** | |
| | 806.**314**.....534... | **014** **023** |

### T 830 L



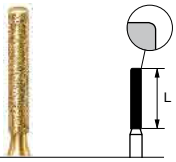

| L mm | | 4,0 | 5,0 | 5,0 | 5,0 |
|---|---|---|---|---|---|
| REF | **T 830 L** | | | | |
| ISO | 806.**314**.....524... | **012** | **014** | **016** | |
| ■ | **T 830 L G** | | | | |
| | 806.**314**.....534... | **012** | **014** | **016** | **018** |

### T 835 KR



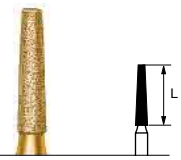

| L mm | | 4,0 |
|---|---|---|
| REF | **T 835 KR** | |
| ISO | 806.**314**.....524... | **012** |
| ■ | **T 835 KR G** | |
| | 806.**314**.....534... | **012** |

### T 837 KR



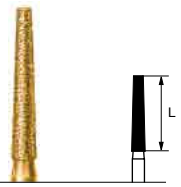

| L mm | | 8,0 |
|---|---|---|
| REF | **T 837 KR** | |
| ISO | 806.**314**.....524... | **014** |
| ■ | **T 837 KR G** | |
| | 806.**314**.....534... | **014** |

### T 847




| L mm | | 8,0 |
|---|---|---|
| REF | ■ **T 847 G** | |
| ISO | 806.**314**.....534... | **016** |

### T 848

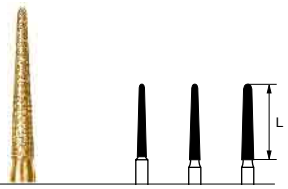



| L mm | | 10,0 |
|---|---|---|
| REF | ■ **T 848 G** | |
| ISO | 806.**314**.....534... | **018** |

018 = max. 160 000 min⁻¹

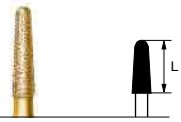
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | | |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | | |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | | |
| – | = | ISO 524 | without ring · *ohne Ring* | medium · *mittel* | 105–120 µm | | |
| G | = ■ | ISO 534 | Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm | | |
| SG | = ■ | ISO 544 | Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm | | |

## T 850



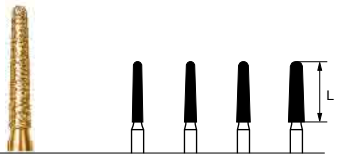
| L mm | | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|
| REF | | **T 850** | | | |
| ISO | | 806.**314.**....524... | **012** | **014** | |
| | ■ | **T 850 G** | | | |
| | | 806.**314.**....534... | **012** | **014** | **016** |
| | ■ | **T 850 F** | | | |
| | | 806.**314.**....514... | **012** | | |

## T 855



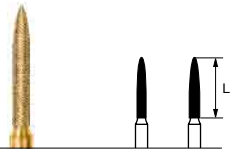
| L mm | | | 7,0 |
|---|---|---|---|
| REF | ■ | **T 855 G** | |
| ISO | | 806.**314.**....534... | **025** |

## T 856



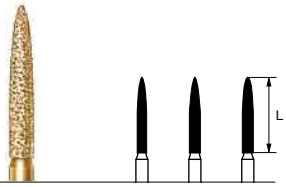
| L mm | | | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|---|
| REF | | **T 856** | | | | |
| ISO | | 806.**314.**....524... | | **016** | **018** | |
| | ■ | **T 856 G** | | | | |
| | | 806.**314.**....534... | **014** | **016** | **018** | **021** |

## T 862



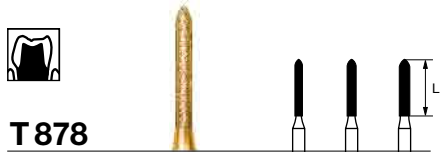
| L mm | | | 8,0 | 8,0 |
|---|---|---|---|---|
| REF | ■ | **T 862 G** | | |
| ISO | | 806.**314.**....534... | **012** | **014** |
| | ■ | **T 862 F** | | |
| | | 806.**314.**....514... | **012** | |

## T 863



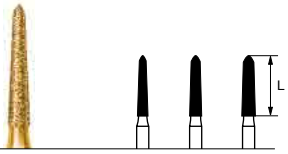
| L mm | | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|
| REF | ■ | **T 863 G** | | | |
| ISO | | 806.**314.**....534... | **012** | **014** | **016** |
| | ■ | **T 863 F** | | | |
| | | 806.**314.**....514... | **012** | **014** | **016** |

## T 878



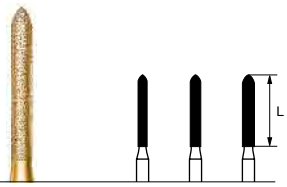
| L mm | | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | | **T 878** | | | |
| ISO | | 806.**314.**....524... | | **012** | **014** |
| | ■ | **T 878 G** | | | |
| | | 806.**314.**....534... | **010** | **012** | **014** |
| | ■ | **T 878 F** | | | |
| | | 806.**314.**....514... | | | **014** |

## T 878 K



| L mm | | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | | **T 878 K** | | | |
| ISO | | 806.**314.**....524... | | | **018** |
| | ■ | **T 878 K G** | | | |
| | | 806.**314.**....534... | **014** | **016** | **018** |

## T 879

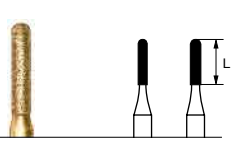


| L mm | | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|
| REF | | **T 879** | | | |
| ISO | | 806.**314.**....524... | | **014** | **016** |
| | ■ | **T 879 G** | | | |
| | | 806.**314.**....534... | **012** | **014** | **016** |
| | ■ | **T 879 F** | | | |
| | | 806.**314.**....514... | | **014** | **016** |

## T 879 K

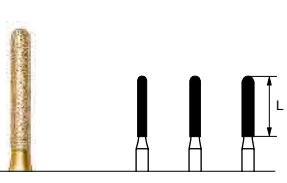
| L mm | | | 10,0 | 10,0 |
|---|---|---|---|---|
| REF | ■ | **T 879 K G** | | |
| ISO | | 806.**314.**....524... | **016** | **018** |

## T 880



| L mm | | | 6,0 | 6,0 |
|---|---|---|---|---|
| REF | ■ | **T 880 G** | | |
| ISO | | 806.**314.**....534... | **012** | **014** |

## T 881



| L mm | | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | | **T 881** | | | |
| ISO | | 806.**314.**....524... | **012** | | |
| | ■ | **T 881 G** | | | |
| | | 806.**314.**....534... | **012** | **014** | **016** |
| | ■ | **T 881 F** | | | |
| | | 806.**314.**....514... | **012** | **014** | **016** |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# Micropreparation
## *Mikropräparation*

① Initial situation:
Undermining fissure caries and proximal caries

*Ausgangssituation: Unterminierende Fissuren- und Approximalkaries*

② Minimally invasive opening and detection of the size of the carious defect with instrument **889B**.007

*Minimalinvasive Eröffnung und Darstellung der Größe des kariösen Defektes mit dem Instrumentenkopf **889B**.007*

③ Excavation of minimally undermining fissure caries with the pear-shaped instrument **830RB**.009

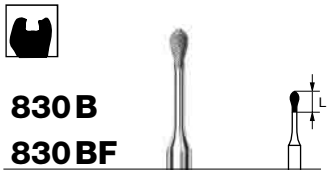
*Ausräumung von minimal unterminierender Karies im Bereich der Fissuren mit der Birnenform **830RB**.009*

④ Optimal vision even in deep areas due to the extremely thin instrument necks permitting good flow of coolant. Preparation with instrument **953B**.014

*Ausgezeichnete Sicht auch in tief untersichgehende Bereiche. Damit verbunden ist ein leichter Zufluss von Kühlflüssigkeit **953B**.014*

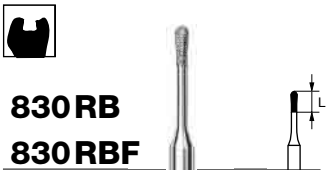
⑤ Aesthetic and anatomically perfect composite restoration

*Ästhetisch und anatomisch natürlich wirkende Composite-Restaurationen*



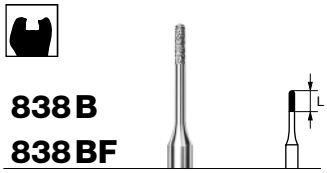
**830B**
**830BF**

| L mm | | 2,7 |
|---|---|---|
| REF | **830B** | |
| ISO | 806.**314**. … .524… | **012** |
| | **830BF** | |
| | 806.**314**. … .514… | **012** |



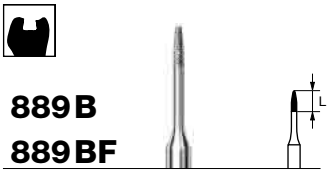
**830RB**
**830RBF**

| L mm | | 2,7 |
|---|---|---|
| REF | **830RB** | |
| ISO | 806.**314**. … .524… | **009** |
| | **830RBF** | |
| | 806.**314**. … .514… | **009** |



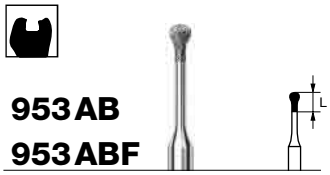
**838B**
**838BF**

| L mm | | 2,7 |
|---|---|---|
| REF | **838B** | |
| ISO | 806.**314**. … .524… | **007** |
| | **838BF** | |
| | 806.**314**. … .514… | **007** |



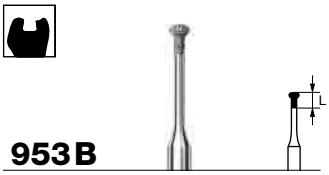
**889B**
**889BF**

| L mm | | 2,7 |
|---|---|---|
| REF | **889B** | |
| ISO | 806.**314**. … .524… | **007** |
| | **889BF** | |
| | 806.**314**. … .514… | **007** |



**953AB**
**953ABF**

| L mm | | 2,5 |
|---|---|---|
| REF | **953AB** | |
| ISO | 806.**314**. … .524… | **014** |
| | **953ABF** | |
| | 806.**314**. … .514… | **014** |



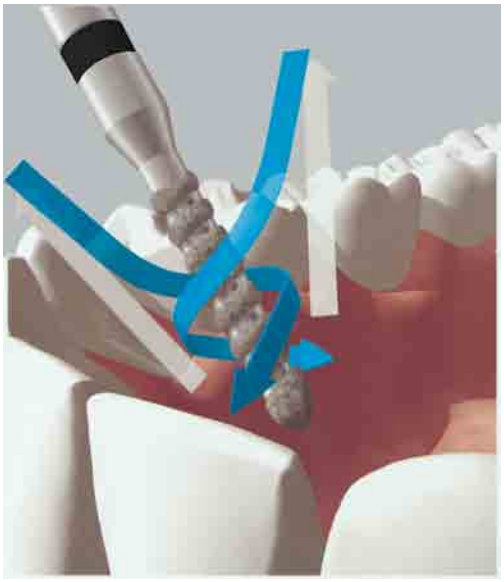
**953B**

| L mm | | 2,0 |
|---|---|---|
| REF | **953B** | |
| ISO | 806.**314**. … .524… | **014** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# InteC Instruments
## *InteC Instrumente*

**super-coarse · 180** µm
*supergrob · 180 µm*



### i368

| L mm | 4,5 |
|---|---|
| REF ■ i368 SG | |
| ISO 806.**314.** … .544… | **018** |

023 = max. 300 000 min⁻¹

### i850

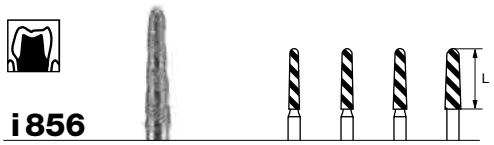
| L mm | 10,0 | 10,0 |
|---|---|---|
| REF ■ i850 SG | | |
| ISO 806.**314.** … .544… | **016** | **018** |

016 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹

### i855

| L mm | 6,0 |
|---|---|
| REF ■ i855 SG | |
| ISO 806.**314.** … .544… | **016** |

### i856



| L mm | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| REF ■ i856 SG | | | | |
| ISO 806.**314.** … .544… | **014** | **016** | **018** | **021** |

021 = max. 160 000 min⁻¹

### i862

| L mm | 8,0 |
|---|---|
| REF ■ i862 SG | |
| ISO 806.**314.** … .544… | **014** |

### i863

| L mm | 10,0 |
|---|---|
| REF ■ i863 SG | |
| ISO 806.**314.** … .544… | **014** |

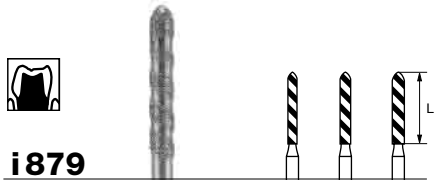
014 = max. 300 000 min⁻¹

### i878

| L mm | 8,0 | 8,0 |
|---|---|---|
| REF ■ i878 SG | | |
| ISO 806.**314.** … .544… | **012** | **014** |

012 = max. 300 000 min⁻¹

### i879



| L mm | 10,0 | 10,0 | 10,0 |
|---|---|---|---|
| REF ■ i879 SG | | | |
| ISO 806.**314.** … .544… | **012** | **014** | **016** |

012 = max. 160 000 min⁻¹ 016 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹

### i880

| L mm | 7,0 | 7,0 |
|---|---|---|
| REF ■ i880 SG | | |
| ISO 806.**314.** … .544… | **012** | **014** |

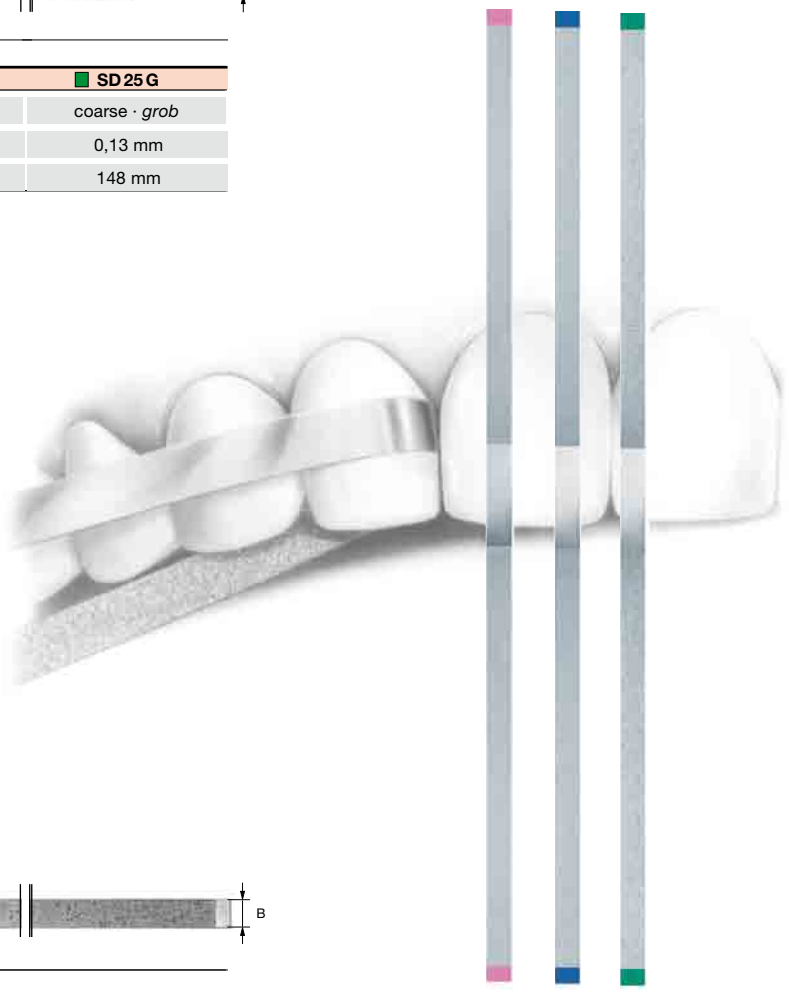
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

# Diamond Finishing Strips
## *Diamantstreifen*

### SD25F
### SD25M
### SD25G


Bmm 2,5

| REF | SD25F | SD25M | SD25G |
|---|---|---|---|
| Grit · *Körnung* | fine · *fein* | medium · *mittel* | coarse · *grob* |
| Thickness · *Stärke* | 0,08 mm | 0,10 mm | 0,13 mm |
| Length · *Länge* | 148 mm | 148 mm | 148 mm |



### SD37F
### SD37M
### SD37G

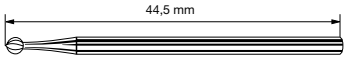

Bmm 3,7

| REF | SD37F | SD37M | SD37G |
|---|---|---|---|
| Grit · *Körnung* | fine · *fein* | medium · *mittel* | coarse · *grob* |
| Thickness · *Stärke* | 0,08 mm | 0,10 mm | 0,13 mm |
| Length · *Länge* | 148 mm | 148 mm | 148 mm |

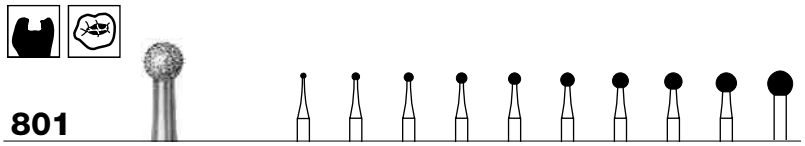
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | | |
| C | = | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | | |
| F | = | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | | |
| – | = | ISO 524 | without ring · *ohne Ring* | medium · *mittel* | 105–120 µm | | |
| G | = | ISO 534 | Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm | | |
| SG | = | ISO 544 | Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm | | |

# Diamond tools for laboratory application
# *Diamantwerkzeuge für das Dentallabor*

## 104 · Handpiece · *Handstück*



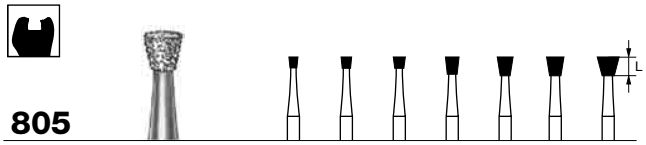

Ø 2,35 mm



## 801

| REF | 801 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**104**.001.524… | **008** | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **027** | **033** |

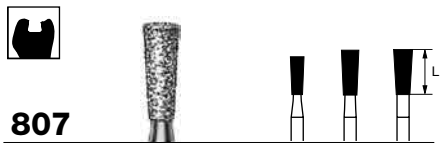
023 = max. 300 000 min⁻¹ 033 = max. 120 000 min⁻¹



## 805

| L mm | | 1,5 | 1,5 | 1,5 | 2,3 | 2,5 | 2,5 | 3,0 |
|---|---|---|---|---|---|---|---|---|
| REF | 805 | | | | | | | |
| ISO | 806.**104**.010.524… | **012** | **014** | **016** | **018** | **021** | **025** | **027** |

025 = max. 160 000 min⁻¹



## 807

| L mm | | 5,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| REF | 807 | | | |
| ISO | 806.**104**.225.524… | **018** | **023** | **025** |

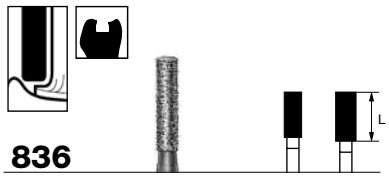
## 825

| REF | 825 | |
|---|---|---|
| ISO | 806.**104**.304.524… | **023** |

023 = max. 300 000 min⁻¹

## 835

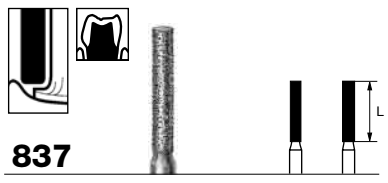
| L mm | | 4,0 |
|---|---|---|
| REF | 835 | |
| ISO | 806.**104**.107.524… | **010** |



## 836

| L mm | | 6,0 | 6,5 |
|---|---|---|---|
| REF | 836 | | |
| ISO | 806.**104**.110.524… | **023** | **027** |

027 = max. 160 000 min⁻¹



## 837

| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | 837 | | |
| ISO | 806.**104**.111.524… | **014** | **016** |

## 842 R

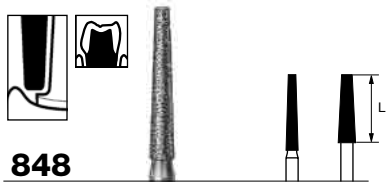
| L mm | | 12,0 |
|---|---|---|
| REF | 842 R | |
| ISO | 806.**104**.143.524… | **018** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

## 847

| L mm | | | | 8,0 |
|---|---|---|---|---|
| REF | **847** | | | |
| ISO | 806.**104**.172.524… | | | **023** |

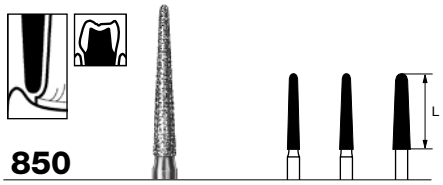
023 = max. 300 000 min⁻¹



## 848

| L mm | | | | 10,0 | 9,0 |
|---|---|---|---|---|---|
| REF | **848** | | | | |
| ISO | 806.**104**.173.524… | | | **016** | **023** |

023 = max. 300 000 min⁻¹



## 850

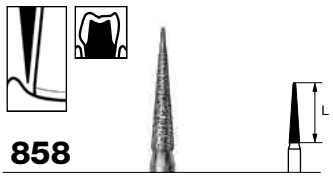
| L mm | | | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|
| REF | **850** | | | | | |
| ISO | 806.**104**.199.524… | | | **016** | **018** | **023** |

016 = max. 300 000 min⁻¹ 023 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹

## 856

| L mm | | | | 8,0 | 9,0 |
|---|---|---|---|---|---|
| REF | **856** | | | | |
| ISO | 806.**104**.198.524… | | | **018** | **033** |

033 = max. 300 000 min⁻¹



## 858

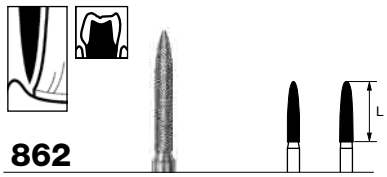
| L mm | | | | 8,0 |
|---|---|---|---|---|
| REF | **858** | | | |
| ISO | 806.**104**.165.524… | | | **014** |

014 = max. 300 000 min⁻¹

## 859

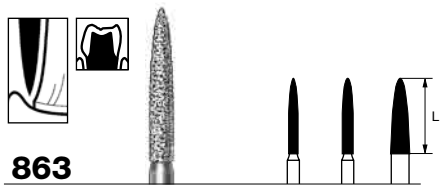
| L mm | | | | 10,0 |
|---|---|---|---|---|
| REF | **859** | | | |
| ISO | 806.**104**.166.524… | | | **018** |

018 = max. 300 000 min⁻¹



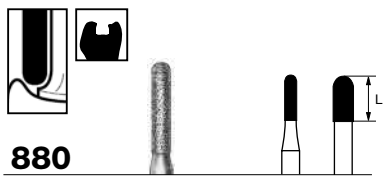
## 862

| L mm | | | | 8,0 | 8,0 |
|---|---|---|---|---|---|
| REF | **862** | | | | |
| ISO | 806.**104**.249.524… | | | **016** | **018** |



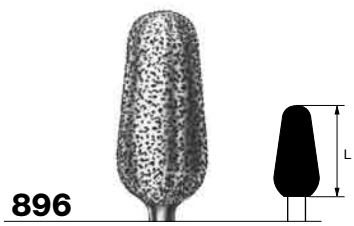
## 863

| L mm | | | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|---|---|
| REF | **863** | | | | | |
| ISO | 806.**104**.250.524… | | | **012** | **016** | **025** |



## 880

| L mm | | | | 6,0 | 6,0 |
|---|---|---|---|---|---|
| REF | **880** | | | | |
| ISO | 806.**104**.140.524… | | | **016** | **027** |



## 896

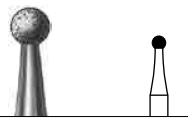
| L mm | | | | 12,0 |
|---|---|---|---|---|
| REF | **896** | | | |
| ISO | 806.**104**.260.524… | | | **060** |

060 = max. 50 000 min⁻¹

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | = | ☐ | ISO 494 | White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = | 🟨 | ISO 504 | Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = | 🟥 | ISO 514 | Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

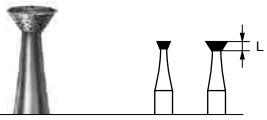
# Sintered Diamonds
## *Sinter-Diamantschleifer*

### 7801



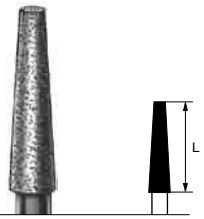
| REF | 7801 |
|---|---|
| ISO | 807.**104**.001.524… **018** |

### 7805
### 76805



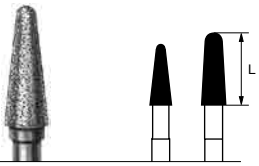

| L mm | 0,9 | 1,5 |
|---|---|---|
| REF | **7805** | |
| ISO | 807.**104**.014.524… **018** | **029** |
| | **76805** | |
| | 807.**104**.014.534… **018** | **029** |

### 7848



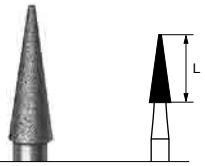

| L mm | 12,0 |
|---|---|
| REF | **7848** |
| ISO | 807.**104**.174.524… **029** |

### 7856
### 76856



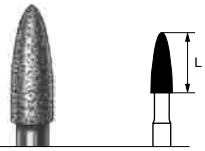

| L mm | 8,0 | 9,5 |
|---|---|---|
| REF | **7856** | |
| ISO | 807.**104**.198.524… **029** | |
| | **76856** | |
| | 807.**104**.198.534… | **033** |

### 76859



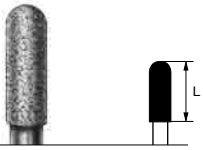

| L mm | 9,0 |
|---|---|
| REF | **76859** |
| ISO | 807.**104**.166.534… **029** |

### 7862



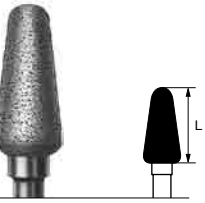

| L mm | 8,0 |
|---|---|
| REF | **7862** |
| ISO | 807.**104**.243.524… **029** |

### 76881




| L mm | 8,0 |
|---|---|
| REF | **76881** |
| ISO | 807.**104**.141.534… **029** |

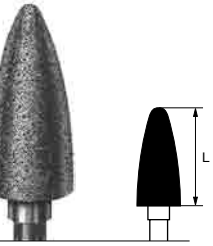
### 76351




| L mm | 10,0 |
|---|---|
| REF | **76351** |
| ISO | 807.**104**.263.534… **050** |

050 = max. 50 000 min⁻¹

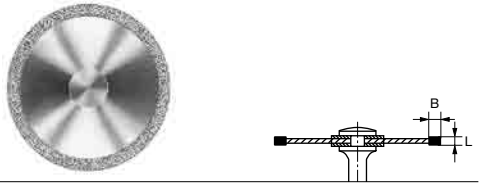
### 76251




| L mm | 13,0 |
|---|---|
| REF | **76251** |
| ISO | 807.**104**.274.534… **060** |

060 = max. 50 000 min⁻¹

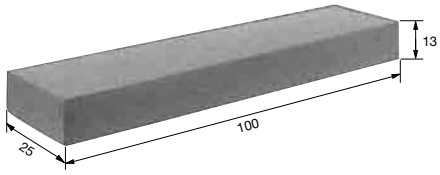
### 942F




| B mm | | | 2,0 | 2,0 | 2,0 |
|---|---|---|---|---|---|
| REF | **942F** | | fine · fein | | |
| ISO | L mm 0,17 | 806.**104**.395.514… | **140** | **200** | **220** |

140 = max. 30 000 min⁻¹ 200 = max. 20 000 min⁻¹ 220 = max. 20 000 min⁻¹

### S1000




| REF | **S1000** |
|---|---|

**Cleaning stone for diamonds** | *Reinigungsstein für Diamanten*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U | = □ | ISO 494 White ring · *weißer Ring* | ultra-fine · *ultrafein* | 10 µm | – | = | ISO 524 without ring · *ohne Ring* | medium · *mittel* | 105–120 µm |
| C | = ■ | ISO 504 Yellow ring · *gelber Ring* | extra-fine · *extrafein* | 25 µm | G | = ■ | ISO 534 Green ring · *grüner Ring* | coarse · *grob* | 126–150 µm |
| F | = ■ | ISO 514 Red ring · *roter Ring* | fine · *fein* | 46 µm | SG | = ■ | ISO 544 Black ring · *schwarzer Ring* | super-coarse · *supergrob* | 180 µm |

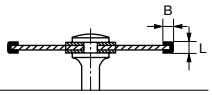
**Diamond disc with continuous diamond-coated periphery and round perforations**
- good vision

*Diamantscheibe mit durchgehendem kreisrunden Umfangsprofil und kreisrunden Perforationen*
- *gute Durchsicht*

**Rigid** · *starr* | coated on both sides · *beidseitig belegt*

**for ceramics**
- separating and grinding on both sides
- good vision

*für Keramik*
- *zum beidseitigen Trennen und Schleifen*
- *freie Sicht auf das Arbeitsfeld*




## 910P

| B mm | | | 1,5 |
|---|---|---|---|
| REF | 910P | | medium · mittel |
| ISO | L mm 0,60 | 806.**104**.332.524… | **220** |

220 = max. 20 000 min⁻¹

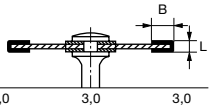
**Diamond discs with continuous diamond-coated periphery**

*Diamantscheiben mit durchgehendem kreisrunden Umfangsprofil*

**Hyperflexible** · *hyperflexibel* | coated on both sides · *beidseitig belegt*

**for ceramics**
- initial separating and contouring

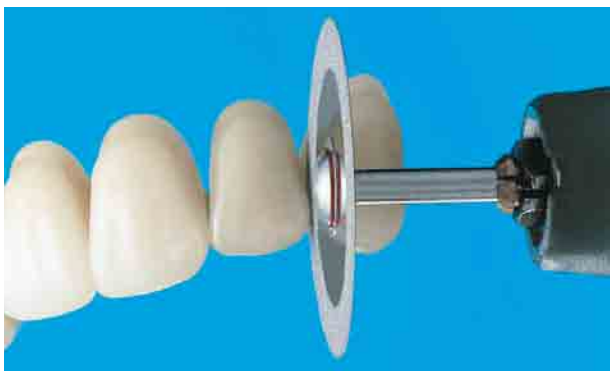
*für Keramik*
- *zum Vorseparieren und Konturieren*




## 911HF
## 911HC

| B mm | | | 2,0 | 3,0 | 3,0 |
|---|---|---|---|---|---|
| REF | 911HF | | | fine · fein | |
| ISO | L mm 0,17 | 806.**104**.355.514… | **180** | **200** | **220** |
| | 911HC | | | extra fine · extrafein | |
| | L mm 0,10 | 806.**104**.355.504… | **180** | **200** | **220** |

180 = max. 25 000 min⁻¹ 200 = max. 20 000 min⁻¹ 220 = max. 20 000 min⁻¹



**REF 911HC.**104.220

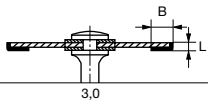
**Diamond discs with continuous diamond-coated periphery**

*Diamantscheiben mit durchgehendem kreisrunden Umfangsprofil*

**Hyperflexible** · *hyperflexibel* | coated on the lower side · *hinten belegt*

**for ceramics**
- initial separating and contouring

*für Keramik*
- *zum Vorseparieren und Konturieren*




## 911HHF

| B mm | | | 3,0 |
|---|---|---|---|
| REF | 911HHF | | fine · fein |
| ISO | L mm 0,15 | 806.**104**.356.514… | **220** |

220 = max. 20 000 min⁻¹

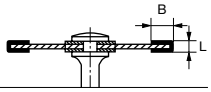
**Diamond discs with oval perforations**
- **good vision**
- **optimal flexibility**

*Diamantscheiben mit ovalen Perforationen*
- *große Durchsicht*
- *gute Flexibilität*

**Hyperflexible** · *hyperflexibel* | coated on both sides · *beidseitig belegt*

**for ceramics and acrylic veneers**
- initial separating and contouring

*für Keramik und Kunststoffverblendungen*
- *zum Vorseparieren und Konturieren*




## 911HPC

| B mm | | | 3,0 |
|---|---|---|---|
| REF | 911HPC | | extra fine · extrafein |
| ISO | L mm 0,15 | 806.**104**.317.504… | **220** |

220 = max. 20 000 min⁻¹

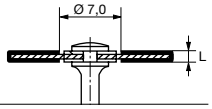
**Diamond discs**
**coated on both sides**

*Diamantscheiben (beidseitig belegt)*
*vorn oder hinten schleifend*

**Flexible** · *flexibel* | coated on both sides · *beidseitig belegt*

**for ceramics**
- separating and rough contouring

*für Keramik*
- *zum Trennen und groben Konturieren*



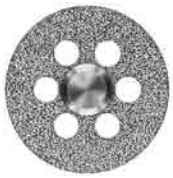

## 918 BF

| REF | | 918 BF | fine · fein | |
|---|---|---|---|---|
| ISO | L mm 0,30 | 806.**104**.345.514… | **200** | 220 |

200 = max. 20 000 min⁻¹ 220 = max. 20 000 min⁻¹

**Diamond discs**
**coated on both sides**
**with round perforations**

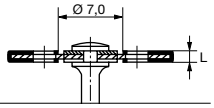
*Diamantscheiben*
*beidseitig belegt*
*vorn oder hinten schleifend*
*mit kreisrunden Perforationen*



**Flexible** · *flexibel* | coated on both sides · *beidseitig belegt*

**for ceramics**
- rough grinding and separating
- contouring

*für Keramik*
- *zum groben Vorschleifen und Trennen*
- *zum Konturieren*




## 918 PB

| REF | | 918 PB | fine · fein |
|---|---|---|---|
| ISO | L mm 0,30 | 806.**104**.350.524… | **220** |

220 = max. 20 000 min⁻¹

**Diamond discs with serrations**
**with a special angle for working on ceramics**

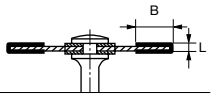
These serrations assure
- minimal heat generation
- optimal chip removal
- high cutting efficiency

*Diamantscheiben mit schräg gezahnten*
*Ausschnitten zur Bearbeitung von Keramik*
*Die schräge Verzahnung bewirkt*
- *geringe Wärmeentwicklung*
- *bessere Spanabfuhr*
- *höhere Schneidleistung*

**Flexible** · *flexibel* | coated on both sides · *beidseitig belegt*

**for ceramics**
- separating

*für Keramik*
- *zum Separieren*




## 937 F

| B mm | | | 5,0 |
|---|---|---|---|
| REF | | 937 F | fine · fein |
| ISO | L mm 0,25 | 806.**104**. … .514… | **200** |

200 = max. 20 000 min⁻¹

clockwise rotation only · *nur rechtsdrehend einsetzen*

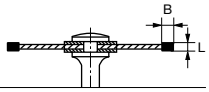
**Diamond disc with continuos diamond-interspersed periphery**

*Diamantscheibe*
*mit durchgehendem kreisrunden Umfangsprofil*
*(Rand durchsetzt)*

**Flexible** · *flexibel* | coated on both sides · *beidseitig belegt*

**for ceramics**
- initial separating and trimming

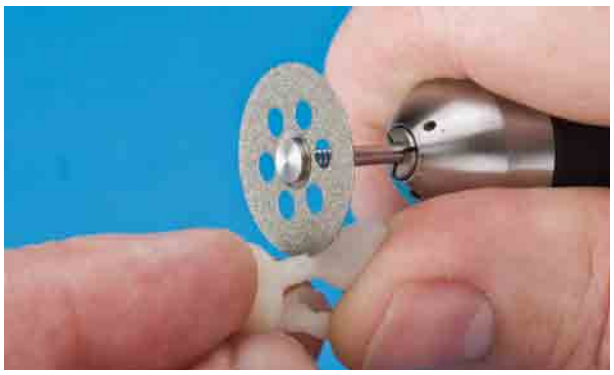
*für Keramik*
- *zum Vorseparieren und Ausarbeiten*




## 942 F

| B mm | | | 2,0 | 2,0 | 2,0 |
|---|---|---|---|---|---|
| REF | | 942 F | | fine · fein | |
| ISO | L mm 0,17 | 806.**104**.395.514… | **140** | **200** | 220 |

140 = max. 30 000 min⁻¹ 200 = max. 20 000 min⁻¹ 220 = max. 20 000 min⁻¹

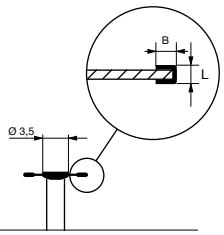


**REF 918PB.**104.220

**Miniature** · *Miniatur* — coated on both sides · *beidseitig belegt*

**for ceramics**
- fine separating,
- shaping in the interdental area
- use disc-guard

*für Keramik*
- *zum feinen Separieren,*
- *Gestalten im Interdentalbereich*
- *Scheibenschutz verwenden*




## 943 C

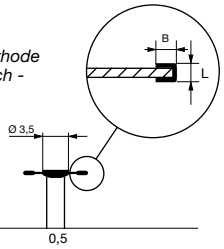
| | | | | | |
|---|---|---|---|---|---|
| B mm | | | | 1,0 | 1,0 | 1,0 |
| REF | 943 C | | | extra fine · extrafein | | |
| ISO | L mm 0,15 | 806.**104**.361.504… | **065** | **080** | **100** |
| | L mm 0,15 | 806.**204**.361.504… | | **080** | **100** |

065 = max. 40 000 min⁻¹ 080 = max. 35 000 min⁻¹ 100 = max. 30 000 min⁻¹

**Miniature** · *Miniatur* — coated on both sides · *beidseitig belegt*

**Diamond discs for bone-lid method**
- Application: Apicectomy in the molar area, osteoplastic surgery of the maxillary sinus
- use disc-guard

*Diamant-Schleifscheiben für die Knochendeckelmethode*
- *Einsatz: Wurzelspitzenresektion im Molarenbereich - osteoplastische Kieferhöhlenoperation*
- *Scheibenschutz verwenden*




## 943 CH

| | | | | |
|---|---|---|---|---|
| B mm | | | | 0,5 |
| REF | 943 CH | | | |
| ISO | L mm 0,29 | 806.**204**.361.524… | | **080** |

065 = max. 40 000 min⁻¹ 080 = max. 35 000 min⁻¹

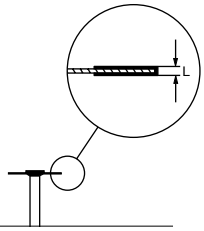
**Miniature diamond discs for working on ceramics**
- due to the small diameter the risk of exposure of the framework is reduced to a minimum
- for trimming acrylate and veneer work as well as temporary appliances without separating the material

*Miniatur-Diamantscheiben zur Bearbeitung von Keramik*
- *der kleine Durchmesser reduziert die Gefahr der Freilegung des Gerüstes auf ein Minimum*
- *zum Ausarbeiten von Acrylat- und Verblendarbeiten wie auch von Provisorien ohne die Gefahr der Durchtrennung*

**Miniature** · *Miniatur* — coated on both sides · *beidseitig belegt*

**for ceramics**
- fine separating

*für Keramik*
- *zum feinen Separieren*




## 945 BC

| | | | | |
|---|---|---|---|---|
| REF | 945 BC | | | extra fine · extrafein |
| ISO | L mm 0,15 | 806.**104**.362.504… | | **100** |

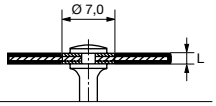
100 = max. 30 000 min⁻¹

**Diamond disc**
**with slots featuring a special angle**
*Diamantscheibe*
*mit schräg geschlitzten Perforationen*

**Flexible** · *flexibel* — coated on both sides · *beidseitig belegt*

**for ceramics**
- rough separating and contouring

*für Keramik*
- *zum groben Separieren und Konturieren*




## 982 F

| REF | | | |
|---|---|---|---|
| | **982 F** | | medium · mittel |
| ISO | L mm 0,25 | 806.**104**.389.514… | **220** |

220 = max. 20 000 min⁻¹

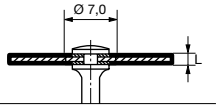
**Diamond disc with curved perforations**
- for avoiding grinding facets
- good vision
- improved flexibility
- for contouring and separating of ceramic veneers

*Diamantscheibe*
*mit bogenförmigen Perforationen*
- *Vermeidung von Schleiffacetten*
- *große Durchsicht*
- *verbesserte Flexibilität*
- *zum Konturieren und Separieren von Keramikverblendungen*

**Hyperflexible** · *hyperflexibel* — coated on both sides · *beidseitig belegt*

**for ceramics**
- fine separating and contouring

*für Keramik*
- *zum feinen Separieren und Konturieren*




## 983 C

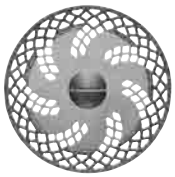
B mm: 2,0

| REF | | | |
|---|---|---|---|
| | **983 C** | | extra fine · extrafein |
| ISO | L mm 0,10 | 806.**104**.401.504… | **220** |

220 = max. 20 000 min⁻¹

clockwise rotation only · *nur rechtsdrehend einsetzen*

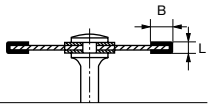
**Spiral Reinforced Meshed Disc**
*Spiralverstärkte Netzscheibe*



**Flexible** · *flexibel* — coated on both sides · *beidseitig belegt*

**for ceramics and plastics**
- rough separating and contouring

*für Keramik und Kunststoff*
- *zum groben Separieren und Konturieren*



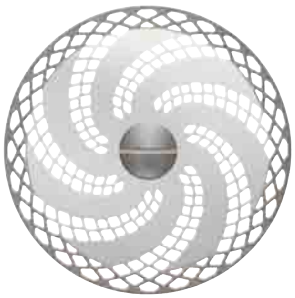

## 990

B mm: 3,0 | 3,0

| REF | | | | |
|---|---|---|---|---|
| | **990** | | medium · mittel | |
| ISO | L mm 0,27 | 806.**104**. … … | **180** | **220** |

180/220 = max. 20 000 min⁻¹

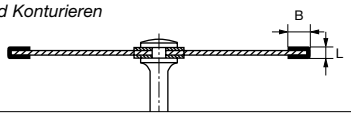
**Spiral Reinforced Meshed Disc**
*Spiralverstärkte Netzscheibe*



**Flexible** · *flexibel* — coated on both sides · *beidseitig belegt*

**for plaster**
- rough separating and contouring

*für Gips*
- *zum groben Separieren und Konturieren*




## 990

B mm: 3,0

| REF | | | |
|---|---|---|---|
| | **990** | | medium · mittel |
| ISO | L mm 0,37 | 806.**104**. … … | **400** |

400 = max. 10 000 min⁻¹

## **Burs** | *Bohrer*

Round
*Rund* 34

Pear
*Birne* 35

Cylinder round
*Zylinder rund* 35, 36

Tapered round
*Konisch rund* 35, 36

Inverted cone
*Umgekehrter Kegel* 34

Cylinder
*Zylinder* 35, 36

Tapered
*Konisch* 35, 36

Cylinder, end cutting only
*Zylinder, Stirn schneidend* 36

## **Crown Cutters** | *Kronentrenner*

Cylinder round
*Zylinder rund* 37

Tapered round
*Konisch rund* 37

## **Amalgam Remover** | *Amalgamentferner*

Cylinder round
*Zylinder rund* 38

## **Adhesive Remover** | *Klebstoffentferner*

Cylinder round
*Zylinder rund* 38

## **Finishing Instruments** | *Finierer*

Round
*Rund* 39

Flame
*Flamme* 39

Tapered round
*Konisch rund* 40

Egg
*Ei* 41

B Finishing Instruments
*B Finierer* 43

Bud
*Knospe* 39

Pointed
*Spitz* 39–40

Torpedo
*Torpedo* 40–41

Grenade
*Granate* 41

Pear
*Birne* 39

Needle-shaped
*Nadelform* 40

Torpedo tapered
*Torpedo konisch* 40–41

DF Finishing Instruments
*DF Finierer* 42

## **Intra-oral Work on titanium** | *Intraorale Titanbearbeitung*

44 – 45

## **Surgical Instruments** | *Chirurgische Instrumente*

Round
*Rund* 46 – 47

Cylinder
*Zylinder* 46

Tapered
*Konisch* 46

Tapered round
*Konisch rund* 46

Bone Cutter
*Knochenfräser* 48

## **Tungsten Carbide Cutters** | *Hartmetallfräser*

49 – 62

## **Auxiliaries** | *Zubehör*

62

## **Milling technique** | *Frästechnik*

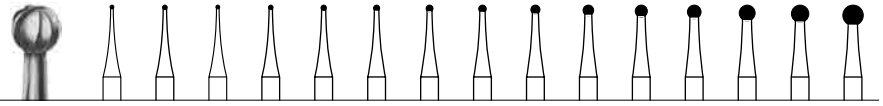
63 – 64

Please note that the various instruments within each product group (e.g. tungsten carbide burs, carbide finishers or surgical instruments) are sorted by their reference number in ascending order.
For carbide cutters, however, please note that in the first instance they are additionally sorted by their field of application in ascending order (e.g. AX: Acrylics or CX: Dry Plaster) and then by their reference number in ascending order (e.g. CC71MX, CC72MX, CC73MX, etc.).

*Bitte beachten Sie, dass die Instrumente innerhalb jeder Produktgruppe (z.B. Hartmetallbohrer, -Finierer oder Chirurgische Instrumente) aufsteigend nach Referenznummer sortiert sind.*
*Hartmetallfräser sind zudem übergeordnet nach ihrem Anwendungsgebiet aufsteigend sortiert (z.B. AX: Prothesenkunststoffe oder CX: trockene Gipse).*
*Darunter erfolgt die Sortierung aufsteigend nach der Referenznummer (z.B. CC71MX, CC72MX, CC73MX, etc.).*

# Burs
## *Bohrer*

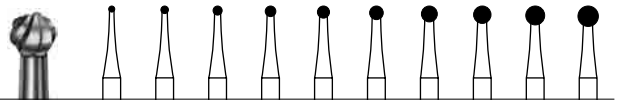
### CB 1



| US No. | | | | 1/4 | 1/2 | - | 1 | - | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REF | **CB 1** | | | | | | | | | | | | | | | |
| ISO | 500.**104**.001.001… | **003** | **004** | **005** | **006** | **007** | **008** | **009** | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **027** |
| | 500.**204**.001.001… | | | **005** | **006** | **007** | **008** | **009** | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **027** |
| | 500.**205**.001.001… | | | | | | | | **010** | | **014** | **016** | **018** | | **023** | |
| | 500.**314**.001.001… | | | **005** | **006** | | **008** | | **010** | **012** | **014** | **016** | **018** | **021** | **023** | |

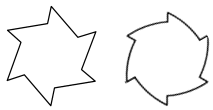
021 = max. 300 000 min$^{-1}$ 023 = max. 300 000 min$^{-1}$

### CB 1 S



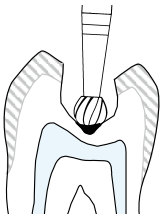
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| REF | **CB 1 S** | | | | | | | | | | |
| ISO | 500.**104**.001.003… | | **010** | | **014** | | **018** | | **023** | | |
| | 500.**204**.001.003… | **008** | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **025** | **027** |
| | 500.**205**.001.003… | | **010** | | **014** | | **018** | | **023** | | **027** |
| | 500.**314**.001.003… | **008** | **010** | **012** | **014** | **016** | **018** | **021** | **023** | | |

023 = max. 300 000 min$^{-1}$



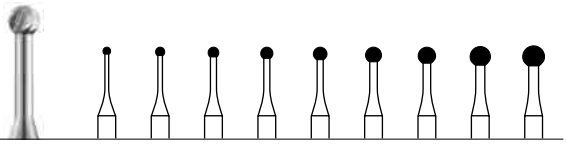
Cross-section of the **CB1S** Querschnitt **CB1S**

Cross-section of the **CB1SX** Querschnitt **CB1SX**



Excavating with the CB1S/CB1SX
Exkavieren mit dem CB1S/CB1SX

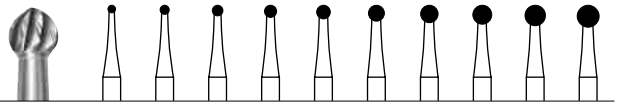
### CB 1 SN



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| REF | **CB 1 SN** | | | | | | | | | |
| ISO | 500.**204**.001.003… | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **027** | **029** |
| | 500.**205**.001.003… | **010** | | **014** | | **018** | | **023** | | |

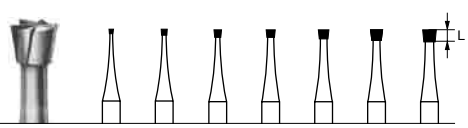
max. 100 000 min$^{-1}$

### CB 1 SX



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| REF | **CB 1 SX** | | | | | | | | | | |
| ISO | 500.**204**.001.XXX… | **010** | **012** | **014** | **016** | **018** | **021** | **023** | **025** | **027** | **029** |

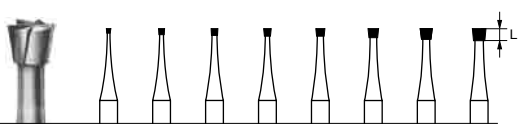
### CB 2



| L mm | | 0,5 | 0,9 | 1,1 | 1,2 | 1,4 | 1,6 | 1,8 |
|---|---|---|---|---|---|---|---|---|
| US No. | | 33 1/2 | 34 | 35 | 36 | 37 | 38 | |
| REF | **CB 2** | | | | | | | |
| ISO | 500.**204**.010.001… | | **008** | **010** | **012** | **014** | **016** | **018** |
| | 500.**314**.010.001… | **006** | **008** | **010** | **012** | **014** | **016** | **018** |

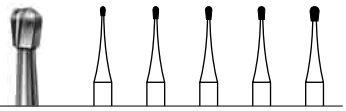
**Laboratory**
*Labor*

### CB 30



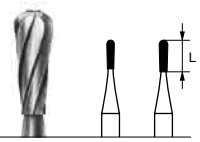
| L mm | | 0,5 | 0,9 | 1,0 | 1,1 | 1,2 | 1,4 | 1,6 | 1,8 |
|---|---|---|---|---|---|---|---|---|---|
| US No. | | L33 1/2 | L34 | L34 1/2 | L35 | L36 | L37 | L38 | L39 |
| REF | **CB 30** | | | | | | | | |
| ISO | 500.**104**.010.175… | **006** | **008** | **009** | **010** | **012** | **014** | **016** | **018** |

## CB 7



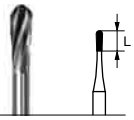
| L mm | 1,2 | 1,6 | 1,7 | 1,7 | 1,8 |
|---|---|---|---|---|---|
| US No. | 329 | 330 | – | 331 | 332 |
| REF **CB 7** | | | | | |
| ISO 500.**204**.232.001… | | **008** | | **010** | |
| 500.**314**.232.001… | **006** | **008** | **009** | **010** | **012** |

## CB 7 L



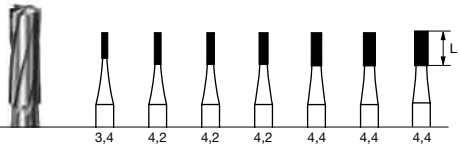
| L mm | 3,8 | 4,2 |
|---|---|---|
| US No. | 331L | 332L |
| REF **CB 7L** | | |
| ISO 500.**314**.234.006… | **010** | **012** |

## CB 7 SM



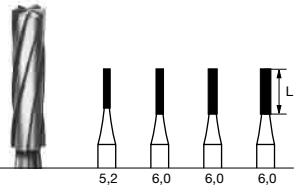
| L mm | 2,7 |
|---|---|
| REF **CB 7SM** | |
| ISO 500.**314**.XXX. … | **009** |

## CB 21



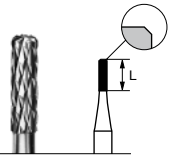
| L mm | 3,4 | 4,2 | 4,2 | 4,2 | 4,4 | 4,4 | 4,4 |
|---|---|---|---|---|---|---|---|
| US No. | 55 | 56 | 57 | 58 | 59 | | |
| REF **CB 21** | | | | | | | |
| ISO 500.**104**.107.006… | **008** | **009** | **010** | **012** | **014** | **016** | **018** |
| 500.**204**.107.006… | | | **010** | **012** | | | |
| 500.**314**.107.006… | **008** | **009** | **010** | **012** | **014** | | |

## CB 21 L



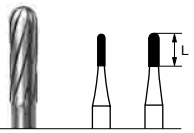
| L mm | 5,2 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| US No. | 56L | 57L | 58L | 59L |
| REF **CB 21L** | | | | |
| ISO 500.**104**.110.006… | **009** | **010** | **012** | **014** |
| 500.**314**.110.006… | | **010** | **012** | **014** |

## CB 21 MX



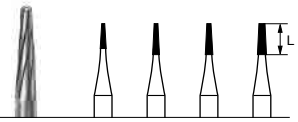
| L mm | 4,2 |
|---|---|
| US No. | 558E |
| REF **CB 21MX** | |
| ISO 500.**104**.107.019… | **012** |

## CB 21 R



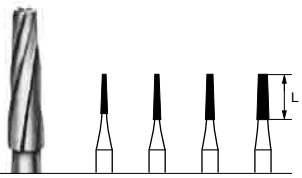
| L mm | 4,2 | 4,2 |
|---|---|---|
| US No. | 1157 | 1159 |
| REF **CB 21R** | | |
| ISO 500.**104**.137.006… | **010** | **014** |
| 500.**314**.137.006… | **010** | **014** |

## CB 23



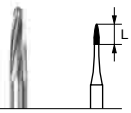
| L mm | 3,4 | 4,2 | 4,2 | 4,2 |
|---|---|---|---|---|
| US No. | 168 | 169 | 170 | 171 |
| REF **CB 23** | | | | |
| ISO 500.**104**.168.006… | **008** | | **010** | **012** |
| 500.**314**.168.006… | | **009** | **010** | **012** |

## CB 23 L



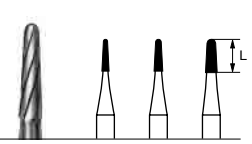
| L mm | 5,2 | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| US No. | 169L | 170L | 171L | 172L |
| REF **CB 23L** | | | | |
| ISO 500.**104**.171.006… | **009** | **010** | **012** | |
| 500.**314**.171.006… | **009** | **010** | **012** | **016** |

## CB 249 M



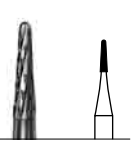
| L mm | 2,7 |
|---|---|
| REF **CB 249M** | |
| ISO 500.**314**.XXX. … | **007** |

## CB 23 R



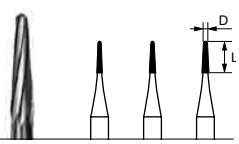
| L mm | 4,2 | 4,2 | 4,4 |
|---|---|---|---|
| US No. | 1170 | 1171 | 1172 |
| REF **CB 23R** | | | |
| ISO 500.**104**.194.006… | **010** | **012** | **016** |
| 500.**204**.194.006… | **010** | **012** | **016** |
| 500.**314**.194.006… | **010** | **012** | **016** |

## CB 23 RMX



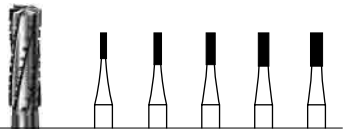
| L mm | 4,2 |
|---|---|
| REF **CB 23RMX** | |
| ISO 500.**104**.196.019… | **010** |

## CB 23 RS



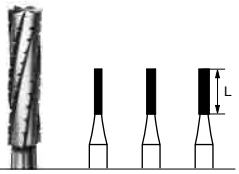
| L mm | 4,2 | 4,2 | 4,2 |
|---|---|---|---|
| REF **CB 23RS** | | | |
| ISO 500.**104**.196.006… | **008** | **009** | **010** |
| 500.**314**.196.006… | | **009** | |

## CB 31



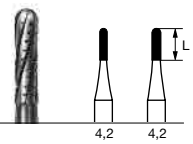
| L mm | | 3,4 | 4,2 | 4,2 | 4,4 | 4,4 |
|---|---|---|---|---|---|---|
| US No. | | 555 | 557 | 558 | 559 | 560 |
| REF **CB 31** | | | | | | |
| ISO | 500.**104**.107.007… | **008** | **010** | **012** | **014** | **016** |
| | 500.**204**.107.007… | | **010** | **012** | | |
| | 500.**314**.107.007… | | **010** | **012** | **014** | |

## CB 31 L



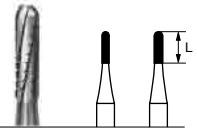
| L mm | | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| US No. | | 557 L | 558 L | 559L |
| REF **CB 31 L** | | | | |
| ISO | 500.**104**.110.007… | **010** | **012** | **014** |
| | 500.**314**.110.007… | **010** | **012** | |

## CB 31 R



| L mm | | 4,2 | 4,2 |
|---|---|---|---|
| US No. | | 1557 | 1558 |
| REF **CB 31 R** | | | |
| ISO | 500.**104**.137.007… | **010** | |
| | 500.**314**.137.007… | **010** | **012** |

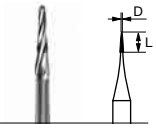
## CB 31 RS



| L mm | | 4,2 | 4,2 |
|---|---|---|---|
| REF **CB 31 RS** | | | |
| ISO | 500.**314**.137.292… | **010** | **012** |

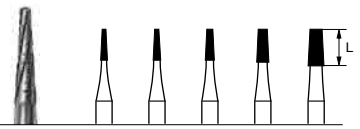
Laboratory
*Labor*

## CB 349



| L mm | | 2,7 |
|---|---|---|
| REF **CB 349** | | |
| ISO | 500.**104**.195.072… | **005** |

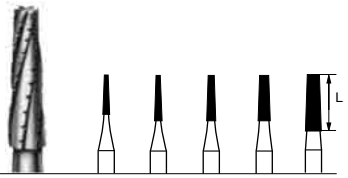
## CB 33



| L mm | | 4,2 | 4,2 | 4,2 | 4,4 | 4,8 |
|---|---|---|---|---|---|---|
| US No. | | 699 | 700 | 701 | 702 | 703 |
| REF **CB 33** | | | | | | |
| ISO | 500.**104**.168.007… | **009** | **010** | **012** | **016** | **021** |
| | 500.**204**.168.007… | | **010** | **012** | **016** | |
| | 500.**314**.168.007… | **009** | **010** | **012** | **016** | **021** |

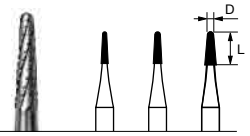
021 = max. 300 000 min⁻¹

## CB 33 L



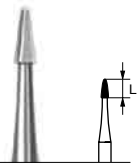
| L mm | | 5,2 | 6,0 | 6,0 | 6,0 | 7,5 |
|---|---|---|---|---|---|---|
| US No. | | 699 L | 700 L | 701 L | 702L | 703L |
| REF **CB 33 L** | | | | | | |
| ISO | 500.**104**.171.007… | **009** | **010** | **012** | **016** | **021** |
| | 500.**314**.171.007… | **009** | **010** | **012** | | |

## CB 33 R



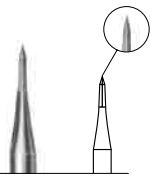
| L mm | | 4,2 | 4,2 | 4,4 |
|---|---|---|---|---|
| US No. | | 1700 | 1701 | 1702 |
| REF **CB 33 R** | | | | |
| ISO | 500.**104**.194.007… | **010** | **012** | |
| | 500.**314**.194.007… | | **012** | **016** |

## CB 59



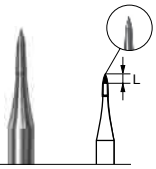
| L mm | | 2,5 |
|---|---|---|
| REF **CB 59** | | |
| ISO | 500.**313**.XXX. … | **010** |
| | 500.**314**.XXX. … | **010** |

## CB 97



| REF **CB 97** | | |
|---|---|---|
| ISO | 500.**104**.468.373… | **010** |
| | 500.**314**.468.373… | **010** |

## CB 99

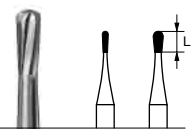


| L mm | | 1,2 |
|---|---|---|
| REF **CB 99** | | |
| ISO | 500.**104**.162.384… | **008** |
| | 500.**314**.162.384… | **008** |

## CB 207

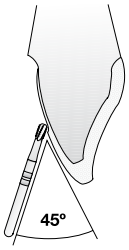
| US No. | | 957 |
|---|---|---|
| REF **CB 207** | | |
| ISO | 500.**314**.150.001… | **010** |

## CB 245



| L mm | | 2,8 | 2,8 |
|---|---|---|---|
| US No. | | 245 | |
| REF **CB 245** | | | |
| ISO | 500.**314**.233.006… | **008** | **014** |

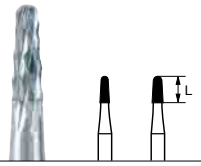
# Crown Cutter
## *Kronentrenner*




### The All-Rounder · *Das Multitalent*

**Multifunctional**

**CB 5 TR**



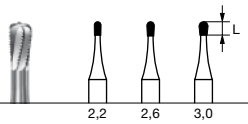

| L mm | 3,5 | 3,5 |
|---|---|---|

| REF | CB 5 TR | | |
|---|---|---|---|
| ISO | 500.**314**.194.XXX… | **012** | **014** |

low fusion ceramic veneers and all conventional metal alloys
*niedrigschmelzende Keramikverblendungen und alle gängigen Metall-Legierungen*

**Classic**

**CB 17**



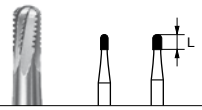

| L mm | 2,2 | 2,6 | 3,0 |
|---|---|---|---|

| REF | CB 17 | | |
|---|---|---|---|
| ISO | 500.**314**.237.293… | **009** | **010** | **012** |

gold-colored instruments
*goldfarbene Instrumente*

**Turbo**

**CB 34**



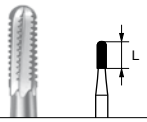

| L mm | 2,0 | 2,0 |
|---|---|---|

| REF | CB 34 | | |
|---|---|---|---|
| ISO | 500.**314**.138.293… | **010** | **012** |

gold-colored instruments
*goldfarbene Instrumente*

**Turbo-L**

**CB 34 L**



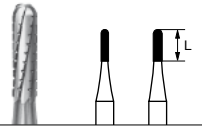

| L mm | 3,5 |
|---|---|

| REF | CB 34 L | |
|---|---|---|
| ISO | 500.**314**.139.293… | **012** |

gold-colored instruments
*goldfarbene Instrumente*

**Economic**

**CB 35 C**



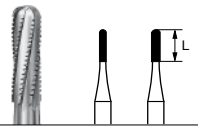

| L mm | 4,2 | 4,2 |
|---|---|---|

| REF | CB 35 C | | |
|---|---|---|---|
| ISO | 500.**314**. … . … … | **010** | **012** |

gold-colored instruments
*goldfarbene Instrumente*

**Multifunctional**

**CB 37 R**



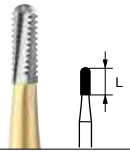

| L mm | 4,2 | 4,2 |
|---|---|---|

| REF | CB 37 R | | |
|---|---|---|---|
| ISO | 500.**314**.137.293… | **010** | **012** |

gold-colored instruments
*goldfarbene Instrumente*

**Aggressiv**

**CB 40 AG**




| L mm | 4,0 |
|---|---|

| REF | CB 40 AG | |
|---|---|---|
| ISO | 500.**314**.139.008… | **012** |

**Also available as a set.**
*Auch als Set erhältlich.*

**100494**


**Contents** · *Inhalt*

| REF | | CB 40 AG | ABB 15 |
|---|---|---|---|
| ISO | 500.**314**. | 139.008 012 | |
| | | 10 | 1 |


100494

# Crown Cutter
## *Kronentrenner*

**Disposable Crown Cutter**

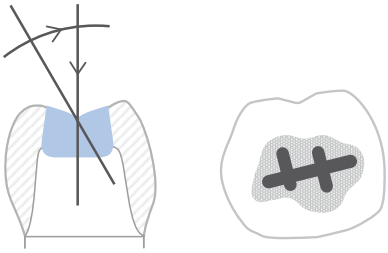
*Kronentrenner für Einmalgebrauch*


**100461**

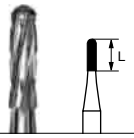
**Contents** · *Inhalt*

| REF | | CB31RS |
|---|---|---|
| ISO | 500.**314** | 137.292<br>012 |
| | | 100 |

# Amalgam Remover
## *Amalgamentferner*



**CB 21 RMX**



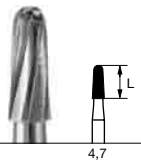

| L mm | 4,2 |
|---|---|
| US No. | 1158 |

| REF | CB 21 RMX |
|---|---|
| ISO | 500.**314**.137.006… **012** |

gold-colored instruments
*goldfarbene Instrumente*

# Adhesive Remover
## *Klebstoffentferner*

**CB 27**

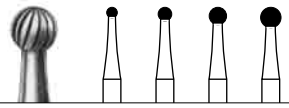



| L mm | 4,7 |
|---|---|

| REF | CB 27 |
|---|---|
| ISO | 500.**204**.194.XXX… **016** |

# Finishing Instruments
## *Finierer*

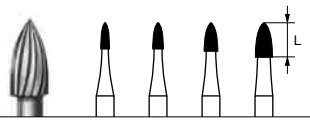
### CF 41



| US No. | | 7004 | 7006 | 7008 | 7009 |
|---|---|---|---|---|---|
| REF | **CF 41** | | | | |
| ISO | 500.**204**.001.071… | **014** | **018** | **023** | **027** |
| | 500.**314**.001.071… | **014** | **018** | **023** | |

023 = max. 300 000 min⁻¹

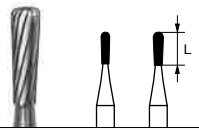
### CF 46




| L mm | | 3,5 | 3,5 | 3,8 | 4,6 |
|---|---|---|---|---|---|
| US No. | | 7102 | 7104 | 7106 | 7108 |
| REF | **CF 46** | | | | |
| ISO | 500.**204**.254.072… | | | **018** | |
| | 500.**314**.254.072… | **012** | **014** | **018** | **023** |

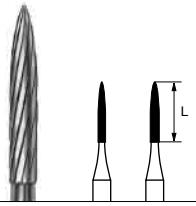
023 = max. 300 000 min⁻¹

### CF 47 L




| L mm | | 4,2 | 4,4 |
|---|---|---|---|
| US No. | | 7303 | 7304 |
| REF | **CF 47 L** | | |
| ISO | 500.**314**.234.072… | **012** | **014** |

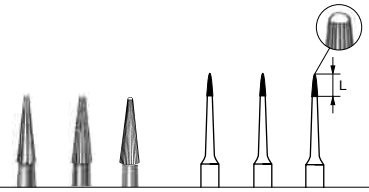
### CF 48 L




| L mm | | 8,0 | 8,0 |
|---|---|---|---|
| REF | **CF 48 L** | | |
| ISO | 500.**314**.249.072… | **010** | **012** |

= max. 300 000 min⁻¹

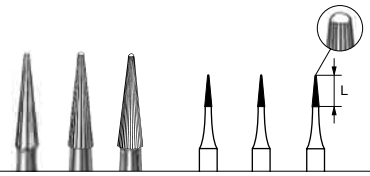
### CF 132
### CF 132 F
### CF 132 UF




| L mm | | 3,0 | 3,0 | 3,0 |
|---|---|---|---|---|
| Blades · Schneiden | | 8 | 16 | 30 |
| REF | **CF 132** | | | |
| ISO | 500.**314**.699.071… | **008** | | |
| ☐ | **CF 132 F** fine · fein | | | |
| | 500.**314**.699.041… | | **008** | |
| ☐ | **CF 132 UF** ultra-fine · ultrafein | | | |
| | 500.**314**.699.031… | | | **008** |

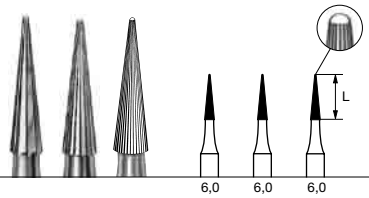
008 = max. 300 000 min⁻¹

### CF 133
### CF 133 F
### CF 133 UF



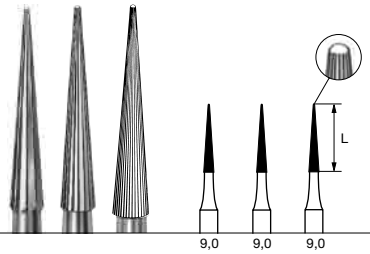

| L mm | | 4,2 | 4,2 | 4,2 |
|---|---|---|---|---|
| Blades · Schneiden | | 8 | 16 | 30 |
| REF | **CF 133** | | | |
| ISO | 500.**314**.159.071… | **010** | | |
| ☐ | **CF 133 F** fine · fein | | | |
| | 500.**314**.159.041… | | **010** | |
| ☐ | **CF 133 UF** ultra-fine · ultrafein | | | |
| | 500.**314**.159.031… | | | **010** |

### CF 134
### CF 134 F
### CF 134 UF




| L mm | | 6,0 | 6,0 | 6,0 |
|---|---|---|---|---|
| Blades · Schneiden | | 8 | 16 | 30 |
| REF | **CF 134** | | | |
| ISO | 500.**314**.164.071… | **014** | | |
| ☐ | **CF 134 F** fine · fein | | | |
| | 500.**314**.164.041… | | **014** | |
| ☐ | **CF 134 UF** ultra-fine · ultrafein | | | |
| | 500.**314**.164.031… | | | **014** |

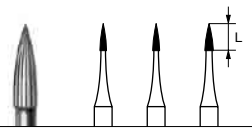
### CF 135
### CF 135 F
### CF 135 UF




| L mm | | 9,0 | 9,0 | 9,0 |
|---|---|---|---|---|
| Blades · Schneiden | | 8 | 16 | 30 |
| REF | **CF 135** | | | |
| ISO | 500.**314**.166.071… | **014** | | |
| ☐ | **CF 135 F** fine · fein | | | |
| | 500.**314**.166.041… | | **014** | |
| ☐ | **CF 135 UF** ultra-fine · ultrafein | | | |
| | 500.**314**.166.031… | | | **014** |

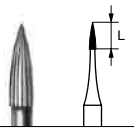
max. 300 000 min⁻¹

## CF 246



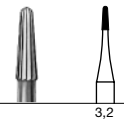

| | | | | |
|---|---|---|---|---|
| L mm | | 3,6 | 3,6 | 3,6 |
| US No. | | 7901 | 7902 | 7903 |
| REF | **CF 246** | | | |
| ISO | 500.**204**.496.071… | **009** | | |
| | 500.**314**.496.071… | **009** | **010** | **012** |

## CF 246 UF



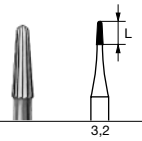

| | | |
|---|---|---|
| L mm | | 3,6 |
| REF | ☐ **CF 246 UF** | ultra-fine · ultrafein |
| ISO | 500.**314**.496.031… | **009** |

## CF 247



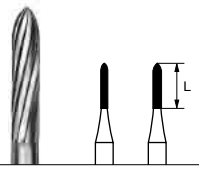
| | | |
|---|---|---|
| L mm | | 3,2 |
| US No. | | 7801 |
| REF | **CF 247** | |
| ISO | 500.**314**.195.071… | **009** |

## CF 247 F



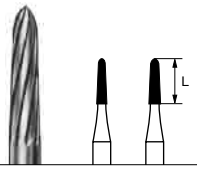

| | | |
|---|---|---|
| L mm | | 3,2 |
| REF | ☐ **CF 247 F** | |
| ISO | 500.**314**.195.041… | **009** |

## CF 282



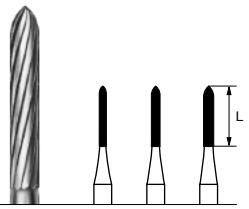

| | | | |
|---|---|---|---|
| L mm | | 6,0 | 6,0 |
| REF | **CF 282** | | |
| ISO | 500.**314**.288.072… | **010** | **012** |

## CF 282 K




| | | | | |
|---|---|---|---|---|
| L mm | | 6,0 | 6,0 | |
| REF | **CF 282 K** | | | |
| ISO | 500.**204**.297.072… | **014** | **016** | |
| | 500.**314**.297.072… | **014** | | |

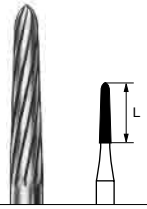
## CF 283




| | | | | |
|---|---|---|---|---|
| L mm | | 8,0 | 8,0 | 8,0 |
| REF | **CF 283** | | | |
| ISO | 500.**204**.289.072… | | **012** | |
| | 500.**314**.289.072… | **010** | **012** | **014** |

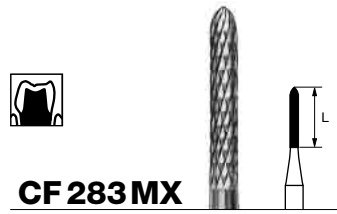
010–014 = ↻ max. 300 000 min⁻¹

## CF 283 K




| | | | |
|---|---|---|---|
| L mm | | 8,0 | |
| REF | **CF 283 K** | | |
| ISO | 500.**204**.298.072… | **016** | |
| | 500.**314**.298.072… | **016** | |

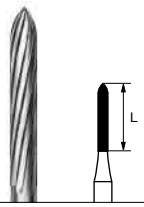
## CF 283 MX




| | | |
|---|---|---|
| L mm | | 8,0 |
| REF | **CF 283 MX** | |
| ISO | 500.**104**.289.080… | **012** |
| ISO | 500.**314**.289.080… | **012** |

012 = ↻ max. 300 000 min⁻¹

## CF 284

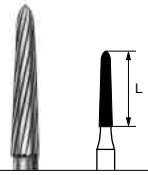



| L mm | 10,0 |
|---|---|

| REF | CF 284 |
|---|---|
| ISO | 500.**314**.290.072… **014** |

014 = max. 300 000 min⁻¹

## CF 284 K

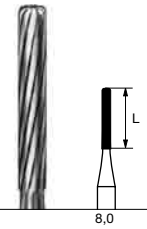



| L mm | 10,0 |
|---|---|

| REF | CF 284 K |
|---|---|
| ISO | 500.**314**.299.072… **018** |

018 = max. 300 000 min⁻¹

## CF 297

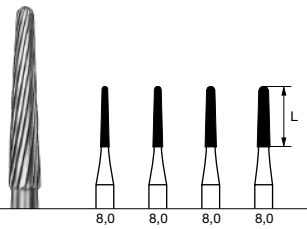



| L mm | 8,0 |
|---|---|

| REF | CF 297 |
|---|---|
| ISO | 500.**314**.158.072… **012** |

012 = max. 300 000 min⁻¹

## CF 375 R

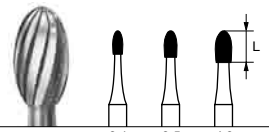



| L mm | 8,0 | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| US No. | 7653 | 7664 | 7675 | 7686 |

| REF | CF 375 R | | | | |
|---|---|---|---|---|---|
| ISO | 500.**314**.198.072… | **012** | **014** | **016** | **018** |

012–014 = max. 300 000 min⁻¹

## CF 379

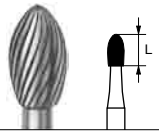



| L mm | 3,1 | 3,5 | 4,2 |
|---|---|---|---|
| US No. | 7404 | 7406 | 7408 |

| REF | CF 379 | | | |
|---|---|---|---|---|
| ISO | 500.**204**.277.072… | **014** | **018** | **023** |
| | 500.**314**.277.072… | **014** | **018** | **023** |

023 = max. 300 000 min⁻¹

## CF 379 F

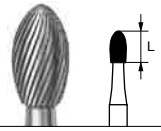



| L mm | 4,2 |
|---|---|

| REF | CF 379 F | fine · fein |
|---|---|---|
| ISO | 500.**314**.277.042… | **023** |

023 = max. 300 000 min⁻¹

## CF 379 UF

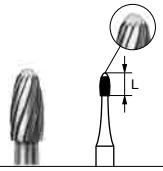



| L mm | 4,2 |
|---|---|

| REF | CF 379 UF | ultra-fine · ultrafein |
|---|---|---|
| ISO | 500.**314**.277.032… | **023** |

023 = max. 300 000 min⁻¹

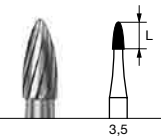
## CF 379 GK




| L mm | 3,1 |
|---|---|

| REF | CF 379 GK |
|---|---|
| ISO | 500.**314**.279.072… **014** |

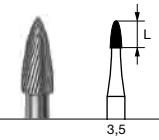
## CF 390




| L mm | 3,5 |
|---|---|

| REF | CF 390 |
|---|---|
| ISO | 500.**104**.274.072… **016** |
| | 500.**204**.274.072… **016** |
| | 500.**314**.274.072… **016** |

## CF 390 UF




| L mm | 3,5 |
|---|---|

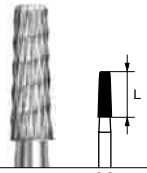
| REF | CF 390 UF |
|---|---|
| ISO | 500.**314**.274.032… **016** |

# DF Finishing Instruments
## *DF Finierer*

**DF finishing instruments for shaping the crown core**
- fine diamond toothing on the peripheral surface
- better cement retention due to controlled surface roughening with a defined roughness of 5 – 8 µm
- smooth crown margin for perfect marginal seal

*DF Finierer zur Formgebung des Kronenstumpfes*
- *feine Diamantverzahnung an der Mantelfläche*
- *bessere Zementhaftung durch gleichmäßig aufgeraute Oberflächen mit einer definierten Rauigkeit von 5 – 8 µm*
- *glatter Kronenrand für dichten Randschluss*

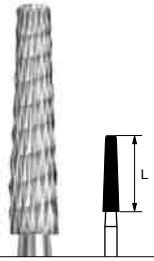
### CF 216 DF




| L mm | 6,0 |
|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 216 DF | 500.**314**.XXX.XXX… **018** | | |

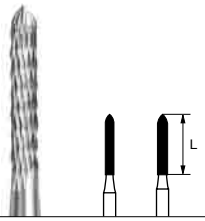
### CF 217 DF




| L mm | 10,0 |
|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 217 DF | 500.**314**.XXX.XXX… **021** | | |

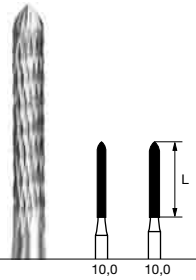
### CF 283 DF




| L mm | 8,0 | 8,0 |
|---|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 283 DF | 500.**314**.XXX.XXX… **012** | **014** | |

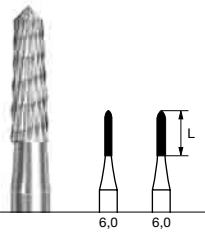
### CF 284 DF




| L mm | 10,0 | 10,0 |
|---|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 284 DF | 500.**314**.XXX.XXX… **012** | **014** | |

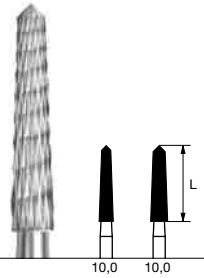
### CF 340 DF




| L mm | 6,0 | 6,0 |
|---|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 340 DF | 500.**314**.XXX.XXX… **016** | **020** | |

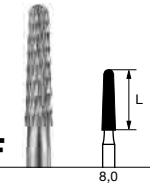
### CF 341 DF




| L mm | 10,0 | 10,0 |
|---|---|---|

| REF | ISO | | |
|---|---|---|---|
| CF 341 DF | 500.**314**.XXX.XXX… **018** | **023** | |

### CF 375 RDF




| L mm | 8,0 |
|---|---|

| REF | ISO | |
|---|---|---|
| CF 375 RDF | 500.**314**.XXX.XXX… **018** | |

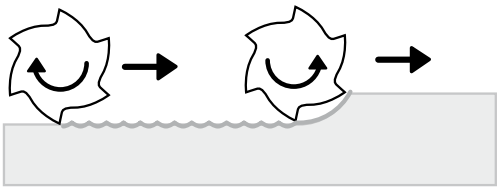
# B Finishing Instruments
## *B Finierer*

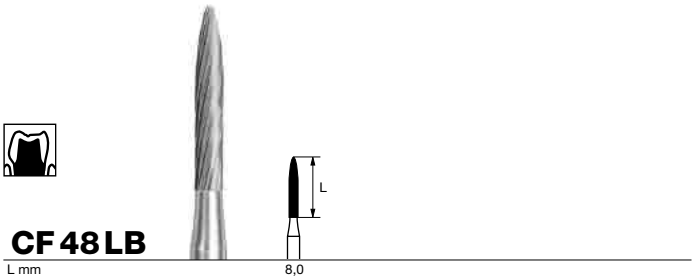
**Most advanced production technologies – finishing instruments with combined toothing for working on plastic materials**

**Multifunctional use**
- The combination finishing instruments for right-hand and left-hand rotation make it possible to trim and finish with only one instrument.

*Ausdruck modernster Fertigungstechnologien – Kombinationsfinierer für die Bearbeitung von plastischen Materialien*

*Multifunktioneller Gebrauch*
- *Durch den Einsatz der Kombinationsfinierer im Rechts- und Linkslauf werden die beiden Arbeitsschritte Ausarbeiten und Finieren mit nur einem Instrument möglich gemacht.*



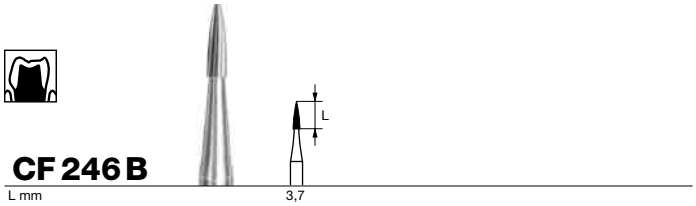



**CF 48 LB**

| L mm | 8,0 |
|---|---|

| REF | CF 48 LB |
|---|---|
| ISO | 500.**314**.XXX.XXX… **012** |

max. 300 000 min⁻¹

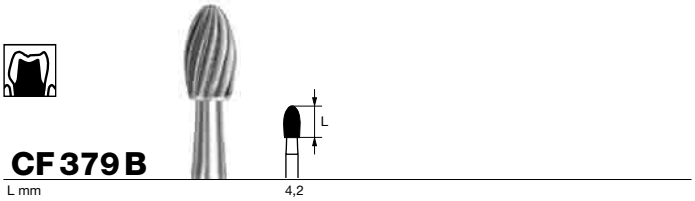



**CF 246 B**

| L mm | 3,7 |
|---|---|

| REF | CF 246 B |
|---|---|
| ISO | 500.**314**.XXX.XXX… **009** |

max. 300 000 min⁻¹

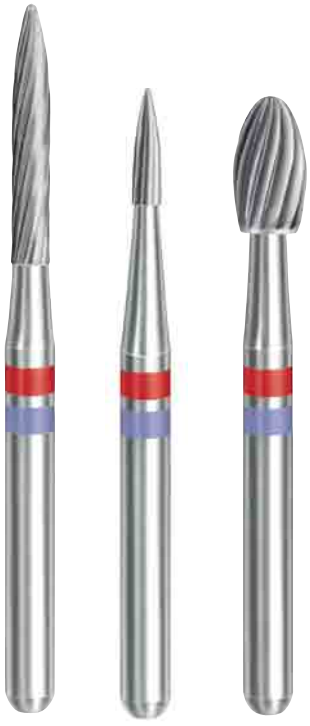



**CF 379 B**

| L mm | 4,2 |
|---|---|

| REF | CF 379 B |
|---|---|
| ISO | 500.**314**.XXX.XXX… **023** |

max. 300 000 min⁻¹



# Intra-oral Work on titanium
## *Intraorale Titanbearbeitung*


We have developed new special tungsten carbide instruments for intra-oral corrections on titanium. (CB856G.314.018, CB847KRG.314.018). These are particularly suitable for effective work on titanium and should be followed by a final finishing step with a matching finisher (CF336.314.018, CF375R.314.018).

**The advantages at a glance:**
- Coarse toothing with cross-cut, specially developed for intra-oral preparation of titanium
- Allows treatment of tough materials without clogging
- Practice orientated shapes for preparation of abutments
- Matching finishers available

**Recommendations for use:**
- To avoid excessive heat generation and for optimum chip removal, work with irrigation (at least 50 ml/min) and suction.
- Recommended speed:
  For shaping: 160.000 rpm
  For finishing: 20.000 rpm

*Für intraorale Korrekturen bieten wir eigens für Titan entwickelte Hartmetall-Spezialinstrumente an, die das effektive Bearbeiten von Titan ermöglichen (CB856G.314.018, CB847KRG.314.018).*
*Zur anschließenden Finitur empfehlen wir die entsprechenden Finierer (CF336.314.018, CF375R.314.018).*

***Die Vorteile im Überblick:***
- *Speziell für Titan entwickelte grobe Verzahnung mit Querhieb*
- *Bearbeitung des zähen Materials ohne zu verschmieren*
- *Praxisgerechte Formen zur Abutmentgestaltung*
- *Formgleiche Finierer verfügbar*

***Anwendungshinweise:***
- *Zur Vermeidung von übermäßiger Wärmeentwicklung und zur optimalen Spanabfuhr mit Kühlung (mind. 50 ml/min.) und Absaugung arbeiten.*
- *Drehzahlempfehlung:*
  *Formgebung: 160.000 $min^{-1}$*
  *Finitur: 20.000 $min^{-1}$*

**NEW**

## CB 856G

L mm 8,0

| REF | CB 856G |
|---|---|
| ISO | 500.**314**.XXX.XXX... **018** |

$n_{max}$ 450 000 min$^{-1}$

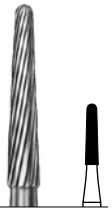
## CB 847KRG

L mm 8,0

| REF | CB 847KRG |
|---|---|
| ISO | 500.**314**.XXX.XXX... **018** |

$n_{max}$ 450 000 min$^{-1}$

## CF 375R



L mm 8,0

| REF | CF 375R |
|---|---|
| ISO | 500.**314**.198072... **018** |

$n_{max}$ 450 000 min$^{-1}$

## CF 336

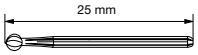
L mm 8,0

| REF | CF 336 |
|---|---|
| ISO | 500.**314**.546072... **018** |

$n_{max}$ 450 000 min$^{-1}$

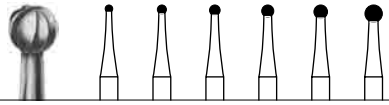
# Surgical Instruments
## *Chirurgische Instrumente*

**316 · FG extra-long** · *FG extra lang*




Ø 1,60 mm

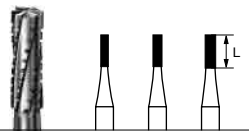
### CB 1



| US No. | 2 | 3 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|---|
| REF | | | | | | |
| ISO 500.**316**.001.001… | **010** | **012** | **014** | **016** | **018** | **023** |

010–023 = max. 100 000 min⁻¹

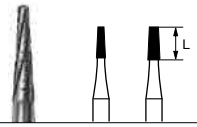
### CB 31




| L mm | 4,2 | 4,2 | 4,4 |
|---|---|---|---|
| US No. | 557 | 558 | 559 |
| REF | **CB 31** | | |
| ISO 500.**316**.107.007… | **010** | **012** | **014** |

010–014 = max. 300 000 min⁻¹

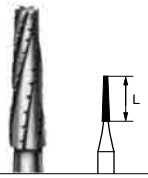
### CB 33




| L mm | 4,2 | 4,4 |
|---|---|---|
| US No. | 701 | 702 |
| REF | **CB 33** | |
| ISO 500.**316**.168.007… | **012** | **016** |

012–016 = max. 300 000 min⁻¹

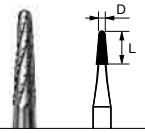
### CB 33 L




| L mm | 6,0 |
|---|---|
| US No. | 700xL |
| REF | **CB 33 L** |
| ISO 500.**316**.171.007… | **010** |

010 = max. 300 000 min⁻¹

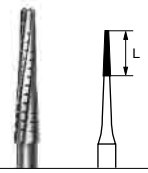
### CB 33 R




| L mm | 4,2 |
|---|---|
| US No. | 1702 |
| REF | **CB 33 R** |
| ISO 500.**316**.194.007… | **016** |

016 = max. 300 000 min⁻¹

### CB 254

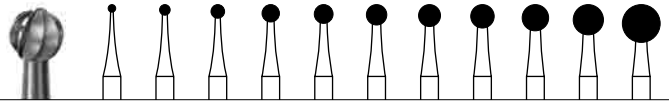



| L mm | 6,0 |
|---|---|
| US No. | 700xL |
| REF | **CB 254** |
| ISO 500.**314**.415.296… | **010** |
| 500.**316**.415.296… | **010** |

010 = max. 80 000 min⁻¹

# Surgical Instruments
## *Chirurgische Instrumente*

### CB 141

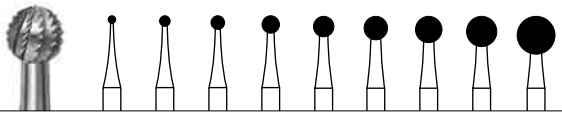


| REF | CB 141 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 500.**104**.001.291… | **010** | **014** | **018** | **023** | **025** | **027** | **029** | **031** | **035** | **040** | **050** |
| | 500.**105**.001.291… | | | | **023** | | **027** | | **031** | | | **050** |
| | 500.**205**.001.291… | **010** | **014** | **018** | **023** | **025** | **027** | **029** | **031** | **035** | **040** | |
| | 500.**206**.001.291… | **010** | **014** | **018** | **023** | **025** | **027** | **029** | | | | |

max. 100 000 min$^{-1}$ 040 = max. 80 000 min$^{-1}$ 050 = max. 60 000 min$^{-1}$

Photo: Dr. Fürstenau, Detmold, Germany

### CB 141 A

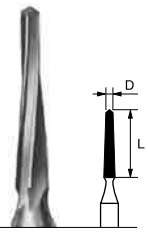


| REF | CB 141 A | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 500.**104**.001.298… | **010** | **014** | **018** | **023** | **027** | **031** | **035** | **040** | **050** |
| | 500.**205**.001.298… | | **014** | **018** | **023** | **027** | **031** | **035** | **040** | |
| | 500.**206**.001.298… | **010** | **014** | **018** | **023** | **027** | **031** | | | |

max. 100 000 min$^{-1}$ 040 = max. 80 000 min$^{-1}$ 050 = max. 60 000 min$^{-1}$

Photo: Dr. Fürstenau, Detmold, Germany

# Bone Cutters
## *Knochenfräser*

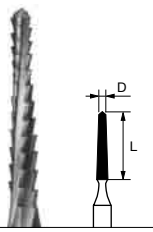



### CB 161

| | |
|---|---|
| L mm | 9,0 |
| D Ø | 011 |

| REF | CB 161 |
|---|---|
| ISO | 500.**104**.408.295… **016** |
| | 500.**314**.408.295… **016** |

max. 100 000 min⁻¹ 016 = max. 160 000 min⁻¹

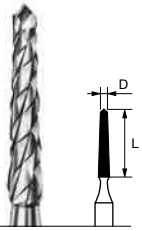



### CB 162

| | |
|---|---|
| L mm | 9,0 |
| D Ø | 011 |

| REF | CB 162 |
|---|---|
| ISO | 500.**104**.408.297… **016** |
| | 500.**204**.408.297… **016** |
| | 500.**205**.408.297… **016** |
| | 500.**314**.408.297… **016** |

max. 100 000 min⁻¹ 016 = max. 160 000 min⁻¹

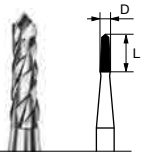



### CB 162A

| | |
|---|---|
| L mm | 9,0 |
| D Ø | 011 |

| REF | CB 162A |
|---|---|
| ISO | 500.**104**.408.298… **016** |
| | 500.**204**.408.298… **016** |
| | 500.**205**.408.298… **016** |
| | 500.**314**.408.298… **016** |

max. 100 000 min⁻¹ 016 = max. 160 000 min⁻¹

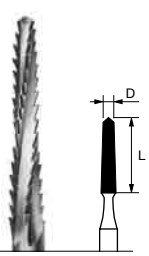



### CB 163A

| | |
|---|---|
| L mm | 5,0 |
| D Ø | 009 |

| REF | CB 163A |
|---|---|
| ISO | 500.**104**.408.298… **014** |
| | 500.**204**.408.298… **014** |

max. 100 000 min⁻¹

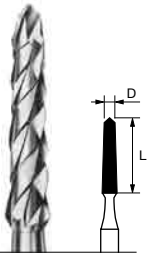



### CB 166

| | |
|---|---|
| L mm | 10,0 |
| D Ø | 015 |

| REF | CB 166 |
|---|---|
| ISO | 500.**104**.409.297… **021** |
| | 500.**204**.409.297… **021** |
| | 500.**205**.409.297… **021** |

max. 100 000 min⁻¹

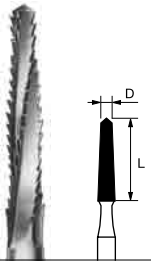



### CB 166A

| | |
|---|---|
| L mm | 10,0 |
| D Ø | 015 |

| REF | CB 166A |
|---|---|
| ISO | 500.**104**.409.298… **021** |
| | 500.**204**.409.298… **021** |
| | 500.**205**.409.298… **021** |

max. 100 000 min⁻¹

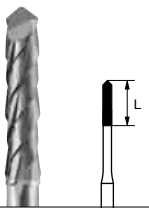



### CB 167

| | |
|---|---|
| L mm | 11,0 |
| D Ø | 016 |

| REF | CB 167 |
|---|---|
| ISO | 500.**104**.410.297… **023** |

max. 100 000 min⁻¹



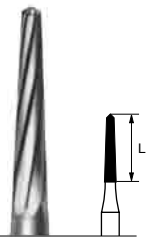

### CB 255A

| | |
|---|---|
| L mm | 6,0 |

| REF | CB 255A |
|---|---|
| ISO | 500.**314**.415.298… **012** |
| | 500.**316**.415.298… **012** |

max. 100 000 min⁻¹

CB 255 A

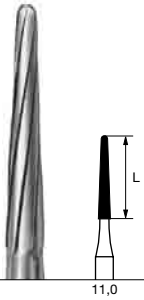



### CB 267

| | |
|---|---|
| L mm | 9,0 |

| REF | CB 267 |
|---|---|
| ISO | 500.**314**.210.295… **016** |

max. 160 000 min⁻¹

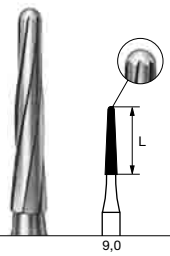



### CB 269

| | |
|---|---|
| L mm | 11,0 |

| REF | CB 269 |
|---|---|
| ISO | 500.**314**.199.295… **016** |

max. 160 000 min⁻¹




### CB 269 GK

| | |
|---|---|
| L mm | 9,0 |

| REF | CB 269 GK |
|---|---|
| ISO | 500.**314**.219.295… **016** |

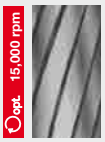
max. 160 000 min⁻¹

| **Application types** | *Anwendungsart* | **Speed** | *Drehzahl (min⁻¹)* | **Toothing types** | *Verzahnungsarten* |
|---|---|---|---|---|---|
|  | **Acrylic Denture Basis acrylics**<br>*Prothesenkunststoffe* | opt. 15000 | |  | **Conventional**<br>**Trimming** · *Ausarbeiten*<br>**Page** · *Seite* **50**<br>**AX** |
|  | **Dry plaster / Model plaster**<br>*Trockene Gipse / Modelle* | opt. 10000 | |  | **CX**<br>**Page** · *Seite* **51**<br>**Bulk reduction**<br>*Grober Abtrag* |
|  | **Wet plaster / Model plaster**<br>*Feuchte Gipse / Modelle* | opt. 10000 | |  | **SCX/A**<br>**Page** · *Seite* **51**<br>**Bulk reduction**<br>*Grober Abtrag* |
|  | **Precious metals / Non-precious metal alloys**<br>*Edelmetalle / NEM* | opt. 12000*<br>–25000* | |  | **DX**<br>**Page** · *Seite* **52**<br>**Roughening**<br>*Aufrauen* |
|  | **Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics**<br>*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe* | opt. 15000*<br>–25000* | |  | **FX**<br>**Page** · *Seite* **53, 54**<br>**Corrections · smoothing**<br>*Korrekturen · Glätten* |
|  | **Titanium / Non-precious metal alloys**<br>*Titan / Nicht-Edelmetalle* | opt. 15000* | |  | **GTX**<br>**Page** · *Seite* **55**<br>**Cutting**<br>*Zerspanen* |
|  | **Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics**<br>*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe* | opt. 15000*<br>–25000* | |  | **MX**<br>**Page** · *Seite* **56, 57**<br>**Trimming · smoothing**<br>*Ausarbeiten · Glätten* |
|  | **Soft relinings / Denture acrylics / Non-precious metal alloys / Precious metal alloys / Model cast alloys / Veneer acrylics**<br>*Weichbleibende Unterfütterungen / Prothesenkunststoffe / NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe* | opt. 15000* | |  | **QFX**<br>**Page** · *Seite* **58**<br>**Trimming · contouring**<br>*Ausarbeiten · Konturieren* |
|  | **Soft acrylics / Temporary appliances**<br>*Softkunststoffe / Provisorien* | opt. 15000 | |  | **QX**<br>**Page** · *Seite* **59**<br>**Trimming · smoothing**<br>*Ausarbeiten · Glätten* |
|  | **Hard non-precious metal alloys**<br>*Harte NEM-Legierungen* | opt. 15000 | |  | **TX**<br>**Page** · *Seite* **60**<br>**Trimming · contouring**<br>*Ausarbeiten · Konturieren* |
|  | **Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics / Soft ceramics**<br>*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe / Softkeramik* | opt. 15000*<br>–25000* | |  | **VFX**<br>**Page** · *Seite* **61, 62**<br>**Trimming · smoothing**<br>*Ausarbeiten · Glätten* |

opt. 15000* = non-precious metal alloys · *NEM-Legierungen*
opt. 25000* = precious metal alloys · *Edelmetall-Legierungen*

# Conventional Cutters
## *Normalverzahnung*

**Veneer acrylics**
*Prothesenkunststoffe*

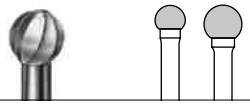



**Conventional**

Trimming
*Ausarbeiten*

### → CB 1

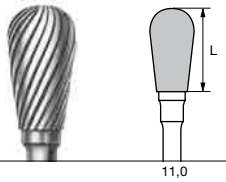
### CC 71



| REF | CC 71 | | |
|---|---|---|---|
| ISO | 500.**104**.001.175… | **040** | **050** |

040 = max. 100 000 min⁻¹
050 = max. 80 000 min⁻¹

### CC 77

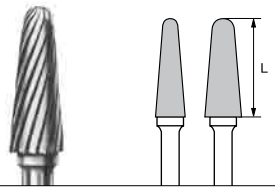



L mm: 11,0

| REF | CC 77 | |
|---|---|---|
| ISO | 500.**104**.237.175… | **060** |

060 = max. 50 000 min⁻¹

### CC 79

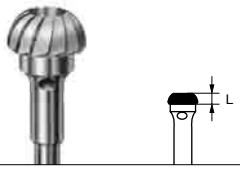



L mm: 13,0 13,0

| REF | CC 79 | | |
|---|---|---|---|
| ISO | 500.**104**.194.175… | **040** | **050** |

040 = max. 100 000 min⁻¹
050 = max. 80 000 min⁻¹

### CC 98

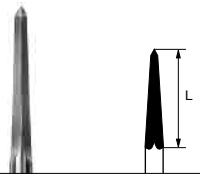



L mm: 1,6

| REF | CC 98 | |
|---|---|---|
| ISO | 500.**104**.547.211… | **040** |

060 = max. 100 000 min⁻¹

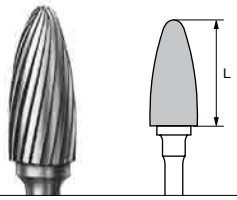
### CC 219




L mm: 13,0

| REF | CC 219 | |
|---|---|---|
| ISO | 500.**104**.468.211… | **023** |

### CC 251

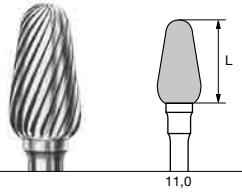



L mm: 14,0

| REF | CC 251 | |
|---|---|---|
| ISO | 500.**104**.274.175… | **060** |

060 = max. 50 000 min⁻¹

### CC 351




L mm: 11,0

| REF | CC 351 | |
|---|---|---|
| ISO | 500.**104**.263.175… | **060** |

060 = max. 50 000 min⁻¹

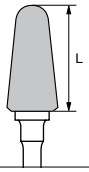
# AX Cutters
## *AX Verzahnung*

**Acrylic Denture Basis**
**acrylics**
*Prothesenkunststoffe*

opt. 15,000 rpm

**AX**

Trimming
*Ausarbeiten*

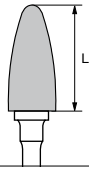



**CC 79 AX**

L mm 14,0

| REF | CC 79 AX |
|---|---|
| ISO | 500.**104**.XXX.XXX… **070** |

max. 50 000 min⁻¹




**CC 251 AX**

L mm 14,0

| REF | CC 251 AX |
|---|---|
| ISO | 500.**104**.274.XXX… **060** |

max. 50 000 min⁻¹

# CX/SCX Cutters
## *CX/SCX Verzahnung*

**Dry plaster**
**Model plaster**
*Trockene Gipse*
*Modelle*

opt. 10,000 rpm

**CX**

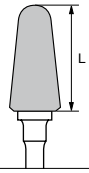
Bulk reduction
*Grober Abtrag*

**Wet plaster**
**Model plaster**
*Feuchte Gipse*
*Modelle*

opt. 10,000 rpm

**SCX**

Bulk reduction
*Grober Abtrag*

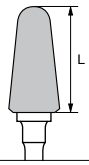



**CC 79 CX**

L mm 14,0

| REF | CC 79 CX |
|---|---|
| ISO | 500.**104**.194.220… **070** |

max. 30 000 min⁻¹

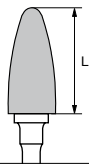



**CC 79 SCX**

L mm 14,0

| REF | CC 79 SCX |
|---|---|
| ISO | 500.**104**.194.223… **070** |

max. 30 000 min⁻¹

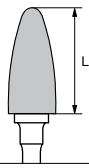



**CC 251 CX**

L mm 14,0

| REF | CC 251 CX |
|---|---|
| ISO | 500.**104**.274.220… **060** |

max. 50 000 min⁻¹




**CC 251 SCXA**

L mm 14,0

| REF | CC 251 SCXA |
|---|---|
| ISO | 500.**104**.274.225… **060** |

max. 50 000 min⁻¹

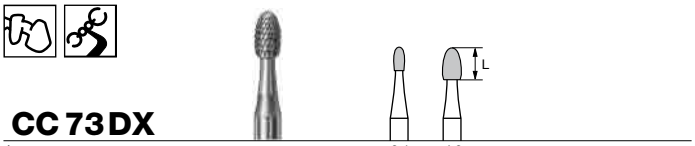
# DX Cutters
## *DX Verzahnung*

**Precious metals / Non-precious metal alloys**
*Edelmetalle / NEM*

opt. 15,000 rpm – 25,000 rpm

DX

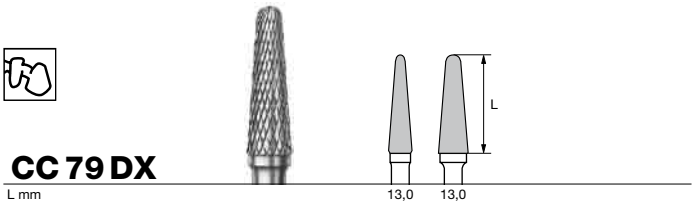
Roughening
*Aufrauen*



## CC 73 DX

L mm: 3,1 4,2

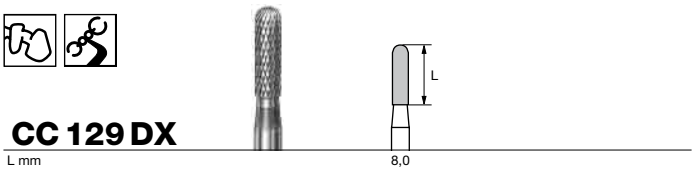
| REF | CC 73 DX |
|---|---|
| ISO | 500.**104**.277.141… **014 023** |



## CC 79 DX

L mm: 13,0 13,0

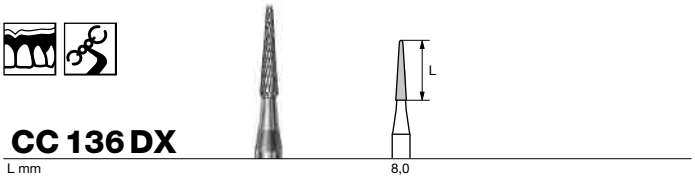
| REF | CC 79 DX |
|---|---|
| ISO | 500.**104**.194.141… **031 040** |



## CC 129 DX

L mm: 8,0

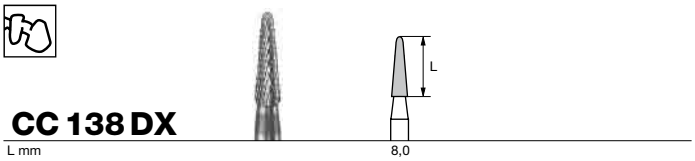
| REF | CC 129 DX |
|---|---|
| ISO | 500.**104**.141.141… **023** |



## CC 136 DX

L mm: 8,0

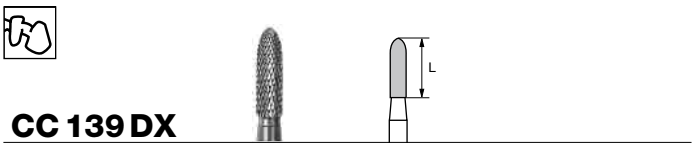
| REF | CC 136 DX |
|---|---|
| ISO | 500.**104**.184.141… **016** |



## CC 138 DX

L mm: 8,0

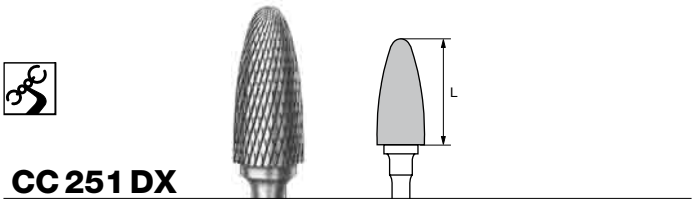
| REF | CC 138 DX |
|---|---|
| ISO | 500.**104**.198.141… **023** |



## CC 139 DX

L mm: 8,0

| REF | CC 139 DX |
|---|---|
| ISO | 500.**104**.289.141… **023** |

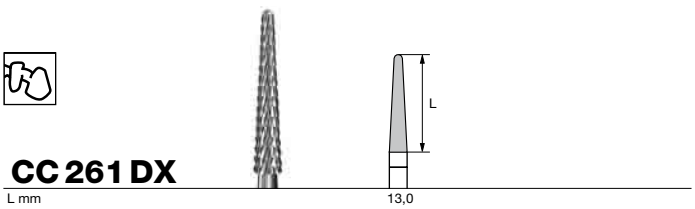


## CC 251 DX

L mm: 14,0

| REF | CC 251 DX |
|---|---|
| ISO | 500.**104**.274.141… **060** |

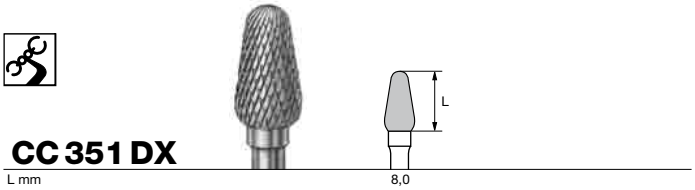
max. 50 000 min$^{-1}$



## CC 261 DX

L mm: 13,0

| REF | CC 261 DX |
|---|---|
| ISO | 500.**104**.194.141… **023** |



## CC 351 DX

L mm: 8,0

| REF | CC 351 DX |
|---|---|
| ISO | 500.**104**.263.141… **040** |

# FX Cutters
## *FX Verzahnung*

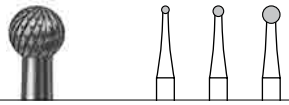
**Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics**
*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe*

opt. 15,000 rpm – 25,000 rpm

**FX**

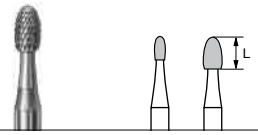
Corrections · smoothing
*Korrekturen · Glätten*

### CC 71 FX



| REF | CC 71 FX | | | |
|---|---|---|---|---|
| ISO | 500.**104**.001.140… | **010** | **014** | **023** |

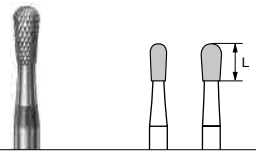
### CC 73 FX




| L mm | 3,1 | 4,2 |
|---|---|---|

| REF | CC 73 FX | | |
|---|---|---|---|
| ISO | 500.**104**.277.140… | **014** | **023** |

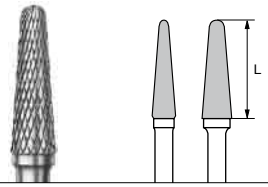
### CC 77 FX




| L mm | 5,0 | 5,0 |
|---|---|---|

| REF | CC 77 FX | | |
|---|---|---|---|
| ISO | 500.**104**.237.140… | **023** | **029** |

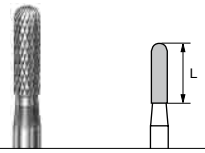
### CC 79 FX




| L mm | 13,0 | 13,0 |
|---|---|---|

| REF | CC 79 FX | | |
|---|---|---|---|
| ISO | 500.**104**.194.140… | **031** | **040** |

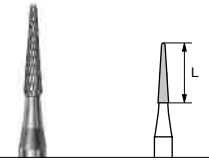
### CC 129 FX




| L mm | 8,0 |
|---|---|

| REF | CC 129 FX | |
|---|---|---|
| ISO | 500.**104**.141.140… | **023** |

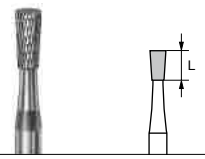
### CC 136 FX




| L mm | 8,0 |
|---|---|

| REF | CC 136 FX | |
|---|---|---|
| ISO | 500.**104**.184.140… | **016** |

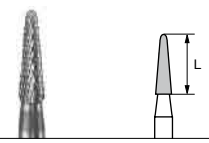
### CC 137 FX




| L mm | 5,0 |
|---|---|

| REF | CC 137 FX | |
|---|---|---|
| ISO | 500.**104**.225.140… | **023** |

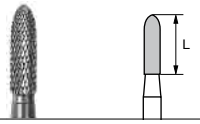
### CC 138 FX




| L mm | 8,0 |
|---|---|

| REF | CC 138 FX | |
|---|---|---|
| ISO | 500.**104**.198.140… | **023** |

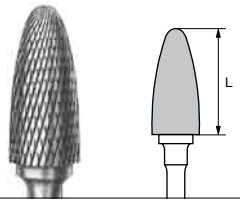
## CC 139 FX




L mm 8,0

| REF | CC 139 FX | |
|---|---|---|
| ISO | 500.**104**.289.140… | **023** |

## CC 251 FX

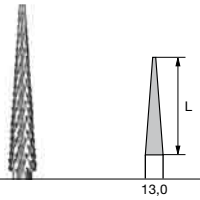



L mm 14,0

| REF | CC 251 FX | |
|---|---|---|
| ISO | 500.**104**.274.140… | **060** |

max. 50 000 min$^{-1}$

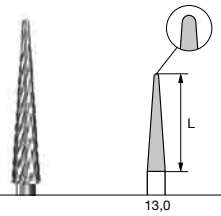
## CC 257 FX




L mm 13,0

| REF | CC 257 FX | |
|---|---|---|
| ISO | 500.**104**.187.140… | **023** |

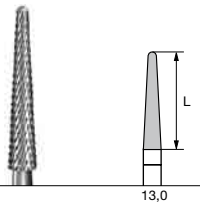
## CC 257 R FX




L mm 13,0

| REF | CC 257 R FX | |
|---|---|---|
| ISO | 500.**104**.201.140… | **023** |

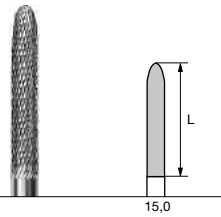
## CC 261 FX




L mm 13,0

| REF | CC 261 FX | |
|---|---|---|
| ISO | 500.**104**.194.140… | **023** |

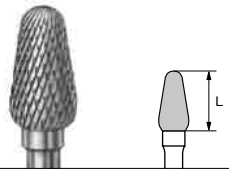
## CC 295 FX




L mm 15,0

| REF | CC 295 FX | |
|---|---|---|
| ISO | 500.**104**.292.140… | **023** |

## CC 351 FX

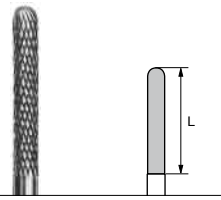



L mm 8,0

| REF | CC 351 FX | |
|---|---|---|
| ISO | 500.**104**.263.140… | **040** |

max. 50 000 min$^{-1}$

## CC 364 R FX




L mm 14,0

| REF | CC 364 R FX | |
|---|---|---|
| ISO | 500.**104**.137.140… | **023** |

# GTX Cutters
## *GTX Verzahnung*

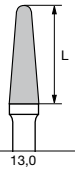
**Titanium / Non-precious metal alloys**
*Titan / Nicht-Edelmetalle*

opt. 15,000 rpm

**GTX** ■

Zerspanen
*Cutting*

### CC 79 GTX

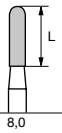



L mm 13,0

| REF | ■ CC 79 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **040** |

max. 100 000 min⁻¹

### CC 129 GTX

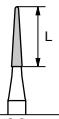



L mm 8,0

| REF | ■ CC 129 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **023** |

max. 100 000 min⁻¹

### CC 136 GTX

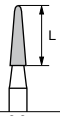



L mm 8,0

| REF | ■ CC 136 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **016** |

max. 100 000 min⁻¹

### CC 138 GTX

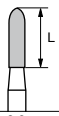



L mm 8,0

| REF | ■ CC 138 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **023** |

max. 100 000 min⁻¹

### CC 139 GTX

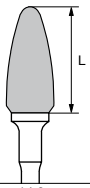



L mm 8,0

| REF | ■ CC 139 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **023** |

max. 100 000 min⁻¹

### CC 251 GTX




L mm 14,0

| REF | ■ CC 251 GTX | |
|---|---|---|
| ISO | 500.**104**.XXX.XXX… | **060** |

max. 50 000 min⁻¹

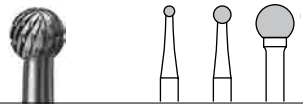
# MX Cutters
## *MX Verzahnung*

**Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics**
*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe*

opt. 15,000 rpm – 25,000 rpm

**MX**
Trimming · smoothing
*Ausarbeiten · Glätten*

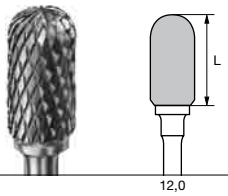
### CC 71 MX



| REF | CC 71 MX | | | |
|---|---|---|---|---|
| ISO | 500.**104**.001.190… | **014** | **023** | **050** |

050 = max. 80 000 min⁻¹

### CC 72 MX

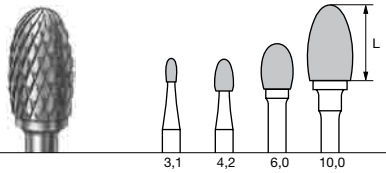



L mm: 12,0

| REF | CC 72 MX | |
|---|---|---|
| ISO | 500.**104**.137.190… | **060** |

max. 50 000 min⁻¹

### CC 73 MX

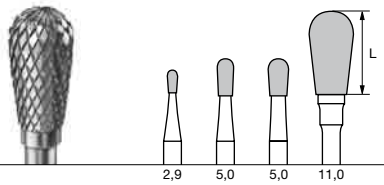



L mm: 3,1 | 4,2 | 6,0 | 10,0

| REF | CC 73 MX | | | | |
|---|---|---|---|---|---|
| ISO | 500.**104**.277.190… | **014** | **023** | **040** | **060** |

060 = max. 50 000 min⁻¹

### CC 77 MX

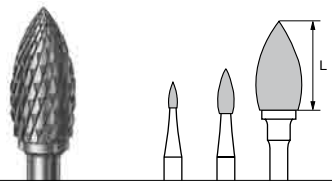



L mm: 2,9 | 5,0 | 5,0 | 11,0

| REF | CC 77 MX | | | | |
|---|---|---|---|---|---|
| ISO | 500.**104**.237.190… | **014** | **023** | **029** | **060** |

060 = max. 50 000 min⁻¹

### CC 78 MX

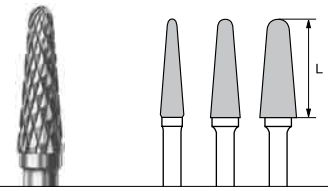



L mm: 3,5 | 6,0 | 12,0

| REF | CC 78 MX | | | |
|---|---|---|---|---|
| ISO | 500.**104**.257.190… | **012** | **023** | **060** |

060 = max. 50 000 min⁻¹

### CC 79 MX

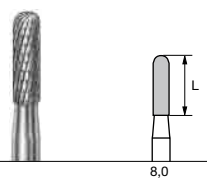



L mm: 13,0 | 13,0 | 13,0

| REF | CC 79 MX | | | |
|---|---|---|---|---|
| ISO | 500.**104**.194.190… | **031** | **040** | **050** |

050 = max. 80 000 min⁻¹

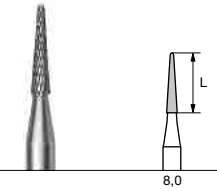
### CC 129 MX




L mm: 8,0

| REF | CC 129 MX | |
|---|---|---|
| ISO | 500.**104**.141.190… | **023** |

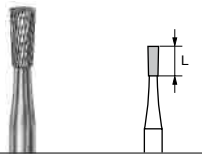
### CC 136 MX




L mm: 8,0

| REF | CC 136 MX | |
|---|---|---|
| ISO | 500.**104**.184.190… | **016** |

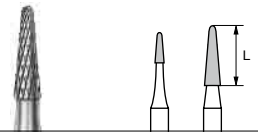
## CC 137 MX




L mm
4,0

| REF | CC 137 MX | |
|---|---|---|
| ISO | 500.**104**.225.190… | **016** |

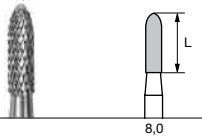
## CC 138 MX




L mm
4,0 8,0

| REF | CC 138 MX | |
|---|---|---|
| ISO | 500.**104**.198.190… | **014** |
| | 500.**104**.198.190… | **023** |

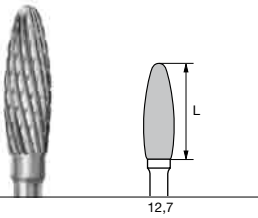
## CC 139 MX




L mm
8,0

| REF | CC 139 MX | |
|---|---|---|
| ISO | 500.**104**.289.190… | **023** |

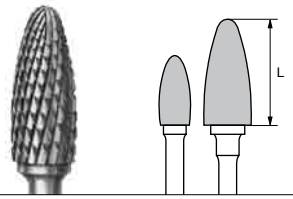
## CC 250 MX




L mm
12,7

| REF | CC 250 MX | |
|---|---|---|
| ISO | 500.**104**. 275.190… | **040** |

## CC 251 MX

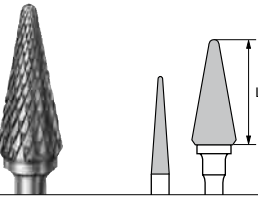



L mm
9,0 14,0

| REF | CC 251 MX | | |
|---|---|---|---|
| ISO | 500.**104**.274.190… | **040** | **060** |

060 = max. 50 000 min$^{-1}$

## CC 257 R MX

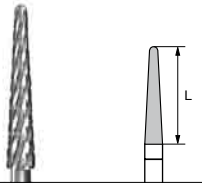



L mm
13,0 14,0

| REF | CC 257 R MX | | |
|---|---|---|---|
| ISO | 500.**104**. 201.190… | **023** | **060** |

060 = max. 50 000 min$^{-1}$

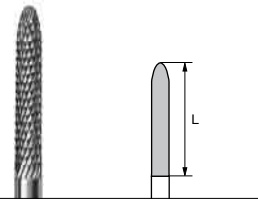
## CC 261 MX




L mm
13,0

| REF | CC 261 MX | |
|---|---|---|
| ISO | 500.**104**.194.190… | **023** |

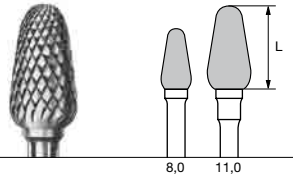
## CC 295 MX




L mm
15,0

| REF | CC 295 MX | |
|---|---|---|
| ISO | 500.**104**.292.190… | **023** |

## CC 351 MX

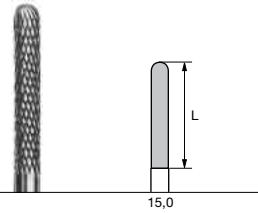



L mm
8,0 11,0

| REF | CC 351 MX | | |
|---|---|---|---|
| ISO | 500.**104**.263.190… | **040** | **060** |

060 = max. 50 000 min$^{-1}$

## CC 364 R MX




L mm
15,0

| REF | CC 364 R MX | |
|---|---|---|
| ISO | 500.**104**.137.190… | **023** |

# QFX Cutters
## *QFX Verzahnung*

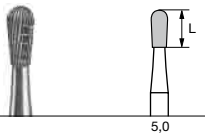
**Soft relinings / Denture acrylics / Non-precious metal alloys / Precious metal alloys / Model cast alloys / Veneer acrylics**
*Weichbleibende Unterfütterungen / Verblend-/Prothesenkunststoffe / NEM-/EM-/Modellgusslegierungen*

opt. 15,000 rpm

**QFX**

Trimming · contouring
*Ausarbeiten · Konturieren*

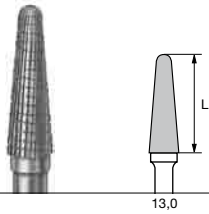
### CC 77 QFX




| L mm | 5,0 |
|---|---|

| REF | CC 77 QFX | |
|---|---|---|
| ISO | 500.**104**.237.134… | **023** |

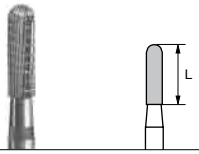
### CC 79 QFX




| L mm | 13,0 |
|---|---|

| REF | CC 79 QFX | |
|---|---|---|
| ISO | 500.**104**.194.134… | **040** |

### CC 129 QFX

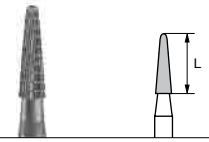



| L mm | 8,0 |
|---|---|

| REF | CC 129 QFX | |
|---|---|---|
| ISO | 500.**104**.141.134… | **023** |

max. 100 000 min$^{-1}$

### CC 138 QFX

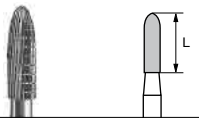



| L mm | 8,0 |
|---|---|

| REF | CC 138 QFX | |
|---|---|---|
| ISO | 500.**104**.198.134… | **023** |

max. 100 000 min$^{-1}$

### CC 139 QFX

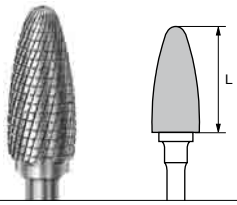



| L mm | 8,0 |
|---|---|

| REF | CC 139 QFX | |
|---|---|---|
| ISO | 500.**104**.289.134… | **023** |

max. 100 000 min$^{-1}$

### CC 251 QFX

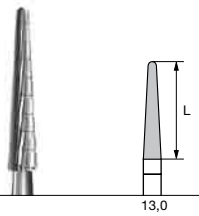



| L mm | 14,0 |
|---|---|

| REF | CC 251 QFX | |
|---|---|---|
| ISO | 500.**104**.274.134… | **060** |

max. 50 000 min$^{-1}$

### CC 261 QFX




| L mm | 13,0 |
|---|---|

| REF | CC 261 QFX | |
|---|---|---|
| ISO | 500.**104**.194.134… | **023** |

max. 100 000 min$^{-1}$

# QX Cutters
## *QX Verzahnung*

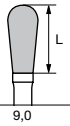
**Soft acrylics / Temporary appliances**
*Softkunststoffe / Provisorien*

opt. 15,000 rpm

**QX**

Trimming · smoothing
*Ausarbeiten · Glätten*

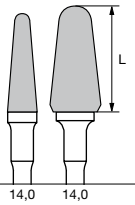
### CC 77 QX




L mm 9,0

| REF | CC 77 QX | |
|---|---|---|
| ISO | 500.**104**.237.XXX… | **040** |

### CC 79 QX

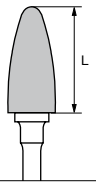



L mm 14,0 14,0

| REF | CC 79 QX | | |
|---|---|---|---|
| ISO | 500.**104**.194.XXX… | **040** | **070** |

max. 30 000 min⁻¹

### CC 251 QX

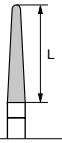



L mm 14,0

| REF | CC 251 QX | |
|---|---|---|
| ISO | 500.**104**.274.XXX… | **060** |

max. 50 000 min⁻¹

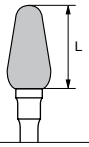
### CC 261 QX




L mm 13,0

| REF | CC 261 QX | |
|---|---|---|
| ISO | 500.**104**.194.XXX… | **023** |

### CC 351 QX




L mm 11,0

| REF | CC 351 QX | |
|---|---|---|
| ISO | 500.**104**.263.XXX… | **060** |

max. 50 000 min⁻¹

# TX Cutters
## *TX Verzahnung*

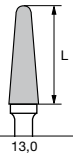
**Hard non-precious metal alloys**
*Harte NEM-Legierungen*

opt. 15,000 rpm

**TX**

Trimming · contouring
*Ausarbeiten · Konturieren*

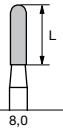
### CC 79 TX




L mm 13,0

| REF | CC 79 TX |
|---|---|
| ISO | 500.**104**.194.XXX… **040** |

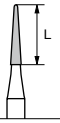
### CC 129 TX




L mm 8,0

| REF | CC 129 TX |
|---|---|
| ISO | 500.**104**.141.XXX… **023** |

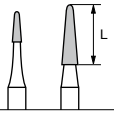
### CC 136 TX




L mm 8,0

| REF | CC 136 TX |
|---|---|
| ISO | 500.**104**.184.XXX… **016** |

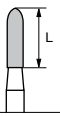
### CC 138 TX




L mm 4,0 8,0

| REF | CC 138 TX |
|---|---|
| ISO | 500.**104**.193.XXX… **014** **023** |

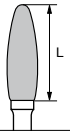
### CC 139 TX




L mm 8,0

| REF | CC 139 TX |
|---|---|
| ISO | 500.**104**.289.XXX… **023** |

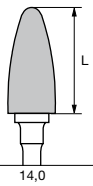
### CC 250 TX




L mm 12,7

| REF | CC 250 TX |
|---|---|
| ISO | 500.**104**.275.XXX… **040** |

### CC 251 TX

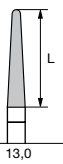



L mm 14,0

| REF | CC 251 TX |
|---|---|
| ISO | 500.**104**.274.XXX… **060** |

max. 50 000 min$^{-1}$

### CC 261 TX




L mm 13,0

| REF | CC 261 TX |
|---|---|
| ISO | 500.**104**.194.XXX… **023** |

# VFX Cutters
## *VFX Verzahnung*

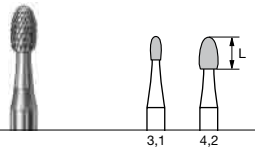
**Non-precious metal alloys / Precious metals / Model cast Veneer acrylics/Soft ceramics**
*NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe / Softkeramik*

opt. 15,000 rpm – 25,000 rpm

**VFX**

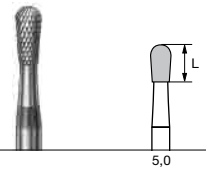
Trimming · smoothing
*Ausarbeiten · Glätten*

### CC 73 VFX



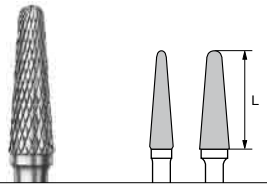

| L mm | 3,1 | 4,2 |
|---|---|---|
| REF CC 73 VFX | | |
| ISO 500.**104**.277.110… | **014** | **023** |

### CC 77 VFX



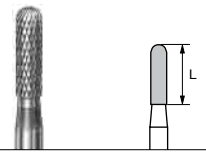

| L mm | 5,0 |
|---|---|
| REF CC 77 VFX | |
| ISO 500.**104**.237.110… | **029** |

### CC 79 VFX



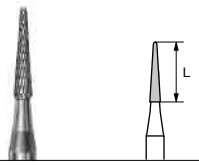

| L mm | 13,0 | 13,0 |
|---|---|---|
| REF CC 79 VFX | | |
| ISO 500.**104**.194.110… | **031** | **040** |

### CC 129 VFX



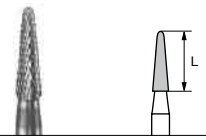

| L mm | 8,0 |
|---|---|
| REF CC 129 VFX | |
| ISO 500.**104**.141.110… | **023** |

### CC 136 VFX



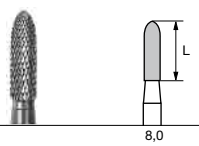

| L mm | 8,0 |
|---|---|
| REF CC 136 VFX | |
| ISO 500.**104**.184.110… | **016** |

### CC 138 VFX



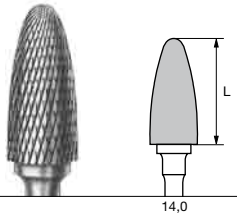

| L mm | 8,0 |
|---|---|
| REF CC 138 VFX | |
| ISO 500.**104**.198.110… | **023** |

### CC 139 VFX



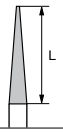

| L mm | 8,0 |
|---|---|
| REF CC 139 VFX | |
| ISO 500.**104**.289.110… | **023** |

### CC 251 VFX




| L mm | 14,0 |
|---|---|
| REF CC 251 VFX | |
| ISO 500.**104**.274.110… | **060** |

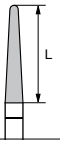
max. 50 000 min$^{-1}$




## CC 257 VFX

L mm 13,0

| REF | CC 257 VFX | |
|---|---|---|
| ISO | 500.**104**.187.110… | **023** |




## CC 261 VFX

L mm 13,0

| REF | CC 261 VFX | |
|---|---|---|
| ISO | 500.**104**.194.110… | **023** |

# Auxiliaries
# *Zubehör*

## B 9785

REF **B 9785**

**Cleaning brush**
*Reinigungsbürste*

## B 9786

REF **B 9786**

**Replacement brush**
*Ersatzbürste*

# Milling technique
## *Frästechnik*

**NEW**

**Milling technique**

A new range of cutters and polishers is now available from D+Z to facilitate efficient work on parallel and tapered surfaces (such as telescopic crowns, tapered crowns, bars for implant suprastructures and abutments) using the milling device.

**Wax cutters CM364RA and CM356RA**
The new wax cutters CM364RA and CM356RA achieve very fine surfaces in no time at all. Thanks to their special spiral-shaped blade geometry, subsequent scraping can be omitted. Important: Synchronous milling is recommended (in clockwise direction and with a clockwise drive) at a reduced speed of 3,000 rpm.

**Coarse cutter CM364RCX and CM356RCX for non-precious metal alloys and titanium**
The cutters CM364RCX and CM356RCX are designed for initial trimming of hard alloys. The cutters feature a coarse staggered toothing for optimal material reduction. Thanks to their prolonged service life they are economic in use. The cutters are operated in a contra-rotational direction using a clockwise drive. You can reduce premature wear of your cutter by using milling oil and working at a reduced speed of 6,000 rpm.

**Fine cutters CM364RS and CM356RS for non-precious metal alloys and titanium**
Used subsequently to coarse cutters, the fine cutters CM364RS and CM365RS achieve shiny surfaces thanks to their efficient toothing. The cutters are used in a contra-rotational direction at a reduced speed of 3,000 rpm and have to be lubricated with oil. If required, rework using oil and wax.

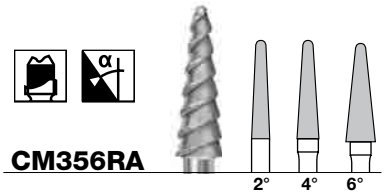
***Frästechnik***

*Für die rationelle Bearbeitung von parallelen und konischen Flächen mit dem Fräsgerät (z. B. Teleskop-kronen, Konuskronen, Stege für Implantatsuprastrukturen sowie Abutments) bietet D+Z jetzt ein neues Sortiment an Fräsern und Polierern an.*

***Wachsfräser CM364RA und CM356RA***
*Mit den Wachsfräsern CM364RA und CM356RA erreichen Sie im Handumdrehen glatte Oberflächen. Durch die spezielle, gewendelte Schneidengeometrie können Sie auf anschließendes Schaben verzichten. Wichtig: Gleichlauffräsen (mit dem Uhrzeigersinn bei rechtsdrehendem Antrieb) und lediglich 3.000 min⁻¹.*

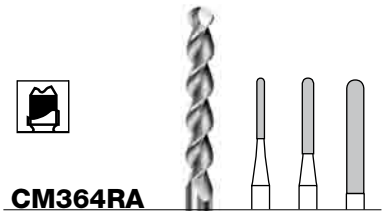
***Grobfräser CM364RCX und CM356RCX für NEM-Legierungen und Titan***
*Für das Grobfräsen von harten Legierungen sind die Fräser CM364RCX und CM356RCX gemacht. Die grobe Kreuzverzahnung der Fräser leistet einen optimalen Abtrag und hat eine gute Standzeit, damit Sie wirtschaftlich arbeiten können. Fräsen Sie bei rechtsdrehendem Antrieb gegen den Uhrzeigersinn (Gegenlauffräsen) und schonen Sie Ihre Fräser durch den Einsatz von Fräsöl*
*und moderaten Drehzahlen von 6.000 min⁻¹.*

***Feinfräser CM364RS und CM356RS für NEM-Legierungen und Titan***
*Die schnittfreudige Schlichtverzahnung der Fräser CM364RS und CM365RS zum anschließenden Glätten erzeugt auf Ihren Werkstücken bereits einen erfreulichen Glanz! Einsatz: Gegenlauffräsen mit Öl, ggf. anschließend zusätzlich mit Öl und Fräswachs mit Drehzahlen von lediglich 3.000 min⁻¹.*



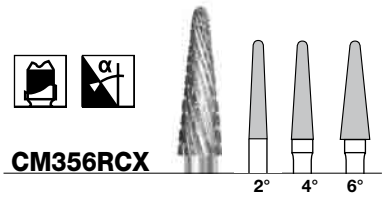
**CM356RA**

| REF | CM356RA | 2° | 4° | 6° |
|---|---|---|---|---|
| | ....**103**.... | **023** | **031** | **040** |



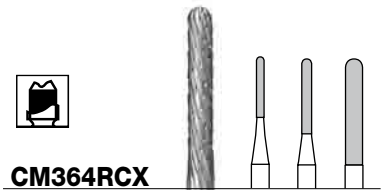
**CM364RA**

| REF | CM364RA | 010 | 015 | 023 |
|---|---|---|---|---|
| | ....**103**.... | **010** | **015** | **023** |



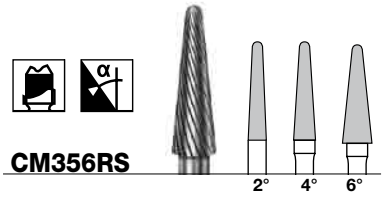
**CM356RCX**

| REF | ■ CM356RCX | 2° | 4° | 6° |
|---|---|---|---|---|
| | ....**103**.... | **023** | **031** | **040** |



**CM364RCX**

| REF | ■ CM364RCX | 010 | 015 | 023 |
|---|---|---|---|---|
| | ...**103**. | **010** | **015** | **023** |



**CM356RS**

| REF | CM356RS | 2° | 4° | 6° |
|---|---|---|---|---|
| ISO | 500.**103**.200.135.... | **023** | **031** | **040** |

**Coarse cutters CM364RMX and CM356RMX for gold alloys**
D+Z recommends the cutters CM364RMX and CM356RMX with medium staggered toothing for the pre-milling of soft alloys or gold alloys. The cutters are also used in a contra-rotational direction at an optimal speed of 10,000 rpm and have to be lubricated with oil.

**Fine cutters CM364RF and CM356RF**
D+Z recommends the cutters CM364RF and CM356RF for fine trimming or initial polishing. The toothing of these cutters is provided with a special chamfer and is ideally suited for work on gold alloys. The cutters are used in contra-rotational direction at a speed of 3,000 rpm and have to lubricated with oil and wax, if required.

**Polishers for milling technique P9440C/M/F**
The polishers P9440C, P9440M and P9440F are designed for polishing telescopic crowns. Prior to polishing, the surfaces of crowns have to be finely milled to ensure that they are smooth and scratch-free. Polishing is carried out in three steps (C = coarse (dark brown), M = medium (reddish brown), F = fine (green)) from initial polishing to high-shine polishing. The polishers are used dry at a maximum speed of 6,000 rpm.

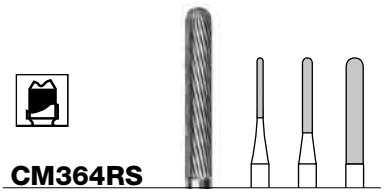
***Grobfräser CM364RMX und CM356RMX für Goldlegierungen***
*Für das Vorfräsen von weicheren bzw. Goldlegierungen empfiehlt D+Z die Fräser CM364RMX und CM356RMX mit einer mittleren Kreuzverzahnung. Auch hier arbeiten Sie mit Gegenlauffräsen und Öl, jedoch mit einer Drehzahl von opt. 10.000 min$^{-1}$ optimal.*

***Feinfräser CM364RF und CM356RF***
*Für das Feinfräsen, das hier eine Art Vorpolitur darstellt, empfiehlt D+Z weiterhin die Fräser CM364RF bzw. CM356RF. Die Verzahnung dieser Fräser ist mit einer ideal für Goldlegierungen geeigneten Fase ausgestattet. Der Einsatz erfolgt im Gegenlauffräsen mit Öl und ggf. Wachs bei 3.000 min$^{-1}$.*

***Frästechnikpolierer P9440C/M/F***
*Die Frästechnikpolierer P9440C, P9440M und P9440F erleichtern die formkongruente Politur Ihrer Teleskopkronen. Die Oberflächen sollten durch das vorhergehende Feinfräsen bereits optimal vorbereitet sein, d.h. glänzen und frei von Riefen sein. Die Politur erfolgt in 3 Schritten (C = dunkelbraun, M = rotbraun, F = fein) von der Vorpolitur bis zum Hochglanz. Der Einsatz der Polierer erfolgt trocken und bei max. 6.000 min$^{-1}$.*

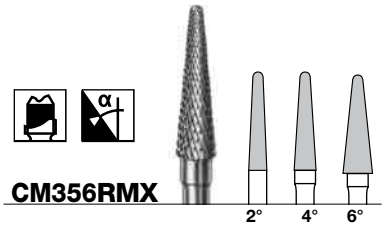
**P 9440 C**
**P 9440 M**
**P 9440 F**

| L mm | 13,0 | 13,0 | 13,0 |
|---|---|---|---|
| REF **P 9440 C** | | | |
| …**103**… | **060** | | |
| **P 9440 M** | | | |
| …**103**… | | **060** | |
| **P 9440 F** | | | |
| …**103**… | | | **060** |



**CM364RS**

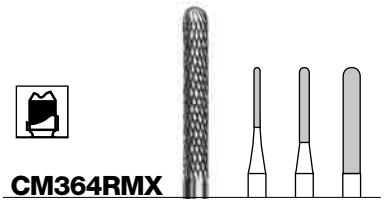
| REF | **CM364RS** | | | |
|---|---|---|---|---|
| ISO | 500.**103**.137.135.... | **010** | **015** | **023** |



**CM356RMX**

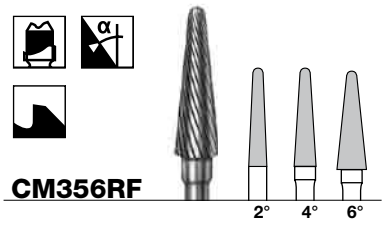
2° 4° 6°

| REF | **CM356RMX** | | | |
|---|---|---|---|---|
| ISO | 500.**103**.200.190.... | **023** | **031** | **040** |



**CM364RMX**

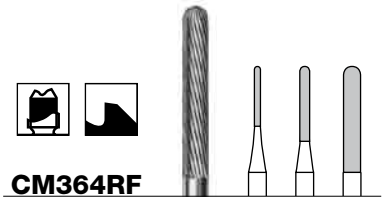
| REF | **CM364RMX** | | | |
|---|---|---|---|---|
| ISO | 500.**103**.137.190.... | **010** | **015** | **023** |



**CM356RF**

2° 4° 6°

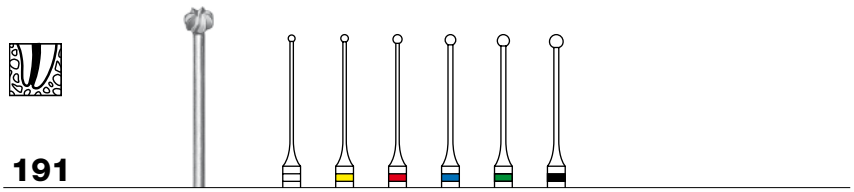
| REF | **CM356RF** | | | |
|---|---|---|---|---|
| ISO | 500.**103**.200.103.... | **023** | **031** | **040** |



**CM364RF**

| REF | **CM364RF** | | | |
|---|---|---|---|---|
| ISO | 500.**103**.137.103.... | **010** | **015** | **023** |

# Endodontia
## *Endodontie*



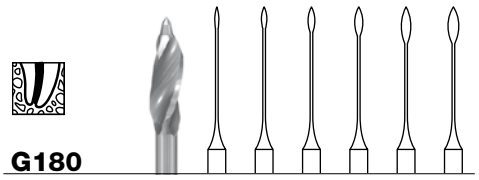
**191**

| REF | 191 | | | | | | |
|---|---|---|---|---|---|---|---|
| ISO | 500.**104**.XXX.XXX… | | **100** | | | **160** | |
| | 500.**204**.XXX.XXX… | **090** | **100** | **120** | **140** | **160** | **180** |

Pulp bur „Müller“, stainless steel
*Pulpabohrer „Müller“, rostfreier Stahl*

**191.204.S1** **Pulp bur „Müller“ Kit**
***Pulpabohrersatz***

**NEW**



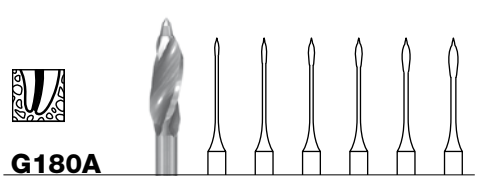
**G180**

| REF | G180 | □ | ■ | ■ | ■ | ■ | ■ |
|---|---|---|---|---|---|---|---|
| ISO | 330.**204**.679.336...**050** | **070** | **090** | **110** | **130** | **150** |

max. 20 000 min⁻¹

Reamer Gates Glidden "G“, stainless steel
*Erweiterer „Gates Glidden“ Typ „G“, rostfreier Stahl*

**NEW**



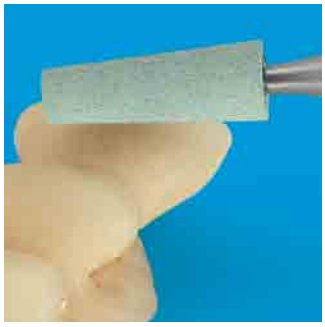
**G180A**

| REF | G180A | □ | ■ | ■ | ■ | ■ | ■ |
|---|---|---|---|---|---|---|---|
| | ....**204**.... | **050** | **070** | **090** | **110** | **130** | **150** |

max. 20 000 min⁻¹

Reamer Gates Glidden "G“, short, stainless steel
*Erweiterer „Gates Glidden“ Typ „G“, kurz, rostfreier Stahl*

# Diamond-Grinder
## *Diamant-Schleifer*

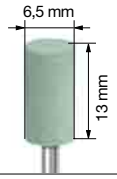


***Effektive Schleifer zum universellen Beschleifen***

**Effective abrasive for universal grinding**

These new, sintered abrasives are diamond interspersed and provided with a special ceramic bond, which makes them suitable for universal use on veneering and press ceramics.
Even extremely resistant oxide ceramics, such as zirconium oxide and aluminium oxide, or hard metal alloys can be treated with ease.

*Die neuen, gesinterten Schleifer sind mit Diamantkorn durchsetzt und besitzen eine keramische Spezialbindung. Damit sind sie für den universellen Einsatz auf Verblend- und Presskeramiken ausgelegt. Auch extrem harte Oxidkeramiken, wie Zirkonoxid oder Aluminiumoxid, oder auch harte Metall-Legierungen lassen sich mit den Schleifern leicht bearbeiten.*




**751 M**

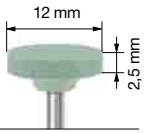
| REF | 751 M | |
|---|---|---|
| ISO | …104… | 065 |

opt. 5 000 – max. 10 000 min$^{-1}$


**753 M**

| REF | 753 M | |
|---|---|---|
| ISO | …104… | 040 |

opt. 5 000 – max. 10 000 min$^{-1}$




**755 M**

| REF | 755 M | |
|---|---|---|
| ISO | …104… | 120 |

opt. 5 000 – max. 10 000 min$^{-1}$

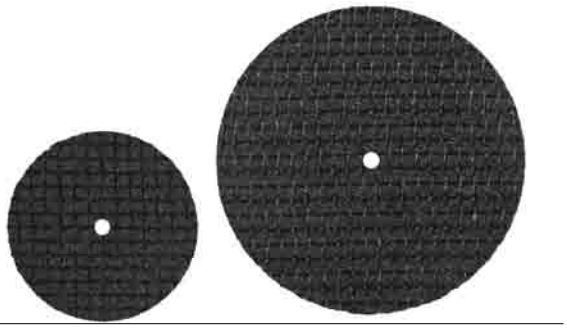
# Separating Discs
## *Trennscheiben*

**9506**

L mm 0,2

| REF | 9506 | |
|---|---|---|
| ISO | 618.**900**.372.513… | **220** |

max. 15 000 min$^{-1}$



**9507**

| REF | 9507 | | |
|---|---|---|---|
| ISO | 613.**900**.371.534… | **250** | **400** |
| **Fibre-reinforced** *gewebeverstärkt* | max. 15 000 min$^{-1}$ | max. 25 000 min$^{-1}$ | |

# Composite Polishing System
## *Composite Politur System*

NEW

CS40

CS20

**P 310**.204

**Single-use polishers for composite restorations**

The polishing discs and polishing strips facilitate optimal polishing of composite in three steps.

The transparent discs are provided with an aluminium oxide coating on both sides. The discs are mounted onto the Pop-on mandrel to assure precise and secure locking.
The double-sided coating of the discs allows pushing and pulling movements without time-consuming change-over. The mandrel is completely covered by the discs, which minimizes the risk of damaging the restoration.

The strips are based on a clever 3 in 1 principle. All three grit sizes (from fine to coarse) are arranged in succession on each strip. Uncoated surfaces for insertion and handy grips at the ends facilitate the use of these polishing strips.

***Einmalpolierer für Composite Restaurationen***

*Die Polierscheiben und Polierstreifen ermöglichen eine optimale Composite Politur in drei Stufen.*

*Die Polierscheiben bestehen aus einem transparenten Träger, der beidseitig mit Aluminiumoxid beschichtet ist.*
*Sie werden einfach und sicher auf dem Pop-On-Madrell arretiert und können ohne zeitaufwendiges Umstecken sowohl ziehend als auch schiebend eingesetzt werden. Der Clip bedeckt das Mandrell stirnseitig und minimiert so das Risiko die Restauration zu beschädigen.*

*Den Polierstreifen liegt ein praktisches 3-in-1 System zu Grunde. Auf einem Polierstreifen sind alle 3 Körnungen aufgebracht, von grob bis fein. Die unbelegten Einfädelflächen sowie Griffflächen am Rand ermöglichen ein einfaches Handling der Polierstreifen.*

### CC1M

| REF | CC1M | | |
|---|---|---|---|
| | ....900.... | 090 | 130 |

### CC1F

| REF | CC1F | | |
|---|---|---|---|
| | ....900.... | 090 | 130 |

### CC1UF



| REF | CC1UF | | |
|---|---|---|---|
| | ....900.... | 090 | 130 |

### P 310

| REF | P 310 |
|---|---|
| ISO | 330.**204**.608.000 |

max. 30 000 min$^{-1}$

**Pop-on mandrel**
*Pop-on Träger*

# Composite Polishers
## *Compositepolierer*

**High-efficiency polishers interspersed with diamond grit**

- for pre-polishing, fine polishing and high-shine polishing of composites (Micro, Hybrid, Macro), acrylic veneers and innovative materials filled with glass-ceramic.
- Pre-polishers (light-purple)
- Fine-polishers (mint)
- High-shine polishers (grey)

*Hochleistungspolierer mit Diamantkorn durchsetzt*

- *zum Vor-, Fein- und Hochglanzpolieren von Composite (Micro, Hybrid, Macro), Verblendkunststoffen und neuartigen, mit Glaskeramik gefüllten Verblendwerkstoffen*
- *Vorpolierer (hell-lila)*
- *Feinpolierer (türkis)*
- *Hochglanzpolierer (grau)*

### P 9666 C
### P 9662 M
### P 9663 VF

| L mm | | 7,0 | 7,0 | 7,0 |
|---|---|---|---|---|
| REF | | | | |
| ISO | P 9666 C | | | |
| | …204… | 030 | | |
| | P 9662 M | | | |
| | …204… | | 030 | |
| | P 9663 VF | | | |
| | …204… | | | 030 |

opt. 5 000 – max. 10 000 min$^{-1}$

### P 9667 C
### P 9664 M
### P 9665 VF

| L mm | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| REF | P 9667 C | | | |
| ISO | …204… | 055 | | |
| | P 9664 M | | | |
| | …204… | | 055 | |
| | P 9665 VF | | | |
| | …204… | | | 055 |

opt. 6 000 – max. 10 000 min$^{-1}$

### P 9436 C
### P 9436 M
### P 9436 VF

| L mm | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|
| REF | P 9436 C | | | |
| ISO | …204… | 040 | | |
| | P 9436 M | | | |
| | …204… | | 040 | |
| | P 9436 VF | | | |
| | …204… | | | 040 |

opt. 6 000 – max. 10 000 min$^{-1}$

### P 9406 C
### P 9407 M
### P 9408 VF

| L mm | | 2,5 | 2,5 | 2,5 |
|---|---|---|---|---|
| REF | P 9406 C | | | |
| ISO | …204… | 100 | | |
| | P 9407 M | | | |
| | …204… | | 100 | |
| | P 9408 VF | | | |
| | …204… | | | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$


**100440** **Composite Polishing Kit**

**GB One-step composite polishers interspersed with diamond grit**

*D One-step Composite-Polierer mit Diamantkorn durchsetzt*

## P 9478 C

L mm 10,0

| REF | P 9478 C | |
|---|---|---|
| ISO | 658.**204**… | **070** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9479 C

L mm 10,0

| REF | P 9479 C | |
|---|---|---|
| ISO | 658.**204**… | **050** |

opt. 6 000 – max. 15 000 min$^{-1}$

**GB Polishers for Composite (ecoline)**

*D Composite-Polierer (ecoline)*

## P 9490 Y

L mm 6,5

| REF | P 9490 Y | |
|---|---|---|
| ISO | 658.**204**… | **030** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9491 Y

L mm 10,0

| REF | P 9491 Y | |
|---|---|---|
| ISO | 658.**204**… | **050** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9492 Y

L mm 15,0

| REF | P 9492 Y | |
|---|---|---|
| ISO | 658.**204**… | **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9493 Y

L mm 9,0

| REF | P 9493 Y | |
|---|---|---|
| ISO | 658.**204**… | **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9494 Y

L mm 8,0

| REF | P 9494 Y | |
|---|---|---|
| ISO | 658.**204**… | **100** |

opt. 6 000 – max. 10 000 min$^{-1}$

# Ceramic Polishers
## *Keramikpolierer*

**GB High-efficiency polishers interspersed with diamond grit**

- for pre-polishing, fine polishing and high-shine polishing of ceramics and metal alloys (without polishing paste)
- Pre-polishers (blue)
- High-shine polishers (grey)
- Fine-polishers (red)

*D Hochleistungspolierer mit Diamantkorn durchsetzt*

- *zum Vor-, Fein- und Hochglanzpolieren von Keramik und Metall (ohne Polierpaste)*
- *Vorpolierer (blau)*
- *Hochglanzpolierer (grau)*
- *Feinpolierer (rot)*

**P 9418 C**
**P 9419 M**
**P 9547 F**

| L mm | | 7,0 | 7,0 | 7,0 |
|---|---|---|---|---|
| REF | P 9418 C | | | |
| ISO | …204… | 030 | | |
| | P 9419 M | | | |
| | …204… | | 030 | |
| | P 9547 F | | | |
| | …204… | | | 030 |

opt. 6 000 – max. 10 000 min$^{-1}$

**P 9420 C**
**P 9421 M**
**P 9652 F**

| L mm | | 8,0 | 8,0 | 8,0 |
|---|---|---|---|---|
| REF | P 9420 C | | | |
| ISO | …204… | 055 | | |
| | P 9421 M | | | |
| | …204… | | 055 | |
| | P 9652 F | | | |
| | …204… | | | 055 |

opt. 6 000 – max. 10 000 min$^{-1}$

**P 9816 C**
**P 9816 M**
**P 9816 F**

| L mm | | 10,0 | 10,0 | 10,0 |
|---|---|---|---|---|
| REF | P 9816 C | | | |
| ISO | …204… | 040 | | |
| | P 9816 M | | | |
| | …204… | | 040 | |
| | P 9816 F | | | |
| | …204… | | | 040 |

opt. 6 000 – max. 10 000 min$^{-1}$

**P 9422 C**
**P 9423 M**
**P 9683 F**

| L mm | | 2,5 | 2,5 | 2,5 |
|---|---|---|---|---|
| REF | P 9422 C | | | |
| ISO | …204… | 100 | | |
| | P 9423 M | | | |
| | …204… | | 100 | |
| | P 9683 F | | | |
| | …204… | | | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$


**100441** Ceramic Polishing Kit

## P 9545 F

| L mm | 2,0 |
|---|---|

| REF | P 9545 F |
|---|---|
| ISO | …104… | 110 |
| | …204… | 110 |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9660 C
## P 9660 M
## P 9660 F

| L mm | 13,0 | 13,0 | 13,0 |
|---|---|---|---|

| REF | P 9660 C | | |
|---|---|---|---|
| ISO | …104… | 055 | |
| | P 9660 M | | |
| | …104… | | 055 |
| | P 9660 F | | |
| | …104… | | | 055 |

opt. 6 000 – max. 10 000 min$^{-1}$

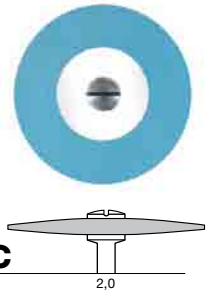
## P 9544 C
## P 9544 M
## P 9544 F

| L mm | 2,5 | 2,5 | 2,5 |
|---|---|---|---|

| REF | P 9544 C | | |
|---|---|---|---|
| ISO | …104… | 170 | |
| | P 9544 M | | |
| | …104… | | 170 |
| | P 9544 F | | |
| | …104… | | | 170 |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9690 C



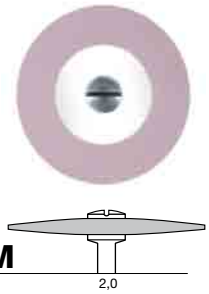
| L mm | 2,0 |
|---|---|

| REF | P 9690 C |
|---|---|
| ISO | …104… | 260 |

**Lenticular** · *Linse*

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9691 M



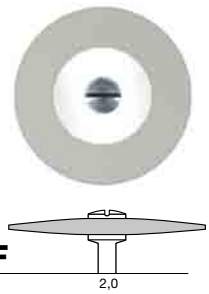
| L mm | 2,0 |
|---|---|

| REF | P 9691 M |
|---|---|
| ISO | …104… | 260 |

**Lenticular** · *Linse*

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9692 F



| L mm | 2,0 |
|---|---|

| REF | P 9692 F |
|---|---|
| ISO | …104… | 260 |

**Lenticular** · *Linse*

opt. 6 000 – max. 10 000 min$^{-1}$

**(GB) Polishers for ceramics (ecoline)**

- for pre-polishing (light-grey), fine polishing (pink) of ceramic materials

**(D)** *Keramikpolierer (ecoline)*

- *zum Vorpolieren (hellgrau), Nachpolieren (rosa) von Keramik*

## P 9537 M
## P 9541 F

L mm 3,5 3,5

| REF | | | |
|---|---|---|---|
| | **P 9537 M** | | |
| ISO | 658.**900**.303.525… | **220** | |
| | **P 9541 F** | | |
| | 658.**900**.303.515… | | **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9538 M
## P 9542 F

L mm 20,0 20,0

| REF | | | |
|---|---|---|---|
| | **P 9538 M** | | |
| ISO | 618.**900**.114.525… | **070** | |
| | **P 9542 F** | | |
| | 618.**900**.114.515… | | **070** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9598 M
## P 9600 F

L mm 3,0 3,0

| REF | | | |
|---|---|---|---|
| | **P 9598 M** | | |
| ISO | 658.**900**.372.525… | **220** | |
| | **P 9600 F** | | |
| | 658.**900**.372.515… | | **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9679 M
## P 9680 F

L mm 4,0 4,0

| REF | | | |
|---|---|---|---|
| | **P 9679M** | | |
| ISO | … .**204.** … | **050** | |
| | **P 9680 F** | | |
| | … .**204.** … | | **050** |

opt. 6 000 – max. 10 000 min$^{-1}$

# Prophylaxe Polishers
## *Prophylaxepolierer*

(GB) **Laminated white polishers**
- for plaque removal

(D) *Weiße Polierer mit Lamellen*
- *zum Entfernen von Zahnbelag*

**P 9553 M**

L mm 10,0

| | |
|---|---|
| REF | **P 9553 M** |
| ISO | 658.**204**.034.523… **060** |

opt. 6 000 – max. 15 000 min$^{-1}$

**P 9631 VF**

L mm 10,0

| | |
|---|---|
| REF | **P 9631 VF** |
| ISO | …**204**… **060** |

opt. 1 500 – max. 10 000 min$^{-1}$

**P 9645**

| | |
|---|---|
| REF | **P 9645** |
| ISO | …**204**… **060** |

opt. 1 500 – max. 10 000 min$^{-1}$

**Nylon bristles**
*Nylonbürsten*

# Bracket Polishers
## *Kleberesteentferner*

**P 9669**

L mm 6,5

| | |
|---|---|
| REF | **P 9669** |
| ISO | 658.**204**… **030** |

opt. 6 000 – max. 15 000 min$^{-1}$

**P 9670**

L mm 10,0

| | |
|---|---|
| REF | **P 9670** |
| ISO | 658.**204**… **050** |

opt. 6 000 – max. 15 000 min$^{-1}$

(GB) **Polishers for conservative removal of adhesive residues after removal of the orthondic brackets**

(D) *Polierer zum schonenden Entfernen von Klebstoffresten nach Entfernung der Brackets*

# Amalgam Polishers
## *Amalgampolierer*

**P 9632 C**

L mm 9,0

| | |
|---|---|
| REF | **P 9632 C** |
| ISO | 658.**204**.030.533… **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

**P 9643 C**

L mm 6,5

| | |
|---|---|
| REF | **P 9643 C** |
| ISO | 658.**204**.243.533… **030** |

opt. 6 000 – max. 10 000 min$^{-1}$

**P 9633 C**

L mm 10,0

| | |
|---|---|
| REF | **P 9633 C** |
| ISO | 658.**204**.243.533… **050** |

opt. 6 000 – max. 10 000 min$^{-1}$

(GB) **Black amalgam polishers**
- for pre-polishing amalgam

(D) *Schwarze Amalgam-Polierer*
- *zum Vorpolieren von Amalgam*

# Metal Polishers
## *Metallpolierer*

**High-efficiency polishers**
- for pre-polishing (brown) and fine polishing (green) of metal alloys

*Hochleistungspolierer*
- *zum Vorpolieren (braun) und Feinpolieren (grün) von Metall-Legierungen*

### P 9610 M
### P 9620 F

| L mm | | 16,0 | 16,0 |
|---|---|---|---|
| REF | **P 9610 M** | | |
| ISO | 658.**104**.292.513… | **045** | |
| | 658.**204**.292.513… | **045** | |
| | **P 9620 F** | | |
| | 658.**104**.292.503… | | **045** |
| | 658.**204**.292.503… | | **045** |

opt. 6 000 – max. 10 000 min$^{-1}$

### P 9606 M
### P 9616 F

| L mm | | 9,0 | 9,0 |
|---|---|---|---|
| REF | **P 9606 M** | | |
| ISO | 658.**204**.030.513… | **060** | |
| | **P 9616 F** | | |
| | 658.**204**.030.503… | | **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

### P 9611 M
### P 9621 F

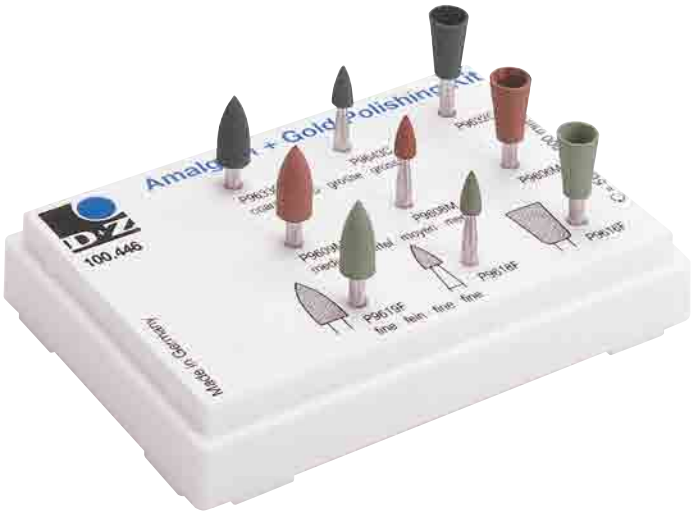
| L mm | | 2,5 | 2,5 | 2,5 | 2,5 |
|---|---|---|---|---|---|
| REF | **P 9611 M** | | | | |
| ISO | 658.**104**.303.513… | | **150** | | |
| | 658.**204**.303.513… | **100** | | | |
| | **P 9621 F** | | | | |
| | 658.**104**.303.503… | | | | **150** |
| | 658.**204**.303.503… | | | **100** | |

opt. 6 000 – max. 10 000 min$^{-1}$

### P 9609 M
### P 9619 F

| L mm | | 10,0 | 10,0 |
|---|---|---|---|
| REF | **P 9609 M** | | |
| ISO | 658.**204**.243.513… | **050** | |
| | **P 9619 F** | | |
| | 658.**204**.243.503… | | **050** |

opt. 6 000 – max. 10 000 min$^{-1}$




**100446** **Amalgam + Gold Polishing Kit**

### P 9608 M
### P 9618 F

| L mm | | 6,5 | 6,5 |
|---|---|---|---|
| REF | **P 9608 M** | | |
| ISO | 658.**104**.243.513… | **030** | |
| | 658.**204**.243.513… | **030** | |
| | 658.**314**.243.513… | **030** | |
| | **P 9618 F** | | |
| | 658.**104**.243.503… | | **030** |
| | 658.**204**.243.503… | | **030** |
| | 658.**314**.243.503… | | **030** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9614 M
## P 9624 F


L mm 1,0 1,0

| REF | P 9614 M | | |
|---|---|---|---|
| ISO | 658.**104**.371.513… | **190** | |
| | **P 9624 F** | | |
| | 658.**104**.371.503… | | **190** |

opt. 6 000 – max. 10 000 min$^{-1}$

mounted · *montiert*

## P 9614 M
## P 9624 F


L mm 1,0 1,0

| REF | P 9614 M | | |
|---|---|---|---|
| ISO | 658.**900**.371.513… | **220** | |
| | **P 9624 F** | | |
| | 658.**900**.371.503… | | **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

unmounted · *unmontiert*

## P 9615 M
## P 9625 F


L mm 22,0 22,0

| REF | P 9615 M | | |
|---|---|---|---|
| ISO | 658.**900**.114.513… | **060** | |
| | **P 9625 F** | | |
| | 658.**900**.114.503… | | **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

**Occlusal polishers**
- for metal alloys

*Kauflächenpolierer*
- *für Metall-Legierungen*

## P 9634 M

L mm 22,0

| REF | P 9634 M | |
|---|---|---|
| ISO | 618.**000**.114.534… | **030** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9661 C

L mm 22,0

| REF | P 9661 C | |
|---|---|---|
| ISO | 658.**000**.114.534… | **030** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9635 F

L mm 22,0

| REF | P 9635 F | |
|---|---|---|
| ISO | 618.**000**.114.513… | **030** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9636 VF

L mm 22,0

| REF | P 9636 VF | |
|---|---|---|
| ISO | 618.**000**114.503… | **030** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9646 M

L mm 20,0

| REF | P 9646 M | |
|---|---|---|
| ISO | 658.**000**.114.535… | **020** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9647 C

L mm 20,0

| REF | P 9647 C | |
|---|---|---|
| ISO | 658.**000**.114.534… | **020** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9648 F

L mm 20,0

| REF | P 9648 F | |
|---|---|---|
| ISO | 658.**000**.114.513… | **020** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9649 VF

L mm 20,0

| REF | P 9649 VF | |
|---|---|---|
| ISO | 618.**000**.114.503… | **020** |

opt. 6 000 – max. 15 000 min$^{-1}$

## P 9551 C

L mm 21,0

| REF | P 9551 C |
|---|---|
| ISO | 618.**900**.114.534… **070** |

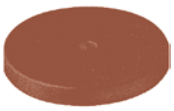
opt. 6 000 – max. 10 000 min$^{-1}$

## P 9550 C

L mm 3,0

| REF | P 9550 C |
|---|---|
| ISO | 618.**900**.372.534… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$



## P 9675 M

L mm 3,0

| REF | P 9675 M |
|---|---|
| ISO | 618.**900**.372.513… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9675 F

L mm 3,0

| REF | P 9675 F |
|---|---|
| ISO | 618.**900**.372.503… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

**GB Model cast polishers**

- for pre-polishing, polishing and high-shine polishing of model cast and non-precious metal alloys

*D Modellgusspolierer*

- *zum Vorpolieren, Glanz- und Hochglanzpolieren von Modellguss- und NEM-Legierungen*

## P 9575 M

L mm 3,5

| REF | P 9575 M |
|---|---|
| ISO | 658.**900**.303.522… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9572 M

L mm 3,0

| REF | P 9572 M |
|---|---|
| ISO | 658.**900**.372.522… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9678 M

L mm 20,0

| REF | P 9678 M |
|---|---|
| ISO | 658.**900**.114.522… **070** |

opt. 6 000 – max. 10 000 min$^{-1}$

**GB Blue polishers**

- for low-lustre polish of precious metal alloys

*D Blaue Polierer*

- *zur Mattglanzpolitur von Edelmetall-Legierungen*

# Universal Polishers
# *Universalpolierer*

**GB White polishers**

- for universal polishing of enamel, precious metal alloys and acrylics for veeners
- and for polishing filling materials and acrylics for prostheses

*D Weiße Polierer*

- *zum universellen Polieren von Zahnschmelz, Edelmetall-Legierungen und Verblend-kunststoffen*
- *auch zum Polieren von Füllungsmaterialien und Prothesenkunststoffen*

## P 9627 C

L mm 4,0

| REF | P 9627 C |
|---|---|
| ISO | 658.**900**.303.523… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9630 C

L mm 20,0

| REF | P 9630 C |
|---|---|
| ISO | 658.**900**.114.523… **070** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9554 C

L mm 3,0

| REF | P 9554 C |
|---|---|
| ISO | 658.**900**.372.523… **220** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9555 M

L mm 8,0

| REF | P 9555 M |
|---|---|
| ISO | 658.**204**.030.523… **100** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9556 M

L mm 2,5

| REF | P 9556 M |
|---|---|
| ISO | 658.**204**… **110** |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9557 M

L mm 15,0

| REF | P 9557 M |
|---|---|
| ISO | 658.**104**.243.523… **060** |
| | 658.**204**.243.523… **060** |

opt. 6 000 – max. 10 000 min$^{-1}$

# Denture Acrylics Polishers
# *Kunststoffpolierer*

GB **Denture acrylics polishers**
- for polishing acrylics

D *Kunststoffpolierer*
- *zum Polieren von Kunststoffen*

## P 9603 C

L mm 25,0

| | | |
|---|---|---|
| REF | P 9603 C | |
| ISO | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

**for shaping**
*zum Ausarbeiten*

## P 9641 M

L mm 25,0

| | | |
|---|---|---|
| REF | P 9641 M | |
| ISO | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

**for smoothing and pre-polishing**
*zum Glätten und Vorpolieren*

## P 9644 F

L mm 25,0

| | | |
|---|---|---|
| REF | P 9644 F | |
| ISO | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

**for high-shine polishing**
*zum Hochglanzpolieren*

## P 9604 C

L mm 20,0

| | | |
|---|---|---|
| REF | P 9604 C | |
| ISO | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9642 M

L mm 20,0

| | | |
|---|---|---|
| REF | P 9642 M | |
| ISO | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9674 F

L mm 20,0

| | | |
|---|---|---|
| REF | P 9674 F | |
| ISO | …104… | 100 |

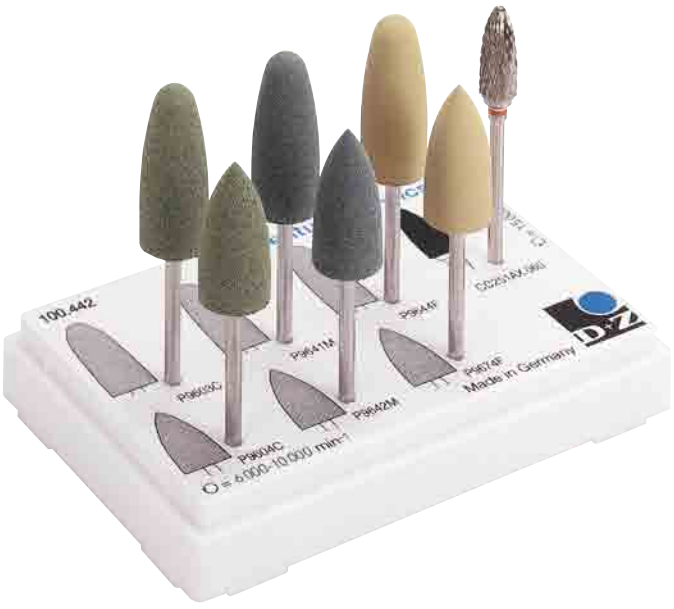
opt. 6 000 – max. 10 000 min$^{-1}$

## CC 251 AX

L mm 14,0

| | | |
|---|---|---|
| REF | CC 251 AX | |
| ISO | 500.104.274.XXX… | 060 |

max. 50 000 min$^{-1}$




## 100442

**Denture Acrylics Kit**

## P 9467 C
## P 9467 M

L mm 19,0 19,0

| | | |
|---|---|---|
| REF | P 9467 C | |
| ISO | …104… | 100 |
| | P 9467 M | |
| | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

## P 9489 C
## P 9489 M

L mm 25,0 25,0

| | | |
|---|---|---|
| REF | P 9489 C | |
| ISO | …104… | 100 |
| | P 9489 M | |
| | …104… | 100 |

opt. 6 000 – max. 10 000 min$^{-1}$

# Brushes
## *Bürsten*

### P 9628

| REF | P 9628 |
|---|---|
| ISO | … .900. … 220 |

opt. 6 000 – max. 10 000 min$^{-1}$

**Cotton mops**
*Baumwoll-Schwabbel*

### P 9638

| REF | P 9638 |
|---|---|
| ISO | … .900. … 220 |

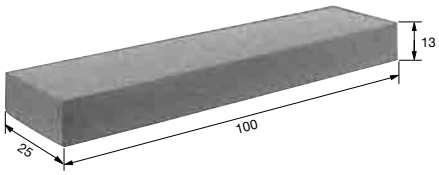
opt. 6 000 – max. 10 000 min$^{-1}$

**Brushes · natural bristles**
*Bürsten · Naturborsten*

### DP 93007

| REF | DP93007 |
|---|---|

Diamond polishing paste 7 µm | *Diamant Polierpaste*




### S 1000

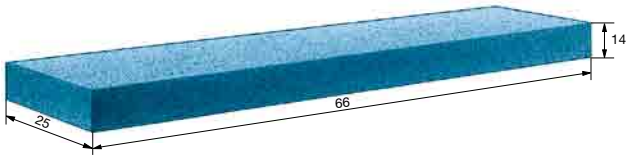
| REF | S 1000 |
|---|---|

Cleaning stone for diamonds | *Reinigungsstein für Diamanten*

### B 9785

| REF | B 9785 |
|---|---|

**Cleaning brush**
*Reinigungsbürste*




### AS 20

| REF | AS 20 |
|---|---|

Cleaning stone for diamonds | *Reinigungsstein für Diamanten*

### B 9786

| REF | B 9786 |
|---|---|

**Replacement brush**
*Ersatzbürste*

# Mandrels
## *Träger*

### P 303 A

| US No. | | 303 |
|---|---|---|
| REF | **P 303 A** | |
| ISO | 330.**104**.603.391… | **050** |

### P 305 A

| US No. | | 300 |
|---|---|---|
| REF | **P 305 A** | |
| ISO | 330.**104**.604.391… | **050** |

**self centering** · *selbst zentrierend*

### P 305

| REF | **P 305** | | |
|---|---|---|---|
| ISO | …**104**… | **050** | **080** |

### P 310

| REF | **P 310** |
|---|---|
| ISO | 330.**204**.608.000 |

max. 30 000 min$^{-1}$

**Pop-on mandrel**
*Pop-on Träger*

### P 326

| REF | **P 326** | | |
|---|---|---|---|
| ISO | ….**104**… | **020** | **030** |

**P 305 A**

**P 305**

### P 329

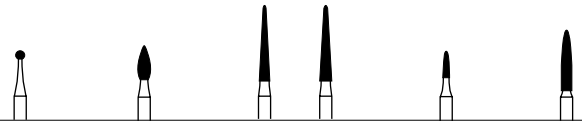
| REF | **P 329** |
|---|---|
| ISO | 330.**104**.610.417… |

### P 301 L

| REF | **P 301 L** |
|---|---|
| ISO | 330.**104**.610.415… |

## Set for the preparation of composite fillings

*Satz zur Bearbeitung von Composite-Füllungen*



**100402**

**Contents** · *Inhalt*

| REF | | 801C | 368C | 859C | 859C | 860C | 862C |
|---|---|---|---|---|---|---|---|
| ISO | 806.**314** | 001.504<br>012 | 257.504<br>016 | 166.504<br>014 | 166.504<br>016 | 245.504<br>009 | 249.504<br>014 |
| | | 1 | 1 | 1 | 1 | 1 | 1 |

## DTF set of instruments with extra-fine diamond grit

*DTF-Satz in Diamant-Körnung extrafein*


**100404**

**Contents** · *Inhalt*

| REF | | 801C | 956C | 852C | 860C | 862C | 368AC | 368C | 379C | 827C | 392C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**314** | 001.504<br>012 | 159.504<br>010 | 164.504<br>010 | 245.504<br>010 | 249.504<br>012 | 254.504<br>016 | 257.504<br>016 | 277.504<br>016 | 464.504<br>018 | 465.504<br>014 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

## Disposable Crown Cutter

*Kronentrenner für Einmalgebrauch*


**100461**

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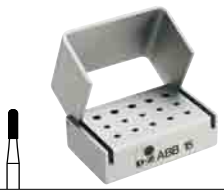
| REF | | CB31RS |
|---|---|---|
| ISO | 500.**314** | 137.292<br>012 |
| | | 100 |

## Set CB 40 AG

*Satz CB 40 AG*



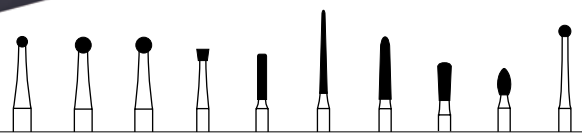
**100494**

**Contents** · *Inhalt*

| REF | | CB 40 AG | ABB 15 |
|---|---|---|---|
| ISO | 500.**314.** | 139.008<br>012 | |
| | | 10 | 1 |

## Therapy Set

*Therapie Satz*



**100423**

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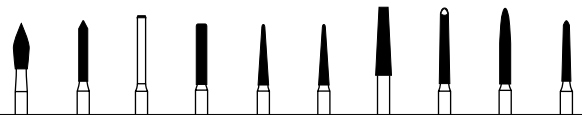
| REF | | CB1S | CB1S | 801 | 805 | 836KR | 859 | 868 | 830L | 368A | 801LG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**204/314** | 001.003<br>014 | 001.003<br>021 | 001.524<br>012 | 010.524<br>016 | 157.524<br>012 | 167.524<br>010 | 223.524<br>016 | 234.524<br>018 | 254.524<br>018 | 697.534<br>016 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

## Crown Preparation Set

*Kronenpräparations-Satz*



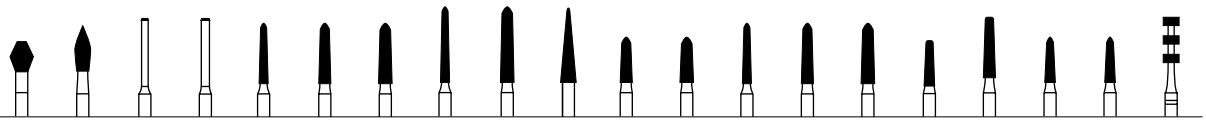
**100424**

**Contents** · *Inhalt*

| REF | | 899F | 885 | 839 | 837KR | 858 | 859F | 848 | 857 | 863 | 878 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**314** | 033.514<br>021 | 130.524<br>012 | 150.524<br>012 | 158.524<br>014 | 165.524<br>014 | 166.514<br>014 | 173.524<br>021 | 220.524<br>014 | 250.524<br>016 | 289.524<br>012 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

## Crown & Veneer Preparation Kit

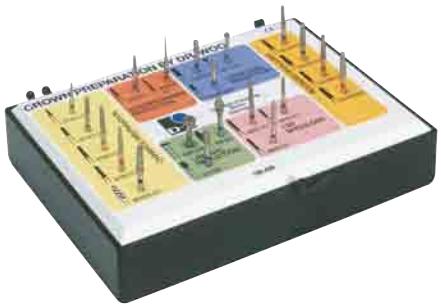
*Crown & Veneer Präparation Kit*



**100425**

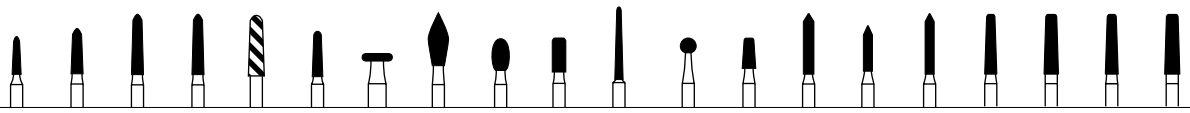
**Contents** · *Inhalt*

| REF | | 811 | 899 | 839A | 839A | 878K | 878K | 878K | 879K | 879K | 859 | 877K | 877K | 878K | 878K | 878K | 846KR | 847KR | 878K | 877K | 834 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**314/313** | 038.524 | 033.524 | – | – | 298.524 | 298.524 | 298.524 | 299.524 | 299.524 | – | 297.524 | 297.524 | 298.524 | 298.524 | 298.524 | 545.524 | 546.524 | 298.524 | 297.524 | 552.524 |
| | | 031 | 021 | 010 | 012 | 012 | 016 | 018 | 016 | 018 | 021 | 016 | 018 | 012 | 016 | 018 | 014 | 016 | 014 | 014 | 021 |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |



## Crown Preparation Kit by Dr. Woo

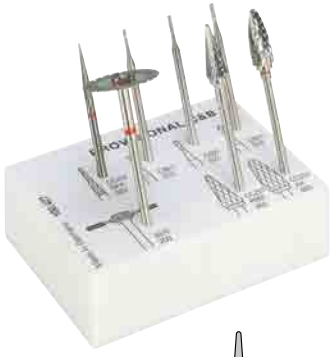
*Kronenpräparationssatz nach Dr. Woo*



**100426**

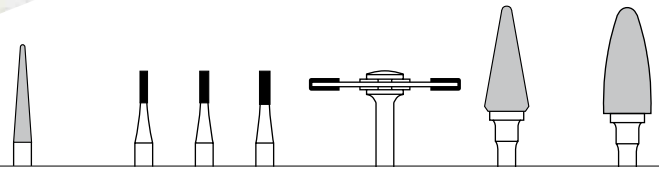
**Contents** · *Inhalt*

| REF | | 876KG | 877KG | 878KG | 878KF | I856SG | 855 | 909G | 899 | 379 | 835KR | 850SMF | 801G | 845KR | 885G | 884G | 885F | 951KR | 951KR | 951KRF | 951KRF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**314** | 296.534 | 297.534 | 298.534 | 298.514 | – | 197.524 | 068.534 | 033.524 | 277.524 | 156.524 | 199.XXX | 001.534 | 544.524 | 130.534 | 129.534 | 130.514 | – | – | – | – |
| | | 012 | 016 | 016 | 016 | 021 | 014 | 040 | 027 | 023 | 018 | 011 | 021 | 018 | 014 | 012 | 012 | 016 | 019 | 017 | 020 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |



## Provisional C & B Kit

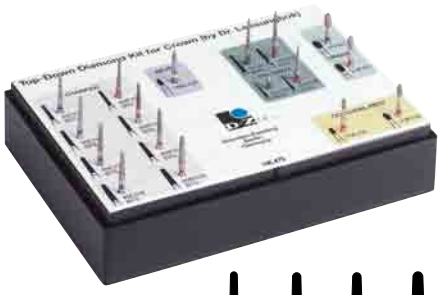
*Provisional C & B Satz*



**100427**

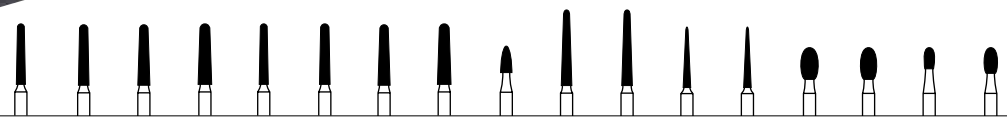
**Contents** · *Inhalt*

| REF | | CC257RFX | CB21 | CB21 | CB21 | 937F | CC257RMX | CC 251AX |
|---|---|---|---|---|---|---|---|---|
| ISO | 806.**104** | 201.140 | 107.006 | 107.006 | 107.006 | – | 201.190 | – |
| | | 023 | 010 | 012 | 014 | 200 | 060 | 060 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |



## Top-Down Diamond Kit for Crown by Dr. Leesungbok

*Top-Down Diamond Kit for Crown nach Dr. Leesungbok*



## 100472

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| REF | | 856 | 856 | 856 | 856 | 856F | 856F | 856F | 856F | 390C | 850 | 850F | 858 | 858F | 379 | 379F | 379F | 379F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO | 806.**314** | 198.524 012(007) | 198.524 014(009) | 198.524 016(010) | 198.524 018(011) | 198.514 012(007) | 198.514 014(009) | 198.514 016(010) | 198.514 018(011) | 274.504 016 | 199.524 014(006) | 199.514 014(006) | 165.524 010(005) | 165.504 010(005) | 277.524 023 | 277.514 021 | 277.514 014 | 277.514 018 |
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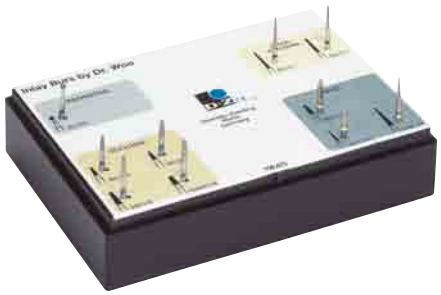
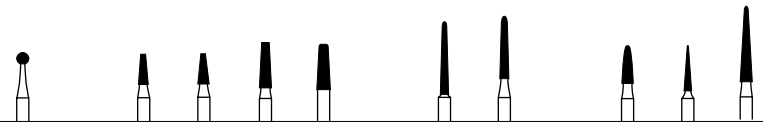


## Inlay Burs by Dr. Woo

*Inlay Burs nach Dr. Woo*



## 100473

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| REF | | 801 | 845 | 845 | 846 | 846KR | 850 | 868 | 860C | 852C | 859C |
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| ISO | 806.**314** | 001.524 016 | 168.524 014 | 168.524 016 | 171.524 016 | 545.524 018 | 199.514 011 | 223.524 012 | 245.504 015 | 164.504 010 | 166.504 016 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |


## ABB 15

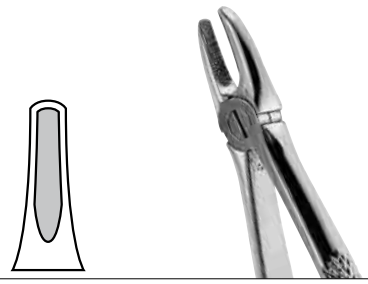
REF **ABB 15**


## ABB 30

REF **ABB 30**

# Diamond Forceps
## *Diamantierte Extraktionszangen*

### **Centrals and Canines** | *Schneide- und Eckzähne*



**501**

| | |
|---|---|
| REF | **501** |
| ISO | 806.**501**.534 |

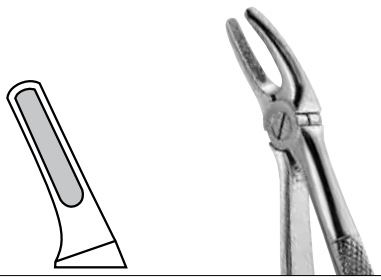
upper centrals and canines · *obere Schneide- und Eckzähne*

**502**

| | |
|---|---|
| REF | **502** |
| ISO | 806.**502**.534 |

upper centrals and canines · *obere Schneide- und Eckzähne*

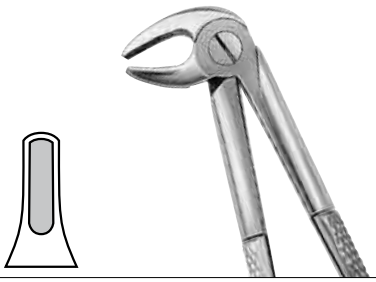
### **Premolars** | *Prämolaren*



**507**

| | |
|---|---|
| REF | **507** |
| ISO | 806.**507**.534 |

upper premolars · *obere Prämolaren*

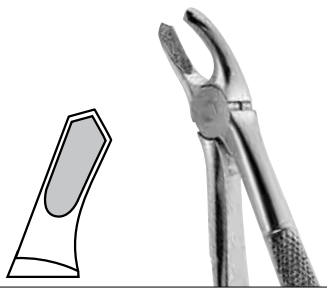


**513**

| | |
|---|---|
| REF | **513** |
| ISO | 806.**513**.534 |

lower premolars · *untere Prämolaren*

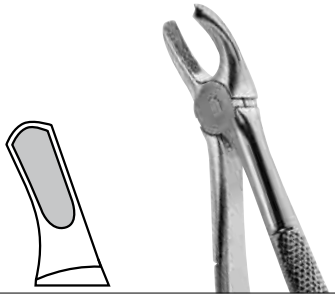
### **Molars** | *Molaren*



**517**

| | |
|---|---|
| REF | **517** |
| ISO | 806.**517**.534 |

upper molars, right · *obere Molaren, rechts*

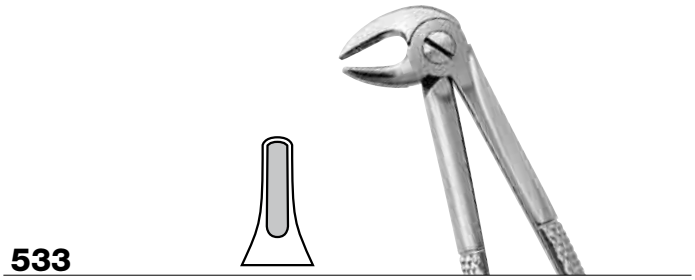


**518**

| | |
|---|---|
| REF | **518** |
| ISO | 806.**518**.534 |

upper molars, left · *obere Molaren, links*

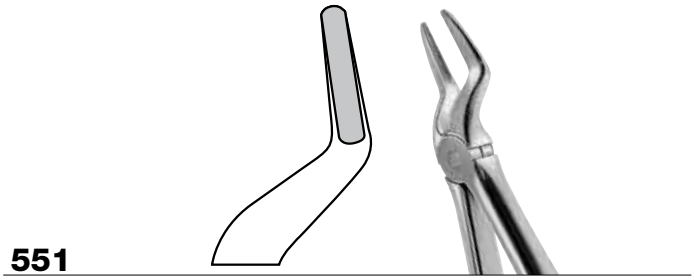
## **Roots** | *Wurzeln*



**533**

| | |
|---|---|
| REF | **533** |
| ISO | 806.**533**.534 |

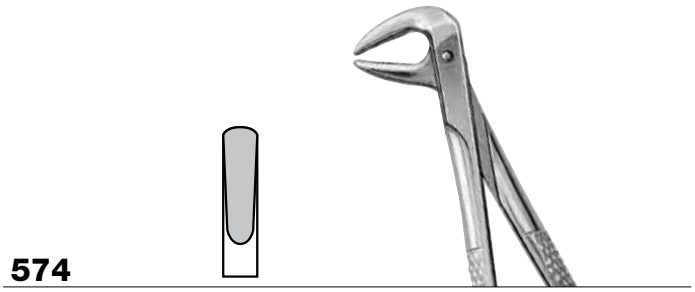
lower roots · *untere Wurzeln*



**551**

| | |
|---|---|
| REF | **551** |
| ISO | 806.**551**.534 |

upper roots · *obere Wurzeln*



**574**

| | |
|---|---|
| REF | **574** |
| ISO | 806.**574**.534 |

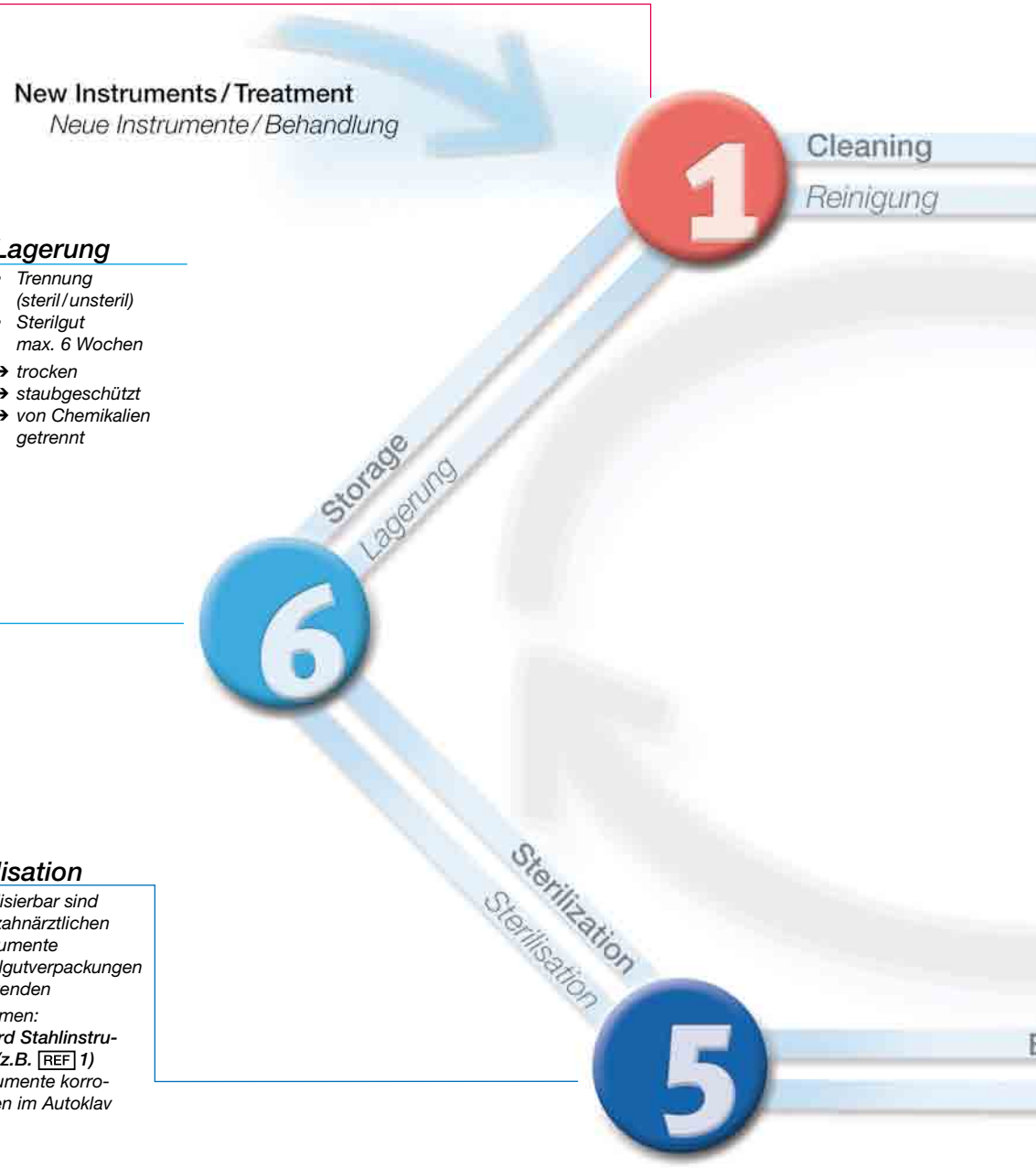
lower roots, english pattern · *untere Wurzeln, englische Form*

## Cleaning

- Immerse instruments immediately after use
- Remove residues
  - Cleaning stone **S1000** (for diamond instruments)
  - Brush **B9785** (for blades)

## *Reinigung*

- benutzte Instrumente sofort einlegen
- *Rückstände entfernen!*
  - *Reinigungsstein **S1000** (Diamant)*
  - *Bürste **B9785** (Schneiden)*




## Storage

- Separate storage (sterile/non-sterile)
- Sterile products, 6 weeks max.

➔ Dry
➔ Dust-proof
➔ Away from chemicals

## *Lagerung*

- *Trennung (steril/unsteril)*
- *Sterilgut max. 6 Wochen*

➔ *trocken*
➔ *staubgeschützt*
➔ *von Chemikalien getrennt*

## Sterilization

- All dental instruments can be sterilized
- Use sterile packages

**Exceptions:**
**Standard steel instruments (e.g. REF 1)**
➔ Instruments corrode if subjected to autoclave sterilization

## *Sterilisation*

- *sterilisierbar sind alle zahnärztlichen Instrumente*
- *Sterilgutverpackungen verwenden*

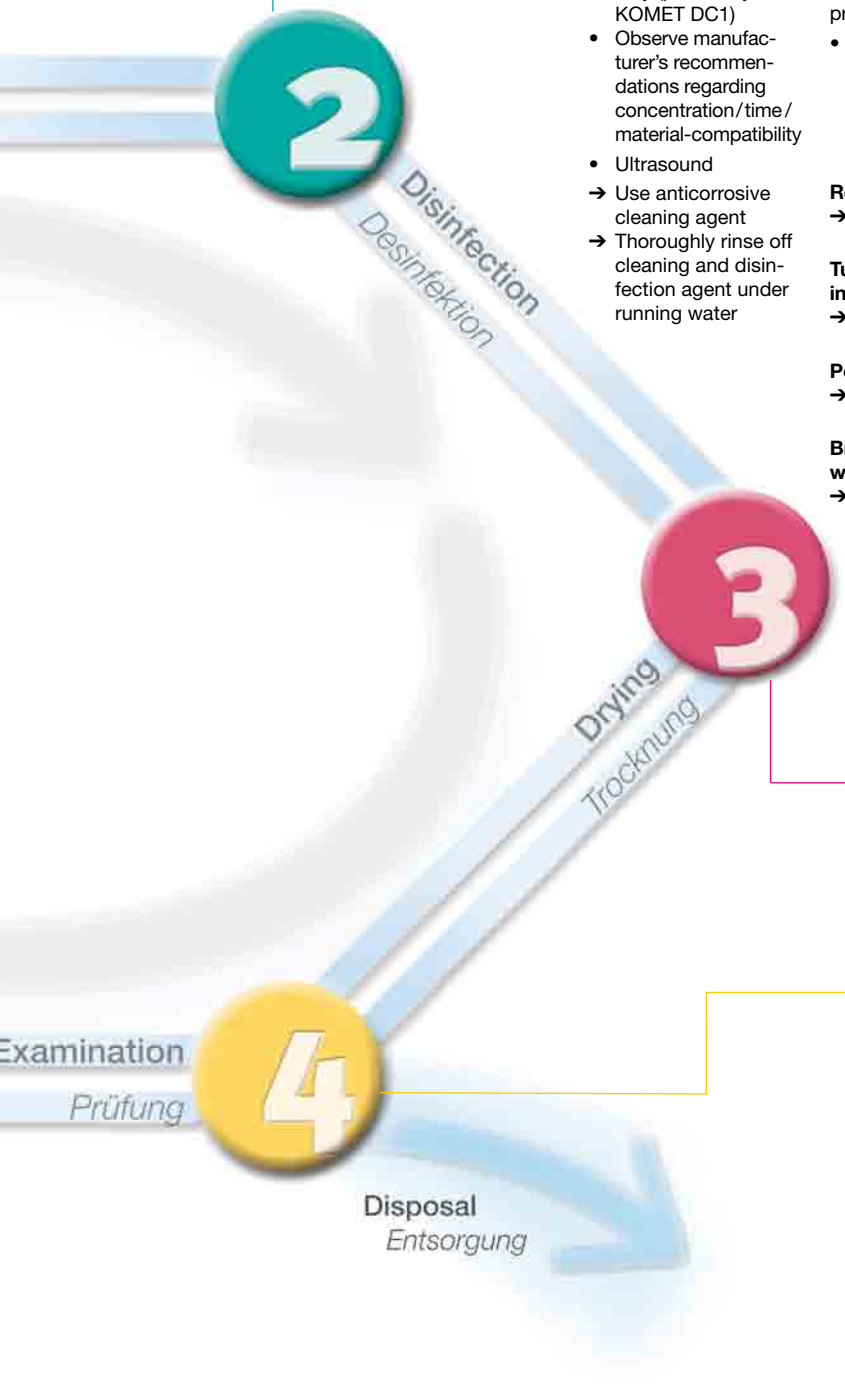
*Ausnahmen:*
***Standard Stahlinstrumente (z.B. REF 1)***
➔ *Instrumente korrodieren im Autoklav*

## Reprocessing

A validated cleaning method is available on our web site www.drendel.com under “Instrument reprocessing”

## *Aufbereitung*

*Ein validiertes Aufbereitungsverfahren finden Sie unter „Instrumentenaufbereitung“ auf www.drendel.com!*




## Disinfection

- Use approved agents only (preferably KOMET DC1)
- Observe manufacturer’s recommendations regarding concentration / time / material-compatibility
- Ultrasound

➔ Use anticorrosive cleaning agent

➔ Thoroughly rinse off cleaning and disinfection agent under running water

***Note:*** Use distilled water in order to prevent water spots

- Disinfection can take place in the thermo disinfector, provided that an agent suitable for rotary instruments is used

**Root canal instruments**

➔ Protect against mechanical damage

**Tungsten carbide instruments**

➔ Do not use hydrogen peroxide ($H_2O_2$)

**Polishers**

➔ Do not immerse in alcohol

**Brushes with natural bristles**

➔ are for single use only

## *Desinfektion*

- Nur geeignete, handelsübliche Mittel benutzen (z.B. KOMET DC1)
- Herstellerangaben zu Konzentration / Zeit / Materialverträglichkeit beachten
- *Ultraschall*

➔ *Reinigungs-/ Desinfektionsmittel mit Korrosionsschutz verwenden*

➔ *gründliches Abspülen der Reinigungs- und Desinfektionsmittel unter fließendem Wasser*

***Tipp:*** *Die Verwendung von destilliertem Wasser verhindert Wasserflecken.*

- Thermodesinfektor ist möglich, sofern ein für rotierende Instrumente geeignetes Mittel verwendet wird

***Wurzelkanalinstrumente***

➔ vor mechanischer Beschädigung schützen

***Hartmetallinstrumente***

➔ kein Wasserstoffperoxid ($H_2O_2$) verwenden

***Polierer***

➔ nicht in Alkohol einlegen

***Naturhaarbürsten***

➔ als Einmalprodukt verwenden

## Drying

- Compressed air

## *Trocknung*

- *mit Druckluft trocknen*

## Examination

- Visual inspection
- Disposal of damaged instruments

➔ Chipped blades

➔ Blunt blades

➔ Bent instruments

➔ Dark discoloration

➔ Corrosion (rust)

➔ blank spots on diamond instruments

## *Prüfung*

- *Sichtkontrolle*
- *Entsorgung von beschädigten Instrumenten!*

➔ *ausgebrochene Schneiden*

➔ *stumpfe Schneiden*

➔ *verbogene Instrumente*

➔ *Schwarzfärbung*

➔ *Korrosion (Rost)*

➔ *glänzende Stellen an Diamantinstrumenten (fehlender Diamantbelag)*

# General instructions for use and safety recommendations
for the use of rotary instruments

**Area of application:**
These general instructions for use and safety recommendations apply to all products and are to be generally observed.
Separate instructions for use are enclosed in the packaging of products that require more detailed information. These take precedence over the general instructions.

## Proper use

- Make sure that only technically and hygienically perfect and cleaned turbines, hand pieces and contra-angles are used.
- Chuck the instruments as deeply as possible.
- The instrument must be rotating at the desired speed before contact is made with the work piece.
- Avoid jamming and using the instrument as a lever as this leads to an increased risk of fracture.
- Wear safety glasses as required.
- Avoid unprotected contact with the instruments (use protective gloves).
- Thermal damage caused by rotary instruments has to be avoided in any case (work at recommended speed and use sufficient water cooling).
- Preferably use instruments with rounded edges as the preparation of sharp-edged undercuts may lead to an increased risk of a damaging notch effect. Improper use leads to increased risk and inferior results. Therefore, stick to the application and speed recommendations indi-cated on the labels and in our instructions for use.

## Recommended speeds

**The general rule is:**

- The larger the working part, the lower the speed
- Maximum speed ↻max. 300.000 rpm means: Suited for micro motor hand pieces and turbines with stable ball bearings. Not recommended for old turbines with air bearing.
- Maximum speed ↻max. 30.000 – 160.000 rpm means: Suited for micro motor hand pieces or lab hand pieces up to the speed indicated. Not recommended for turbines. Not observing the maximum permissible speed leads to an increased safety risk.

## Contact pressure

**Excessive contact pressure (> 2N) has to be avoided**

- In cutting instruments, this can lead to damage to the working part and to chipping of the blades as well as an excessive generation of heat.
- In abrasive instruments, increased contact pressure may lead to stripping of the grit or to clogging of the instruments and increased heat generation.

Increased contact pressure may also lead to thermal damage to the pulp or, in case of damaged blades, to rough surfaces. In extreme cases, instrument fracture may even occur.

## Cooling

- To avoid undesirable heat generation during preparation, make sure to provide sufficient cooling by means of air/water spray (at least 50 ml/min.).
- Additional external cooling is required when using FG instruments with a total length of more than 22 mm or a head diameter exceeding 2 mm.

**Insufficient water cooling can result in irreversible damage to the tooth and the surrounding tissue.**

## Guideline on the number of times rotary instruments can be used

The below values are guidelines. The service life of the instruments may differ from these values as this depends on the application and/or the material treated.

In certain cases, the instruments can be used more often, provided that there are no visible signs of wear.

| | |
|---|---|
| Instruments made of unprotected tool steel: | – 4 x |
| Instruments made of stainless steel: | – 4 x |
| Instruments with internal cooling: | – 4 x |
| Tungsten carbide instruments: | – 15 x |
| Diamond instruments: | – 25 x |
| Polishers: | – 10 x |
| Ceramic abrasives: | – 10 x |

## Elimination of worn instruments

- Damaged and deformed blades cause vibrations and lead to poor preparation margins and rough surfaces.
- Blank spots on the surface of diamond instruments are an indication of abrasive grit wear and reduced cutting efficiency. These deficiencies lead to excessive temperature and finally pulp damage. Therefore, worn or bent instruments must be eliminated immediately.

**Very important: Blunt and damaged instruments lead to the dentist applying higher contact pressure which may result in an increased operating temperature. This may lead to thermal pulp damage. Damaged instruments therefore have to be discarded immediately.**

## Cleaning, disinfection and sterilization

The instruments are to be disinfected with anti-corrosive disinfecting and cleaning agents for rotary instruments. For recommendations for use (immersion time, concentration, suitability) of disinfecting and cleaning agents see instructions of the manufacturers of these agents.

To remove disinfecting and cleaning agent, thoroughly rinse instruments with water and dry carefully (e.g. by air blasting). Do not store instruments for a longer period in wet or humid condition. Make sure that they do not come in contact with each other during ultrasonic cleaning. Control cleaned instruments visually. The instruments can be reprocessed in the thermo disinfector provided that the agent used is suitable for rotary instruments. Subject cleaned instruments to a visual examination. Damaged or blunt instruments must be rejected and their use discontinued. Sterilization is carried out in the autoclave at 134°C. The recommendations provided by the manufacturer of the respective device must be observed. Discard any corroded instruments. The operator of medical products is responsible for seeing that reprocessing is carried out by qualified personnel, using the appropriate materials and suited equipment. Work instructions with regard to proper reprocessing of instruments according to DIN EN ISO 17664 can be downloaded from our web site www.drendel.com.

For polishers, brushes and instruments with internal cooling please refer to the following specific information.

## Specific instructions for individual instrument types

**Tungsten carbide**

- When milling dry plaster a suction device must be used.
- Avoid any contact with $H_2O_2$ (hydrogen peroxide). The carbide working parts would be attacked and damaged, reducing the instrument‘s service life.

**Steel**

- Tool steel instruments cannot be sterilized in the autoclave.
- When using the separating strip please avoid contact with the gingiva as there is a risk of injury due to sharp blades.

**Diamond**

- Use a disc guard for rotating diamond discs when working intraorally.
- When using the diamond strips please avoid contact with the gingiva as there is a risk of injury. Please also avoid extreme bending as this might cause the strip to snap.
- Coarse and super coarse grit diamond instruments may lead to increased thermal stress. Therefore, when using such products, use sufficient water cooling (at least 50 ml/min) and work at minimal contact pressure. To achieve an optimal surface roughness, subsequent finishing is necessary.

**Bone cutters (tungsten carbide, stainless steel, diamond-coated)**

Bone cutters are suitable for a wide range of uses in dental alveolar surgery, depending on the shape of their working parts, e.g.: for the restoration of edentulous ridges when removing sharp bone edges, for the extraction of bones for example from the chin or from the retromolar zone for autogenous bone transplantation, for osteotomy when exposing impacted teeth and for the treatment of root apexes as surgical measure for the conservation of teeth. Recommended speeds are mentioned on the label of the package of an instrument.

- CB255A, Special care has to be taken when using the CB255A, minimally invasive combination instrument for conservative preparation of bone tissue and hard tooth substance.
- The CB255A is designed to be used in the micro motor (red contra-angle) and not in the turbine - risk of accident.

**Root canal reamers (stainless steel)**

**Pulpa bur „Müller“ 191**

- Green contra-angle, ($n_{opt.}$ 450–800 rpm).
  For root canal preparation.

**Gates Glidden Bur Type “G”, G180, G180A**

- Green contra-angle, ($n_{opt.}$ 450–800 rpm). For preparation of the coronal portion of the root canal, before or after the use of files or K-burs.

## Specific instructions for individual instrument types

**Polishers/Brushes**

- Apply low contact pressure in order to minimize heat generation.
- Apply a speed of $n_{opt.}$ 5,000 – 6,000 rpm.
- Polishing should always be carried out in circular motion.
- In order to achieve a high shine polish, when using multiple step polishing systems all polishers are to be used in the indicated sequence.
- Use breathing mask (mouth and nose) as well as a suction device in the laboratory.
- Eye protection is recommended.
- Disinfecting and cleaning: Due to their material properties, brushes and polishers have to be cleaned differently from other rotary instruments. Use disinfecting and cleaning agents that are suited for polishers. Use agent observing the recommendation indicated by the manufacturer.
- Sterilization: Autoclave only.
- The reuse of disposable articles (marked ② on the packaging) is not permitted (e.g. laminated polishers and brushes).

  **The reuse of these products poses a risk of infection and/or the safety of the products can no longer be guaranteed.**

**Anodized aluminum bur blocks**

- Prior to sterilization, rinse bur block under running water and make sure that especially the holes are properly dried (e.g. by air blasting).
- For the sterilization of instruments it is necessary to seal the bur block in sterilization pouch and sterilize it in the autoclave.
- Frequent sterilization of the bur block may lead to minor color deviations. Such a change in color does not have any effect on the quality or the performance of the bur block.
- Due to their material, aluminium blocks are not suitable for preparation in the thermo disinfector.

## Safety and liability

Worn and damaged instruments (defective diamond coating, bent instruments etc.) have to be discarded and replaced by new ones.

The above mentioned recommendations with respect to handling, cooling and contact pressure are to be strictly observed.

The instruments should only be used for the intended application.

Non-observance of these safety recommendations may lead to damage of the hand piece or injury. The user is responsible for checking the product prior to use to ensure that it is suited for the intended purpose.

In case of contributory negligence by the user, D+Z partly or totally declines liability for all resulting damages, particularly if these are due to non-observance of our recommendations for use or warnings as well as inadvertent misuse by the user.

**Store products out of children’s reach. For dental use only.**

# Allgemeine Gebrauchsanweisungen und Sicherheitsempfehlungen
zur Anwendung von rotierenden Dentalinstrumenten

**Geltungsbereich:**
Die hier aufgeführten allgemeinen Gebrauchsanweisungen und Sicherheitsempfehlungen gelten für alle Produkte und sind grundsätzlich zu beachten! Erklärungsbedürftigen Produkten liegen separate Gebrauchsanweisungen bei. Diese sind vorrangig zu beachten!

## Sachgemäße Anwendung

- Es ist darauf zu achten, nur technisch und hygienisch einwandfreie, gereinigte Turbinen sowie Hand- und Winkelstücke einzusetzen.
- Die Instrumente so tief wie möglich einspannen.
- Die Instrumente sind vor dem Ansetzen an das Objekt auf Drehzahl zu bringen.
- Verkanten oder Hebeln der Instrumente führt zu erhöhter Bruchgefahr und ist daher zu vermieden.
- Je nach Anwendung Schutzbrille tragen.
- Die ungeschützte Berührung der Instrumente durch den Anwender ist zu vermeiden (Schutzhandschuhe tragen).
- Thermische Schäden durch rotierende Instrumente sind unbedingt zu vermeiden (empfohlene Drehzahl einhalten und mit ausreichender Kühlung arbeiten).
- Instrumente mit abgerundeten Kanten sind vorzuziehen, da die Präparation von scharfkantigen Unterschnitten das Risiko einer schädigenden Kerbwirkung erhöhen kann. Unsachgemäßer Gebrauch führt zu erhöhtem Risiko und schlechten Arbeitsergebnissen. Bitte beachten Sie daher die auf den Etiketten und in den Gebrauchsanweisungen angegebenen Anwendungs- und Drehzahlempfehlungen.

## Drehzahlempfehlungen

**Generell gilt:**

- Je größer das Arbeitsteil, desto niedriger die Drehzahl.
- Drehzahlempfehlung $\circlearrowleft_{max.}$ 300 000 $min^{-1}$ bedeutet: Geeignet für Micromotor-Hand- und Winkelstücke sowie Turbinen mit stabiler Kugellagerung. Für alte Turbinen mit Luftlagerung nicht zu empfehlen.
- Drehzahlempfehlung $\circlearrowleft_{max.}$ 30 000 – 160 000 $min^{-1}$ bedeutet: Geeignet für Micromotor-Handstücke oder Technik-Handstücke bis zur angegebenen Drehzahl. Für Turbinen nicht zu empfehlen. Das Nichtbeachten der maximal zulässigen Drehzahl führt zu einem erhöhten Sicherheitsrisiko.

## Anpresskräfte

**Überhöhte Anpresskräfte (> 2N) sind unbedingt zu vermeiden.**

- Sie können bei schneidenden Instrumenten zur Beschädigung des Arbeitsteils mit Schneidenausbrüchen führen. Gleichzeitig tritt eine erhöhte Wärmeentwicklung ein.
- Bei Schleifinstrumenten können überhöhte Anpresskräfte zum Ausbrechen der Schleifkörner oder zum Verschmieren des Instrumentes und zu überhöhter Wärmeentwicklung führen.

Überhöhte Anpresskräfte können auch zu thermischen Schäden an der Pulpa oder durch beschädigte Schneiden zu rauen Oberflächen führen. Im Extremfall kann auch ein Instrumentenbruch nicht ausgeschlossen werden.

## Kühlung

- Zur Vermeidung unerwünschter Wärmeentwicklung bei der Präparation ist eine ausreichende Kühlung mit einem Luft-/Wasserspray (mind. 50 ml/min) sicherzustellen.
- Bei FG-Instrumenten mit einer Gesamtlänge von über 22 mm oder einem Kopfdurchmesser über 2 mm ist zusätzliche Außenkühlung erforderlich.

**Bei unzureichender Wasserkühlung kann es zu einer irreversiblen Schädigung des Zahnes und der umliegenden Gewebe kommen.**

## Richtwerte für die Einsatzhäufigkeit rotierender Instrumente

Die folgenden Werte sind Richtwerte, die je nach Anwendung und/oder bearbeitetem Material von den tatsächlichen Standzeiten abweichen können.

Die Instrumente können mitunter länger eingesetzt werden, sofern keine Abnutzung sichtbar ist.

| | |
|---|---|
| Instrumente aus ungeschütztem Werkzeugstahl: | - 4 x |
| Instrumente aus RF-Stahl: | - 4 x |
| Instrumente mit Innenkühlung: | - 4 x |
| Hartmetallinstrumente: | - 15 x |
| Diamantinstrumente: | - 25 x |
| Polierer: | - 10 x |
| Keramische Schleifkörper: | - 10 x |

## Aussortierung von abgenutzten Instrumenten

- Beschädigte und verformte Schneiden verursachen Vibrationen und führen zu schlechten Präparationskanten und rauen Oberflächen.
- Blanke Stellen auf der Oberfläche von Diamantinstrumenten deuten auf fehlendes Schleifkorn und eine verringerte Schneidkraft hin. Diese Mängel führen zu überhöhten Temperaturen und letztendlich zur Schädigung der Pulpa. Daher müssen abgenutzte und beschädigte Instrumente unverzüglich aussortiert werden.

**Sehr wichtig: Stumpfe und ausgebrochene Instrumente verleiten den Zahnarzt zu hohen Anpresskräften und erhöhen so die Arbeitstemperatur. Dies kann zu einer Schädigung der Pulpa führen. Beschädigte Instrumente sind daher unverzüglich auszusortieren.**

## Reinigung, Desinfektion und Sterilisation

Die Instrumente sind mit Reinigungs- und Desinfektionsmitteln für rotierende Instrumente mit Korrosionsschutz zu desinfizieren.
Die Gebrauchsempfehlungen (Einwirkdauer, Konzentration, Eignung) für Reinigungs- und Desinfektionsmittel sind den Angaben der Hersteller dieser Mittel zu entnehmen.
Das Reinigungs- und Desinfektionsmittel sehr gründlich mit Wasser abspülen und die Instrumente sorgfältig trocknen (z.B. mittels Luftstrom).
Instrumente nie feucht oder nass längere Zeit liegen lassen.
Bei der Reinigung im Ultraschall dürfen sich die Instrumente nicht gegenseitig berühren.
Gereinigte Instrumente optisch prüfen.
Die Aufbereitung im Thermo-Desinfektor ist möglich, sofern ein entsprechendes Mittel verwendet wird, das für rotierende Instrumente geeignet ist.
Gereinigte Instrumente einer optischen Prüfung unterziehen.
Beschädigte oder stumpfe Instrumente aussortieren und nicht mehr verwenden.
Die Sterilisation erfolgt im Autoklav bei 134°C. Die vom entsprechenden Gerätehersteller angegebenen Hinweise sind zu beachten. Korrodierte Instrumente nicht mehr verwenden.

Dem Medizinproduktebetreiber obliegt die Verantwortung, dass die Aufbereitung mit geeigneter Ausstattung, geeigneten Materialien und entsprechend qualifiziertem Personal durchgeführt wird.

Informationen zur sachgemäßen Wiederaufbereitung von Instrumenten nach DIN EN ISO 17664 stehen unter www.drendel.com zum Download bereit.

Für Polierer, Bürsten und Instrumente mit Innenkühlung beachten Sie bitte die folgenden spezifischen Anweisungen.

## Spezifische Hinweise für einzelne Instrumentenarten

### Hartmetall

- Beim Fräsen von trockenem Gips muss mit Absaugung gearbeitet werden.
- Der Kontakt mit $H_2O_2$ (Wasserstoffperoxid) ist zu vermeiden. Die Hartmetall-Arbeitsteile werden angegriffen und beschädigt, wodurch die Standzeit des Instruments reduziert wird.

### Stahl

- Instrumente aus Werkzeugstahl dürfen nicht im Autoklav sterilisiert werden.
- Beim Einsatz des Separierstreifens jeglichen Kontakt mit der Gingiva vermeiden, da durch die scharfen Schneiden Verletzungsgefahr besteht.

### Diamant

- Beim Einsatz von rotierenden Diamantscheiben im intraoralen Bereich Scheibenschutz verwenden.
- Beim Einsatz der Diamantstreifen muss wegen Verletzungsgefahr jeder Kontakt mit der Gingiva vermieden werden. Starkes Verbiegen ist ebenfalls zu vermeiden, da dies zum Bruch des Streifens führen kann.
- Der Einsatz von Instrumenten mit grober und supergrober Körnung kann zu erhöhter thermischer Belastung führen. Daher ist insbesondere beim Einsatz dieser Produkte auf ausreichende Kühlung (mindestens 50 ml/min) und minimale Anpresskraft zu achten. Zur Erzielung optimaler Rautiefen ist ein nachträgliches Finieren erforderlich.

### Knochenfräser (Hartmetall, Edelstahl, diamantbeschichtet)

Knochenfräser eignen sich, abhängig von der Form ihrer Arbeitsteile, für den Einsatz in zahlreichen Feldern der dentoalveolären Chirurgie: z. B. zur Alveolarkammplastik bei der Glättung von scharfen Knochenkanten, bei der Gewinnung von Knochen beispielsweise vom Kinn oder von retromolar zur autologen Knochentransplantation, zur Osteotomie bei der Freilegung von retinierten Zähnen und zur Behandlung von Wurzelspitzen als chirurgische Zahnerhaltungsmaßnahme. Die empfohlenen Drehzahlen sind auf dem Etikett auf der Verpackung des jeweiligen Instruments angegeben.

- Beim Einsatz des CB255A, einem minimal invasiven Kombinationsinstrument zur erhaltenden Präparation von Knochengewebe und harter Zahnsubstanz, muss mit besonderer Vorsicht vorgegangen werden.
- Der CB255A ist für den Einsatz im Micromotor vorgesehen (rotes Winkelstück) und nicht in der Turbine – Unfallgefahr!

### Wurzelkanalerweiterer (Edelstahl)

### Pulpabohrer „Müller“ 191

- Winkelstück grün, ($\circlearrowleft_{opt.}$ 450–800 $min^{-1}$). Zur Wurzelkanalaufbereitung.

### Erweiterer Gates Glidden Typ „G“, G180, G180A

- Winkelstück grün ($\circlearrowleft_{opt.}$ 450–800 $min^{-1}$). Zum Aufbereiten des koronalen Teils des Wurzelkanals, vor oder nach dem Einsatz von Feilen oder K-Bohrern.

## Spezifische Hinweise für einzelne Instrumentenarten

### Polierer / Bürsten

- Mit geringer Anpresskraft arbeiten, um die Wärmeentwicklung zu minimieren.
- Bei einer Drehzahl von $\circlearrowleft_{opt.}$ 5000–6000 $min^{-1}$ polieren.
- Immer in kreisförmigen Bewegungen polieren.
- Um Hochglanz zu erzielen, sollten bei mehrstufigen Poliersystemen alle Polierer in der angegebenen Reihenfolge eingesetzt werden.
- Verwenden Sie im zahntechnischen Bereich einen Atemschutz (Mund und Nase) sowie eine Absauganlage.
- Das Tragen einer Schutzbrille wird empfohlen.
- Reinigung und Desinfektion: zahnärztliche Bürsten und Polierer sind aufgrund ihrer Materialeigenschaften anders als andere rotierende Instrumente zu reinigen. Verwenden sie daher Desinfektions- und Reinigungsmittel, die für Polierer geeignet sind. Beim Gebrauch des Mittels die Herstellerempfehlungen beachten.
- Sterilisation: Nur im Autoklav
- Einmalartikel (auf der Verpackung mit ② gekennzeichnet) sind nicht für eine Wiederverwendung zugelassen (z.B. Lamellenpolierer und zahnärztliche Bürsten).

  **Eine gefahrlose Anwendung kann bei erneuter Verwendung dieser Produkte nicht gewährleistet werden, da ein Infektionsrisiko besteht und/oder die Sicherheit der Produkte nicht weiter gegeben ist.**

### Eloxierte Arbeitsständer aus Aluminium

- Vor der Sterilisation den Arbeitsständer unter fließendem Wasser abspülen und sich vergewissern, dass insbesondere die Löcher vollkommen trocken sind (z.B. mittels Luftstrom).
- Zur Sterilisation von Instrumenten muss der Arbeitsständer in einem Sterilisierbeutel versiegelt und im Autoklav sterilisiert werden.
- Häufige Sterilisationen des Arbeitsständers können zu geringfügigen Farbabweichungen führen. Diese Farbänderungen haben keinerlei Einfluss auf die Qualität oder die Leistung des Arbeitsständers.
- Aluständer sind materialbedingt grundsätzlich nicht für die Aufbereitung im Thermodesinfektor geeignet.

## Sicherheit und Haftung

Abgenutzte und beschädigte Instrumente (fehlerhafte Diamantierung, Verbiegung o.ä.) sind umgehend auszusortieren und durch neue zu ersetzen. Die oben genannten Empfehlungen zur Handhabung, Kühlung und Anpresskraft sind unbedingt einzuhalten.

Die Instrumente dürfen nur für den angegebenen Verwendungszweck eingesetzt werden. Bei Missachtung dieser Sicherheitshinweise kann es zur Schädigung des Antriebes oder zu Verletzungen kommen.

Der Anwender ist verpflichtet, das Produkt eigenverantwortlich vor dem Einsatz auf die Eignung für den vorgesehenen Zweck zu prüfen.

Ein Mitverschulden des Anwenders führt bei verursachten Schäden zur Minderung oder gänzlichem Ausschluss der Haftung von D+Z. Dies ist insbesondere bei Nichtbeachtung der Gebrauchsanweisungen oder Warnungen oder bei versehentlichem Fehlgebrauch durch den Anwender der Fall.

**Außerhalb der Reichweite von Kindern aufbewahren. Nur für den dentalen Gebrauch**.

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