
D+Z
Drendel + Zweiling
DIAMANT GmbH
Made in
Germany

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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


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


Gnatho-orthopaedics
KFO


cutting tip
schneidende Spitze


Order No.
Bestellnummer

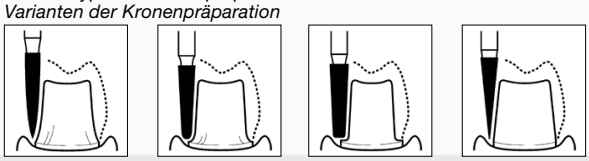

ISO No.
ISO-Nummer

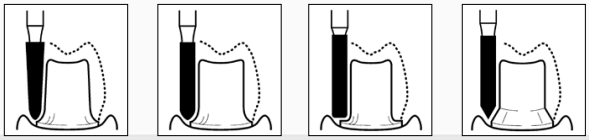

Lot number – for traceability of the respective production batch
Lotnummer – ermöglicht die Rückverfolgbarkeit der entsprechenden Produktionscharge


Speed recommendation
Drehzahlempfehlung


Maximum permissible speed
maximal zulässige Drehzahl

Various types of crown preparation
Varianten der Kronenpräparation



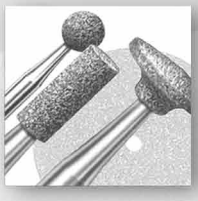


Diamond grit sizes · *Diamant-Körnungen*

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*

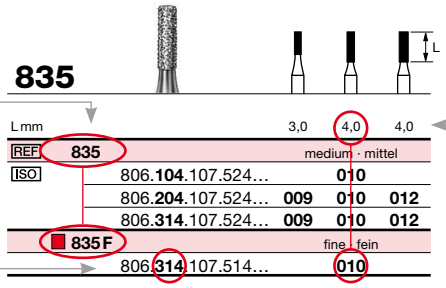
The colour coding indicates the grit size or type of toothing.

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**	

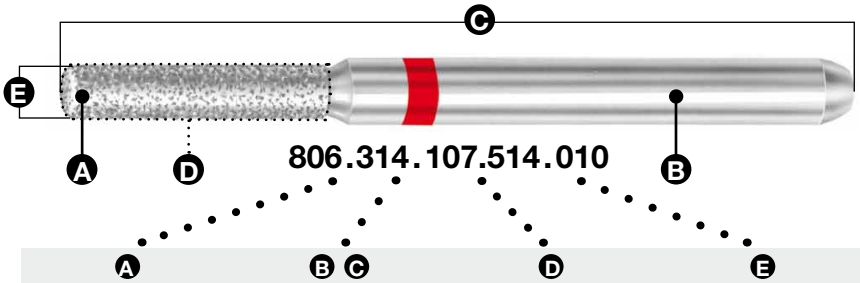
Numbering system | *Nummernsystem* ISO 6360

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*

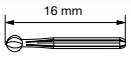
D **Shape and design**
- cylindrical, round edges
- fine grit, hard bond

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

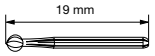
E **Nominal size** ISO 2157
- Largest diameter of the working part (1/100 mm)

Nenngröße *ISO 2157*
- *größter Durchmesser des Arbeitsteils (1/100 mm)*

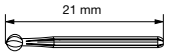
Shank type | *Schaftarten* ISO 6360 · ISO 1797



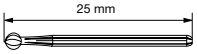
313 · FG short
FG kurz Ø 1,60 mm



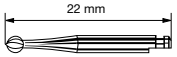
314 · FG (Friction Grip)
FG Ø 1,60 mm



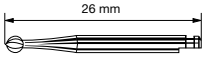
315 · FG long
FG lang Ø 1,60 mm



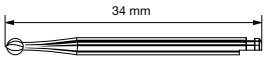
316 · FG extra-long
FG extra lang Ø 1,60 mm



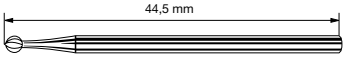
204 · Right-angle
Winkelstück Ø 2,35 mm



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



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



104 · Handpiece
Handstück 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

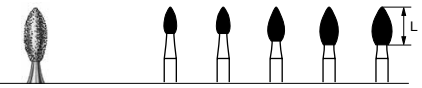
Torpedo tapered
Torpedo, konisch 16

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**	

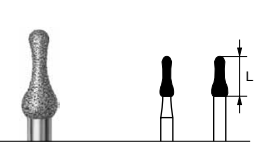
369

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

025 = max. 160 000 min⁻¹

Occlu-Former

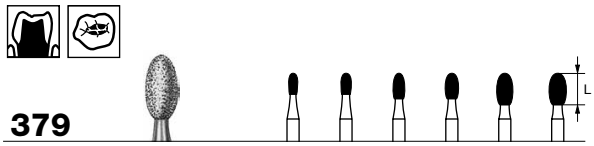
369A



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

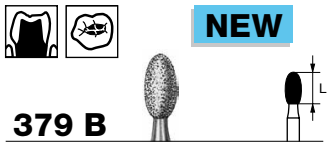


L mm		2,8	2,8	3,4	3,4	4,2	4,2
REF	**379**						
ISO	806.**314**.277.524…		**014**		**018**		**023**
■	**379SG**						
	806.**314**.277.544…						**023**
■	**379G**						
	806.**314**.277.534…						**023**
■	**379F**						
	806.**204**.277.514…						**023**
	806.**314**.277.514…	**012**		**016**	**018**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

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

NEW

379 B



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

020 = max. 300 000 min⁻¹

390

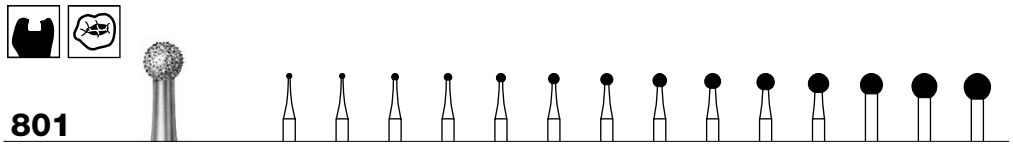
L mm		3,5
REF	**390**	
ISO	806.**314**.274.524…	**016**
■	**390F**	
	806.**314**.274.514…	**016**
□	**390C**	
	806.**314**.274.504…	**016**

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

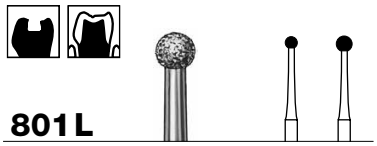
801



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

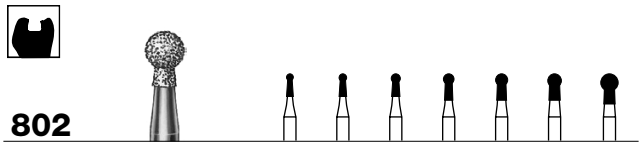
801 L



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

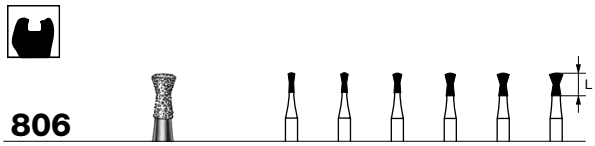
802



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			

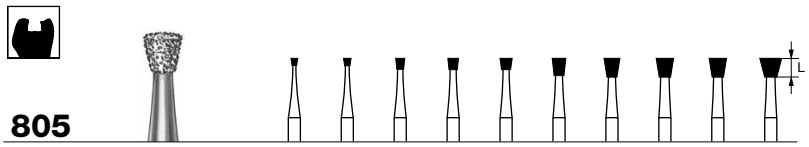
023 = max. 300 000 min⁻¹

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	

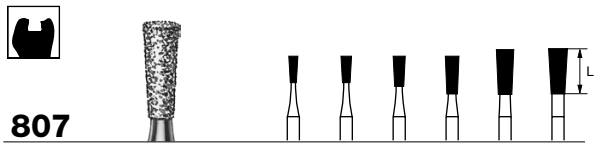
805



L mm		–	1,0	1,5	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

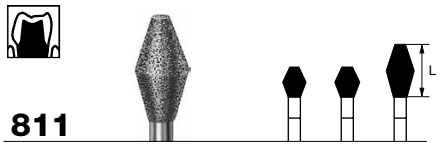
807



L mm		3,5	3,5	4,0	5,0	6,0
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

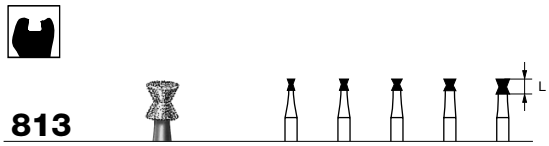
811



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**

814

NEW

REF	**814**		
ISO	806.**104**.493.524…	**030**	**045**

030 = max. 80 000 min⁻¹
045 = max. 80 000 min⁻¹

815

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

035 = max. 100 000 min⁻¹

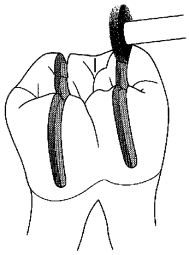
818

L mm			0,7	0,7
REF	**818**			
ISO	806.**314**.041.524…		**047**	**050**

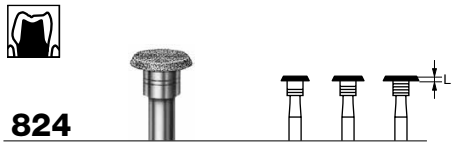
047 = max. 80 000 min⁻¹
050 = max. 80 000 min⁻¹

822

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



824



L mm			0,8	1,0	1,3
REF	**824**				
ISO	806.**314**.055.524…		**037**	**042**	**047**

037 = max. 100 000 min⁻¹ 047 = max. 90 000 min⁻¹
042 = max. 80 000 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		

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

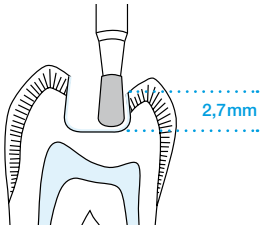
827

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

833

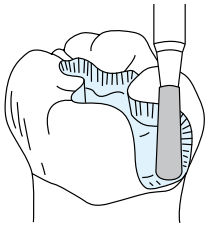
L mm		3,5
REF	833 F	
ISO	806.**314**.466.514…	**031**
	833 C	
	806.**314**.466.504…	**031**

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

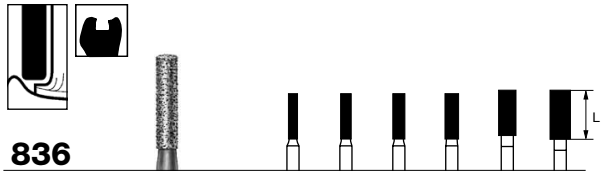
L mm		3,0	3,0	3,0	4,0	4,0	4,0	4,0	4,0
REF	835								
ISO	806.**104**.107.524…				**010**				
	806.**204**.107.524…				**010**	**012**			
	806.**314**.107.524…	**006**	**008**	**009**	**010**	**012**	**014**	**016**	**018**
	835 G								
	806.**314**.107.534…			**009**	**010**	**012**	**014**		
	835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

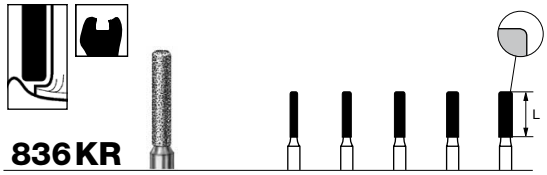
836



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**					

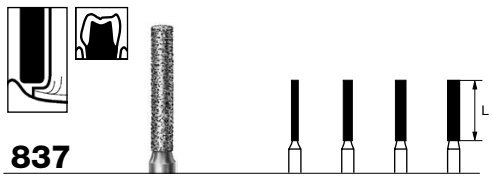
027 = max. 160 000 min⁻¹

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**		

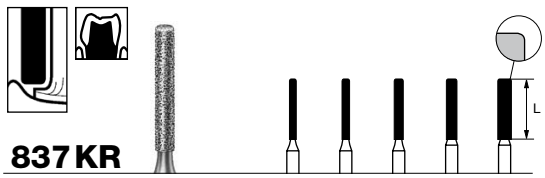
837



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**	**016**

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

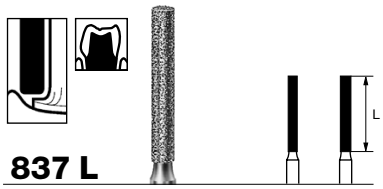
837 KR



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

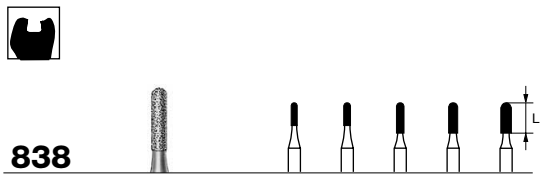
837 L



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**	

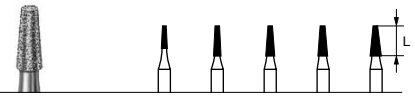
839

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

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

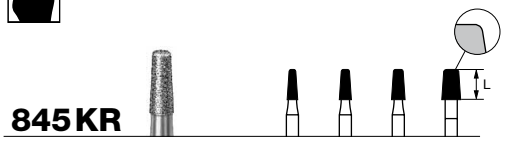
U	= □	ISO 494	White ring · *weißer Ring*	ultra-fine · *ultrafein*	10 µm		
C	= ■	ISO 504	Yellow ring · *gelber Ring*	extra-fine · *extrafein*	25 µm		
F	= ■	ISO 514	Red ring · *roter Ring*	fine · *fein*	46 µm		
–	=	ISO 524	without ring · *ohne Ring*	medium · *mittel*	105–120 µm		
G	= ■	ISO 534	Green ring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

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**	

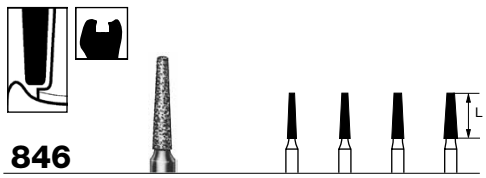
845 KR



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**

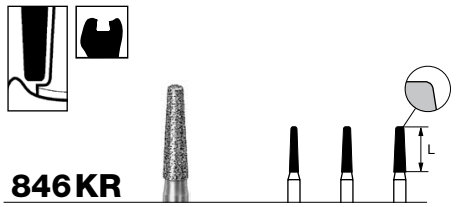
025 = max. 160 000 min⁻¹

846



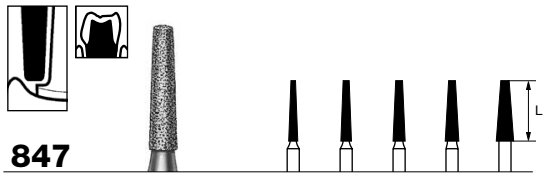
L mm		6,0	6,0	6,0	6,0
REF	**846**				
ISO	806.**314**.171.524…	**012**	**014**	**016**	**018**
	846 G				
	806.**314**.171.534…	**012**		**016**	

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**

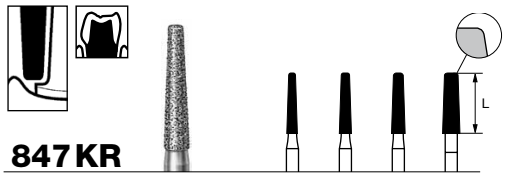
847



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

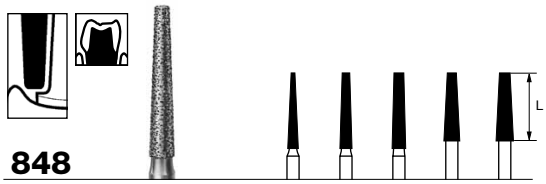
847 KR



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



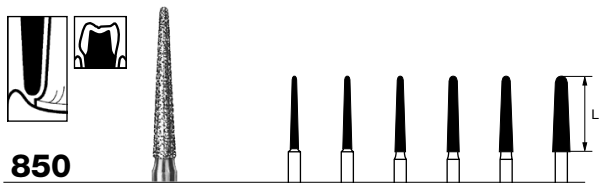
848

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

849

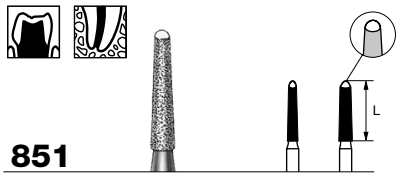
L mm		4,0
REF	**849**	
ISO	806.**314**.194.524…	**012**
■	**849 G**	
	806.**314**.194.534…	**012**



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



851

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

012 = max. 300 000 min⁻¹

850 SMF

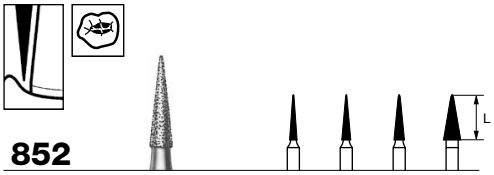
L mm		10,0
REF	■■ **850 S MF**	
ISO	806.**314**.199.XXX…	**011**

011 = max. 160 000 min⁻¹

Break off the lamina.
Aufbrechen der Schmelzlamellen.

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

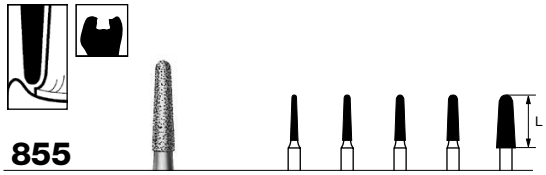
852



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

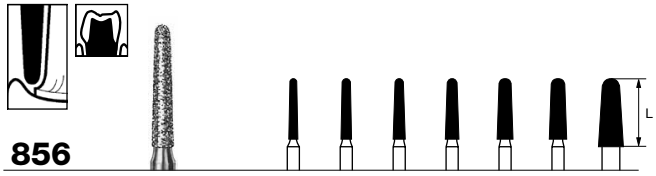
855



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

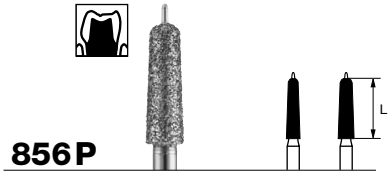
856



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

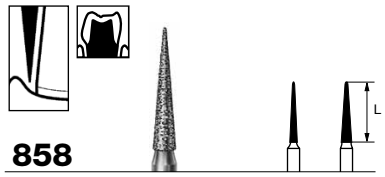
856 P



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

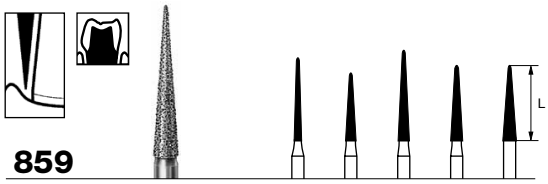
858



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

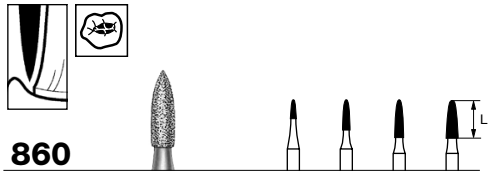


L mm		11,0	9,0	12,0	10,0	10,0
REF	**859**					
ISO	806.**104**.166.524…					**018**
	806.**314**.166.524…		**014**			**018**
	806.**314**.167.524…	**010**		**015**		
	859 G					
	806.**314**.166.534…		**014**			**018**
	859 F					
	806.**314**.166.514…		**014**			**018**
	806.**314**.167.514…	**010**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

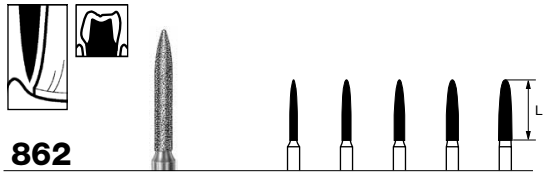
U	= □	ISO 494 White ring · *weißer Ring*	ultra-fine · *ultrafein*	10 µm	–	=	ISO 524 without ring · *ohne Ring*	medium · *mittel*	105–120 µm
C	= ■	ISO 504 Yellow ring · *gelber Ring*	extra-fine · *extrafein*	25 µm	G	= ■	ISO 534 Green ring · *grüner Ring*	coarse · *grob*	126–150 µm
F	= ■	ISO 514 Red ring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

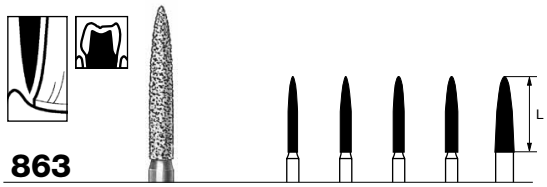
862



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**		

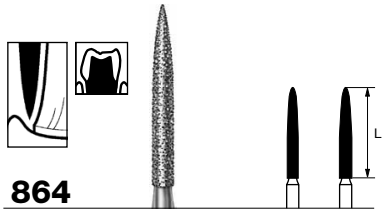
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹

863 GK

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

012 = max. 300 000 min⁻¹

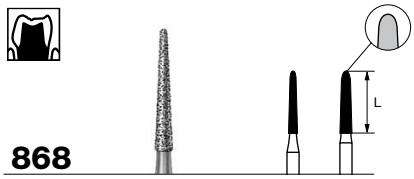
864



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

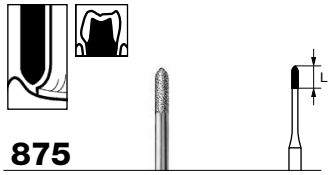


L mm		8,0	8,0
REF	**868**		
ISO	806.**314**.223.524…	**012**	**016**

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

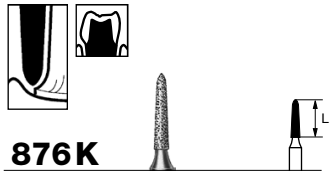
875



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

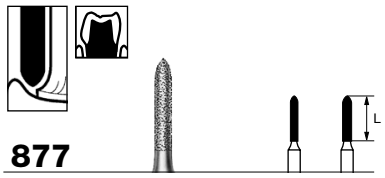
009 = max. 300 000 min⁻¹

876K



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

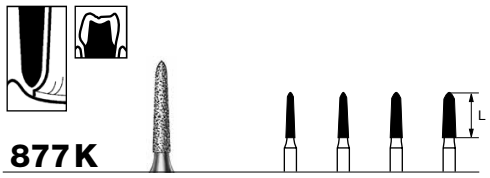
877



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**

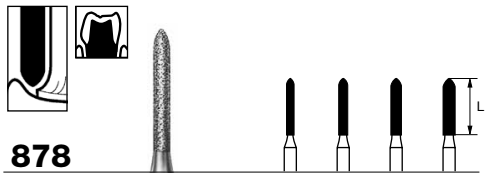
010 = max. 160 000 min⁻¹

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**

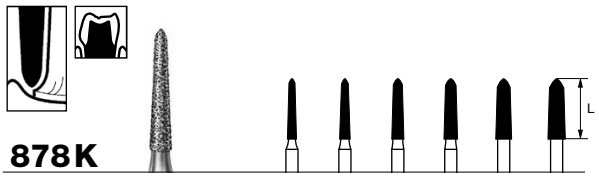
878



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

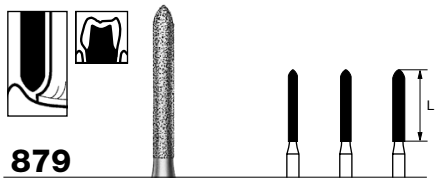
878K



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

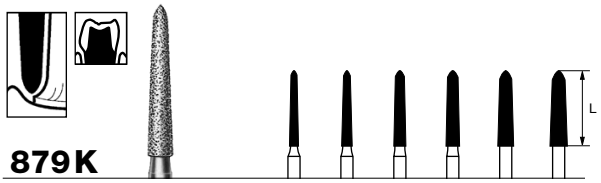
879



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

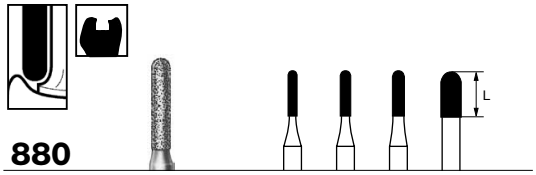
879K



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**

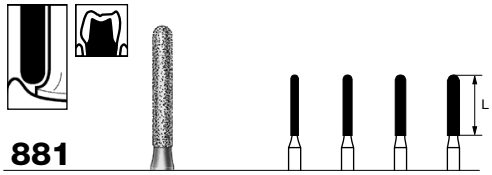
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹
016 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹
021 = max. 300 000 min⁻¹
023 = max. 300 000 min⁻¹

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

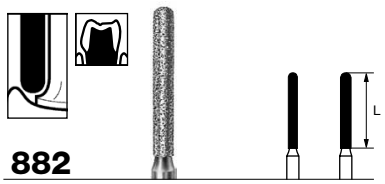
L mm		6,0	6,0	6,0	6,0
REF	**880**				
ISO	806.**104**.140.524…			**016**	**027**
	806.**314**.140.524…	**012**	**014**	**016**	
	880 G				
	806.**314**.140.534…	**012**	**014**		
	880 F				
	806.**314**.140.514…	**012**			



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**

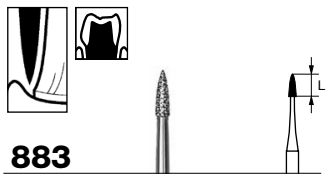
010 = max. 160 000 min⁻¹
012 = max. 300 000 min⁻¹



882

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

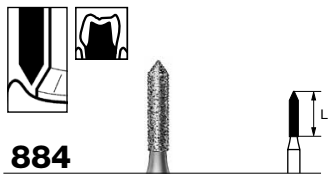
012 = max. 300 000 min⁻¹
014 = max. 300 000 min⁻¹



883

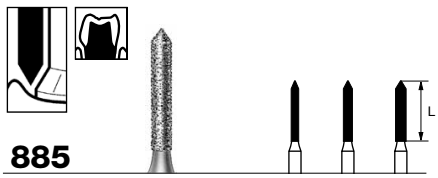
L mm		3,0
REF	**883 G**	
ISO	806.**314**.539.534…	**010**

010 = max. 300 000 min⁻¹



884

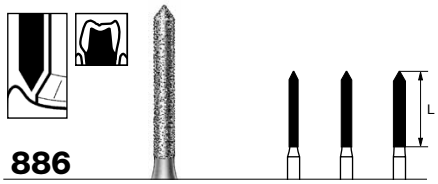
L mm		6,0
REF	**884**	
ISO	806.**314**.129.524…	**012**
	884 G	
	806.**314**.129.534…	**012**
	884 F	
	806.**314**.129.514…	**012**



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



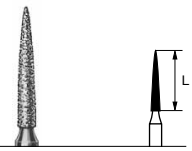
886

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	–	=	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

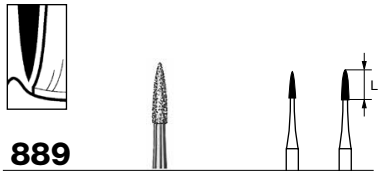
888



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**

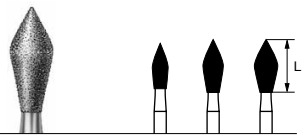
009 = max. 300 000 min⁻¹
010 = max. 300 000 min⁻¹

898

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

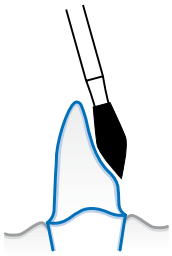
016 = max. 300 000 min⁻¹

899

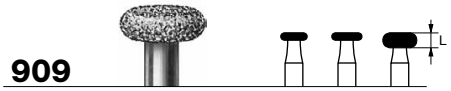


L mm		6,5	7,0	7,0
REF	**899**			
ISO	806.**314**.033.524…	**021**	**027**	**031**
	899 F			
	806.**314**.033.514…	**021**	**027**	

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

NEW

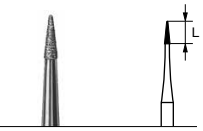
L mm		4,0
REF	**972 C**	
ISO	806.**314**.XXX.504…	**020**

973

NEW

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**

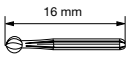
957

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

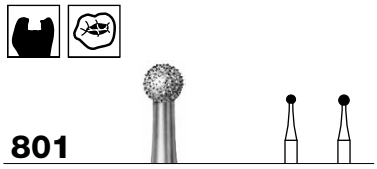
U	=	ISO 494	White ring · *weißer Ring*	ultra-fine · *ultrafein*	10 µm		
C	=	ISO 504	Yellow ring · *gelber Ring*	extra-fine · *extrafein*	25 µm		
F	=	ISO 514	Red ring · *roter Ring*	fine · *fein*	46 µm		
–	=	ISO 524	without ring · *ohne Ring*	medium · *mittel*	105–120 µm		
G	=	ISO 534	Green ring · *grüner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

Diamond Instruments FG short
Diamantinstrumente FG kurz

313 · FG short · *FG kurz*

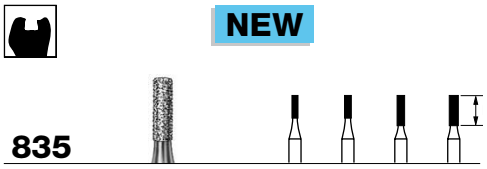


Ø 1,60 mm



801

REF	**801**			
ISO	806.**313**.001.524…	**012**	**014**	
	801 G			
	806.**313**.001.534…		**014**	



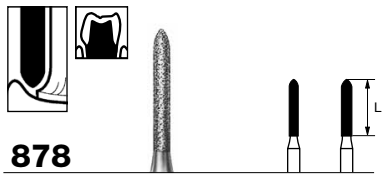
NEW

835

L mm		3,0	3,0	4,0	4,0
REF	**835**				
ISO	806.**313**.107.524…	**008**	**009**	**010**	**012**

856

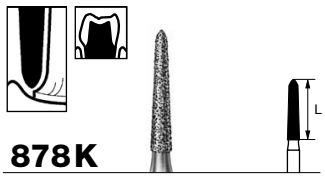
L mm		8,0	8,0
REF	**856 G**		
ISO	806.**313**.198.534…	**016**	**018**



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}

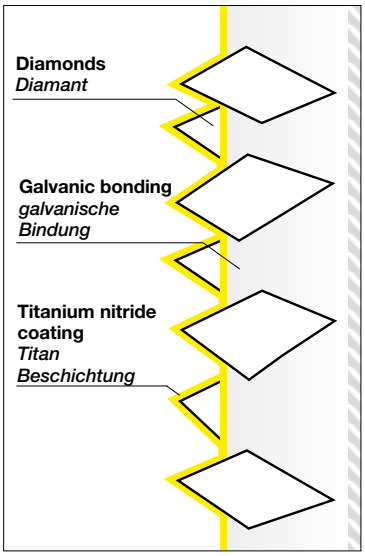


878K

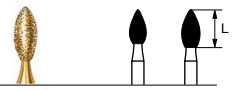
L mm			8,0
REF	**878K**		
ISO	806.**313**.298.524…	**012**	**016**

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

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**

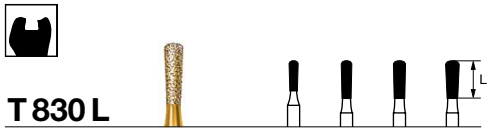
T 379

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.**....534...	**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**

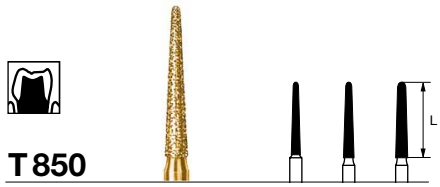
T 848

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	–	= ISO 524 Blue ring · *blauer 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

T 850

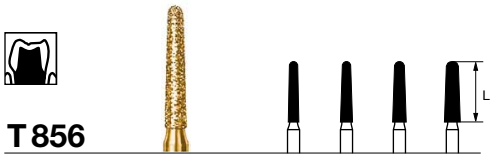


L mm			10,0	10,0	10,0
REF		**T 850**			
ISO		806.**314.**....524...	**012**	**014**	
		T 850 G			
		806.**314.**....534...	**012**	**014**	**016**
		T 850 F			
		806.**314.**....514...	**012**		

T 855

L mm			7,0
REF		**T 855**	
ISO		806.**314.**....524...	**025**
		T 855 G	
		806.**314.**....534...	**025**

T 856

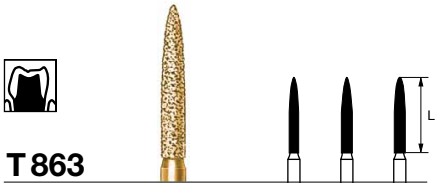


L mm			8,0	8,0	8,0	8,0
REF		**T 856**				
ISO		806.**314.**....524...		**016**	**018**	
		T 856 G				
		806.**314.**....534...	**014**	**016**	**018**	**021**

T 862

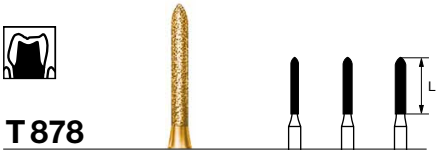
L mm			8,0	8,0
REF		**T 862 G**		
ISO		806.**314.**....534...	**012**	**014**
		T 862 F		
		806.**314.**....514...	**012**	

T 863



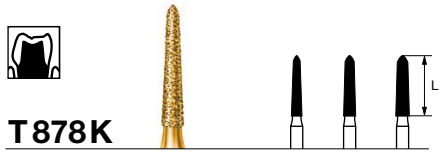
L mm			10,0	10,0	10,0
REF		**T 863 G**			
ISO		806.**314.**....534...	**012**	**014**	**016**
		T 863 F			
		806.**314.**....514...	**012**	**014**	**016**

T 878



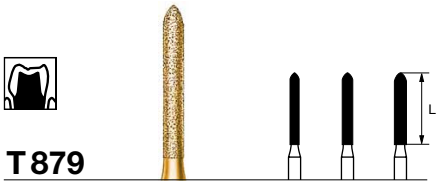
L mm			8,0	8,0	8,0
REF		**T 878**			
ISO		806.**314.**....524...		**012**	**014**
		T 878 G			
		806.**314.**....534...	**010**	**012**	**014**
		T 878 F			
		806.**314.**....514...			**014**

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**

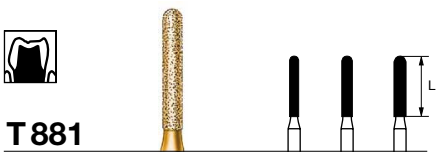
T 879 K

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 Blue ring · *blauer 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

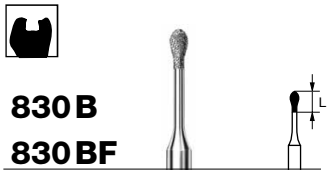
*Ausräumung von minimal unterminierender Karies im Bereich der Fissuren mit der Birnenform **830RB**.009*

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*

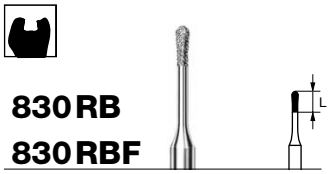
⑤ Aesthetic and anatomically perfect composite restoration

Ästhetisch und anatomisch natürlich wirkende Composite-Restaurationen



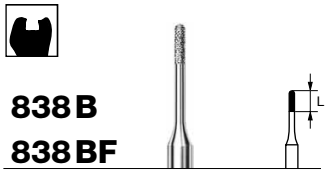
830B
830BF

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



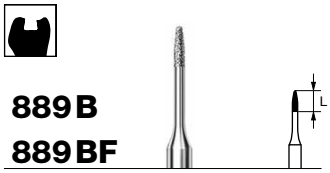
830RB
830RBF

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



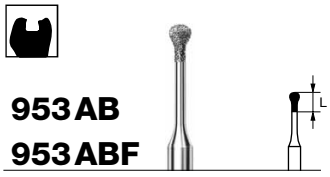
838B
838BF

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



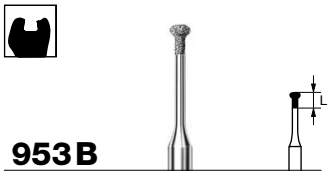
889B
889BF

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**



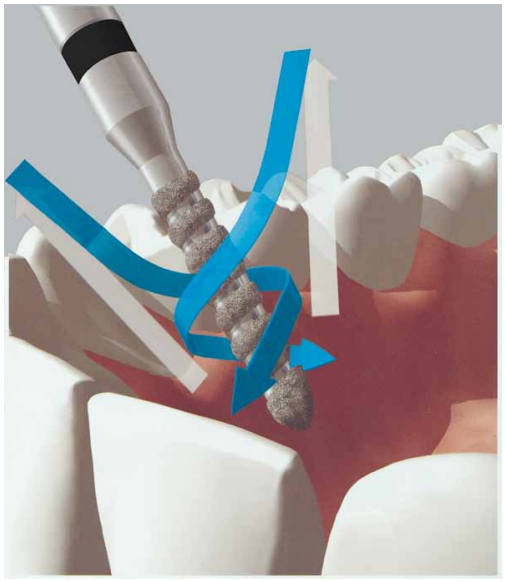
953B

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

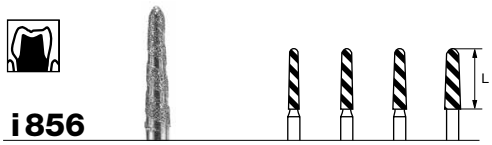
L mm	10,0	10,0
REF ■ i850 SG		
ISO 806.**314.** … .544…	**016**	**018**

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

i855

L mm	6,0	6,0
REF ■ i855 SG		
ISO 806.**314.** … .544…	**016**	**021**

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

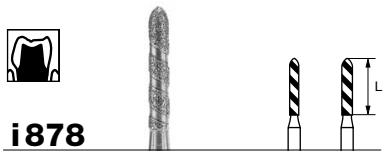
L mm	8,0
REF ■ i862 SG	
ISO 806.**314.** … .544…	**014**

i863

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

014 = max. 300 000 min⁻¹

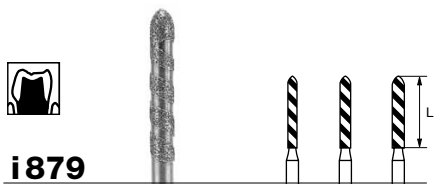
i878



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**

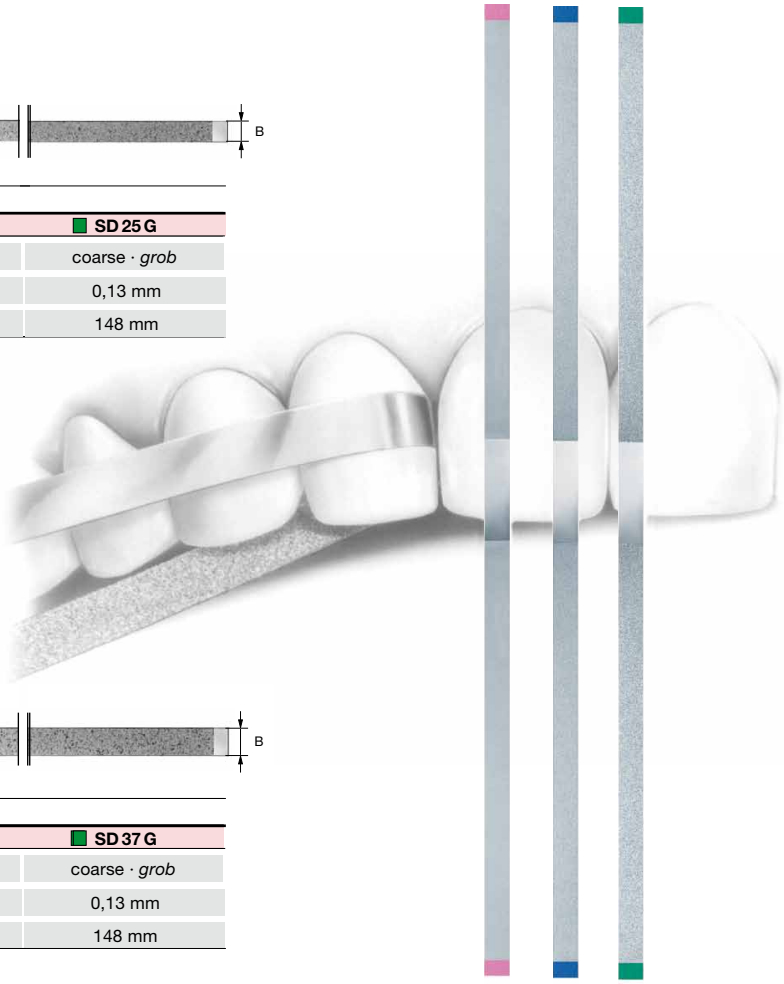
U	= □	ISO 494	White ring · *weißer Ring*	ultra-fine · *ultrafein*	10 µm	– =	ISO 524 without ring · *ohne Ring*	medium · *mittel*	105–120 µm
C	= ■	ISO 504	Yellow ring · *gelber Ring*	extra-fine · *extrafein*	25 µm	G = ■	ISO 534 Green ring · *grüner Ring*	coarse · *grob*	126–150 µm
F	= ■	ISO 514	Red ring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

Diamond Finishing Strips
Diamantstreifen

SD 25 F
SD 25 M
SD 25 G

B mm 2,5

REF	SD 25 F	SD 25 M	SD 25 G
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



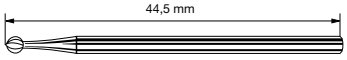
SD 37 F
SD 37 M
SD 37 G

B mm 3,7

REF	SD 37 F	SD 37 M	SD 37 G
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

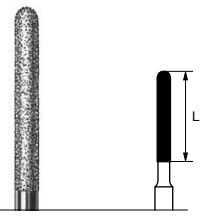
Diamond tools for laboratory application
Diamantwerkzeuge für das Dentallabor

104 · Handpiece · *Handstück*



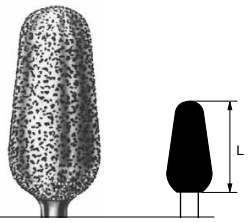
Ø 2,35 mm

842 R



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

896



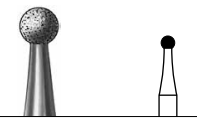
L mm	12,0
REF **896**	
ISO 806.**104**.260.524…	**060**

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

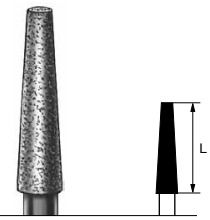
L mm	0,9	1,5
REF 7805		
ISO 807.**104**.014.524…	**018**	**029**
76805		
807.**104**.014.534…	**018**	**029**

7818

L mm	0,5
REF 7818	
ISO 807.**104**.041.524…	**080**

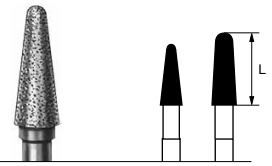
080 = max. 35 000 min⁻¹

7848



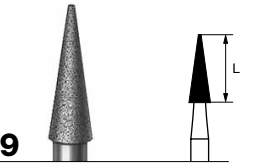
L mm	12,0
REF 7848	
ISO 807.**104**.174.524…	**029**

7856
76856



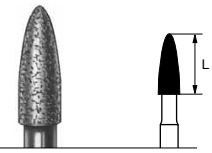
L mm	8,0	9,5
REF 7856		
ISO 807.**104**.198.524…	**029**	
76856		
807.**104**.198.534…		**033**

76859



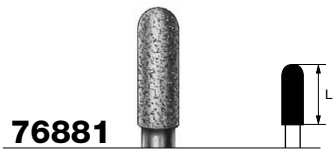
L mm	9,0
REF 76859	
ISO 807.**104**.166.534…	**029**

7862



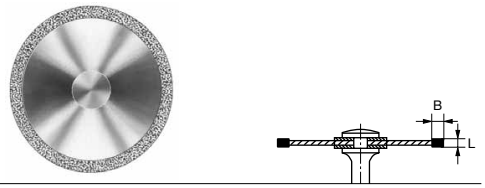
L mm	8,0
REF 7862	
ISO 807.**104**.243.524…	**029**

76881



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

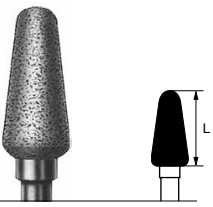
942F



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

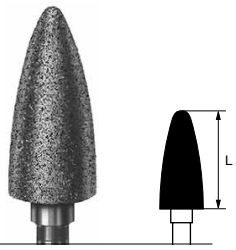
76351



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

050 = max. 50 000 min⁻¹

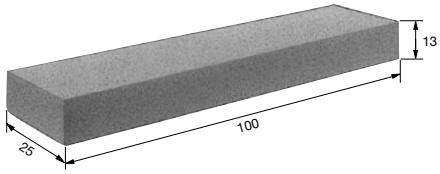
76251



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

060 = max. 50 000 min⁻¹

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

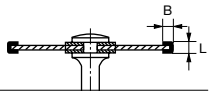
Diamond disc with continuous diamond-coated periphery and round perforations
- good vision

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

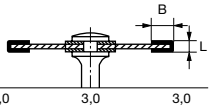
Diamond discs with continuous diamond-coated periphery

Diamantscheiben mit durchgehendem kreisrunden Umfangsprofil

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

for ceramics
- initial separating and contouring

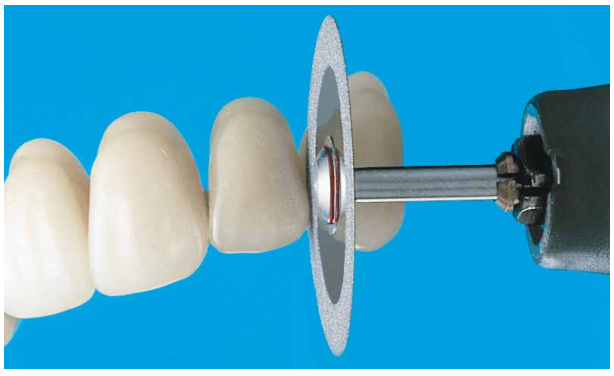
für Keramik
- *zum Vorseparieren und Konturieren*



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

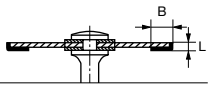
Diamond discs with continuous diamond-coated periphery

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

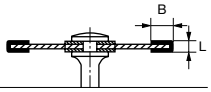
Diamond discs with oval perforations
- **good vision**
- **optimal flexibility**

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

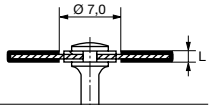
Diamond discs
coated on both sides

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*



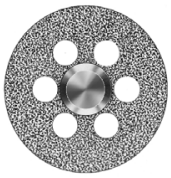
918BF

REF		918BF	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

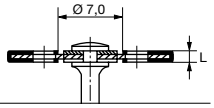
Diamantscheiben
beidseitig belegt
vorn oder hinten schleifend
mit kreisrunden Perforationen



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

for ceramics
- rough grinding and separating
- contouring

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



918PB

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

220 = max. 20 000 min⁻¹

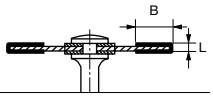
Diamond discs with serrations
with a special angle for working on ceramics
These serrations assure
- minimal heat generation
- optimal chip removal
- high cutting efficiency

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*



937F

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

200 = max. 20 000 min⁻¹

clockwise rotation only · *nur rechtsdrehend einsetzen*

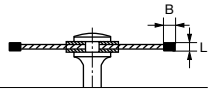
Diamond disc with continuos diamond-interspersed periphery

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*



942F

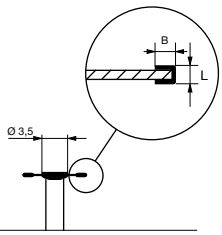
B mm			2,0	2,0	2,0
REF		942F		fine · fein	
ISO	L mm 0,17	806.**104**.395.514…	**140**	**200**	**220**

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

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

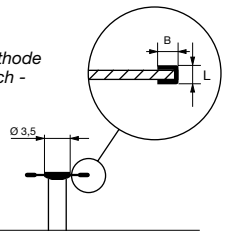
B mm				1,0	1,0
REF	943 C			extra fine · extrafein	
ISO	L mm 0,15	806.**104**.361.504…	065	080	100
	L mm 0,15	806.**204**.361.504…		080	100

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	0,5
REF	943 CH			medium · mittel	
ISO	L mm 0,29	806.**204**.361.524…	065	080	

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

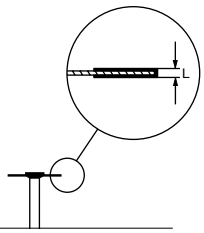
Miniature diamond discs for working on ceramics
- due to the small diameter the risk of exposure of the framework is reduced to a minimum
- for trimming acrylate and veneer work as well as temporary appliances without separating the material

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

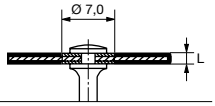
Diamond disc
with slots featuring a special angle

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

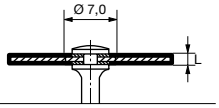
Diamond disc with curved perforations
- for avoiding grinding facets
- good vision
- improved flexibility
- for contouring and separating of ceramic veneers

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

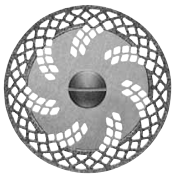
REF				
	983 C		extra fine · extrafein	
ISO	L mm 0,10	806.**104**.401.504…	**220**	

220 = max. 20 000 min⁻¹

clockwise rotation only · *nur rechtsdrehend einsetzen*

Spiral Reinforced Meshed Disc

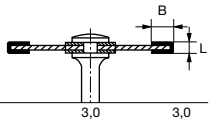
Spiralverstärkte Netzscheibe



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

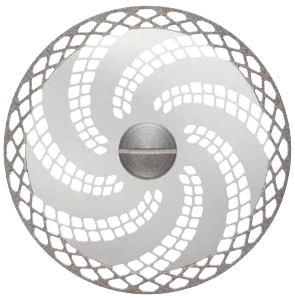
B mm 3,0 3,0

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

180/220 = max. 20 000 min⁻¹

Spiral Reinforced Meshed Disc

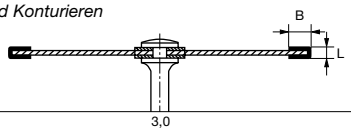
Spiralverstärkte Netzscheibe



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 31

Pear
Birne 32

Cylinder round
Zylinder rund 32, 33

Tapered round
Konisch rund 32, 33

Inverted cone
Umgekehrter Kegel 31

Cylinder
Zylinder 32, 33

Tapered
Konisch 32, 33

Cylinder, end cutting only
Zylinder, Stirn schneidend 33

Crown Cutters | *Kronentrenner*

Cylinder round
Zylinder rund 34 + 35

Tapered round
Konisch rund 34

Amalgam Remover | *Amalgamentferner*

Cylinder round
Zylinder rund 35

Adhesive Remover | *Klebstoffentferner*

Cylinder round
Zylinder rund 35

Finishing Instructions | *Finierer*

Round
Rund 36

Flame
Flamme 36

Tapered round
Konisch rund 37

Egg
Ei 38

B Finishing Instructions
B Finierer 40

Bud
Knospe 36

Pointed
Spitz 36–37

Torpedo
Torpedo 37–38

Grenade
Granate 38

Pear
Birne 36

Needle-shaped
Nadelform 37

Torpedo tapered
Torpedo konisch 37–38

DF Finishing Instruments
DF Finierer 39

Surgical Instruments | *Chirurgische Instrumente*

Round
Rund 41 – 42

Tapered
Konisch 41

Bone Cutter
Knochenfräser 43

Cylinder
Zylinder 41

Tapered round
Konisch rund 41

Tungsten Carbide Cutters | *Hartmetallfräser*

44 – 58

Auxiliaries | *Zubehör*

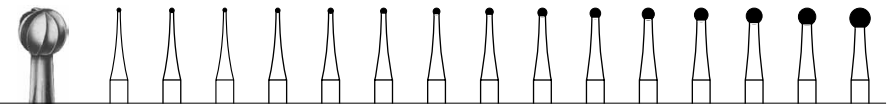
58

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

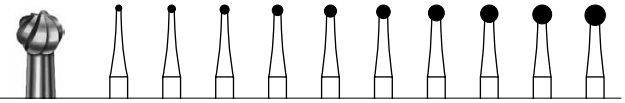
CB 1



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**	

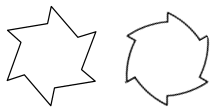
021 = max. 300 000 min^{-1} 023 = max. 300 000 min^{-1}

CB 1 S



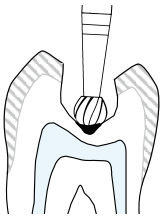
REF	**CB 1 S**										
ISO	500.**104**.001.003…		**010**		**014**		**018**		**023**		
	500.**204**.001.003…	**008**	**010**	**012**	**014**	**016**	**018**	**021**	**023**	**025**	**027**
	500.**205**.001.003…		**010**		**014**		**018**		**023**		**027**
	500.**314**.001.003…	**008**	**010**	**012**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

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



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

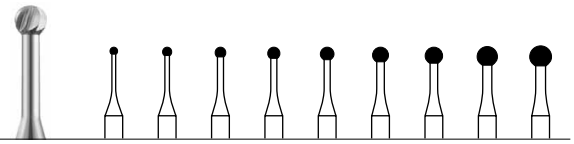
Cross-section of the **CB1SX** Querschnitt **CB1SX**



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

NEW

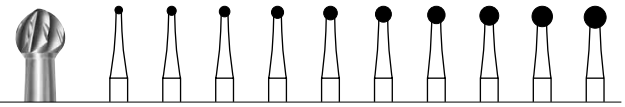
CB 1 SN



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**		

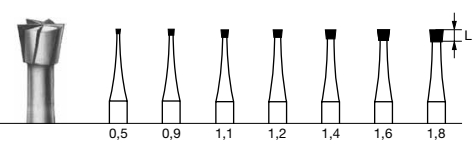
max. 100 000 min^{-1}

CB 1 SX



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

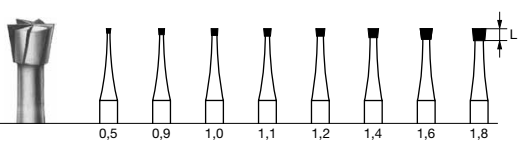
CB 2



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**

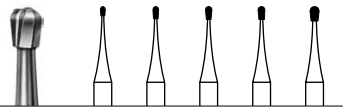
Laboratory
Labor

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

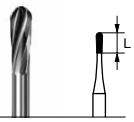


L mm	1,2	1,6	1,7	1,7	1,8
US No.	329	330	–	331	332
REF **CB 7**					
ISO 500.**204**.232.001…		**008**		**010**	
500.**314**.232.001…	**006**	**008**	**009**	**010**	**012**

CB 7 L

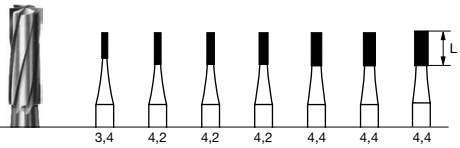
L mm	3,8	4,2
US No.	331L	332L
REF **CB 7L**		
ISO 500.**314**.234.006…	**010**	**012**

CB 7 SM



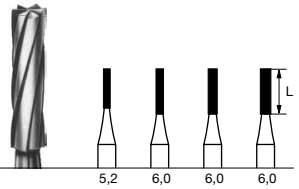
L mm	2,7
REF **CB 7SM**	
ISO 500.**314**.XXX. …	**009**

CB 21



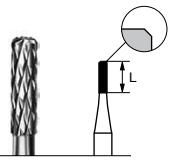
L mm	3,4	4,2	4,2	4,2	4,4	4,4	4,4
US No.	55	56	57	58	59		
REF **CB 21**							
ISO 500.**104**.107.006…	**008**	**009**	**010**	**012**	**014**	**016**	**018**
500.**204**.107.006…			**010**	**012**			
500.**314**.107.006…	**008**	**009**	**010**	**012**	**014**		

CB 21 L



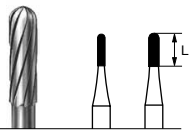
L mm	5,2	6,0	6,0	6,0
US No.	56L	57L	58L	59L
REF **CB 21L**				
ISO 500.**104**.110.006…	**009**	**010**	**012**	**014**
500.**314**.110.006…		**010**	**012**	**014**

CB 21 MX



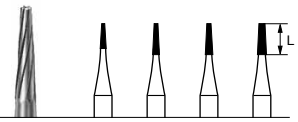
L mm	4,2
US No.	558E
REF **CB 21 MX**	
ISO 500.**104**.107.019…	**012**

CB 21 R



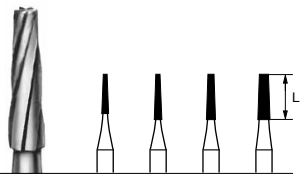
L mm	4,2	4,2
US No.	1157	1159
REF **CB 21R**		
ISO 500.**104**.137.006…	**010**	**014**
500.**314**.137.006…	**010**	**014**

CB 23



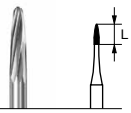
L mm	3,4	4,2	4,2	4,2
US No.	168	169	170	171
REF **CB 23**				
ISO 500.**104**.168.006…	**008**		**010**	**012**
500.**314**.168.006…		**009**	**010**	**012**

CB 23 L



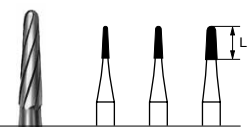
L mm	5,2	6,0	6,0	6,0
US No.	169L	170L	171L	172L
REF **CB 23L**				
ISO 500.**104**.171.006…	**009**	**010**	**012**	
500.**314**.171.006…	**009**	**010**	**012**	**016**

CB 249 M



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

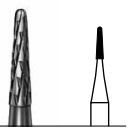
CB 23 R



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**

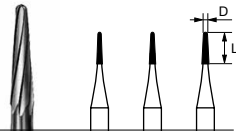
CB 23 RMX

NEW



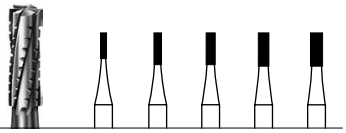
L mm	4,2
REF **CB 23RMX**	
ISO 500.**104**.196.019…	**010**

CB 23 RS



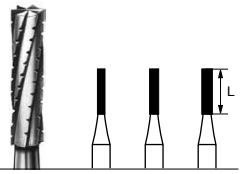
L mm	4,2	4,2	4,2
REF **CB 23RS**			
ISO 500.**104**.196.006…	**008**	**009**	**010**
500.**314**.196.006…		**009**	

CB 31



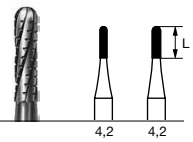
L mm		3,4	4,2	4,2	4,4	4,4
US No.		555	557	558	559	560
REF **CB 31**						
ISO	500.**104**.107.007…	**008**	**010**	**012**	**014**	**016**
	500.**204**.107.007…		**010**	**012**		
	500.**314**.107.007…	**008**	**010**	**012**	**014**	

CB 31 L



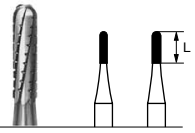
L mm		6,0	6,0	6,0
US No.		557 L	558 L	
REF **CB 31 L**				
ISO	500.**104**.110.007…	**010**	**012**	**014**
	500.**314**.110.007…	**010**	**012**	

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**

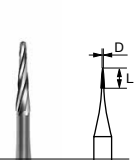
CB 31 RS



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

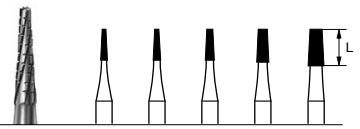
Laboratory
Labor

CB 349



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

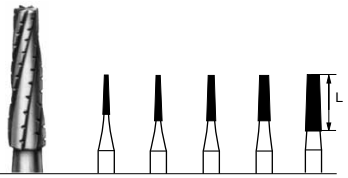
CB 33



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**

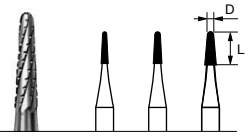
021 = max. 300 000 min⁻¹

CB 33 L



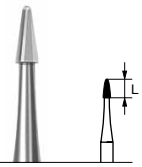
L mm		5,2	6,0	6,0	6,0	
US No.		699 L	700 L	701 L	702 L	
REF **CB 33 L**						
ISO	500.**104**.171.007…	**009**	**010**	**012**	**016**	**021**
	500.**314**.171.007…	**009**	**010**	**012**		

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**

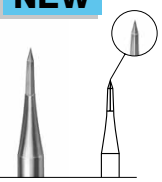
CB 59



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

NEW

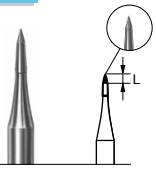
CB 97



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

NEW

CB 99

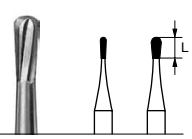


L mm		1,2
REF **CB 99**		
ISO	500.**104**.162.384…	**008**
	500.**314**.162.384…	**008**

CB 207

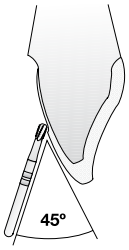
US No.		957
REF **CB 207**		
ISO	500.**314**.150.001…	**010**

CB 245



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

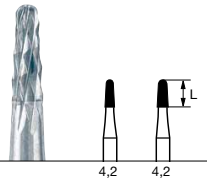
Crown Cutter
Kronentrenner



The All-Rounder · *Das Multitalent*

Multifunctional

CB 5 TR



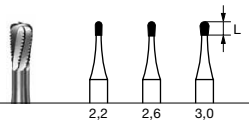
L mm	4,2	4,2

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



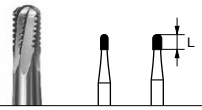
L mm	2,2	2,6	3,0

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

gold-colored instruments
goldfarbene Instrumente

Turbo

CB 34



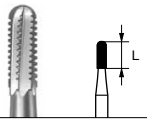
L mm	2,0	2,0

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

gold-colored instruments
goldfarbene Instrumente

Turbo-L

CB 34 L



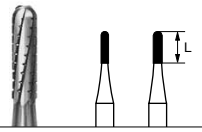
L mm	3,5

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

gold-colored instruments
goldfarbene Instrumente

Economic

CB 35 C



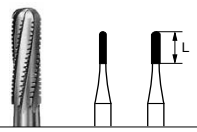
L mm	4,2	4,2

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

Disposable Crown Cutter

Kronentrenner für Einmalgebrauch

100461

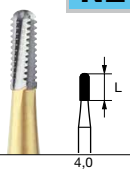
Contents · *Inhalt*

REF		CB31RS
ISO	500.**314**	137.292 012
		100

Crown Cutter
Kronentrenner

NEW

Aggressiv



CB 40 AG

L mm	4,0

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

NEW

Also available as a set.
Auch als Set erhältlich.

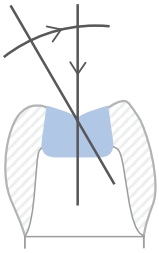
100494

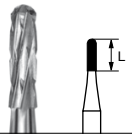
Contents · *Inhalt*

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

100494

Amalgam Remover
Amalgamentferner





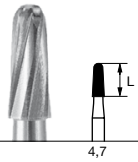
CB 21 RMX

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



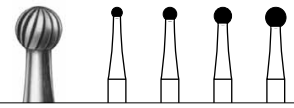
CB 27

L mm	4,7

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

Finishing Instruments
Finierer

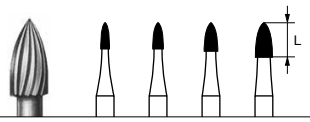
CF 41



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

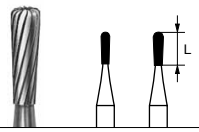
CF 46



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**

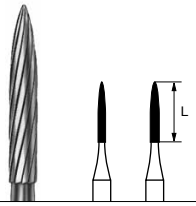
023 = max. 300 000 min⁻¹

CF 47 L



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

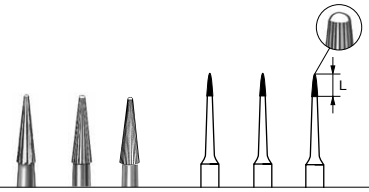
CF 48 L



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

= max. 300 000 min⁻¹

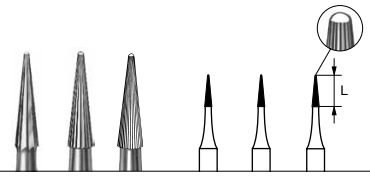
CF 132
CF 132 F
CF 132 UF



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**

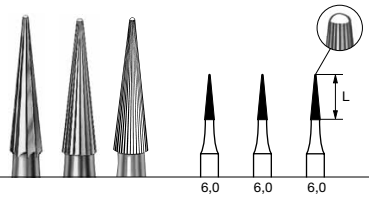
008 = max. 300 000 min⁻¹

CF 133
CF 133 F
CF 133 UF



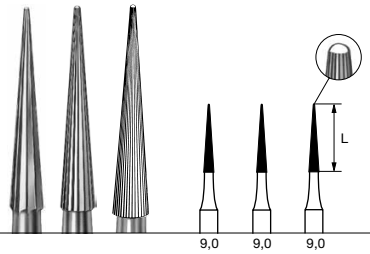
L mm		4,2	4,2	4,2
Blades · Schneiden		8	16	30
REF	**CF 133**			
ISO	500.**314**.159.071…	**010**		
☐	**CF 133 F** fine · fein			
	500.**314**.159.041…		**010**	
☐	**CF 133 UF** ultra-fine · ultrafein			
	500.**314**.159.031…			**010**

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**

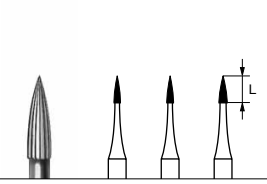
CF 135
CF 135 F
CF 135 UF



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

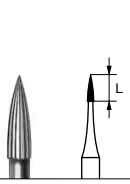
CF 246



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**

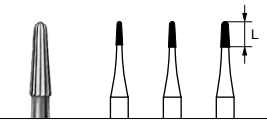
CF 246 UF



L mm	3,6

REF	☐ CF 246 UF	ultra-fine · ultrafein
ISO	500.**314**.496.031…	**009**

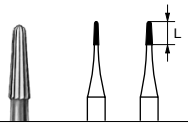
CF 247



L mm	3,2	3,4	3,4
US No.	7801	7802	7803

REF	CF 247		
ISO	500.**314**.195.071…	**009**	**010**	**012**

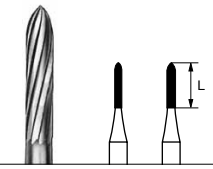
CF 247 F



L mm	3,2	3,2

REF	■ CF 247 F	fine · fein
ISO	500.**314**.195.041…	**007**	**009**

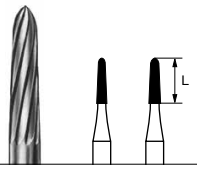
CF 282



L mm	6,0	6,0

REF	CF 282		
ISO	500.**314**.288.072…	**010**	**012**

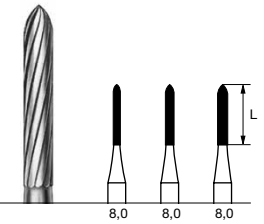
CF 282 K



L mm	6,0	6,0

REF	CF 282 K		
ISO	500.**204**.297.072…	**014**	**016**
	500.**314**.297.072…	**014**	

CF 283

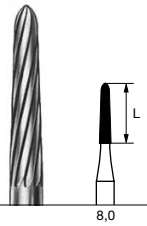


L mm	8,0	8,0	8,0

REF	CF 283			
ISO	500.**204**.289.072…		**012**	
	500.**314**.289.072…	**010**	**012**	**014**

010–014 = ↻ max. 300 000 min⁻¹

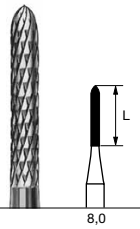
CF 283 K



L mm	8,0

REF	CF 283 K	
ISO	500.**204**.298.072…	**016**
	500.**314**.298.072…	**016**

CF 283 MX

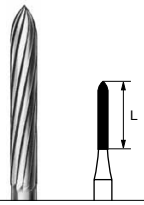


L mm	8,0

REF	CF 283 MX	
ISO	500.**104**.289.080…	**012**
ISO	500.**314**.289.080…	**012**

012 = ↻ max. 300 000 min⁻¹

CF 284

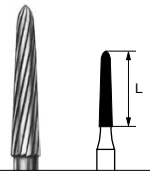


L mm	10,0

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

014 = max. 300 000 min⁻¹

CF 284 K

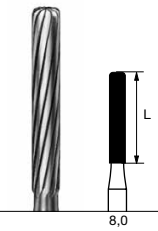


L mm	10,0

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

018 = max. 300 000 min⁻¹

CF 297

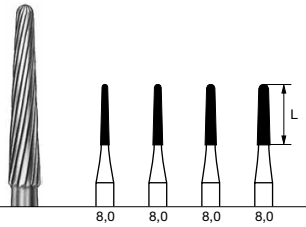


L mm	8,0

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

012 = max. 300 000 min⁻¹

CF 375 R

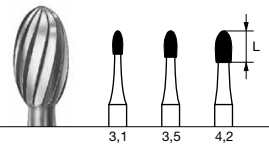


L mm	8,0	8,0	8,0	8,0
US No.	7653	7664	7675	7686

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

012–014 = max. 300 000 min⁻¹

CF 379

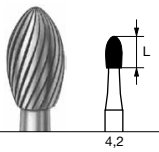


L mm	3,1	3,5	4,2
US No.	7404	7406	7408

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

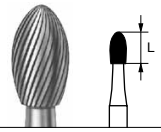


L mm	4,2

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

023 = max. 300 000 min⁻¹

CF 379 UF

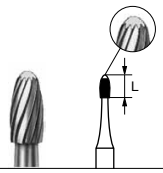


L mm	4,2

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

023 = max. 300 000 min⁻¹

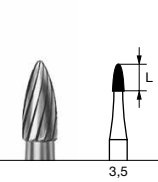
CF 379 GK



L mm	3,1

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

CF 390

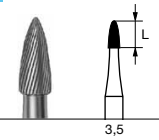


L mm	3,5

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

NEW

CF 390 UF



L mm	3,5

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

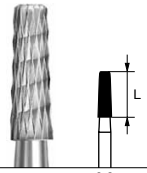
DF Finishing Instruments
DF Finierer

NEW

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*

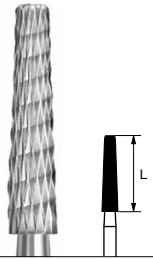
CF 216 DF



L mm	6,0

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

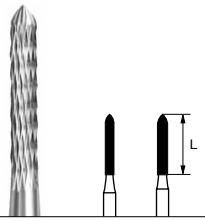
CF 217 DF



L mm	10,0

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

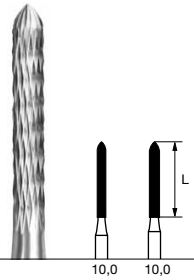
CF 283 DF



L mm	8,0	8,0

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

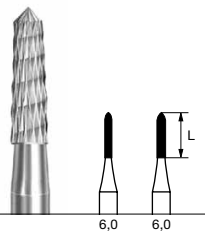
CF 284 DF



L mm	10,0	10,0

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

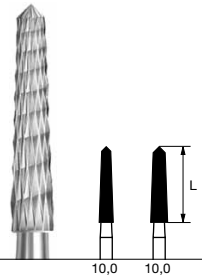
CF 340 DF



L mm	6,0	6,0

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

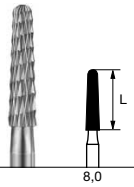
CF 341 DF



L mm	10,0	10,0

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

CF 375 RDF



L mm	8,0

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

B Finishing Instruments
B Finierer

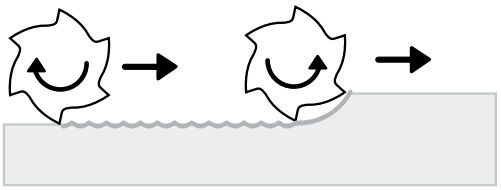
NEW

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.*

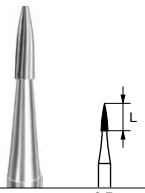


CF 48 LB

L mm	8,0

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

max. 300 000 min⁻¹

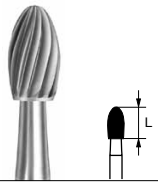


CF 246 B

L mm	3,7

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

max. 300 000 min⁻¹



CF 379 B

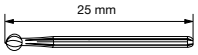
L mm	4,2

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

max. 300 000 min⁻¹

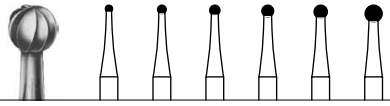
Surgical Instruments
Chirurgische Instrumente

316 · FG extra-long · *FG extra lang*



Ø 1,60 mm

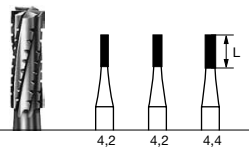
CB 1



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

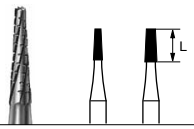
CB 31



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

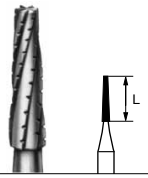
CB 33



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

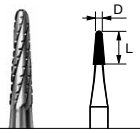
CB 33 L



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

010 = max. 300 000 min⁻¹

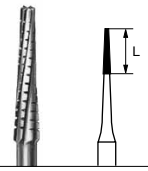
CB 33 R



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

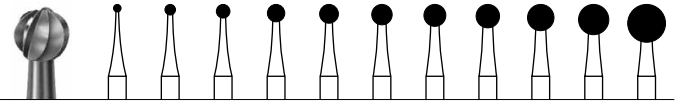


L mm	6,0
US No.	700xL
REF	**CB 254**
ISO	500.**314**.415.296…	**010**
	500.**316**.415.296…	**010**

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

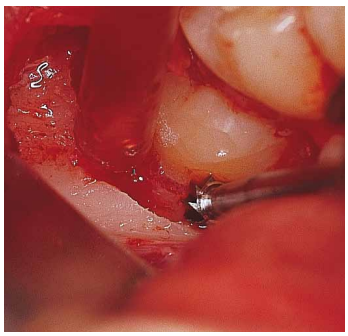
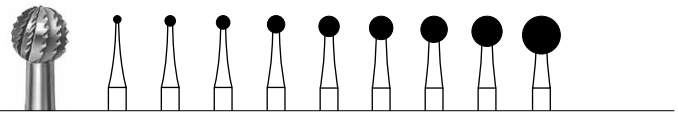


Photo: Dr. Fürstenau, Detmold, Germany

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…	**010**	**014**	**018**	**023**	**027**	**031**	**035**	**040**	
	500.**206**.001.298…	**010**	**014**	**018**	**023**	**027**	**031**			

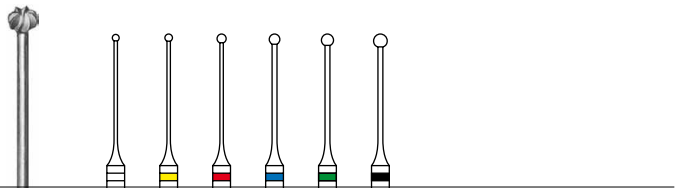
max. 100 000 min⁻¹ 040 = max. 80 000 min⁻¹ 050 = max. 60 000 min⁻¹

Photo: Dr. Fürstenau, Detmold, Germany

Endodontics
Endodontie

NEW

191

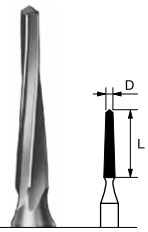


REF	191						
ISO	500.**104**.XXX.XXX…		**100**			**160**	
	500.**204**.XXX.XXX…	**090**	**100**	**120**	**140**	**160**	**180**

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

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

Bone Cutters
Knochenfräser

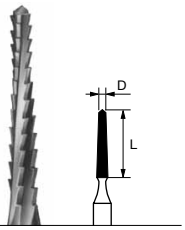


CB 161

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

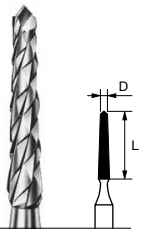


CB 162

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

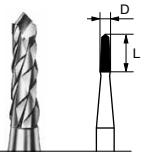


CB 162A

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

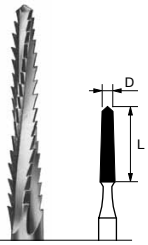


CB 163A

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

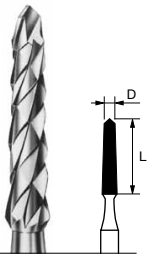


CB 166

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

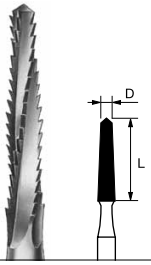


CB 166A

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

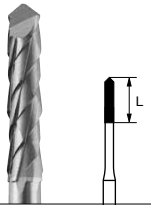


CB 167

L mm	11,0
D Ø	016

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

max. 100 000 min⁻¹



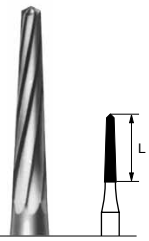
CB 255A

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

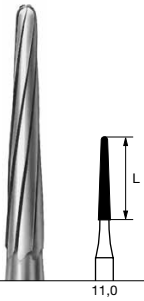


CB 267

L mm	9,0

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

max. 160 000 min⁻¹

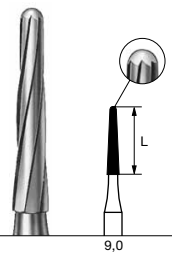


CB 269

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** *Prothesenkunststoffe*	opt. 15000			**Conventional** Trimming · *Ausarbeiten* **Page** · *Seite* **45, 46** **AX**
	**Dry plaster / Model plaster** *Trockene Gipse / Modelle*	opt. 10000			**CX** **Page** · *Seite* **46** Bulk reduction *Grober Abtrag*
	**Wet plaster / Model plaster** *Feuchte Gipse / Modelle*	opt. 10000			**SCX/A** **Page** · *Seite* **46** Bulk reduction *Grober Abtrag*
	**Precious metals / Non-precious metal alloys** *Edelmetalle / NEM*	opt. 12000* –25000*			**DX** **Page** · *Seite* **47** Roughening *Aufrauen*
	**Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics** *NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe*	opt. 15000* –25000*			**FX** **Page** · *Seite* **48, 49** Corrections · smoothing *Korrekturen · Glätten*
	**Titanium** *Titan*	opt. 15000*			**FTX** **Page** · *Seite* **50** Finishing *Finieren*
	**Titanium / Non-precious metal alloys** *Titan / Nicht-Edelmetalle*	opt. 15000*			**GTX** **Page** · *Seite* **51** Cutting *Zerspanen*
	**Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics** *NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe*	opt. 15000* –25000*			**MX** **Page** · *Seite* **52, 53** Trimming · smoothing *Ausarbeiten · Glätten*
	**Soft relinings / Denture acrylics / Non-precious metal alloys / Precious metal alloys / Model cast alloys / Veneer acrylics** *Weichbleibende Unterfütterungen / Prothesenkunststoffe / NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe*	opt. 15000*			**QFX** **Page** · *Seite* **54** Trimming · contouring *Ausarbeiten · Konturieren*
	**Soft acrylics / Temporary appliances** *Softkunststoffe / Provisorien*	opt. 15000			**QX** **Page** · *Seite* **55** Trimming · smoothing *Ausarbeiten · Glätten*
	**Hard non-precious metal alloys** *Harte NEM-Legierungen*	opt. 15000			**TX** **Page** · *Seite* **56** Trimming · contouring *Ausarbeiten · Konturieren*
	**Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics / Soft ceramics** *NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe / Softkeramik*	opt. 15000* –25000*			**VFX** **Page** · *Seite* **57, 58** Trimming · smoothing *Ausarbeiten · Glätten*

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

Conventional Cutters
Normalverzahnung

Veneer acrylics
Prothesenkunststoffe

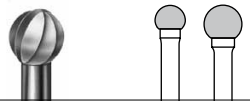
opt. 15,000 rpm

Conventional

Trimming
Ausarbeiten

→ CB 1

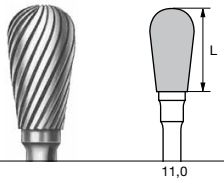
CC 71



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

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

CC 77

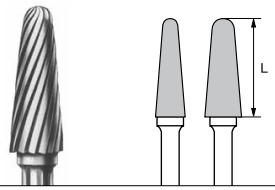


L mm 11,0

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

060 = max. 50 000 min⁻¹

CC 79

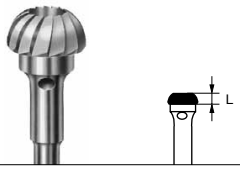


L mm 13,0 13,0

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

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

CC 98

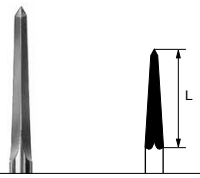


L mm 1,6

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

060 = max. 100 000 min⁻¹

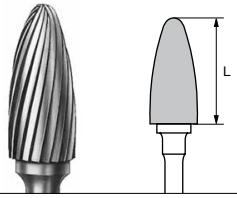
CC 219



L mm 13,0

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

CC 251

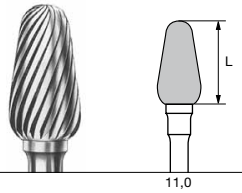


L mm 14,0

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

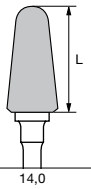
AX Cutters
AX Verzahnung

Acrylic Denture Basis
acrylics
Prothesenkunststoffe

opt. 15,000 rpm

AX

Trimming
Ausarbeiten

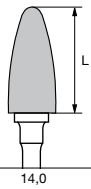


CC 79 AX

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

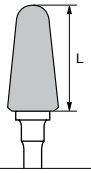
Bulk reduction
Grober Abtrag

Wet plaster
Model plaster
Feuchte Gipse
Modelle

opt. 10,000 rpm

SCX

Bulk reduction
Grober Abtrag

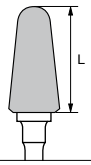


CC 79 CX

L mm 14,0

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

max. 30 000 min⁻¹

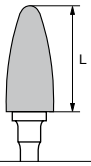


CC 79 SCX

L mm 14,0

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

max. 30 000 min⁻¹

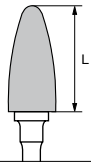


CC 251 CX

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

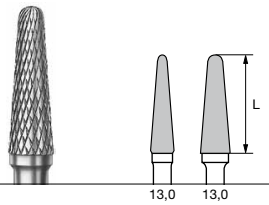
Roughening
Aufrauen

CC 73 DX

L mm

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

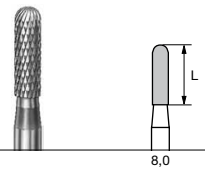
CC 79 DX



L mm

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

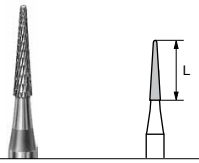
CC 129 DX



L mm

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

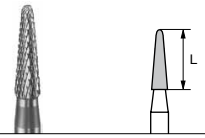
CC 136 DX



L mm

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

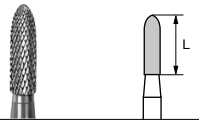
CC 138 DX



L mm

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

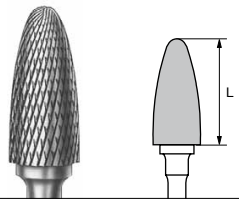
CC 139 DX



L mm

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

CC 251 DX

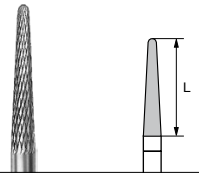


L mm

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

max. 50 000 min^{-1}

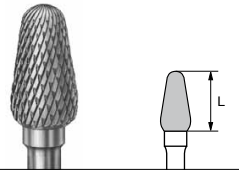
CC 261 DX



L mm

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

CC 351 DX



L mm

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

FX Cutters
FX Verzahnung

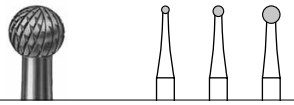
Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics
NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe

opt. 15,000 rpm – 25,000 rpm

FX

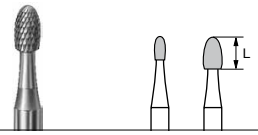
Corrections · smoothing
Korrekturen · Glätten

CC 71 FX



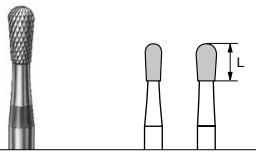
REF	CC 71 FX			
ISO	500.**104**.001.140…	**010**	**014**	**023**

CC 73 FX



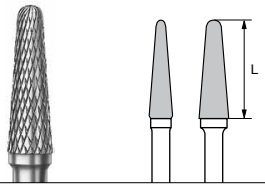
L mm		3,1	4,2
REF	CC 73 FX		
ISO	500.**104**.277.140…	**014**	**023**

CC 77 FX



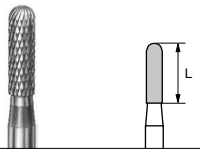
L mm		5,0	5,0
REF	CC 77 FX		
ISO	500.**104**.237.140…	**023**	**029**

CC 79 FX



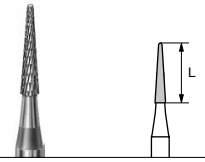
L mm		13,0	13,0
REF	CC 79 FX		
ISO	500.**104**.194.140…	**031**	**040**

CC 129 FX



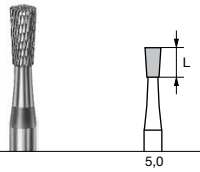
L mm		8,0
REF	CC 129 FX	
ISO	500.**104**.141.140…	**023**

CC 136 FX



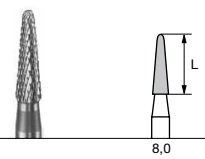
L mm		8,0
REF	CC 136 FX	
ISO	500.**104**.184.140…	**016**

CC 137 FX



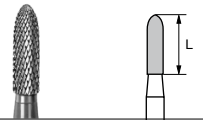
L mm		5,0
REF	CC 137 FX	
ISO	500.**104**.225.140…	**023**

CC 138 FX



L mm		8,0
REF	CC 138 FX	
ISO	500.**104**.198.140…	**023**

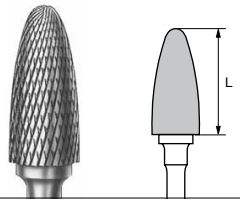
CC 139 FX



L mm 8,0

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

CC 251 FX

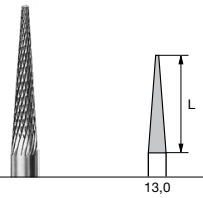


L mm 14,0

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

max. 50 000 min^{-1}

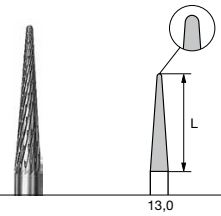
CC 257 FX



L mm 13,0

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

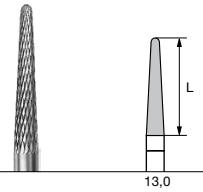
CC 257 R FX



L mm 13,0

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

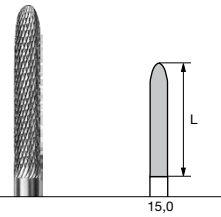
CC 261 FX



L mm 13,0

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

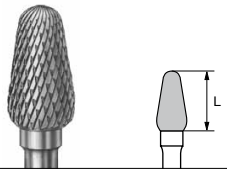
CC 295 FX



L mm 15,0

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

CC 351 FX

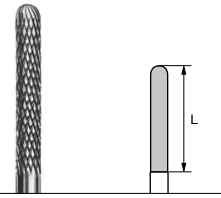


L mm 8,0

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**

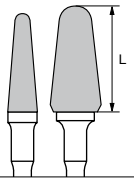
FTX Cutters
FTX Verzahnung

NEW

Titanium
Titan

FTX
Finishing
Finieren

CC 79 FTX

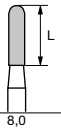


L mm

REF	CC 79 FTX		
ISO	500.**104**.194.137…	**040**	**070**

max. 100 000 min^{-1}
070 = max. 30 000 min^{-1}

CC 129 FTX

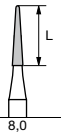


L mm

REF	CC 129 FTX	
ISO	500.**104**.141.137…	**023**

max. 100 000 min^{-1}

CC 136 FTX

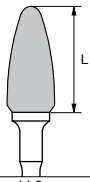


L mm

REF	CC 136 FTX	
ISO	500.**104**.184.137…	**016**

max. 100 000 min^{-1}

CC 251 FTX

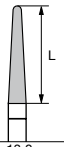


L mm

REF	CC 251 FTX	
ISO	500.**104**.274.137…	**060**

max. 50 000 min^{-1}

CC 261 FTX



L mm

REF	CC 261 FTX	
ISO	500.**104**.194.137…	**023**

max. 100 000 min^{-1}

GTX Cutters NEW
GTX Verzahnung

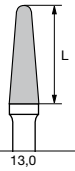
Titanium / Non-precious metal alloys
Titan / Nicht-Edelmetalle

opt. 15,000 rpm

GTX ■

Zerspanen
Cutting

CC 79 GTX

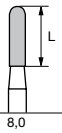


L mm 13,0

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

max. 100 000 min⁻¹

CC 129 GTX

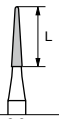


L mm 8,0

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

max. 100 000 min⁻¹

CC 136 GTX

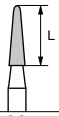


L mm 8,0

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

max. 100 000 min⁻¹

CC 138 GTX

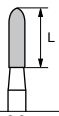


L mm 8,0

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

max. 100 000 min⁻¹

CC 139 GTX

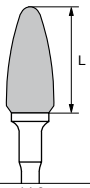


L mm 8,0

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

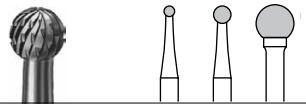
Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics
NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe

opt. 15,000 rpm – 25,000 rpm

MX

Trimming · smoothing
Ausarbeiten · Glätten

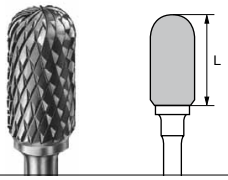
CC 71 MX



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

050 = max. 80 000 min⁻¹

CC 72 MX

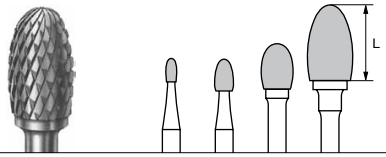


L mm: 12,0

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

max. 50 000 min⁻¹

CC 73 MX

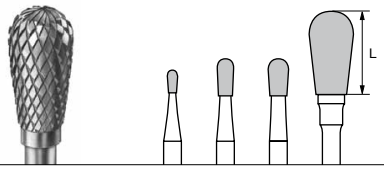


L mm: 3,1 | 4,2 | 6,0 | 10,0

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

060 = max. 50 000 min⁻¹

CC 77 MX

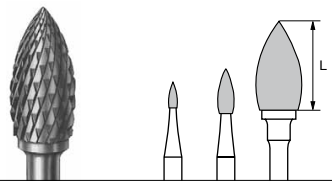


L mm: 2,9 | 5,0 | 5,0 | 11,0

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

060 = max. 50 000 min⁻¹

CC 78 MX

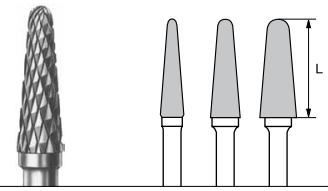


L mm: 3,5 | 6,0 | 12,0

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

060 = max. 50 000 min⁻¹

CC 79 MX

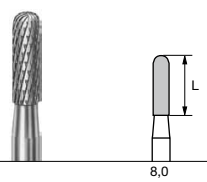


L mm: 13,0 | 13,0 | 13,0

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

050 = max. 80 000 min⁻¹

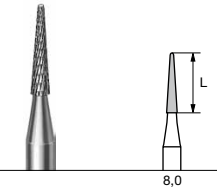
CC 129 MX



L mm: 8,0

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

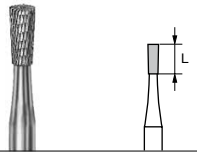
CC 136 MX



L mm: 8,0

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

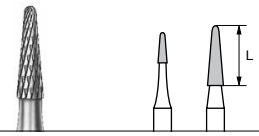
CC 137 MX



L mm
4,0

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

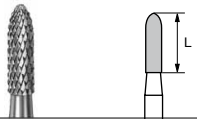
CC 138 MX



L mm
4,0 8,0

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

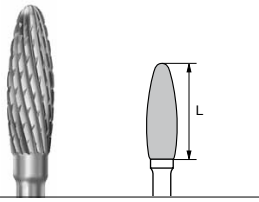
CC 139 MX



L mm
8,0

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

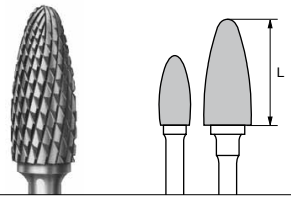
CC 250 MX



L mm
12,7

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

CC 251 MX

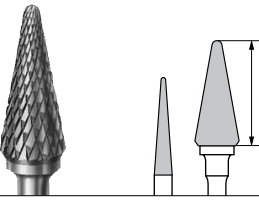


L mm
9,0 14,0

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

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

CC 257 R MX

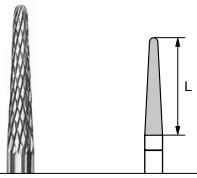


L mm
13,0 14,0

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

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

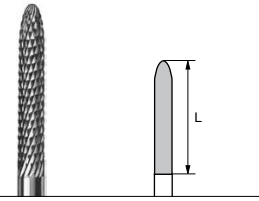
CC 261 MX



L mm
13,0

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

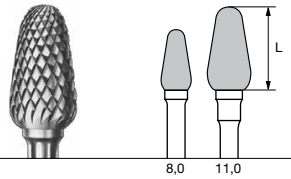
CC 295 MX



L mm
15,0

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

CC 351 MX

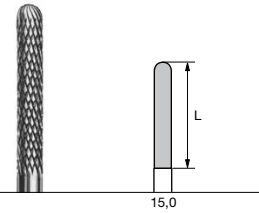


L mm
8,0 11,0

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

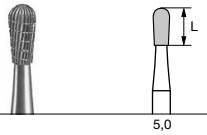
Soft relinings / Denture acrylics / Non-precious metal alloys / Precious metal alloys / Model cast alloys / Veneer acrylics
Weichbleibende Unterfütterungen / Verblend-/Prothesenkunststoffe / NEM-/EM-/Modellgusslegierungen

opt. 15,000 rpm

QFX

Trimming · contouring
Ausarbeiten · Konturieren

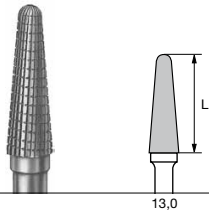
CC 77 QFX



L mm: 5,0

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

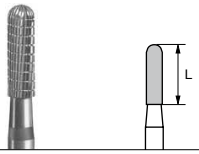
CC 79 QFX



L mm: 13,0

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

CC 129 QFX

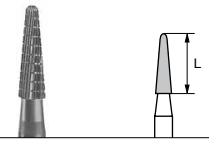


L mm: 8,0

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

max. 100 000 min^{-1}

CC 138 QFX

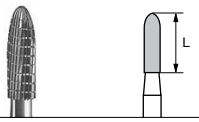


L mm: 8,0

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

max. 100 000 min^{-1}

CC 139 QFX

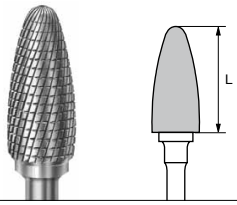


L mm: 8,0

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

max. 100 000 min^{-1}

CC 251 QFX

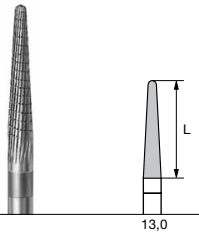


L mm: 14,0

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

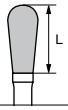
Soft acrylics / Temporary appliances
Softkunststoffe / Provisorien

opt. 15,000 rpm

QX

Trimming · smoothing
Ausarbeiten · Glätten

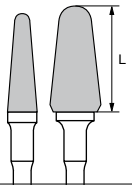
CC 77 QX



L mm 9,0

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

CC 79 QX

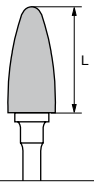


L mm 14,0 14,0

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

max. 30 000 min⁻¹

CC 251 QX

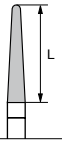


L mm 14,0

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

max. 50 000 min⁻¹

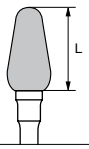
CC 261 QX



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

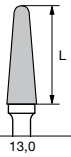
Hard non-precious metal alloys
Harte NEM-Legierungen

opt. 15,000 rpm

TX

Trimming · contouring
Ausarbeiten · Konturieren

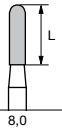
CC 79 TX



L mm 13,0

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

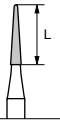
CC 129 TX



L mm 8,0

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

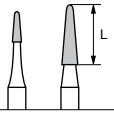
CC 136 TX



L mm 8,0

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

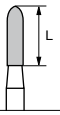
CC 138 TX



L mm 4,0 8,0

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

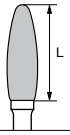
CC 139 TX



L mm 8,0

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

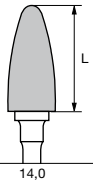
CC 250 TX



L mm 12,7

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

CC 251 TX

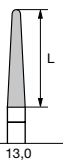


L mm 14,0

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

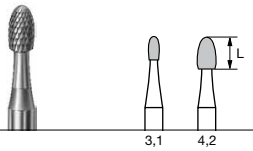
Non-precious metal alloys / Precious metals / Model cast Veneer acrylics/Soft ceramics
NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe / Softkeramik

opt. 15,000 rpm – 25,000 rpm

VFX

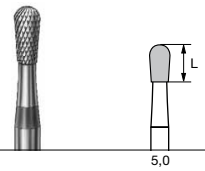
Trimming · smoothing
Ausarbeiten · Glätten

CC 73 VFX



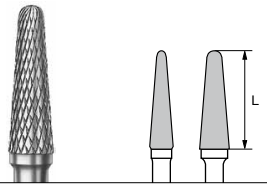
L mm	3,1	4,2
REF CC 73 VFX		
ISO 500.**104**.277.110…	**014**	**023**

CC 77 VFX



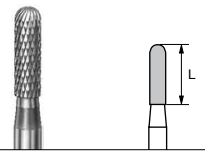
L mm	5,0
REF CC 77 VFX	
ISO 500.**104**.237.110…	**029**

CC 79 VFX



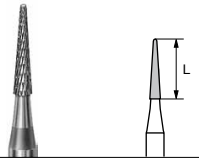
L mm	13,0	13,0
REF CC 79 VFX		
ISO 500.**104**.194.110…	**031**	**040**

CC 129 VFX



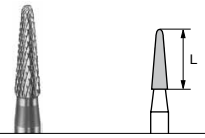
L mm	8,0
REF CC 129 VFX	
ISO 500.**104**.141.110…	**023**

CC 136 VFX



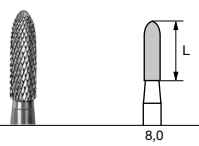
L mm	8,0
REF CC 136 VFX	
ISO 500.**104**.184.110…	**016**

CC 138 VFX



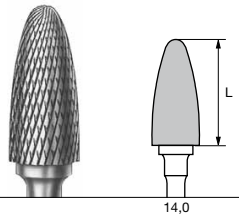
L mm	8,0
REF CC 138 VFX	
ISO 500.**104**.198.110…	**023**

CC 139 VFX



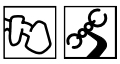
L mm	8,0
REF CC 139 VFX	
ISO 500.**104**.289.110…	**023**

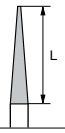
CC 251 VFX



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

max. 50 000 min⁻¹

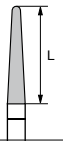




CC 257 VFX

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

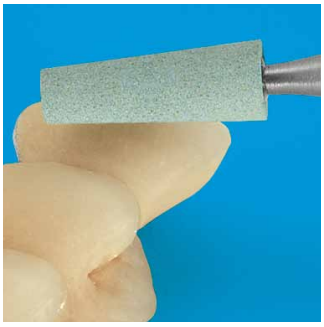
Diamond-Grinder
Diamant-Schleifer

Effective abrasive for universal grinding

Effektive Schleifer zum universellen Beschleifen

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

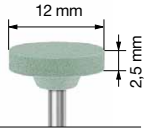
REF	**751 M**	
ISO	**…104…**	**065**

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}

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	**P 9666 C**			
ISO	**…204…**	**030**		
	…314…	**030**		
	P 9662 M			
	…204…		**030**	
	…314…		**030**	
	P 9663 VF			
	…204…			**030**
	…314…			**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. 5 000 – 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. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

100440 **Composite Polishing Kit**

P 9478 C

L mm 9,0 10,0

REF	P 9478 C	
ISO	658.**204**…	**070**
	658.**314**…	**060**

opt. 6000 – max. 15000 min^{-1}

P 9479 C

L mm 10,0

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

opt. 6000 – max. 15000 min^{-1}

P 9480 C

L mm 1,5

REF	P 9480 C	
ISO	658.**204**…	**100**

opt. 6000 – max. 15000 min^{-1}

P 9481 C

L mm 7,0

REF	P 9481 C	
ISO	658.**314**…	**030**

opt. 6000 – max. 15000 min^{-1}

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

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

P 9490 Y

L mm 6,5

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

opt. 5000 – max. 10000 min^{-1}

P 9491 Y

L mm 10,0

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

opt. 5000 – max. 10000 min^{-1}

P 9492 Y

L mm 15,0

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

opt. 5000 – max. 10000 min^{-1}

P 9493 Y

L mm 9,0

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

opt. 5000 – max. 10000 min^{-1}

P 9494 Y

L mm 8,0

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

opt. 5000 – max. 10000 min^{-1}

GB **Polishers for Composite (ecoline)**

D *Composite-Polierer (ecoline)*

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**		
	…314…	**030**		
	P 9419 M			
	…204…		**030**	
	…314…		**030**	
	P 9547 F			
	…204…			**030**
	…314…			**030**

opt. 5 000 – 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. 5 000 – 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. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

100441 **Ceramic Polishing Kit**

P 9545 C
P 9545 M
P 9545 F

L mm		2,0	2,0	2,0
REF	**P 9545 C**			
ISO	**…104…**	**110**		
	P 9545 M			
	…104…		**110**	
	P 9545 F			
	…104…			**110**
	…204…			**110**

opt. 5 000 – 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. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

(GB) **Diamond polishers for ceramics**

- for trimming, polishing and high-shine polishing of ceramic and metal alloys

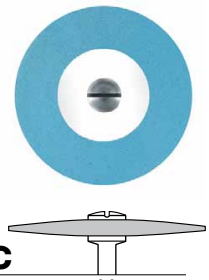
(D) *Diamant-Polierer für Keramik*

- *zum Ausarbeiten, Glätten und Hochglanzpolieren von Keramik und Metall*

P 9546 C
P 9546 M
P 9546 F

L mm		1,0	1,0	1,0
REF	**P 9546 C**			
ISO	**…104…**	**190**		
	P 9546 M			
	…104…		**190**	
	P 9546 F			
	…104…			**190**

opt. 5 000 – max. 10 000 min^{-1}



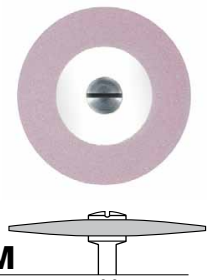
P 9690 C

L mm 2,0

REF	P 9690 C	
ISO	…**104**…	**260**

Lenticular · *Linse*

opt. 5 000 – max. 10 000 min^{-1}



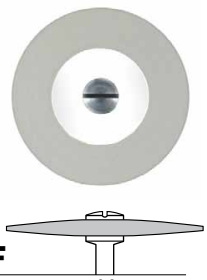
P 9691 M

L mm 2,0

REF	P 9691 M	
ISO	…**104**…	**260**

Lenticular · *Linse*

opt. 5 000 – max. 10 000 min^{-1}



P 9692 F

L mm 2,0

REF	P 9692 F	
ISO	…**104**…	**260**

Lenticular · *Linse*

opt. 5 000 – max. 10 000 min^{-1}

(GB) **Diamond polishers for ceramics interspersed with diamond grit**

- for trimming, polishing and high-shine polishing of ceramic and metal alloys

(D) *Diamant-Polierer*

- *zum Ausarbeiten, Glätten und Hochglanzpolieren von Keramik und Metall*

(GB) **Polishers for ceramics (ecoline)**

- for pre-polishing (light-grey), fine polishing (pink) and high-shine polishing (grey) of ceramic materials

(D) *Keramikpolierer (ecoline)*

- *zum Vorpolieren (hellgrau), Nachpolieren (rosa) und Hochglanzpolieren (grau) von Keramik*

P 9537 M
P 9541 F
P 9541 EF

L mm 3,5 3,5 3,5

REF	P 9537 M		
ISO	658.**900**.303.525…	**220**	
	P 9541 F		
	658.**900**.303.515…		**220**
	P 9541 EF		
	… .**900**. …		**220**

opt. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

P 9598 M
P 9600 F
P 9600 EF

L mm 3,0 3,0 3,0

REF	P 9598 M		
ISO	658.**900**.372.525…	**220**	
	P 9600 F		
	658.**900**.372.515…		**220**
	P 9600 EF		
	… .**900**. …		**220**

opt. 5 000 – max. 10 000 min^{-1}

P 9679 M
P 9680 F

L mm 4,0 4,0

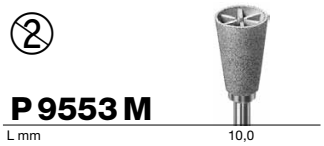
REF	P 9679 M		
ISO	… .**204**. …	**050**	
	P 9680 F		
	… .**204**. …		**050**

opt. 5 000 – max. 10 000 min^{-1}

Prophylaxe Polishers
Prophylaxepolierer

(GB) **Laminated white polishers**
- for plaque removal

(D) *Weiße Polierer mit Lamellen*
- *zum Entfernen von Zahnbelag*

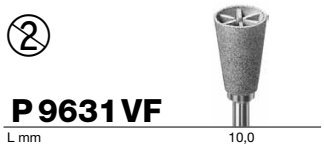


P 9553 M

L mm 10,0

REF	**P 9553 M**
ISO	658.**204**.034.523… **060**

opt. 5 000 – max. 6 000 min^{-1}



P 9631 VF

L mm 10,0

REF	**P 9631 VF**
ISO	…**204**… **060**

opt. 5 000 – max. 6 000 min^{-1}

P 9645

REF	**P 9645**
ISO	…**204**… **060**

opt. 5 000 – max. 6 000 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

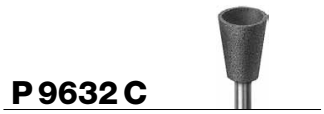
REF	**P 9670**
ISO	658.**204**… **050**

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. 5 000 – max. 10 000 min^{-1}

P 9643 C

L mm 6,5

REF	**P 9643 C**
ISO	658.**204**.243.533… **030**

opt. 5 000 – max. 10 000 min^{-1}

P 9633 C

L mm 10,0

REF	**P 9633 C**
ISO	658.**204**.243.533… **050**

opt. 5 000 – max. 10 000 min^{-1}

(GB) **Black amalgam polishers**
- for pre-polishing amalgam

(D) *Schwarze Amalgam-Polierer*
- *zum Vorpolieren von Amalgam*

Metal Polishers
Metallpolierer

GB High-efficiency polishers
- for pre-polishing (brown) and fine polishing (green) of metal alloys

D 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. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

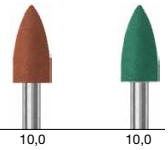
P 9611 M
P 9621 F

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. 5 000 – max. 10 000 min^{-1}

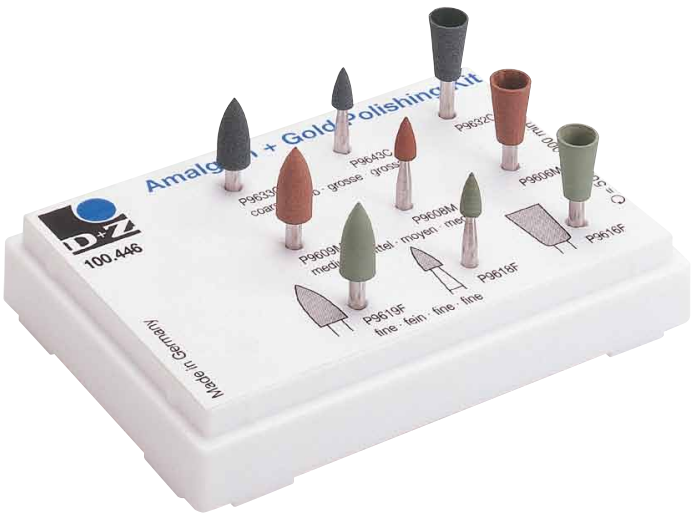
P 9609 M
P 9619 F



L mm	10,0	10,0

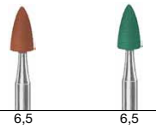
REF	P 9609 M	
ISO	658.**204**.243.513…	**050**
	P 9619 F	
	658.**204**.243.503…	**050**

opt. 5 000 – 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. 5 000 – 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. 5 000 – 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. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

GB Occlusal polishers
- for metal alloys

D *Kauflächenpolierer*
- *für Metall-Legierungen*

P 9634 M

L mm 22,0

REF	P 9634 M
ISO	618.**000**.114.534… **030**

opt. 10 000 – max. 15 000 min^{-1}

P 9661 C

L mm 22,0

REF	P 9661 C
ISO	658.**000**.114.534… **030**

opt. 10 000 – max. 15 000 min^{-1}

P 9635 F

L mm 22,0

REF	P 9635 F
ISO	618.**000**.114.513… **030**

opt. 10 000 – max. 15 000 min^{-1}

P 9636 VF

L mm 22,0

REF	P 9636 VF
ISO	618.**000**114.503… **030**

opt. 10 000 – max. 15 000 min^{-1}

P 9646 M

L mm 20,0

REF	P 9646 M
ISO	658.**000**.114.535… **020**

opt. 10 000 – max. 15 000 min^{-1}

P 9647 C

L mm 20,0

REF	P 9647 C
ISO	658.**000**.114.534… **020**

opt. 10 000 – max. 15 000 min^{-1}

P 9648 F

L mm 20,0

REF	P 9648 F
ISO	658.**000**.114.513… **020**

opt. 10 000 – max. 15 000 min^{-1}

P 9649 VF

L mm 20,0

REF	P 9649 VF
ISO	618.**000**.114.503… **020**

opt. 10 000 – max. 15 000 min^{-1}

P 9551 C

L mm 21,0

REF	P 9551 C
ISO	618.**900**.114.534… **070**

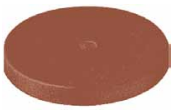
opt. 5 000 – max. 10 000 min^{-1}

P 9550 C

L mm 3,0

REF	P 9550 C
ISO	618.**900**.372.534… **220**

opt. 5 000 – max. 10 000 min^{-1}



P 9675 M

L mm 3,0

REF	P 9675 M
ISO	618.**900**.372.513… **220**

opt. 5 000 – max. 10 000 min^{-1}

P 9675 F

L mm 3,0

REF	P 9675 F
ISO	618.**900**.372.503… **220**

opt. 5 000 – 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

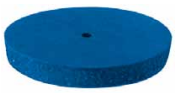
- *zum Vorpolieren, Glanz- und Hochglanzpolieren von Modellguss- und NEM-Legierungen*

P 9575 M

L mm 3,5

REF	P 9575 M
ISO	658.**900**.303.522… **220**

opt. 5 000 – max. 10 000 min^{-1}



P 9572 M

L mm 3,0

REF	P 9572 M
ISO	658.**900**.372.522… **220**

opt. 5 000 – max. 10 000 min^{-1}

GB Blue polishers

- for low-lustre polish of precious metal alloys

D Blaue Polierer

- *zur Mattglanzpolitur von Edelmetall-Legierungen*

P 9678 M

L mm 20,0

REF	P 9678 M
ISO	658.**900**.114.522… **070**

opt. 5 000 – max. 10 000 min^{-1}

P 9584 M

L mm 16,0 25,0

REF	P 9584 M	
ISO	658.**104**.292.522…	**050**
	658.**900**…	**060**

opt. 5 000 – max. 10 000 min^{-1}

Titanium Polishers
Titanpolierer

GB Titanium polishers
- for pre-polishing (grey) and fine polishing (purple) of titan alloys

D *Titanpolierer*
- *zum Vorpolieren (grau) und Feinpolieren (pink) von Titan-Legierungen*

P 9985 M

L mm	20,0
REF	P 9985 M
ISO	… .900. … 070

opt. 5 000 – max. 10 000 min^{-1}

P 9987 M

L mm	3,0
REF	P 9987 M
ISO	… .900. … 220

opt. 5 000 – max. 10 000 min^{-1}

P 9985 F

L mm	20,0
REF	P 9985 F
ISO	… .900. … 070

opt. 5 000 – max. 10 000 min^{-1}

P 9987 F

L mm	3,0
REF	P 9987 F
ISO	… .900. … 220

opt. 5 000 – max. 10 000 min^{-1}

GB Three-step titane polishers
- interspersed with diamond grit

D *3 Stufen Titanpolierer*
- *mit Diamantkorn durchsetzt*

P 9409 C
P 9409 M
P 9409 F

L mm	2,2	2,2	2,2
REF	P 9409 C		
ISO	658.900…	170	
	P 9409 M		
	658.900…		170
	P 9409 F		
	658.900…		170

opt. 5 000 – max. 10 000 min^{-1}

P 9409 C
P 9409 M
P 9409 F

L mm	3,0	3,0	3,0
REF	P 9409 C		
ISO	658.900…	220	
	P 9409 M		
	658.900…		220
	P 9409 F		
	658.900…		220

opt. 5 000 – max. 10 000 min^{-1}

P 9411 C
P 9411 M
P 9411 F

L mm	20,0	20,0	20,0
REF	P 9411 C		
ISO	658.900…	070	
	P 9411 M		
	658.900…		070
	P 9411 F		
	658.900…		070

opt. 5 000 – max. 10 000 min^{-1}

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. 5 000 – max. 10 000 min^{-1}

P 9630 C

L mm 20,0

REF	P 9630 C
ISO	658.**900**.114.523… **070**

opt. 5 000 – max. 10 000 min^{-1}

P 9554 C

L mm 3,0

REF	P 9554 C
ISO	658.**900**.372.523… **220**

opt. 5 000 – max. 10 000 min^{-1}

P 9555 M

L mm 8,0

REF	P 9555 M
ISO	658.**204**.030.523… **100**

opt. 5 000 – max. 10 000 min^{-1}

P 9556 M

L mm 2,5

REF	P 9556 M
ISO	658.**204**… **110**

opt. 5 000 – 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. 5 000 – max. 10 000 min^{-1}

P 9559 C

L mm 3,5

REF	P 9559 C
ISO	658.**900**… **180**

opt. 5 000 – max. 10 000 min^{-1}

P 9980 C

L mm 25,0

REF	P 9980 C
ISO	658.**900**… **060**

opt. 5 000 – 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. 5 000 – max. 7 000 min^{-1}

for shaping
zum Ausarbeiten

P 9641 M

L mm 25,0

REF	P 9641 M	
ISO	…104…	100

opt. 5 000 – max. 7 000 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. 5 000 – max. 7 000 min^{-1}

for high-shine polishing
zum Hochglanzpolieren

P 9604 C

L mm 20,0

REF	P 9604 C	
ISO	…104…	100

opt. 5 000 – max. 7 000 min^{-1}

P 9642 M

L mm 20,0

REF	P 9642 M	
ISO	…104…	100

opt. 5 000 – max. 7 000 min^{-1}

P 9674 F

L mm 20,0

REF	P 9674 F	
ISO	…104…	100

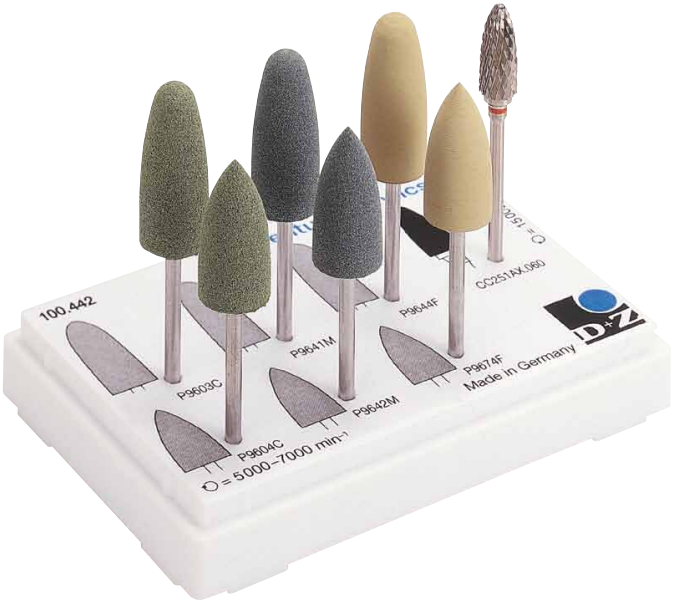
opt. 5 000 – max. 7 000 min^{-1}

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 9432 C

L mm 16,0

REF	P 9432 C	
ISO	…104…	055

opt. 5 000 – max. 7 000 min^{-1}

P 9424 M

L mm 16,0

REF	P 9424 M	
ISO	…104…	055

opt. 5 000 – max. 7 000 min^{-1}

P 9433 F

L mm 16,0

REF	P 9433 F	
ISO	…104…	055

opt. 5 000 – max. 7 000 min^{-1}

P 9984 C

L mm 18,0

REF	P 9984 C	
ISO	…104…	150

opt. 5 000 – max. 7 000 min^{-1}

P 9984 M

L mm 18,0

REF	P 9984 M	
ISO	…104…	150

opt. 5 000 – max. 7 000 min^{-1}

P 9984 F

L mm 18,0

REF	P 9984 F	
ISO	…104…	150

opt. 5 000 – max. 7 000 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}

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 9466 C
P 9466 M

L mm 18,0 18,0

REF	P 9466 C	
ISO	…104…	150
	P 9466 M	
	…104…	150

opt. 6 000 – max. 10 000 min^{-1}

Brushes
Bürsten

P 9628

REF	P 9628	
ISO	… .900. …	220

opt. 5 000 – max. 10 000 min^{-1}

Cotton mops

Baumwoll-Schwabbel

P 9638

REF	P 9638	
ISO	… .900. …	220

opt. 5 000 – max. 10 000 min^{-1}

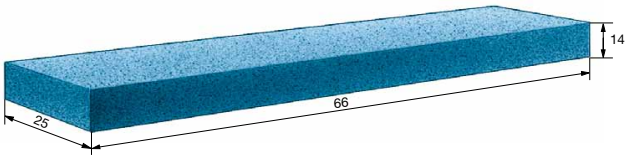
Brushes · natural bristles

Bürsten · Naturborsten

DP 93007

Diamond polishing paste 7 µm

Diamant Polierpaste



AS 20

REF	AS 20

Cleaning stone for diamonds I *Reinigungsstein für Diamanten*

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 309

REF	P 309
ISO	330.**204**.607.000

opt. 5 000 – max. 6 000 min^{-1}

«Snap-on» mandrel
«Snap-on» Träger

P 326

REF	P 326		
ISO	….**104**…	**020**	**030**

P 329

REF	P 329
ISO	330.**104**.610.417…

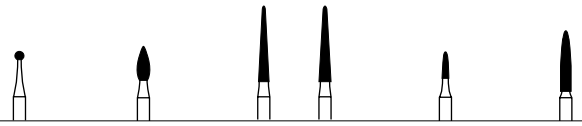
P 301 L

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**	001.504 012	257.504 016	166.504 014	166.504 016	245.504 009	249.504 014
		1	1	1	1	1	1

DTF set of instruments with extra-fine diamond grit

DTF-Satz in Diamant-Körnung extrafein

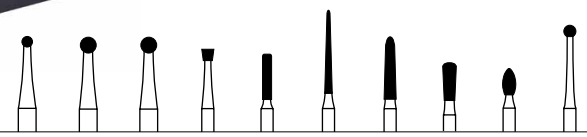
100404

Contents · *Inhalt*

REF		801C	956C	852C	860C	862C	368AC	368C	379C	827C	392C
ISO	806.**314**	001.504 012	159.504 010	164.504 010	245.504 010	249.504 012	254.504 016	257.504 016	277.504 016	464.504 018	465.504 014
		1	1	1	1	1	1	1	1	1	1

Therapy Set

Therapie Satz



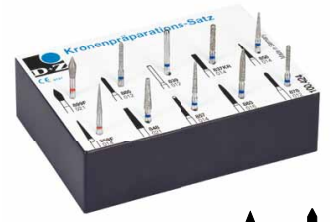
100423

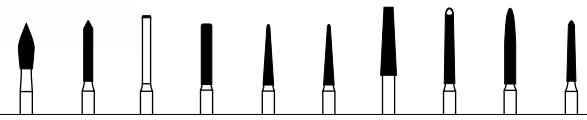
Contents · *Inhalt*

REF		CB1S	CB1S	801	805	836KR	859	868	830L	368A	801LG
ISO	806.**204/314**	001.003 014	001.003 021	001.524 012	010.524 016	157.524 012	167.524 010	223.524 016	234.524 018	254.524 018	697.534 016
		1	1	1	1	1	1	1	1	1	1

Crown Preparation Set

Kronenpräparations-Satz





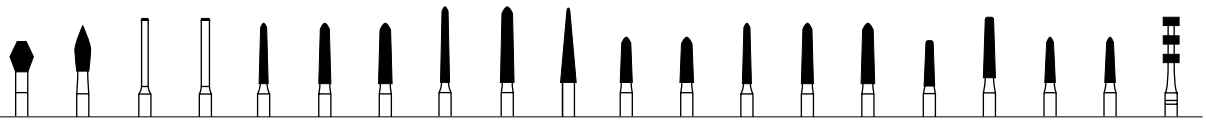
100424

Contents · *Inhalt*

REF		899F	885	839	837KR	858	859F	848	857	863	878
ISO	806.**314**	033.514 021	130.524 012	150.524 012	158.524 014	165.524 014	166.514 014	173.524 021	220.524 014	250.524 016	289.524 012
		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**	038.524 031	033.524 021	– 010	– 012	298.524 012	298.524 016	298.524 018	299.524 016	299.524 018	– 021	297.524 016	297.524 018	298.524 012	298.524 016	298.524 018	545.524 014	546.524 016	298.524 014	297.524 014	552.524 021
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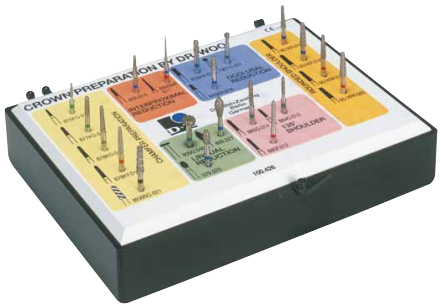
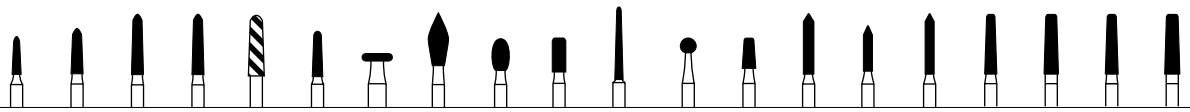


Crown Preparation Kit by Dr. Woo

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**	296.534 012	297.534 016	298.534 016	298.514 016	– 021	197.524 014	068.534 040	033.524 027	277.524 023	156.524 018	199.XXX 011	001.534 021	544.524 018	130.534 014	129.534 012	130.514 012	– 016	– 019	– 017	– 020
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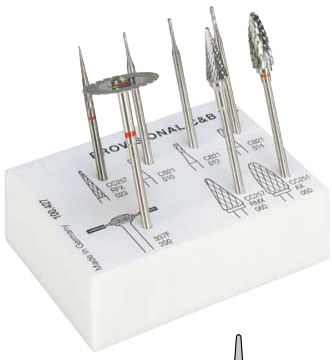
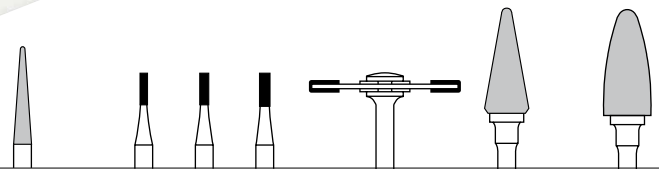


Provisional C & B Kit

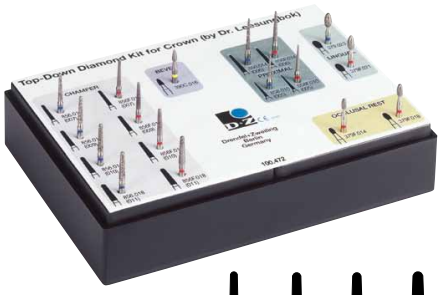
Provisional C & B Satz



100427

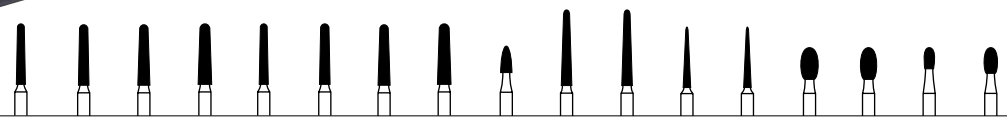
Contents · *Inhalt*

REF		CC257RFX	CB21	CB21	CB21	937F	CC257RMX	CC 251AX
ISO	806.**104**	201.140 023	107.006 010	107.006 012	107.006 014	– 200	201.190 060	– 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

Contents · *Inhalt*

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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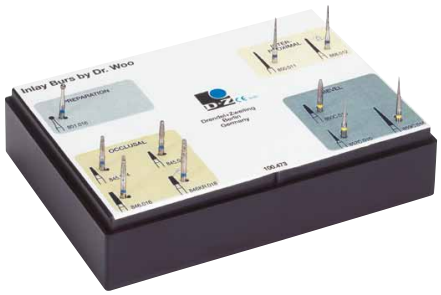
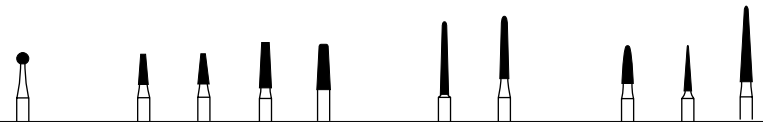


Inlay Burs by Dr. Woo

Inlay Burs nach Dr. Woo



100473

Contents · *Inhalt*

REF		801	845	845	846	846KR	850	868	860C	852C	859C
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

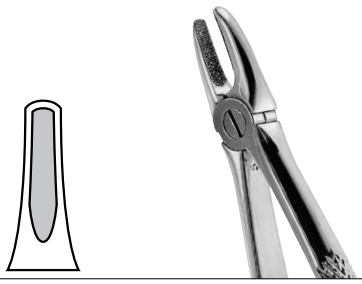
REF **ABB 15**

ABB 30

REF **ABB 30**

Diamond Forceps
Diamantierte Extraktionszangen

Centrals and Canines | *Schneide- und Eckzähne*



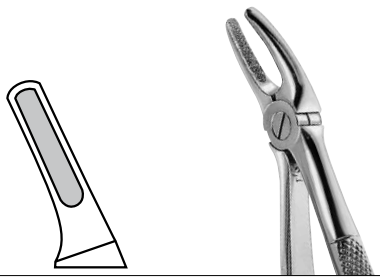
501

REF **501**
ISO 806.**501**.534
upper centrals and canines · *obere Schneide- und Eckzähne*

502

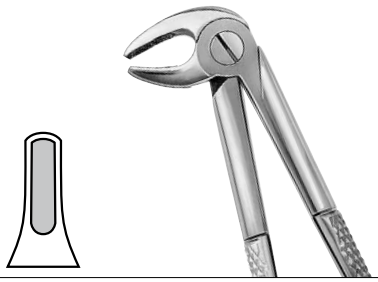
REF **502**
ISO 806.**502**.534
upper centrals and canines · *obere Schneide- und Eckzähne*

Premolars | *Prämolaren*



507

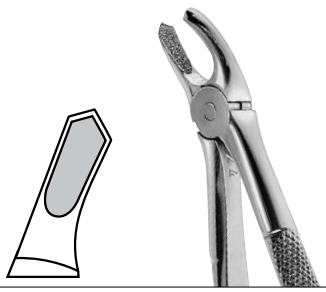
REF **507**
ISO 806.**507**.534
upper premolars · *obere Prämolaren*



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

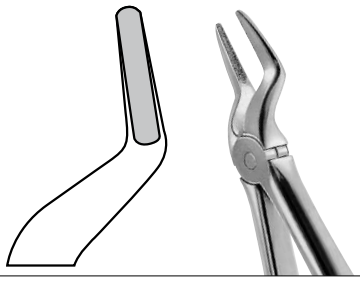
REF **518**
ISO 806.**518**.534
upper molars, left · *obere Molaren, links*

Roots | *Wurzeln*

533

REF	**533**
ISO	806.**533**.534

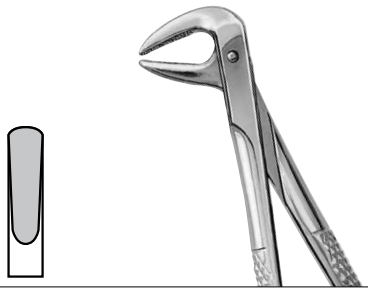
lower roots · *untere Wurzeln*



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*

Disinfection

- Use approved agents only (preferably KOMET DC1)
- Immerse instruments immediately after use
- Observe manufacturer's recommendations regarding concentration/time/material-compatibility
- Do not disinfect in the thermodisinfector

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)
- benutzte Instrumente sofort einlegen
- Herstellerangaben zu Konzentration/Zeit/Materialverträglichkeit beachten
- kein Thermodesinfektor

Wurzelkanalinstrumente
➔ vor mechanischer Beschädigung schützen

Hartmetallinstrumente
➔ kein Wasserstoffperoxid (H_2O_2) verwenden

Polierer
➔ nicht in Alkohol einlegen

Naturhaarbürsten
➔ als Einmalprodukt verwenden

New Instruments/Treatment
Neue Instrumente/Behandlung

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

Rubber polishers
➔ change their elasticity if subjected to hot air sterilization

Brushes with natural bristles
➔ will swell up in the autoclave

Sterilisation

- *sterilisierbar sind alle zahnärztlichen Instrumente*
- *Sterilgutverpackungen verwenden*

Ausnahmen:
Standard Stahlinstrumente (z.B. REF 1)
➔ *Instrumente korrodieren im Autoclav*

Gummipolierer
➔ *verändern ihre Elastizität im Heißluftsterilisator*

Bürsten mit Naturhaarborsten
➔ *quellen im Autoclav auf*

134°C 3–5 min. Autoclave *Autoklav*

121°C 15–20 min. Autoclave *Autoklav*

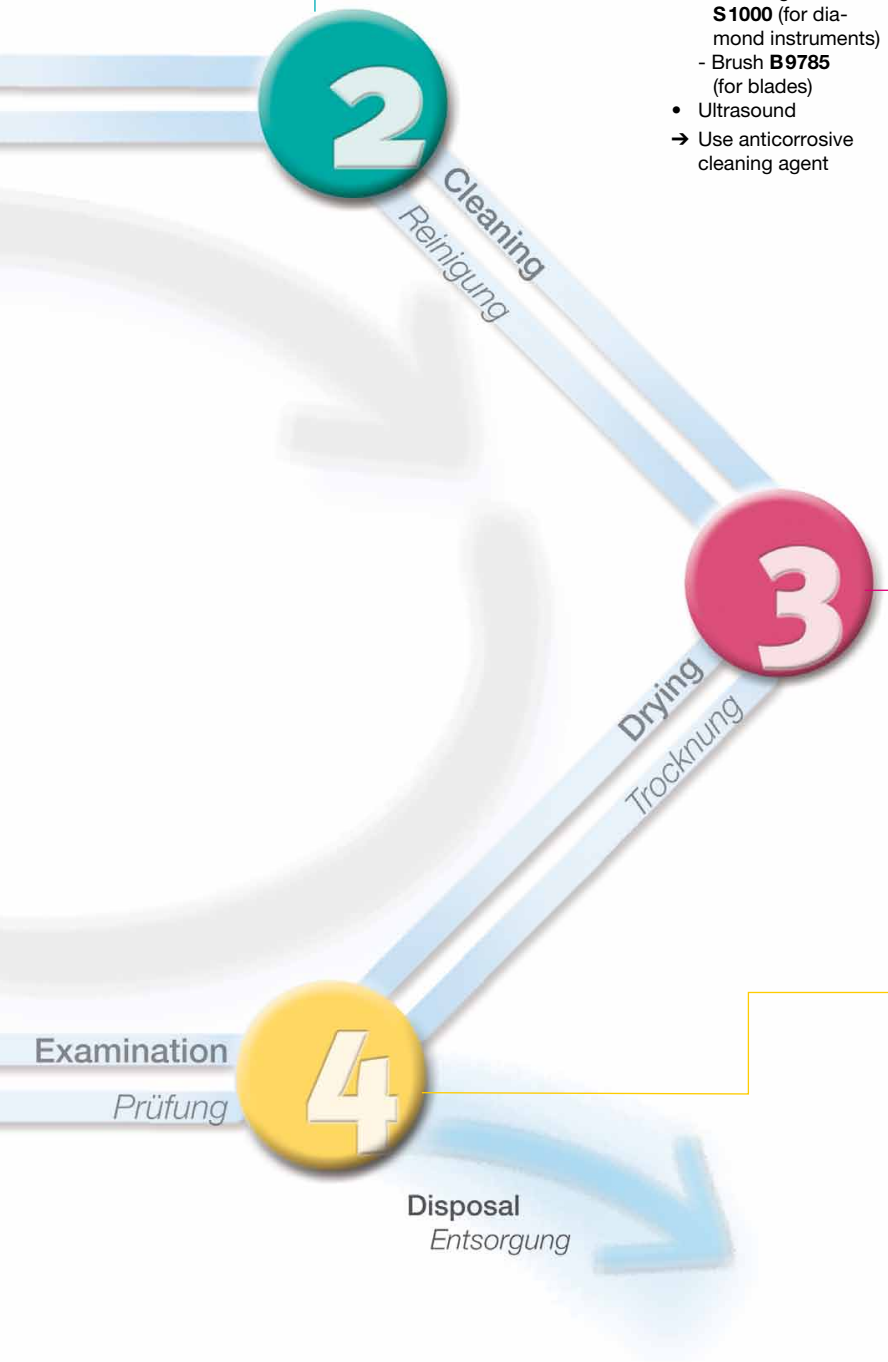
180°C 30 min. Hot air *Heißluft*

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!



Cleaning

- Remove residues
  - Cleaning stone **S1000** (for diamond instruments)
  - Brush **B9785** (for blades)
- 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

Reinigung

- *Rückstände entfernen!*
  - *Reinigungsstein **S1000** (Diamant)*
  - *Bürste **B9785** (Schneiden)*
- *Ultraschall*

➔ *Reinigungsmittel mit Korrosionsschutz verwenden*

➔ *gründliches Abspülen der Reinigungs- und Desinfektionsmittel unter fließendem Wasser*

Tipp: *Die Verwendung von destilliertem Wasser verhindert Wasserflecken.*

Drying

- Forced drying only with

➔ Compressed air
➔ Hot air
➔ Absorbent paper tissue

Trocknung

- *nur Zwangstrocknung verwenden*

➔ *Druckluft*
➔ *Heißluft*
➔ *mit saugfähigen Zellstofftüchern abtupfen*

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 $\circlearrowleft_{max.}$ 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 $\circlearrowleft_{max.}$ 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
Endodontic instruments - wide canals:	– 8 x (max.)
Average canals:	– 4 x (max.)
Narrow canals:	just use 1 x
For hygienic reasons, laminated polishers and dental brushes may only be used	– 1 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 finishing discs avoid axial deflection over 45° and radial deformation. This may lead to fracture. In order to guarantee a non-traumatic treatment, ensure direct vision and avoid contact with soft tissue. An integrated sliding clutch stops the disc in case it gets jammed. After that, the finishing disc can no longer be used.
- 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, (↻opt. 450–800 rpm).
  For root canal preparation.

Specific instructions for individual instrument types

Polishers/Brushes

- Apply low contact pressure in order to minimize heat generation.
- Apply a speed of ↻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.

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
Endo-Instrumente: weite Kanäle:	- max. 8 x
mittlere Kanäle:	- max. 4 x
enge Kanäle:	nur 1 x verwenden
Lamellenpolierer und zahnärztliche Bürsten aus hygienischen Gründen nur	- 1 x verwenden

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 Finierscheibe axiale Verbiegungen von über 45° sowie radiale Verformungen vermeiden, da diese zum Bruch der Scheibe führen können. Um eine atraumatische Behandlung zu garantieren, muss eine direkte Sicht sichergestellt und jeder Kontakt mit dem Weichgewebe vermieden werden. Eine integrierte Rutschkupplung hält die Scheibe an, falls diese sich verkantet. Danach kann die Finierscheibe nicht weiter benutzt werden.
- 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, ($n_{opt.}$ 450–800 min^{-1}). Zur Wurzelkanalaufbereitung.

Spezifische Hinweise für einzelne Instrumentenarten

Polierer / Bürsten

- Mit geringer Anpresskraft arbeiten, um die Wärmeentwicklung zu minimieren.
- Bei einer Drehzahl von $n_{opt.}$ 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.

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.

Sorted by REF Order Number
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