



Drendel + Zweiling
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Drendel + Zweiling
DIAMANT GmbH

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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 Dental-spezialitäten.

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



Root planing
Wurzelglättung



ISO No.
ISO-Nummer



Crown preparation
Kronenpräparation



Root canal preparation
Wurzelkanalaufbereitung



Lot number – for traceability of the
respective production batch
*Lotnummer – ermöglicht die Rück-
verfolgbarkeit der entsprechenden
Produktionscharge*



Working on fillings
Füllungsbearbeitung



Crown and bridge technique
Kronen-/Brückentechnik



Speed recommendation
Drehzahlempfehlung



Crown cutting
Kronentrennen



Acrylic technique
Kunststofftechnik



Maximum permissible speed
maximal zulässige Drehzahl



Removal of old fillings
Ausbohren alter Füllungen



Model fabrication
Modellherstellung

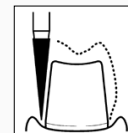
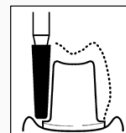
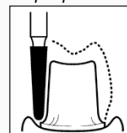
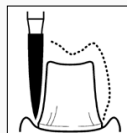
Various types of crown preparation
Varianten der Kronenpräparation



Root planing
Wurzelglättung



Model casting technique
Modellgusstechnik



Prophylaxis
Prophylaxe



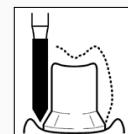
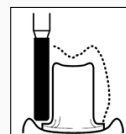
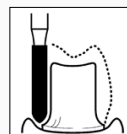
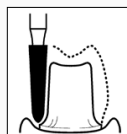
Gnatho-orthopaedics
KFO



Oral surgery
Kieferchirurgie



cutting tip
schneidende Spitze



for single-use only
nur zum Einmalgebrauch



Order No.
Bestellnummer

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 Instrumen-
tenform und -größe bei einzelnen Instrumenten vom
genannten Wert abweichen.*

4 - 5 General information**4 - 5** Allgemeine Hinweise

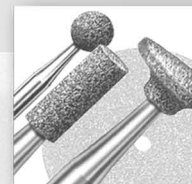
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Please note that the various instruments within each product group (e.g. diamonds or tungsten carbide) are sorted by their reference number, i.e. 368, 368A, 369, etc. in ascending order.
Exception: polishers are sorted by their field of application, 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	Line drawings 1:1	Strichzeichnungen 1:1
Enlarged representation of the head portion.	Vergrößerte Darstellung des Kopfbereiches.	The line drawings show the actual size of the individual instruments.	Die Strichzeichnungen geben zusätzlich Orientierung über die Originalgröße der jeweiligen Instrumente und Werkzeuge.
Colour coding + REF number	Farbmarkierung + REF-Bestellnummer	Dimensions/designations	Maße/Bezeichnungen
The colour coding indicates the grit size or type of toothings.	Die Farbmarkierung gibt jeweils Auskunft über die Körnungsgröße bzw. die Verzahnung.	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.
Shank type ISO 6360	Schaftart ISO 6360		
Attention: With extra-long head and/or neck the overall length will change!	Achtung: Bei Instrumenten mit über-langer Kopf- und/oder Halsform verändert sich die Gesamtlänge!		

L mm	3,0	4,0	4,0
REF	835	medium	mittel
ISO	806.104.107.524...	010	012
	806.204.107.524...	009	010
	806.314.107.524...	009	010
	806.314.107.514...	010	010

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

835 Medium Grain
Mittlere Körnung

835F Fine Grain
Feine Körnung

Order by REF No. | Bestellung nach REF Nr.

835 + .314. + 010 or / oder

835F + .314. + 010 or / oder

Order by ISO No. | Bestellung nach ISO Nr.

806.314.107.524. + 010

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.

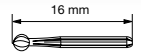
Die ISO-Bestellnummer besteht aus einem festen Nummerncode, der Auskunft gibt über bestimmte instrumenten- und werkzeug-bezogene Daten, die eine eindeutige Identifizierung ermöglichen.

Material of the working part	Shank and overall length	Shape and design	Nominal size ISO 2157
• Diamond, galvanic metal bond	• FG • 19 mm coupling dimensions according to ISO 1797	• cylindrical, round edges • fine grit, hard bond	• Largest diameter of the working part (1/-mm)
Werkstoff des Arbeitsteils	Schaft und Gesamtlänge	Form und Ausführung	Nenngröße ISO 2157
• Diamant, galvanische Metallbindung	• FG • 19 mm Anschlussmaße nach ISO 1797	• zylindrisch, Ecken rund • feine Körnung, harte Bindung	• größter Durchmesser des Arbeitsteils (1/-mm)

Shank type | Schaftarten ISO 6360 · ISO 1797

313 · FG short

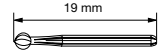
FG kurz



Ø 1,60 mm

314 · FG (Friction Grip)

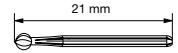
FG



Ø 1,60 mm

315 · FG long

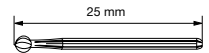
FG lang



Ø 1,60 mm

316 · FG extra-long

FG extra lang

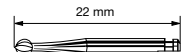


Ø 1,60 mm



204 · Right-angle

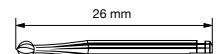
Winkelstück



Ø 2,35 mm

205 · Right-angle long

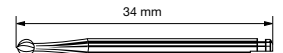
Winkelstück lang



Ø 2,35 mm

206 · Right-angle extra-long

Winkelstück extra lang

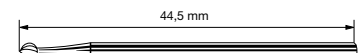


Ø 2,35 mm



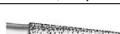
104 · Handpiece

Handstück



Ø 2,35 mm

Preparation instruments | Präparationsinstrumente

				
Bud <i>Knospe</i> 7	Round <i>Rund</i> 8	Lenticular <i>Linse</i> 10	Tapered <i>Konisch</i> 12–13	Torpedo <i>Torpedo</i> 16
				
Egg <i>Ei</i> 7	Inverted cone <i>Umgekehrter Kegel</i> 8	Onion-shaped <i>Zwiebelform</i> 10	Tapered round <i>Konisch rund</i> 13–14, 18	Torpedo tapered <i>Torpedo, konisch</i> 16
				
Special <i>Spezialform</i> 7	Double cone <i>Doppelkegel</i> 9	Concave <i>Konkav</i> 10	Tapered, ellipse-shaped <i>Konisch, Ellipse</i> 13, 15	Palatal grinding instruments <i>Palatinalschleifer</i> 18
				
Grenade <i>Granate</i> 7	Diabolo <i>Diabolo</i> 9	Pear <i>Birne</i> 9, 10	Pointed <i>Spitz</i> 14, 18	
				
Interdental <i>Interdental</i> 7	Wheel <i>Reifen</i> 9, 18	Cylinder <i>Zylinder</i> 10–11	Flame <i>Flamme</i> 15	
				
	Groove grinding instruments <i>Rillenschleifer</i> 9	Cylinder round <i>Zylinder rund</i> 11, 17	Needle-shaped <i>Nadelform</i> 15, 17, 18	
				
		Cylinder pointed <i>Zylinder spitz</i> 17		
				
		Cylinder, end-cutting only <i>Zylinder, Stirn schneidend</i> 11		

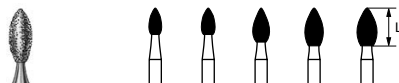
Diamond Instruments FG short <i>Diamantinstrumente FG kurz</i>	19
Titanium Nitride (TiN) Coated Instruments <i>TiN Instrumente</i>	20–21
Micropreparation <i>Mikropräparation</i>	22
InteC Instruments <i>InteC Instrumente</i>	23
Diamond Finishing Strips <i>Diamantstreifen</i>	24
Diamond tools for laboratory application <i>Diamantwerkzeuge für das Dentallabor</i>	24
Sintered Diamonds <i>Sinter-Diamantschleifer</i>	25
Diamond Discs <i>Diamantscheiben</i>	26–29

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

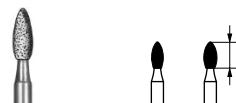


Lmm	3,5	3,5	4,5	5,0	5,0
REF	368				
ISO	806.204.257.524... 023				
	806.314.257.524... 016 018 021 023				
■ 368SG					
	806.314.257.544... 023				
■ 368G					
	806.314.257.534... 016 021 023				
■ 368F					
	806.204.257.514... 023				
	806.314.257.514... 016 018 021 023				
■ 368C					
	806.204.257.504... 025				
	806.314.257.504... 016 018 021 023				

021-025 = max. 300 000 min⁻¹



368 A



Lmm	3,5	3,5
REF	368 A	
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

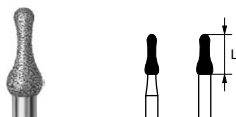


Lmm	5,5
REF	369
ISO	806.314.263.524... 025
025 = max. 160 000 min ⁻¹	



Occlu-Former

369 A

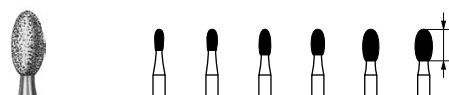


Lmm	5,0	5,0
REF	369 A	
ISO	806.314.506.524... 018 023	
■ 369AG		
	806.314.506.534... 023	
■ 369AF		
	806.314.506.514... 018	

023 = max. 300 000 min⁻¹



379



Lmm	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



Lmm	4,3
REF	379 B
ISO	806.314.277.524... 020
020 = max. 300 000 min ⁻¹	



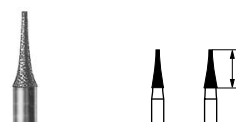
390



Lmm	3,5
REF	390
ISO	806.314.274.524... 016
■ 390F	
	806.314.274.514... 016
■ 390C	
	806.314.274.504... 016



392



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



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		

035 =  max. 120 000 min⁻¹

REF	801L		
ISO	806.314.697.524...	016	
■	801LSG		
	806.314.697.544...	016	
■	801LG		
	806.314.697.534...	016	021

021 = max. 300 000 min⁻¹

Lmm		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



Lmm		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	

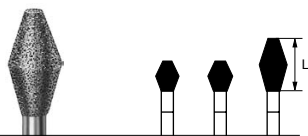


Lmm	-	1,0	1,5	1,5	1,5	2,3	2,5	2,5	2,5	3,0
 805										
 806.104.010.524...			012	014	016	018	021		025	027
806.204.010.524...			012							
806.314.010.524...	009	010	012	014	016	018		023		
 805 G										
806.314.010.534...		010	012	014	016	018				
 805 F										
806.314.010.514...				014						

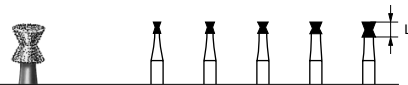
025 =  max. 160 000 min⁻¹

Lmm			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


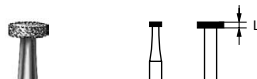
Lmm		4,2	4,2	7,0
REF	811			
ISO	806.314.038.524...	031	033	037
031 = max. 140 000 min ⁻¹ 037 = max. 100 000 min ⁻¹				
033 = max. 100 000 min ⁻¹				


813


Lmm		1,5	1,5	1,5	1,5	2,0
REF	813					
ISO	806.314.032.524...	010	012	014	016	018


NEW
814


REF	814		
ISO	806.104.493.524...	030	045
030 = max. 80 000 min ⁻¹			
045 = max. 80 000 min ⁻¹			


815


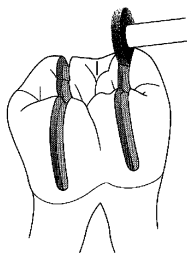
Lmm		0,5	0,8
REF	815		
ISO	806.314.040.524...	014	035
035 = max. 100 000 min ⁻¹			


818


Lmm		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


Lmm		2,0	2,0
REF	822		
ISO	806.314.232.524...	008	009


824


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



825

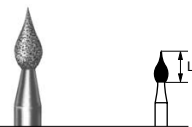


REF	825
ISO	806.104.304.524... 023
	806.314.304.524... 023 042

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



827



Lmm	4,2
REF	827 C
ISO	806.314.464.504... 018

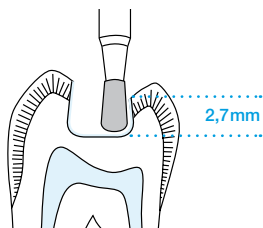


833

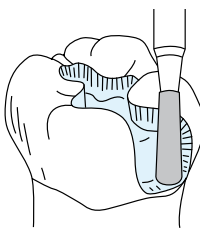


Lmm	3,5
REF	833 F
ISO	806.314.466.514... 031
	833 C
	806.314.466.504... 031

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



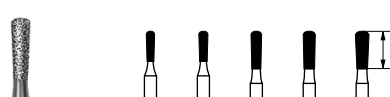
830



Lmm		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



Lmm		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



Lmm	4,7
REF	830 RLA
ISO	806.314.237.524... 032

032 = max. 100 000 min⁻¹



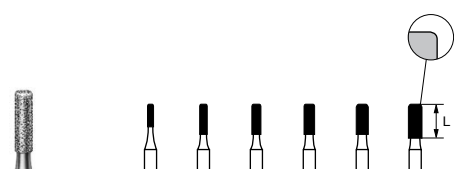
835



Lmm		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		

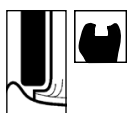
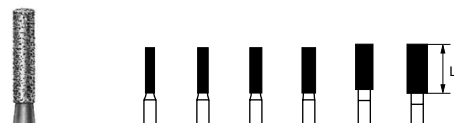


835 KR

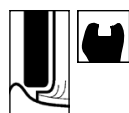
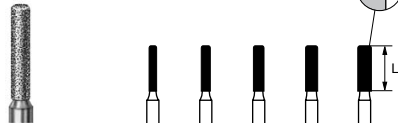


Lmm		3,0	4,0	4,0	4,0	4,0	4,0
REF	835KR						
ISO	806.314.156.524...	008	010	012	014	016	018
	835KR G						
	806.314.156.534...		010	012	014		

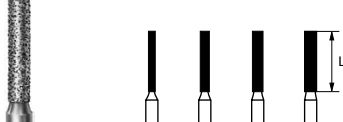
U = ISO 494 White ring · weißer Ring	ultra-fine · ultrafein	10 µm	- = ISO 524 without ring · ohne Ring	medium · mittel	105–120 µm
C = ISO 504 Yellow ring · gelber Ring	extra-fine · extrafein	25 µm	G = ISO 534 Green ring · grüner Ring	coarse · grob	126–150 µm
F = ISO 514 Red ring · roter Ring	fine · fein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


836


Lmm		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		
	836SG						
	806.314.110.544...	014					
	836G						
	806.314.110.534...	012	014	016	018		
	836F						
	806.314.110.514...	012					

027 = max. 160 000 min⁻¹

836KR


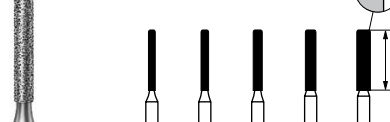
Lmm		6,0	6,0	6,0	6,0	6,0
REF	836KR					
ISO	806.314.157.524...	010	012	014	016	018
	836KR G					
	806.314.157.534...	010	012	014		


837


Lmm		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
	837SG				
	806.314.111.544...	014			
	837G				
	806.314.111.534...	012	014	016	

009 = max. 160 000 min⁻¹

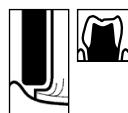
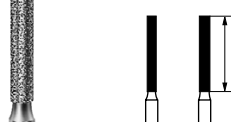
012 = max. 300 000 min⁻¹

837KR


Lmm		8,0	8,0	8,0	8,0	8,0
REF	837KR					
ISO	806.314.158.524...	009	010	012	014	
	837KR G					
	806.314.158.534...	014 018				
	837KRF					
	806.314.158.514...	012				
	837KRC					
	806.314.158.504...	014				

009 = max. 160 000 min⁻¹

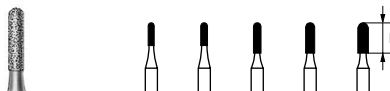
010 = max. 160 000 min⁻¹

012 = max. 300 000 min⁻¹

837 L


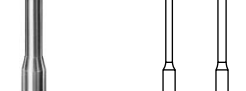
Lmm		10,0	10,0
REF	837L		
ISO	806.314.112.524...	014	
	837LG		
	806.314.112.534...	012	

012 = max. 300 000 min⁻¹

014 = max. 300 000 min⁻¹

838


Lmm		3,0	3,0	4,0	4,0	4,0
REF	838					
ISO	806.314.137.524...	008	009	010	012	014
	838SG					
	806.314.137.544...	012				
	838G					
	806.314.137.534...	012 014				
	838F					
	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

10µm

C = ISO 504 Yellow ring · gelber Ring

extra-fine · extrafein

25µm

F = ISO 514 Red ring · roter Ring

fine · fein

46µm

- = ISO 524 without ring · ohne Ring

medium · mittel

105–120µm

G = ISO 534 Green ring · grüner Ring

coarse · grob

126–150µm

SG = ISO 544 Black ring · schwarzer Ring

super-coarse · supergrob

180µm



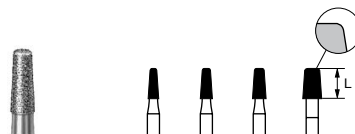
845



Lmm		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	

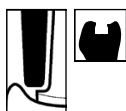


845 KR

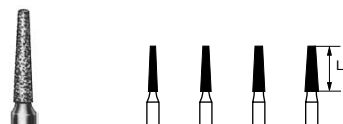


Lmm		4,0	4,0	4,0	4,0	
REF	845 KR					
ISO	806.314.544.524...	014	016	018		025
	845 KRF					
	806.314.544.514...			016	018	025

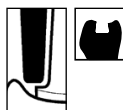
025 = max. 160 000 min⁻¹



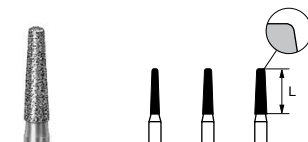
846



Lmm		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		



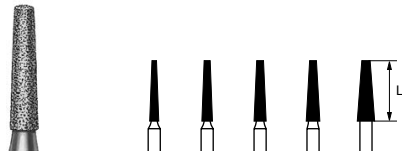
846 KR



Lmm		6,0	6,0	6,0		
REF	846 KR					
ISO	806.314.545.524...	012	014	016		
	846 KRG					
	806.314.545.534...			016		



847

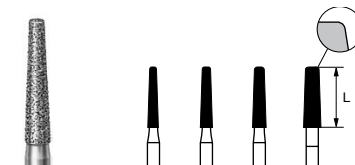


Lmm		8,0	8,0	8,0	8,0	8,0
REF	847					
ISO	806.104.172.524...					023
	806.314.172.524...	012	014	016	018	023
	847 SG					
	806.314.172.544...			016		
	847 G					
	806.314.172.534...	012	014	016	018	
	847 F					
	806.314.172.514...		014			

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



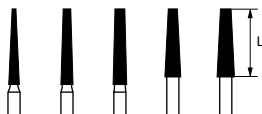
847 KR



Lmm		8,0	8,0	8,0	8,0	
REF	847 KR					
ISO	806.314.546.524...	012	014	016	018	
	847 KRG					
	806.314.546.534...			016	018	

012 = max. 300 000 min⁻¹

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


848

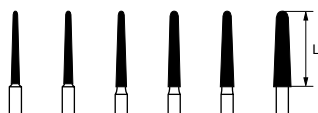
Lmm	10,0	10,0	10,0	9,0	9,0
REF	848				
ISO	806.104.173.524...	016	023		
	806.204.173.524...	016			
	806.314.173.524...	014	016	018	021 023
■ 848 SG					
	806.314.173.544...	016			
■ 848 G					
	806.314.173.534...	014	016	018	021 023
■ 848 F					
	806.314.173.514...	016			

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

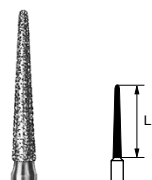

849

Lmm	4,0
REF	849
ISO	806.314.194.524... 012
■ 849 G	
	806.314.194.534... 012


850

Lmm	10,0	10,0	10,0	10,0	10,0	10,0
REF	850					
ISO	806.104.199.524...	016	018	023		
	806.204.199.524...		018			
	806.314.199.524...	011	012	014	016	018 023
■ 850 SG						
	806.314.199.544...	016				
■ 850 G						
	806.314.199.534...	012	014	016	018	023
■ 850 F						
	806.314.199.514...	012	014	016		
■ 850 C						
	806.314.199.504...	016				

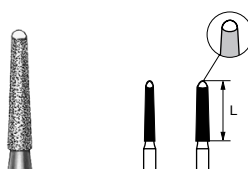
011 = max. 160 000 min⁻¹ 014 = max. 300 000 min⁻¹ 018 = max. 300 000 min⁻¹
 012 = max. 300 000 min⁻¹ 016 = max. 300 000 min⁻¹ 023 = max. 300 000 min⁻¹


850 SMF

Lmm	10,0
REF	■ 850 S MF
ISO	806.314.199.XXX... 011
	011 = max. 160 000 min ⁻¹



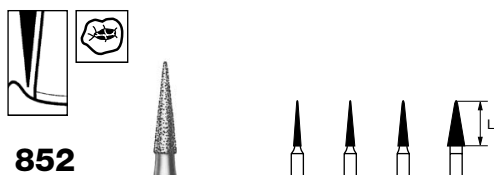
Break off the lamina.
 Aufbrechen
 der Schmelzlamellen.


851

Lmm	8,0	8,0
REF	851	
ISO	806.314.219.524...	012 016

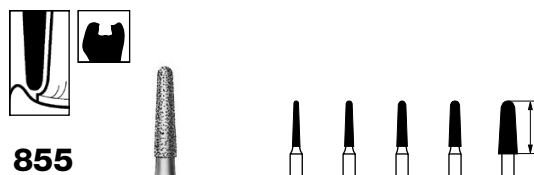
012 = max. 300 000 min⁻¹

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


852

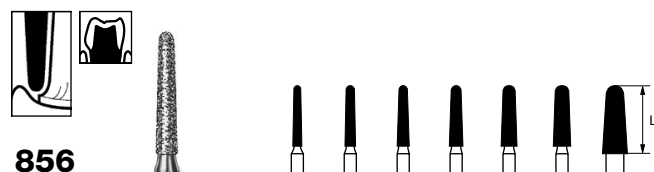
Lmm	6,0	6,0	6,0	6,0
REF	852			
ISO	806.314.164.524...	012		
852 G	806.314.164.534...		023	
852 F	806.314.164.514...	012	014	
852 C	806.314.164.504...	010	014	
852 U	806.314.164.494...	010		

010 = max. 160 000 min⁻¹

023 = max. 300 000 min⁻¹

855

Lmm	6,0	6,0	6,0	6,0	7,0
REF	855				
ISO	806.314.197.524...	010	012	014	016
855 SG	806.314.197.544...				025
855 G	806.314.197.534...		012		016
855 F	806.314.197.514...	010			

010 = max. 160 000 min⁻¹

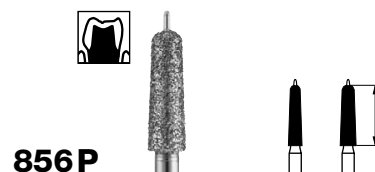
025 = max. 160 000 min⁻¹

856

Lmm	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

023 = max. 300 000 min⁻¹

021 = max. 300 000 min⁻¹

033 = max. 100 000 min⁻¹

856P

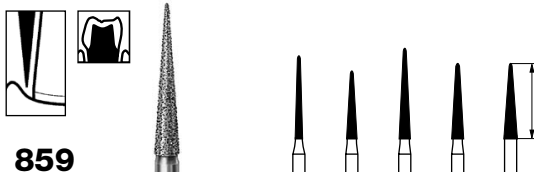
Lmm	8,0	8,0
REF	856P	
ISO	806.314. 524...	018
856 PG	806.314. 534...	018
856 PF	806.314. 514...	018

= max. 160 000 min⁻¹

858

Lmm	8,0	8,0
REF	858	
ISO	806.104.165.524...	014
	806.314.165.524...	010
858 G	806.314.165.534...	014
858 F	806.314.165.514...	010
858 C	806.314.165.504...	014

010 = max. 300 000 min⁻¹

014 = max. 300 000 min⁻¹

859

Lmm	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
859 U	806.314.166.494...		014		

010 = max. 300 000 min⁻¹

016 = max. 300 000 min⁻¹

014 = max. 300 000 min⁻¹

018 = max. 300 000 min⁻¹

015 = max. 160 000 min⁻¹

U = ISO 494 White ring · weißer Ring

ultra-fine · ultrafein

10µm

C = ISO 504 Yellow ring · gelber Ring

extra-fine · extrafein

25µm

F = ISO 514 Red ring · roter Ring

fine · fein

46µm

- = ISO 524 without ring · ohne Ring

medium · mittel

105–120µm

G = ISO 534 Green ring · grüner Ring

coarse · grob

126–150µm

SG = ISO 544 Black ring · schwarzer Ring

super-coarse · supergrob

180µm



860

Lmm		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

Lmm		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

Lmm		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



864

Lmm		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



863GK

Lmm		10,0
REF	863GKC	
ISO	806.314.256.504...	012

012 = max. 300 000 min⁻¹

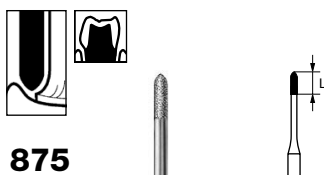


868

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


875

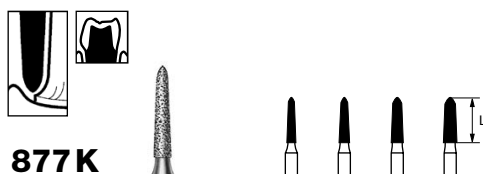
Lmm	3,0
REF	875
ISO	806.314.535.524... 009
009 = max. 300 000 min ⁻¹	


876K

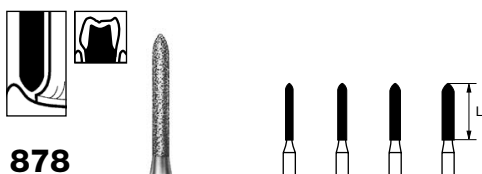
Lmm	5,0
REF	876KG
ISO	806.314.296.534... 012


877

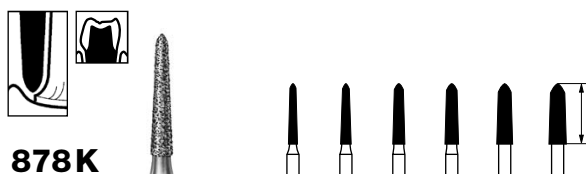
Lmm	6,0	6,0
REF	877	
ISO	806.314.288.524... 010	012
	877G	
	806.314.288.534... 010	012
	877F	
	806.314.288.514... 012	
010 = max. 160 000 min ⁻¹		


877K

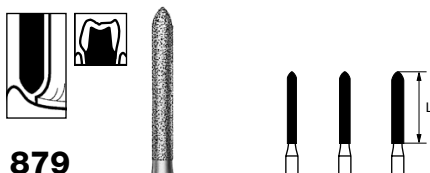
Lmm	6,0	6,0	6,0	6,0
REF	877K			
ISO	806.314.297.524... 012	014	016	
	877KG			
	806.314.297.534... 012	014	016	018


878

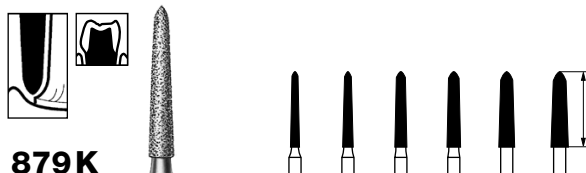
Lmm	8,0	8,0	8,0	8,0
REF	878			
ISO	806.314.289.524... 010	012	014	016
	878G			
	806.314.289.534... 010	012	014	016
	878F			
	806.314.289.514... 010	012	014	016
010 = max. 160 000 min ⁻¹				
012 = max. 300 000 min ⁻¹				


878K

Lmm	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
	878KGF					
	806.314.298.514... 014	016				
012 = max. 300 000 min ⁻¹						
021 = max. 300 000 min ⁻¹						
023 = max. 300 000 min ⁻¹						

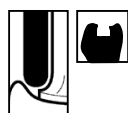

879

Lmm	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			

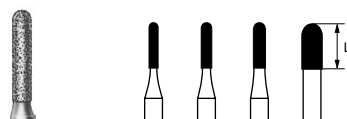

879K

Lmm	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						

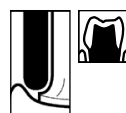
U = ISO 494 White ring · weißer Ring	ultra-fine · ultrafein	10µm	- = ISO 524 without ring · ohne Ring	medium · mittel	105–120µm
C = ISO 504 Yellow ring · gelber Ring	extra-fine · extrafein	25µm	G = ISO 534 Green ring · grüner Ring	coarse · grob	126–150µm
F = ISO 514 Red ring · roter Ring	fine · fein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



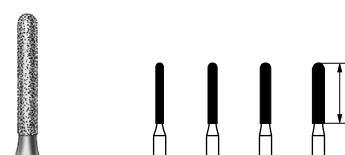
880



Lmm	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



Lmm	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



Lmm	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



Lmm	3,0
REF	883 G
ISO	806.314.539.534... 010

010 = max. 300 000 min⁻¹



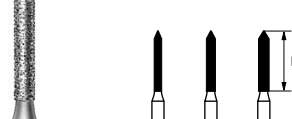
884



Lmm	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

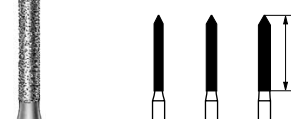


Lmm	8,0	8,0	8,0
REF	885		
ISO	806.314.130.524...	012	014
885 G			
	806.314.130.534...	012	014
885 F			
	806.314.130.514...	010	012

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



886



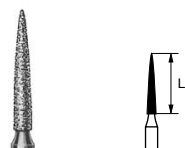
Lmm	10,0	10,0	10,0
REF	886		
ISO	806.314.131.524...	012	014 016
886 G			
	806.314.131.534...	014	016
886 F			
	806.314.131.514...	014	

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



888



Lmm	8,0
REF	888
ISO	806.314.496.524... 012
012 = max. 300 000 min ⁻¹	



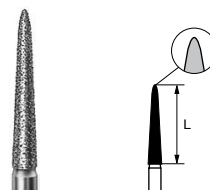
889



Lmm	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		



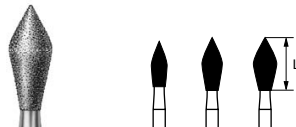
898



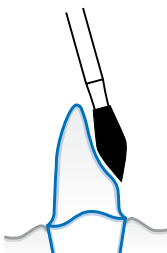
Lmm	10,5
REF	898
ISO	806.314.213.524... 016
016 = max. 300 000 min ⁻¹	



899



Lmm	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



Lmm	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			



NEW

972



Lmm	4,0
REF	972 C
ISO	806.314.XXX.504... 020



NEW

973



Lmm	4,7
REF	973 F
ISO	806.314.XXX.514... 021
	973 C
	806.314.XXX.504... 021



955



Lmm	3,0
REF	955 F
ISO	806.314.699.514... 008
	955 C
	806.314.699.504... 008
max. 300 000 min ⁻¹	



956



Lmm	4,0
REF	956 F
ISO	806.314.159.514... 010
	956 C
	806.314.159.504... 010



957



Lmm	3,0
REF	957 F
ISO	806.314.195.514... 009

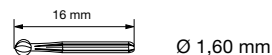
U = ISO 494 White ring · weißer Ring
C = ISO 504 Yellow ring · gelber Ring
F = ISO 514 Red ring · roter Ring

ultra-fine · ultrafein 10µm
extra-fine · extrafein 25µm
fine · fein 46µm

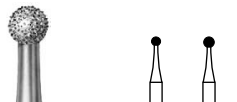
- = ISO 524 without ring · ohne Ring medium · mittel 105–120µm
G = ISO 534 Green ring · grüner Ring coarse · grob 126–150µm
SG = ISO 544 Black ring · schwarzer Ring super-coarse · supergrob 180µm

Diamond Instruments FG short Diamantinstrumente FG kurz

313 · FG short · FG kurz



801



REF	801
ISO	806.313.001.524... 012 014
	801 G
	806.313.001.534... 014



NEW

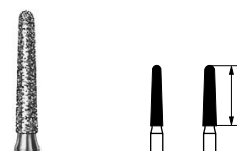
835



L mm		3,0	3,0	4,0	4,0
REF	835				
ISO	806 313 107 524	008	009	010	012



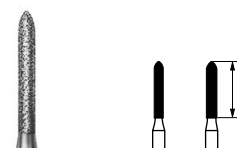
856



L mm	8,0	8,0
REF	856 G	
ISO	806.313.198.534...	016 018



878

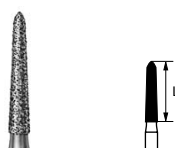


L mm		8,0	8,0
REF	878		
ISO	806.313.289.524...	012	
	878G		
	806.313.289.534...	012	014
	878F		
	806.313.289.514...		014

012 = $\varnothing$ max. 300 000 min⁻¹



878K



L mm	8,0
REF	878K
ISO	806.313.298.524... 016

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

Titanium Nitride (TiN) Coated Instruments

TiN Instrumente



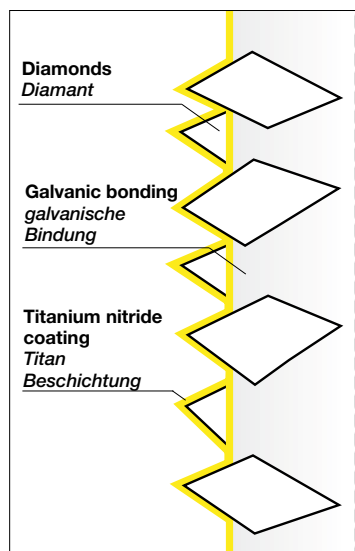
T 368

Lmm	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

Lmm	4,2
REF	T 379
ISO	806.314....524...
	T 379 G
	806.314....534...
	T 379 F
	806.314....514...



T 801

REF	T 801
ISO	806.314....534...
	T 801 G
	806.314....534...



T 830 L

Lmm	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

Lmm	4,0
REF	T 835 KR
ISO	806.314....524...
	T 835 KR G
	806.314....534...



T 837 KR

Lmm	8,0
REF	T 837 KR
ISO	806.314....524...
	T 837 KR G
	806.314....534...



T 847

Lmm	8,0
REF	T 847 G
ISO	806.314....534...
	016



T 848

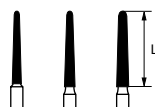
Lmm	8,0
REF	T 848 G
ISO	806.314....534...
	018

018 = max. 160 000 min⁻¹

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



T 850



Lmm		8,0	8,0	8,0
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		



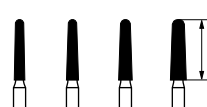
T 855



Lmm		6,0
REF	T 855	
ISO	806.314....524...	025
	T 855 G	
	806.314....534...	025



T 856



Lmm		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



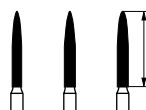
T 862



Lmm		8,0	8,0
REF	T 862 G		
ISO	806.314....534...	012	014
	T 862 F		
	806.314....514...	012	



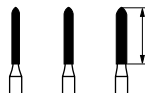
T 863



Lmm		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



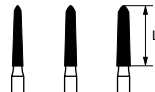
T 878



Lmm		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



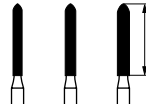
T 878K



Lmm		8,0	8,0	8,0
REF	T 878K			
ISO	806.314....524...			018
	T 878K G			
	806.314....534...	014	016	018



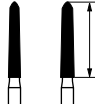
T 879



Lmm		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 879K



Lmm		10,0	10,0
REF	T 879K G		
ISO	806.314....524...	016	018



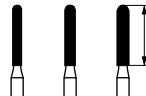
T 880



Lmm		6,0	6,0
REF	T 880 G		
ISO	806.314....534...	012	014



T 881



Lmm		6,0	6,0	6,0
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	10µm	- = ISO 524 without ring · ohne Ring	medium · mittel	105–120µm
C = ISO 504 Yellow ring · gelber Ring	extra-fine · extrafein	25µm	G = ISO 534 Green ring · grüner Ring	coarse · grob	126–150µm
F = ISO 514 Red ring · roter Ring	fine · fein	46µm	SG = ISO 544 Black ring · schwarzer Ring	super-coarse · supergrob	180µm

Micropreparation

Mikropräparation

830 B
830 BF

Lmm 2,7

REF	830 B	
ISO	806.314.524...	012
	830 BF	
	806.314.514...	012

830 RB
830 RBF

Lmm 2,7

REF	830 RB	
ISO	806.314.524...	009
	830 RBF	
	806.314.514...	009

838 B
838 BF

Lmm 2,7

REF	838 B	
ISO	806.314.524...	007
	838 BF	
	806.314.514...	007

889 B
889 BF

Lmm 2,7

REF	889 B	
ISO	806.314.524...	007
	889 BF	
	806.314.514...	007

953 AB
953 ABF

Lmm 2,5

REF	953 AB	
ISO	806.314.524...	014
	953 ABF	
	806.314.514...	014

953 B

Lmm 2,0

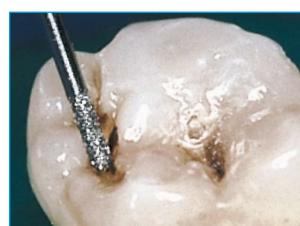
REF	953 B	
ISO	806.314.524...	014



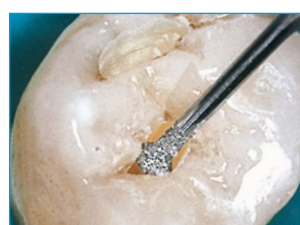
- ① Initial situation:
Undermining fissure caries
and proximal caries
*Ausgangssituation:
Unterminierende Fissuren-
und Approximalkaries*



- 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*

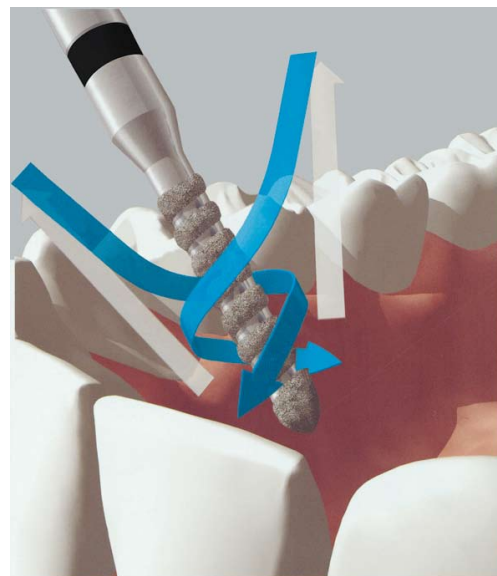


- ⑤ Aesthetic and anatomically
perfect composite restoration
*Ästhetisch und anatomisch
natürlich wirkende Composite-
Restaurationen*

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

InteC Instruments InteC Instrumente

super-coarse · 180 µm
supergrob · 180 µm



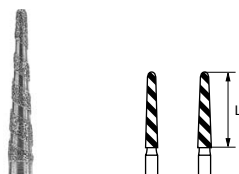
i 368



Lmm 4,5
REF ■ **i 368 SG**
ISO 806.314.544... **018**
023 = max. 300 000 min⁻¹



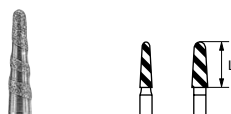
i 850



Lmm 10,0 10,0
REF ■ **i 850 SG**
ISO 806.314.544... **016 018**
016 = max. 300 000 min⁻¹
018 = max. 300 000 min⁻¹



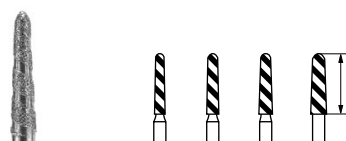
i 855



Lmm 6,0 6,0
REF ■ **i 855 SG**
ISO 806.314.544... **016 021**



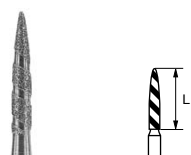
i 856



Lmm 8,0 8,0 8,0 8,0
REF ■ **i 856 SG**
ISO 806.314.544... **014 016 018 021**
021 = max. 160 000 min⁻¹



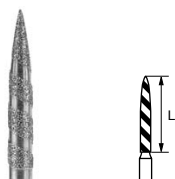
i 862



Lmm 8,0
REF ■ **i 862 SG**
ISO 806.314.544... **014**



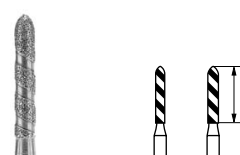
i 863



Lmm 10,0
REF ■ **i 863 SG**
ISO 806.314.544... **014**
014 = max. 300 000 min⁻¹



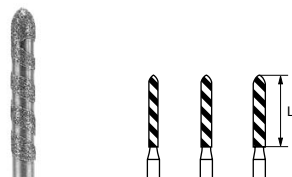
i 878



Lmm 8,0 8,0
REF ■ **i 878 SG**
ISO 806.314.544... **012 014**
012 = max. 300 000 min⁻¹



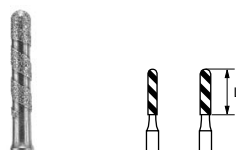
i 879



Lmm 10,0 10,0 10,0
REF ■ **i 879 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



i 880



Lmm 7,0 7,0
REF ■ **i 880 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



Bmm 2,5

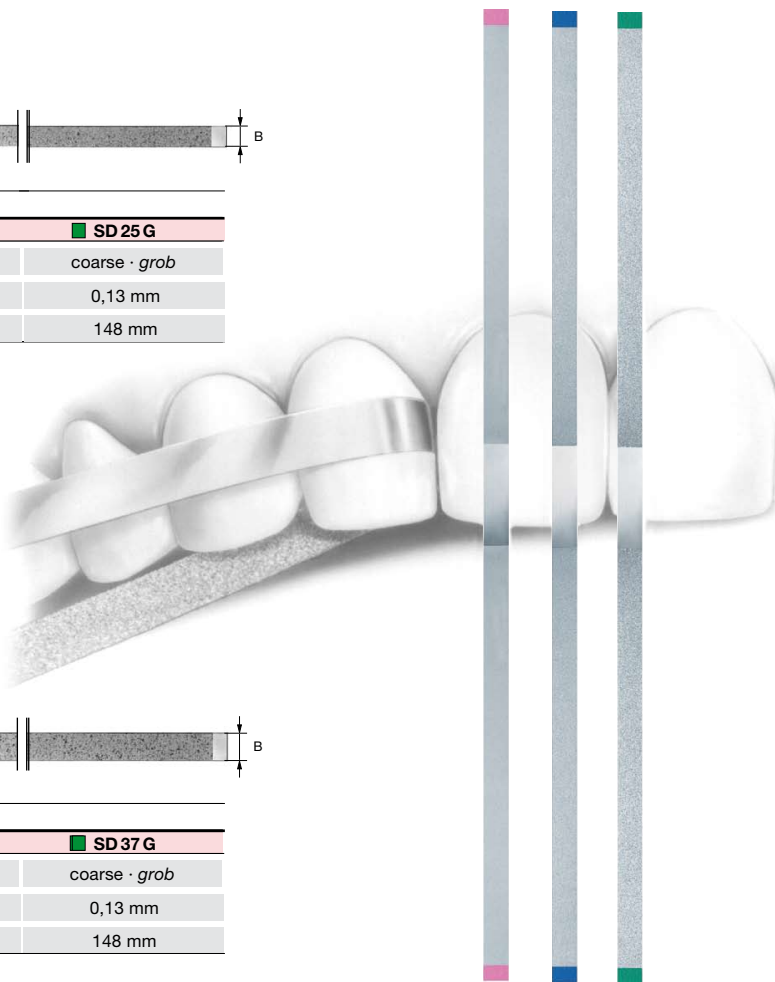
REF	SD 25 F	SD 25 M	SD 25 G
Grit · Körnung	fine · fein	medium · mittel	coarse · grob
Thickness · Stärke	0,08 mm	0,10 mm	0,13 mm
Length · Länge	148 mm	148 mm	148 mm

SD 37 F SD 37 M SD 37 G



Bmm 3,7

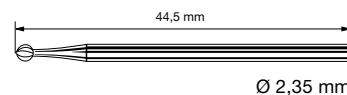
REF	SD 37 F	SD 37 M	SD 37 G
Grit · Körnung	fine · fein	medium · mittel	coarse · grob
Thickness · Stärke	0,08 mm	0,10 mm	0,13 mm
Length · Länge	148 mm	148 mm	148 mm



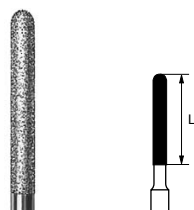
Diamond tools for laboratory application

Diamantwerkzeuge für das Dentallabor

104 · Handpiece · Handstück

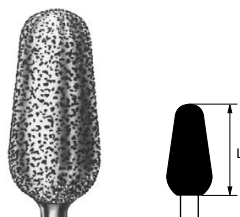


842 R



Lmm	12,0
REF 842 R	
ISO 806.104.143.524...	018

896



Lmm	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

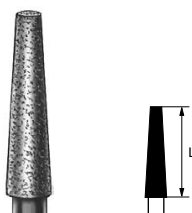

REF	7801
ISO	807.104.001.524... 018

7805
76805

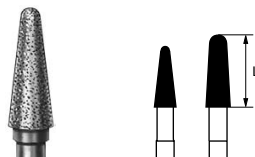

Lmm	0,9	1,5
REF	7805	
ISO	807.104.014.524... 018	029
ISO	76805	
ISO	807.104.014.534... 018	029

7818

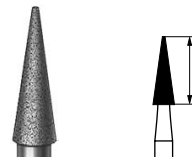

Lmm	0,5
REF	7818
ISO	807.104.041.524... 080
080 = max. 35 000 min ⁻¹	

7848


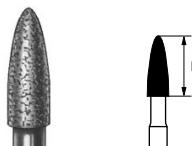
Lmm	12,0
REF	7848
ISO	807.104.174.524... 029

7856
76856


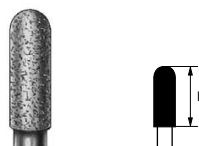
Lmm	8,0	9,5
REF	7856	
ISO	807.104.198.524... 029	
ISO	76856	
ISO	807.104.198.534... 033	

76859


Lmm	9,0
REF	76859
ISO	807.104.166.534... 029

7862


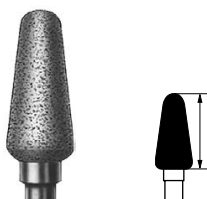
Lmm	8,0
REF	7862
ISO	807.104.243.524... 029

76881


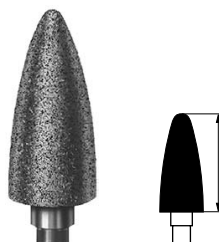
Lmm	8,0
REF	76881
ISO	807.104.141.534... 029

942F

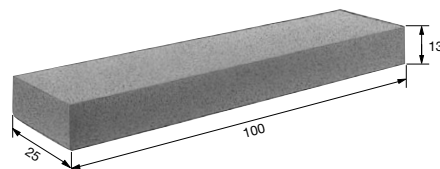

Bmm	2,0	2,0	2,0
REF	942F		
ISO	L mm 0,17	806.104.395.514... 140	200
fine · fein			
140 = max. 30 000 min ⁻¹ 200 = max. 20 000 min ⁻¹ 220 = max. 20 000 min ⁻¹			

76351


Lmm	10,0
REF	76351
ISO	807.104.263.534... 050
050 = max. 50 000 min ⁻¹	

76251


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

Diamond disc with continuous diamond-coated periphery and round perforations

- good vision

Diamantscheibe mit durchgehendem kreisrunden Umfangsprofil und kreisrunden Perforationen



Rigid · starr

coated on both sides · beidseitig belegt

for ceramics

- separating and grinding on both sides
- good vision

für Keramik

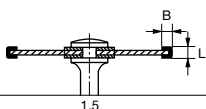
- zum beidseitigen Trennen und Schleifen
- freie Sicht auf das Arbeitsfeld

910P

Bmm

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

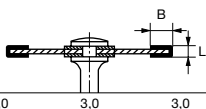
911HF 911HC

Bmm

REF	911HF	fine · fein
ISO	L mm 0,17	806.104.355.514... 180 200 220

REF	911HC	extra fine · extrafein
ISO	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



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

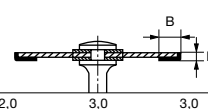
- zum Vorseparieren und Konturieren

911HHF

Bmm

REF	911HHF	fine · fein
ISO	L mm 0,15	806.104.356.514... 220

220 = max. 20 000 min⁻¹

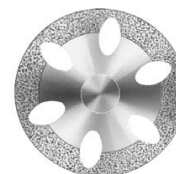


Diamond discs with oval perforations

- 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

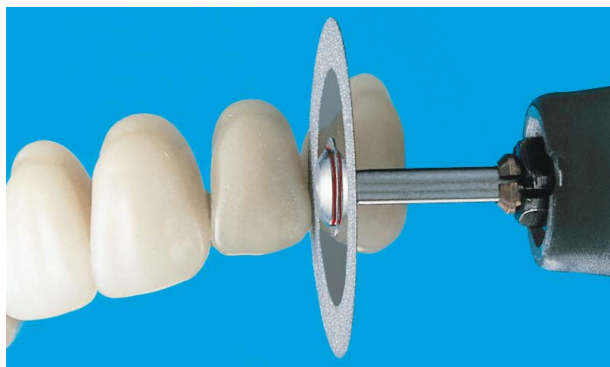
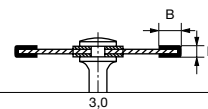
- zum Vorseparieren und Konturieren

911HPC

Bmm

REF	911HPC	extra fine · extrafein
ISO	L mm 0,15	806.104.317.504... 220

220 = max. 20 000 min⁻¹



REF 911HC.104.220

Diamond discs coated on both sides

Diamantscheiben (beidseitig belegt)
vorn oder hinten schleifend



Flexible · flexibel

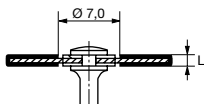
coated on both sides · beidseitig belegt

for ceramics

- separating and rough contouring

für Keramik

- zum Trennen und groben Konturieren

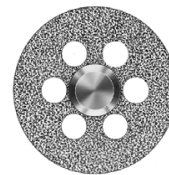


918BF

REF	918BF	fine · fein
ISO	Lmm 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

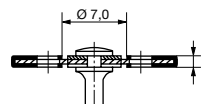
coated on both sides · beidseitig belegt

for ceramics

- rough grinding and separating
- contouring

für Keramik

- zum groben Vorschleifen und Trennen
- zum Konturieren



918PB

REF	918PB	fine · fein
ISO	Lmm 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

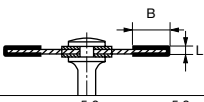
coated on both sides · beidseitig belegt

for ceramics

- separating

für Keramik

- zum Separieren



937F

Bmm	5,0	5,0
REF	937F	fine · fein
ISO	Lmm 0,25 806.104. 514...	200
200 = max. 20 000 min ⁻¹		

clockwise rotation only · nur rechtsdrehend einsetzen

Diamond disc with continuous diamond-interpersed periphery

Diamantscheibe
mit durchgehendem kreisrunden Umfangsprofil
(Rand durchsetzt)



Flexible · flexibel

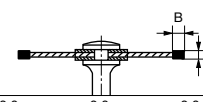
coated on both sides · beidseitig belegt

for ceramics

- initial separating and trimming

für Keramik

- zum Vorseparieren und Ausarbeiten



942F

Bmm		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

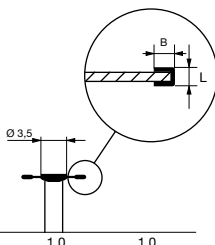
coated on both sides · beidseitig belegt

for ceramics

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

für Keramik

- zum feinen Separieren,
- Gestalten im Interdentalbereich
- Scheibenschutz verwenden



943C

Bmm						
		1,0		1,0		
REF		943C	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

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 Gerüsts auf ein Minimum
- zum Ausarbeiten von Acrylat- und Verblendarbeiten wie auch von Provisorien ohne die Gefahr der Durchtrennung



Miniature · Miniatur

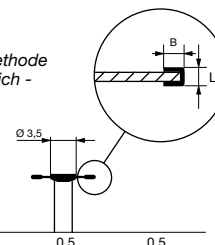
coated on both sides · beidseitig belegt

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



943CH

Bmm						
		0,5		0,5		
REF		943CH	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 · Miniatur

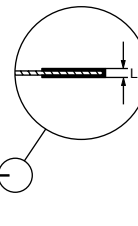
coated on both sides · beidseitig belegt

for ceramics

- fine separating

für Keramik

- zum feinen Separieren



945BC

Bmm						
		0,5		0,5		
REF		945BC	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



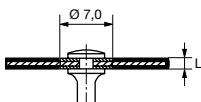
Flexible · flexibel

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	Lmm 0,25	806.104.389.514...
		220

220 = $\bigcirc$ 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

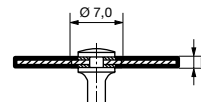
Hyperflexible · hyperflexibel

coated on both sides · beidseitig belegt

for ceramics

- fine separating and contouring
- für Keramik
- zum feinen Separieren und Konturieren

983 C



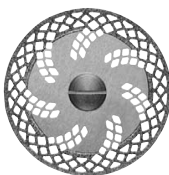
Bmm		
REF	983 C	extra fine · extrafein
ISO	Lmm 0,10	806.104.401.504...
		220

220 = $\bigcirc$ max. 20 000 min⁻¹

clockwise rotation only · nur rechtsdrehend einsetzen

Spiral Reinforced Meshed Disc

Spiralverstärkte Netzscheibe



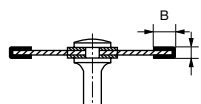
Flexible · flexibel

coated on both sides · beidseitig belegt

for ceramics and plastics

- rough separating and contouring
- für Keramik und Kunststoff
- zum groben Separieren und Konturieren

990

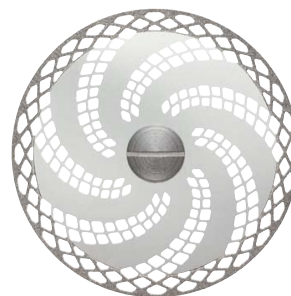


Bmm		
REF	990	medium · mittel
ISO	Lmm 0,27	806.104.
		180 220

180/220 = $\bigcirc$ max. 20 000 min⁻¹

Spiral Reinforced Meshed Disc

Spiralverstärkte Netzscheibe



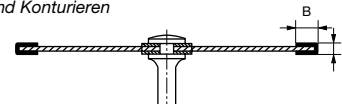
Flexible · flexibel

coated on both sides · beidseitig belegt

for plaster

- rough separating and contouring
- für Gips
- zum groben Separieren und Konturieren

990



Bmm		
REF	990	medium · mittel
ISO	Lmm 0,37	806.104.
		400

400 = $\bigcirc$ max. 10 000 min⁻¹

Burs | Fraises

			
Round <i>Rund</i>	Pear <i>Birne</i>	Cylinder round <i>Zylinder rund</i>	Tapered round <i>Konisch rund</i>
31	32	32, 33	32, 33
			
Inverted cone <i>Umgekehrter Kegel</i>	Cylinder <i>Zylinder</i>	Tapered <i>Konisch</i>	Cylinder, end cutting only <i>Zylinder, Stirn schneidend</i>
31	32, 33	32, 33	

Crown Cutters | Kronentrenner

	
Cylinder round <i>Zylinder rund</i>	Tapered round <i>Konisch rund</i>
34 + 35	34

Amalgam Remover | Amalgamentferner


Cylinder round <i>Zylinder rund</i>
35

Adhesive Remover | Klebstoffentferner


Cylinder round <i>Zylinder rund</i>
35

Finishing Instruments | Finierer

				
Round <i>Rund</i>	Flame <i>Flamme</i>	Tapered round <i>Konisch rund</i>	Egg <i>Ei</i>	B Finishing Instruments <i>B Finierer</i>
36	36	37	38	40
				
Bud <i>Knospe</i>	Pointed <i>Spitz</i>	Torpedo <i>Torpedo</i>	Grenade <i>Granate</i>	
36	36-37	37-38	38	
				
Pear <i>Birne</i>	Needle-shaped <i>Nadelform</i>	Torpedo tapered <i>Torpedo konisch</i>	DF Finishing Instruments <i>DF Finierer</i>	
36	37	37-38	39	

Surgical Instruments | Chirurgische Instrumente

		
Round <i>Rund</i>	Tapered <i>Konisch</i>	Bone Cutter <i>Knochenfräser</i>
41 - 42	41	43
		
Cylinder <i>Zylinder</i>	Cylinder round <i>Zylinder rund</i>	
41	41	

Tungsten Carbide Cutters | Hartmetallfräser


44 - 58

Auxiliaries | Zubehör


58

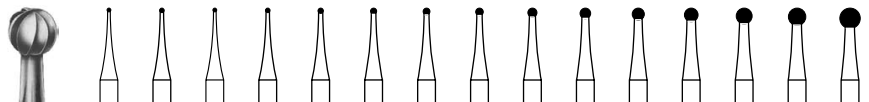
Please note that the various instruments within each product group (e.g. tungsten carbide burs, carbide finishers or surgical instruments) are sorted by their reference number in ascending order. For carbide cutters, however, please note that in the first instance they are additionally sorted by their 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

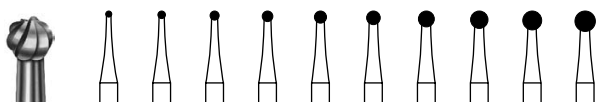


US No.	1/4	1/2	-	1	-	2	3	4	5	6	7	8				
REF	CB 1															
ISO	500.104.001.001...	003	004	005	006	007	008	009	010	012	014	016	018	021	023	027
	500.204.001.001...			005	006	007	008	009	010	012	014	016	018	021	023	027
	500.205.001.001...								010		014	016	018		023	
	500.314.001.001...			005	006		008		010	012	014	016	018	021	023	

021 = $\varnothing$ max. 300 000 min⁻¹

023 = $\varnothing$ max. 300 000 min⁻¹

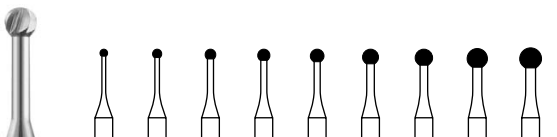

CB 1 S



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 = $\varnothing$ max. 300 000 min⁻¹
NEW

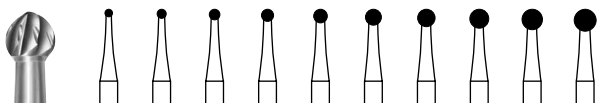

CB 1 SN



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								

 $\varnothing$ max. 100 000 min⁻¹


CB 1 SX

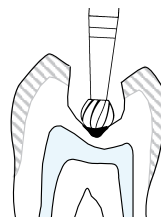


REF CB 1 SX																
ISO	500.204.001.XXX...	010	012	014	016	018	021	023	025	027	029					



Cross-section of the CB 1S
Querschnitt CB 1S

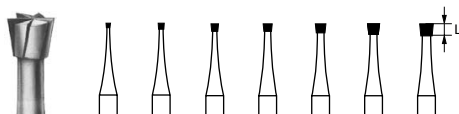
Cross-section of the CB 1SX
Querschnitt CB 1SX



Excavating with the CB 1S/CB 1SX
Exkavieren mit dem CB 1S/CB 1SX



CB 2

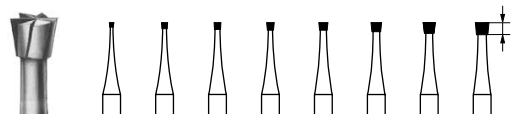


L mm		0,5	0,9	1,1	1,2	1,4	1,6	1,8
US No.		33 1/2	34	35	36	37	38	
REF CB 2								
ISO	500.204.010.001...	008	010	012	014	016	018	
	500.314.010.001...	006	008	010	012	014	016	018



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 7L

L mm		3,8	4,2
US No.		331L	332L
REF CB 7L			
ISO	500.314.234.006...	010	012



CB 7SM

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 21MX

L mm	4,2
US No.	558E
REF CB21MX	
ISO	500.104.107.019... 012



CB 21 R

L mm		4,2	4,2
US No.		1157	1159
REF CB 21 R			
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 23 L					
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 249 M	
ISO	500.314.XXX. ...	007



CB 23 R

L mm		4,2	4,2	4,4
US No.		1170	1171	1172
REF CB 23 R				
ISO	500.104.194.006...	010	012	016
	500.204.194.006...	010	012	016
	500.314.194.006...	010	012	016



CB 23RMX

L mm	4,2
REF CB 23RMX	
ISO	500.104.196.019... 010

NEW



CB 23 RS

L mm		4,2	4,2	4,2
REF CB 23 RS				
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	4,4
US No.	555	557	558	559	560	
REF CB 31						
ISO	500.104.107.007...	008	010	012	014	016 023
	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



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



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

021 = max. 300 000 min⁻¹



CB 33 R

L mm	4,2	4,2	4,4
US No.	1700	1701	1702
REF CB 33 R			
ISO	500.104.194.007...	010	012
	500.314.194.007...	012	016



CB 59

L mm	2,5
REF CB 59	
ISO	500.313.XXX... 010
	500.314.XXX... 010



CB 97

REF CB 97	
ISO	500.104.468.373... 010
	500.314.468.373... 010

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

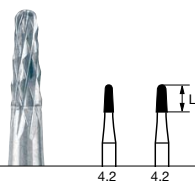
The All-Rounder • Das Multitalent



Multifunctional

CB 5 TR

L mm



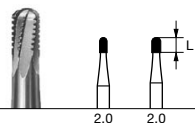
REF	CB 5 TR
ISO	500.314.194.XXX... 012 014
low fusion ceramic veneers and all conventional metal alloys niedrigschmelzende Keramikverblendungen und alle gängigen Metall-Legierungen	



Turbo

CB 34

L mm



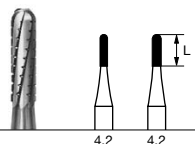
REF	CB 34
ISO	500.314.138.293... 010 012
gold-colored instruments goldfarbene Instrumente	



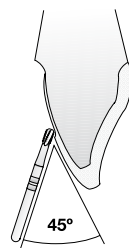
Economic

CB 35 C

L mm



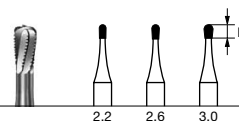
REF	CB 35 C
ISO	500.314. 010 012
gold-colored instruments goldfarbene Instrumente	



Classic

CB 17

L mm



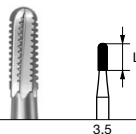
REF	CB 17
ISO	500.314.237.293... 009 010 012
gold-colored instruments goldfarbene Instrumente	



Turbo-L

CB 34 L

L mm



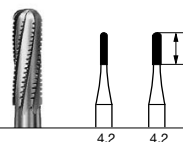
REF	CB 34 L
ISO	500.314.139.293... 012
gold-colored instruments goldfarbene Instrumente	



Multifunctional

CB 37 R

L mm



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



Aggressiv

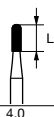
NEW

NEW

Also available as a set.
Auch als Set erhältlich.

CB 40 AG

L mm



4,0

REF	CB 40 AG
ISO	500.314.139.008... 012

100494

Contents · Inhalt

REF	CB 40 AG	ABB 15
ISO	500.314.139.008 012	
	10	1

100494

Amalgam Remover

Amalgamentferner


CB 21 RMX

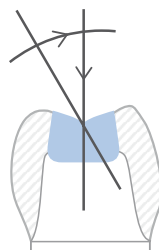
L mm



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

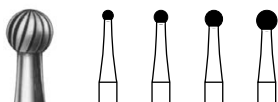


Finishing Instruments

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 47 L


L mm 4,2 4,4
US No. 7303 7304

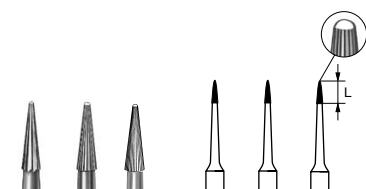
REF	CF 47 L
ISO	500.314.234.072... 012 014



CF 132

CF 132 F

CF 132 UF


L mm 3,0 3,0 3,0
Blades · Schneiden 8 16 30

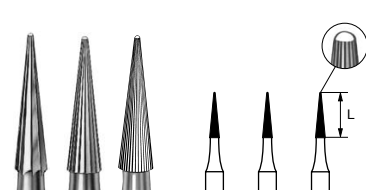
REF	CF 132
ISO	500.314.699.071... 008
	CF 132 F fine · fein
	500.314.699.041... 008
	CF 132 UF ultra-fine · ultrafein
	500.314.699.031... 008

008 = max. 300 000 min⁻¹


CF 134

CF 134 F

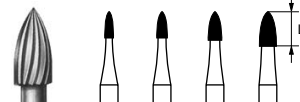
CF 134 UF


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



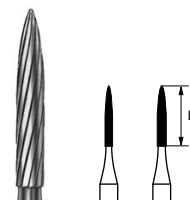
CF 46


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 48 L



L mm 8,0 8,0

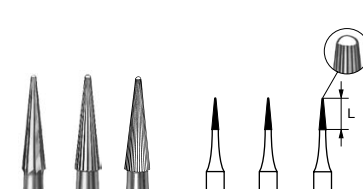
REF	CF 48 L
ISO	500.314.249.072... 010 012

= max. 300 000 min⁻¹


CF 133

CF 133 F

CF 133 UF


L mm 4,2 4,2 4,2
Blades · Schneiden 8 16 30

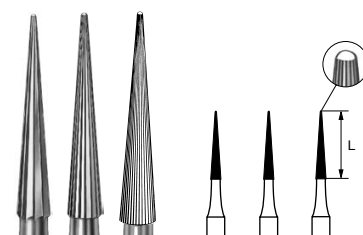
REF	CF 133
ISO	500.314.159.071... 010
	CF 133 F fine · fein
	500.314.159.041... 010
	CF 133 UF ultra-fine · ultrafein
	500.314.159.031... 010



CF 135

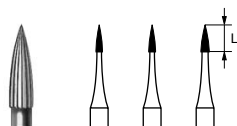
CF 135 F

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

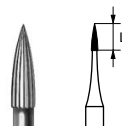
= max. 300 000 min⁻¹



CF 246

L mm 3,6 3,6 3,6
US No. 7901 7902 7903

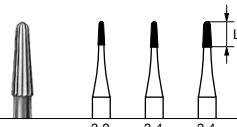
REF	CF 246
ISO	500.204.496.071... 009
ISO	500.314.496.071... 009 010 012



CF 246 UF

L mm 3,6

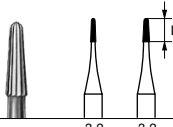
REF	CF 246 UF	ultra-fine · ultrafein
ISO	500.314.496.031... 009	



CF 247

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

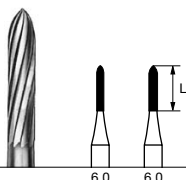
REF	CF 247
ISO	500.314.195.071... 009 010 012



CF 247 F

L mm 3,2 3,2

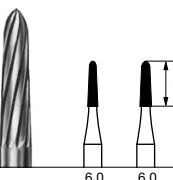
REF	CF 247 F	fine · fein
ISO	500.314.195.041... 007 009	



CF 282

L mm 6,0 6,0 6,0

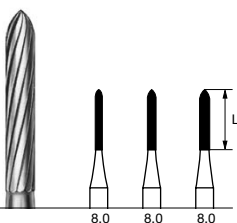
REF	CF 282
ISO	500.314.288.072... 010 012



CF 282 K

L mm 6,0 6,0 6,0

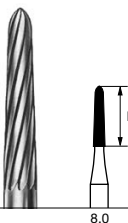
REF	CF 282 K
ISO	500.204.297.072... 014 016
ISO	500.314.297.072... 014



CF 283

L mm 8,0 8,0 8,0

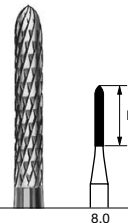
REF	CF 283
ISO	500.204.289.072... 012
ISO	500.314.289.072... 010 012 014



CF 283 K

L mm 8,0

REF	CF 283 K
ISO	500.204.298.072... 016
ISO	500.314.298.072... 016



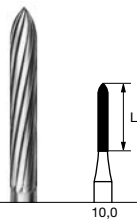
CF 283 MX

L mm 8,0

REF	CF 283 MX
ISO	500.104.289.080... 012
ISO	500.314.289.080... 012

010-014 = max. 300 000 min⁻¹

012 = max. 300 000 min⁻¹

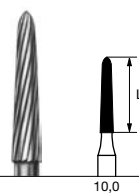


CF 284

L mm

10,0

REF	CF 284
ISO	500.314.290.072... 014
014 = max. 300 000 min⁻¹	

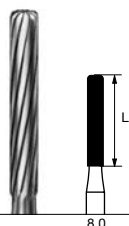


CF 284 K

L mm

10,0

REF	CF 284 K
ISO	500.314.299.072... 018
018 = max. 300 000 min⁻¹	

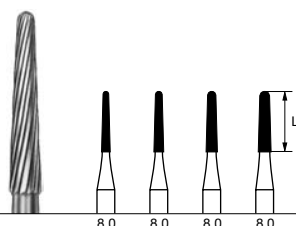


CF 297

L mm

8,0

REF	CF 297
ISO	500.314.158.072... 012
012 = max. 300 000 min⁻¹	

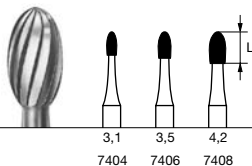


CF 375 R

L mm

8,0

REF	CF 375 R
ISO	500.314.198.072... 012 014 016 018
012-014 = max. 300 000 min⁻¹	



CF 379

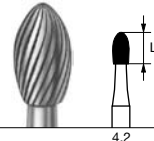
L mm

3,1

3,5

4,2

REF	CF 379
ISO	500.204.277.072... 014 018 023
500.314.277.072... 014 018 023	
023 = max. 300 000 min⁻¹	

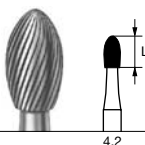


CF 379 F

L mm

4,2

REF	CF 379 F	fine · fein
ISO	500.314.277.042... 023	
023 = max. 300 000 min⁻¹		

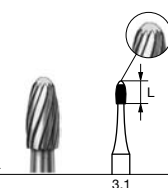


CF 379 UF

L mm

4,2

REF	CF 379 UF	ultra-fine · ultrafein
ISO	500.314.277.032... 023	
023 = max. 300 000 min⁻¹		

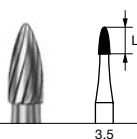


CF 379 GK

L mm

3,1

REF	CF 379 GK
ISO	500.314.279.072... 014



CF 390

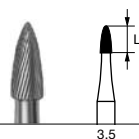
L mm

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

CF 216 DF

L mm

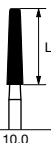


REF CF 216 DF

ISO 500.314.XXX.XXX... 018

CF 217 DF

L mm

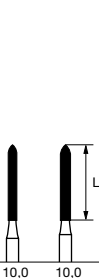


REF CF 217 DF

ISO 500.314.XXX.XXX... 021

CF 284 DF

L mm

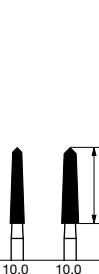


REF CF 284 DF

ISO 500.314.XXX.XXX... 012 014

CF 341 DF

L mm



REF CF 341 DF

ISO 500.314.XXX.XXX... 018 023

CF 283 DF

L mm

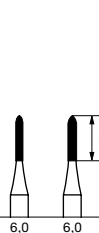


REF CF 283 DF

ISO 500.314.XXX.XXX... 012 014

CF 340 DF

L mm



REF CF 340 DF

ISO 500.314.XXX.XXX... 016 020

CF 375 RDF

L mm



REF CF 375 RDF

ISO 500.314.XXX.XXX... 018

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



B Finishing Instruments

B Finierer

NEW

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

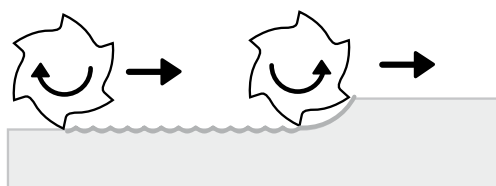
Multifunctional use

- 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

Multifunktionaler 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

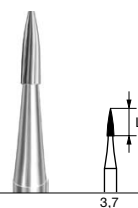
REF **CF 48 LB**

ISO 500.314.XXX.XXX... 012

max. 300 000 min⁻¹

CF 246 B

L mm



3,7

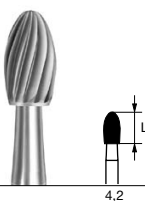
REF **CF 246 B**

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



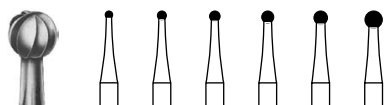
Surgical Instruments

Chirurgische Instrumente

316 · FG extra-long · FG extra lang



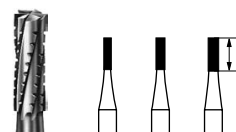
CB 1



US No.	1/4	1/2	-	-
REF	CB 1			
ISO	500.316.001.001...	010	012	014 016 018 023
010-023 = max. 100 000 min ⁻¹				



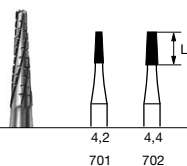
CB 31



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			



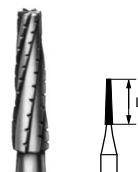
CB 33



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		



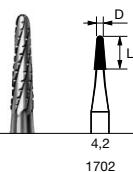
CB 33 L



L mm	6,0
US No.	700xL
REF	CB 33 L
ISO	500.316.171.007... 010
010 = max. 300 000 min ⁻¹	



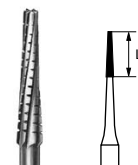
CB 33 R



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



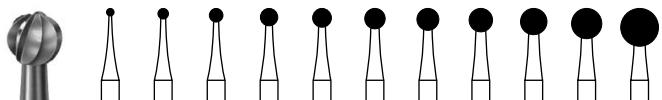
L mm	6,0
US No.	700xL
REF	CB 254
ISO	500.314.415.296... 010
010 = max. 80 000 min ⁻¹	

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

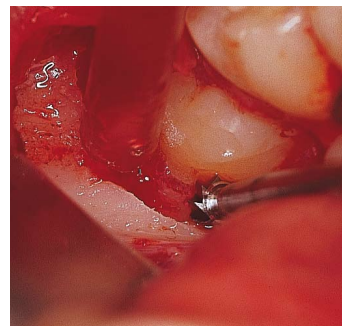
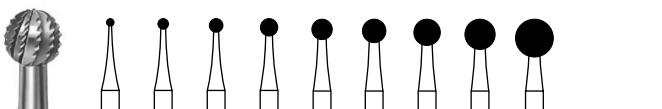


Photo: Dr. Fürstenau, Detmold, Germany



CB 141A



REF	CB 141A												
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

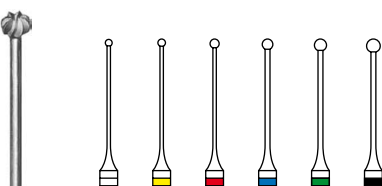
Endodontie

Endodontics

NEW



191



REF	191												
ISO	500.104.XXX.XXX...												
	500.204.XXX.XXX...	090	100	120	140	160	180						

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

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 267

L mm	11,0
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



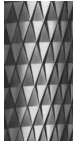
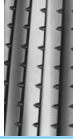
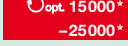
CB 269GK

L mm	11,0
REF	CB 269GK
ISO	500.314.219.295... 016

max. 160 000 min⁻¹



CB 255 A

Application types Anwendungsart	Speed Drehzahl (min ⁻¹)	Tooth types Verzahnungsarten
 Veneer acrylics <i>Prothesenkunststoffe</i>		 Conventional Trimming · Ausarbeiten Page · Seite 45, 46 AX
 Dry plaster / Model plaster <i>Trockene Gipse / Modelle</i>		 CX Page · Seite 46 Bulk reduction <i>Grober Abtrag</i>
 Wet plaster / Model plaster <i>Feuchte Gipse / Modelle</i>		 SCX/A Page · Seite 46 Bulk reduction <i>Grober Abtrag</i>
 Precious metals / Non-precious metal alloys <i>Edelmetalle / NEM</i>		 DX Page · Seite 47 Roughening <i>Aufrauen</i>
 Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics <i>NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe</i>		 FX Page · Seite 48, 49 Corrections · smoothing <i>Korrekturen · Glätten</i>
 Titanium <i>Titan</i>		 FTX Page · Seite 50 Finishing <i>Finieren</i>
 Titanium / Non-precious metal alloys <i>Titan / Nicht-Edelmetalle</i>		 GTX Page · Seite 51 Cutting <i>Zerspanen</i>
 Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics <i>NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe</i>		 MX Page · Seite 52, 53 Trimming · smoothing <i>Ausarbeiten · Glätten</i>
 Soft relinings / Denture acrylics / Non-precious metal alloys / Precious metal alloys / Model cast alloys / Veneer acrylics <i>Weichbleibende Unterfütterungen / Prothesenkunststoffe / NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe</i>		 QFX Page · Seite 54 Trimming · contouring <i>Ausarbeiten · Konturieren</i>
 Soft acrylics / Temporary appliances <i>Softkunststoffe / Provisorien</i>		 QX Page · Seite 55 Trimming · smoothing <i>Ausarbeiten · Glätten</i>
 Hard non-precious metal alloys <i>Harte NEM-Legierungen</i>		 TX Page · Seite 56 Trimming · contouring <i>Ausarbeiten · Konturieren</i>
 Non-precious metal alloys / Precious metals / Model cast / Veneer acrylics / Soft ceramics <i>NEM- / Edelmetall- / Modellguss-Legierungen / Verblendkunststoffe / Softkeramik</i>		 VFX Page · Seite 57, 58 Trimming · smoothing <i>Ausarbeiten · Glätten</i>

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

Conventional Cutters

Normalverzahnung

Veneer acrylics
Prothesenkunststoffe

Trimming
Ausarbeiten

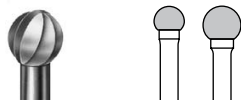
Opt. 15,000 rpm

Conventional



→ **CB 1**

CC 71

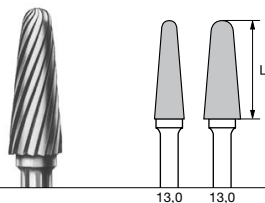


REF	CC 71
ISO	500.104.001.175... 040 050
040	= max. 100 000 min ⁻¹
050	= max. 80 000 min ⁻¹



CC 79

L mm

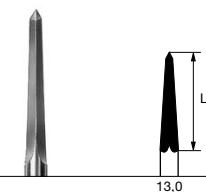


REF	CC 79
ISO	500.104.194.175... 040 050
040	= max. 100 000 min ⁻¹
050	= max. 80 000 min ⁻¹



CC 219

L mm

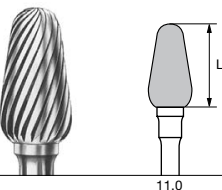


REF	CC 219
ISO	500.104.468.211... 023



CC 351

L mm

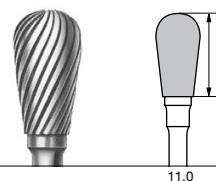


REF	CC 351
ISO	500.104.263.175... 060
060	= max. 50 000 min ⁻¹



CC 77

L mm

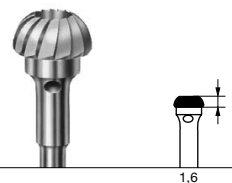


REF	CC 77
ISO	500.104.237.175... 060
060	= max. 50 000 min ⁻¹



CC 98

L mm

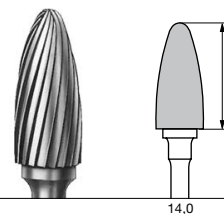


REF	CC 98
ISO	500.104.547.211... 040
060	= max. 100 000 min ⁻¹



CC 251

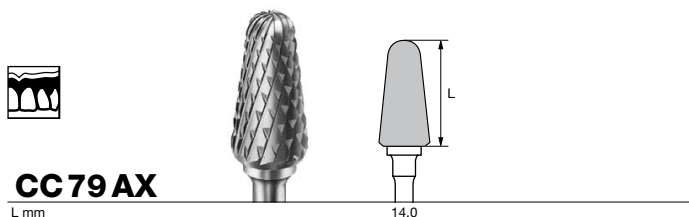
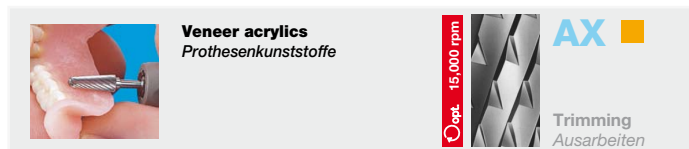
L mm



REF	CC 251
ISO	500.104.274.175... 060
060	= max. 50 000 min ⁻¹

AX Cutters

AX Verzahnung

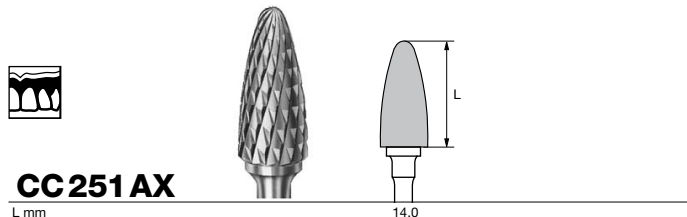


CC79 AX

L mm

14,0

REF	CC79 AX
ISO	500.104.XXX.XXX... 070
max. 50 000 min ⁻¹	



CC251 AX

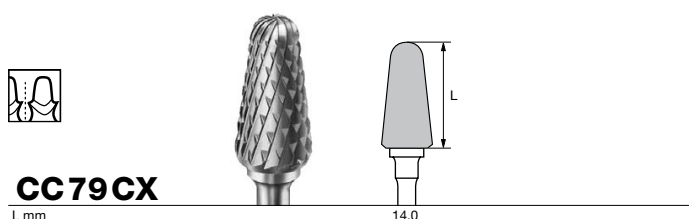
L mm

14,0

REF	CC251 AX
ISO	500.104.274.XXX... 060
max. 50 000 min ⁻¹	

CX/SCX Cutters

CX/SCX Verzahnung

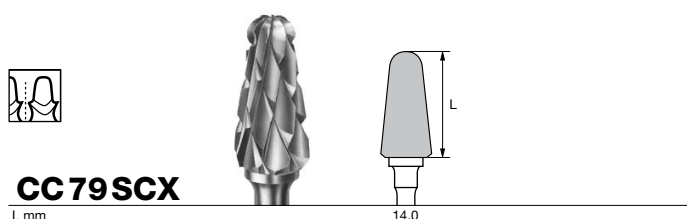
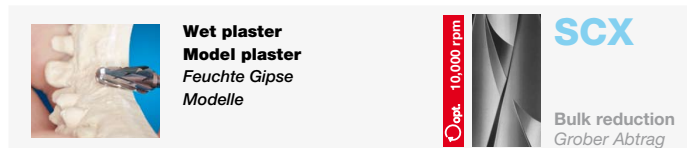


CC79 CX

L mm

14,0

REF	CC79 CX
ISO	500.104.194.220... 070
max. 30 000 min ⁻¹	

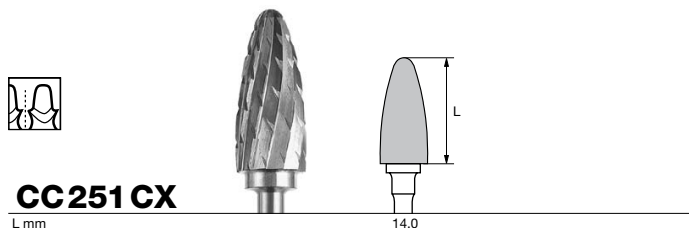


CC79 SCX

L mm

14,0

REF	CC79 SCX
ISO	500.104.194.223... 070
max. 30 000 min ⁻¹	

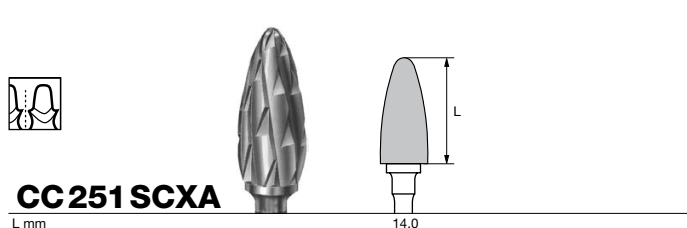


CC251 CX

L mm

14,0

REF	CC251 CX
ISO	500.104.274.220... 060
max. 50 000 min ⁻¹	



CC251 SCXA

L mm

14,0

REF	CC251 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
Aufräuen

CC 79 DX

L mm

13,0 13,0

REF	CC 79 DX
ISO	500.104.194.141... 031 040

CC 136 DX

L mm

8,0

REF	CC 136 DX
ISO	500.104.184.141... 016

CC 139 DX

L mm

8,0

REF	CC 139 DX
ISO	500.104.289.141... 023

CC 261 DX

L mm

13,0

REF	CC 261 DX
ISO	500.104.194.141... 023

CC 73 DX

L mm

3,1 4,2

REF	CC 73 DX
ISO	500.104.277.141... 014 023

CC 129 DX

L mm

8,0

REF	CC 129 DX
ISO	500.104.141.141... 023

CC 138 DX

L mm

8,0

REF	CC 138 DX
ISO	500.104.198.141... 023

CC 251 DX

L mm

14,0

REF	CC 251 DX
ISO	500.104.274.141... 060

max. 50 000 min⁻¹

CC 351 DX

L mm

8,0

REF	CC 351 DX
ISO	500.104.263.141... 040

FX Cutters

FX Verzahnung



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

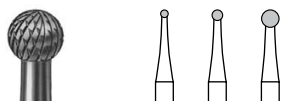
Opt. 15.000 rpm
- 25.000 rpm



FX 
 Corrections
 · smoothing
 Korrekturen ·
 Glätten



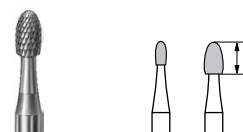
CC 71 FX



REF	 CC 71 FX
ISO	500.104.001.140... 010 014 023



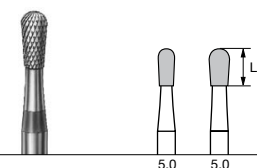
CC 73 FX



REF	 CC 73 FX
ISO	500.104.277.140... 014 023



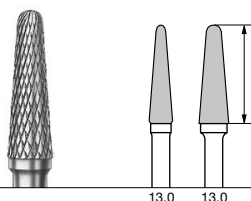
CC 77 FX



REF	 CC 77 FX
ISO	500.104.237.140... 023 029



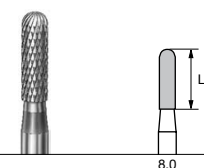
CC 79 FX



REF	 CC 79 FX
ISO	500.104.194.140... 031 040



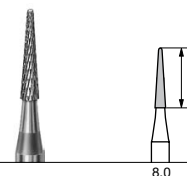
CC 129 FX



REF	 CC 129 FX
ISO	500.104.141.140... 023



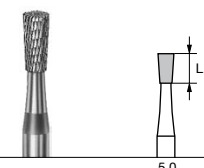
CC 136 FX



REF	 CC 136 FX
ISO	500.104.184.140... 016



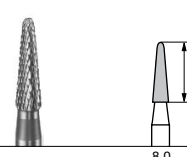
CC 137 FX



REF	 CC 137 FX
ISO	500.104.225.140... 023



CC 138 FX

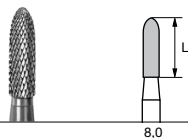


REF	 CC 138 FX
ISO	500.104.198.140... 023



CC 139 FX

L mm


REF **CC 139 FX**

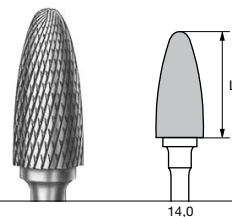
ISO 500.104.289.140...

023



CC 251 FX

L mm


REF **CC 251 FX**

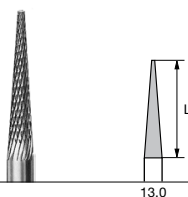
ISO 500.104.274.140...

060

max. 50 000 min⁻¹

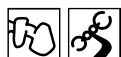

CC 257 FX

L mm


REF **CC 257 FX**

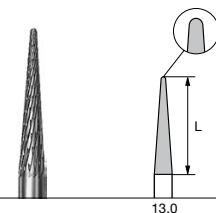
ISO 500.104.187.140...

023



CC 257 R FX

L mm


REF **CC 257 R FX**

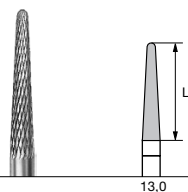
ISO 500.104.201.140...

023



CC 261 FX

L mm


REF **CC 261 FX**

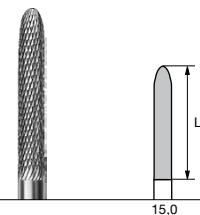
ISO 500.104.194.140...

023



CC 295 FX

L mm


REF **CC 295 FX**

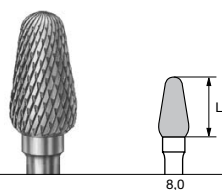
ISO 500.104.292.140...

023



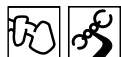
CC 351 FX

L mm


REF **CC 351 FX**

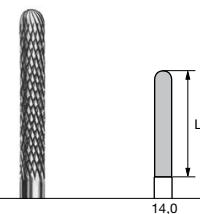
ISO 500.104.263.140...

040

max. 50 000 min⁻¹


CC 364 RFX

L mm


REF **CC 364 RFX**

ISO 500.104.137.140...

023

FTX Cutters

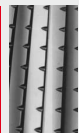
FTX Verzahnung

NEW

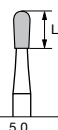


Titanium
Titan

Opt. 15,000 rpm



FTX
Finishing
Finieren



CC 77 FTX

L mm

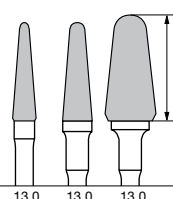
5,0

REF CC 77 FTX

ISO 500.104.237.137...

023

max. 100 000 min⁻¹



CC 79 FTX

L mm

13,0

13,0

13,0

REF CC 79 FTX

ISO 500.104.194.137...

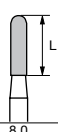
031

040

070

max. 100 000 min⁻¹

070 = max. 30 000 min⁻¹



CC 129 FTX

L mm

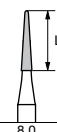
8,0

REF CC 129 FTX

ISO 500.104.141.137...

023

max. 100 000 min⁻¹



CC 136 FTX

L mm

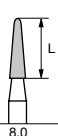
8,0

REF CC 136 FTX

ISO 500.104.184.137...

016

max. 100 000 min⁻¹



CC 138 FTX

L mm

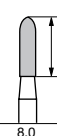
8,0

REF CC 138 FTX

ISO 500.104.198.137...

023

max. 100 000 min⁻¹



CC 139 FTX

L mm

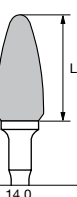
8,0

REF CC 139 FTX

ISO 500.104.289.137...

023

max. 100 000 min⁻¹



CC 251 FTX

L mm

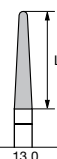
14,0

REF CC 251 FTX

ISO 500.104.274.137...

060

max. 50 000 min⁻¹



CC 261 FTX

L mm

13,0

REF CC 261 FTX

ISO 500.104.194.137...

023

max. 100 000 min⁻¹

GTX Cutters

GTX Verzahnung

NEW

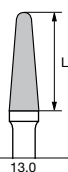


Titanium / Non-precious metal alloys
Titan / Nicht-Edelmetalle

Opt. 15,000 rpm



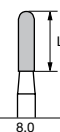
GTX
Zerspanen
Cutting


CC 79 GTX

L mm

13,0

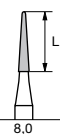
REF	■ CC 79 GTX
ISO	500.104.XXX.XXX... 040
max. 100 000 min ⁻¹	


CC 129 GTX

L mm

8,0

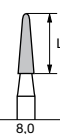
REF	■ CC 129 GTX
ISO	500.104.XXX.XXX... 023
max. 100 000 min ⁻¹	


CC 136 GTX

L mm

8,0

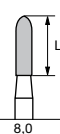
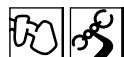
REF	■ CC 136 GTX
ISO	500.104.XXX.XXX... 016
max. 100 000 min ⁻¹	


CC 138 GTX

L mm

8,0

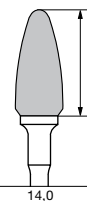
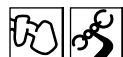
REF	■ CC 138 GTX
ISO	500.104.XXX.XXX... 023
max. 100 000 min ⁻¹	


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

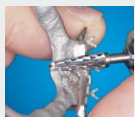
L mm

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**

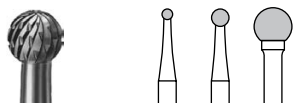


MX

Trimming
· smoothing
Ausarbeiten
· Glätten



CC 71 MX

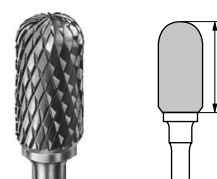


REF	CC 71 MX
ISO	500.104.001.190... 014 023 050

050 = $\varnothing$ max. 80 000 min⁻¹

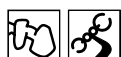


CC 72 MX

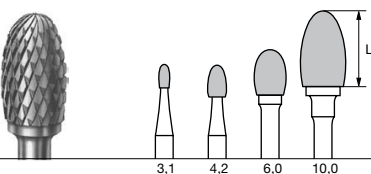


REF	CC 72 MX
ISO	500.104.137.190... 060

$\varnothing$ max. 50 000 min⁻¹

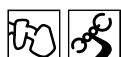


CC 73 MX

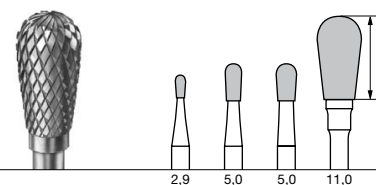


REF	CC 73 MX
ISO	500.104.277.190... 014 023 040 060

060 = $\varnothing$ max. 50 000 min⁻¹

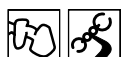


CC 77 MX

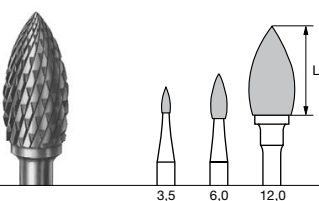


REF	CC 77 MX
ISO	500.104.237.190... 014 023 029 060

060 = $\varnothing$ max. 50 000 min⁻¹



CC 78 MX

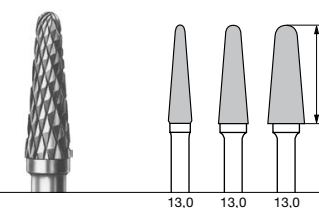


REF	CC 78 MX
ISO	500.104.257.190... 012 023 060

060 = $\varnothing$ max. 50 000 min⁻¹



CC 79 MX

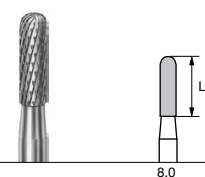


REF	CC 79 MX
ISO	500.104.194.190... 031 040 050

050 = $\varnothing$ max. 80 000 min⁻¹



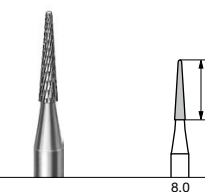
CC 129 MX



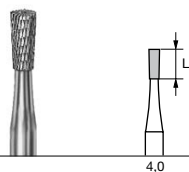
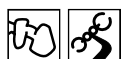
REF	CC 129 MX
ISO	500.104.141.190... 023



CC 136 MX



REF	CC 136 MX
ISO	500.104.184.190... 016

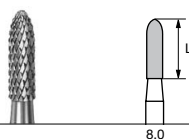


CC 137 MX

L mm

4,0

REF	CC 137 MX
ISO	500.104.225.190... 016

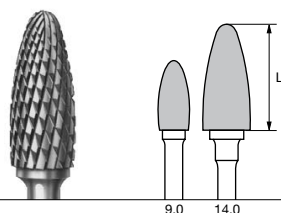


CC 139 MX

L mm

8,0

REF	CC 139 MX
ISO	500.104.289.190... 023



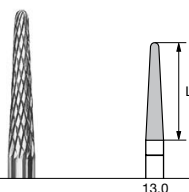
CC 251 MX

L mm

9,0

14,0

REF	CC 251 MX
ISO	500.104.274.190... 040 060

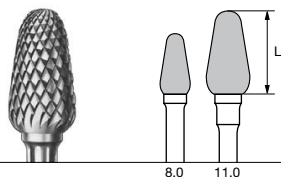
060 = max. 50 000 min⁻¹


CC 261 MX

L mm

13,0

REF	CC 261 MX
ISO	500.104.194.190... 023



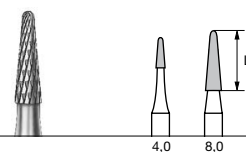
CC 351 MX

L mm

8,0

11,0

REF	CC 351 MX
ISO	500.104.263.190... 040 060

060 = max. 50 000 min⁻¹


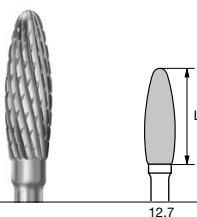
CC 138 MX

L mm

4,0

8,0

REF	CC 138 MX
ISO	500.104.196.190... 014
ISO	500.104.198.190... 023

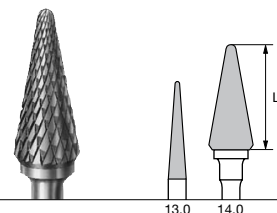


CC 250 MX

L mm

12,7

REF	CC 250 MX
ISO	500.104. XXX.190... 040



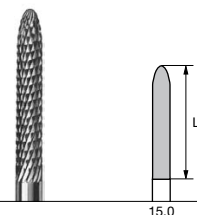
CC 257 R MX

L mm

13,0

14,0

REF	CC 257 R MX
ISO	500.104. 201.190... 023 060

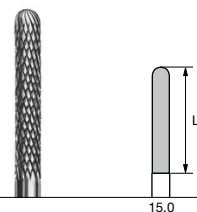
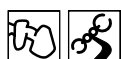
060 = max. 50 000 min⁻¹


CC 295 MX

L mm

15,0

REF	CC 295 MX
ISO	500.104.292.190... 023



CC 364 R MX

L mm

15,0

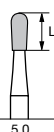
REF	CC 364 R MX
ISO	500.104.137.190... 023

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

QFX
 Trimming
 · contouring
 Ausarbeiten ·
 Konturieren

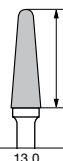


CC 77 QFX

L mm

5,0

REF	CC 77 QFX
ISO	500.104.237.134... 023

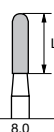


CC 79 QFX

L mm

13,0

REF	CC 79 QFX
ISO	500.104.194.134... 040

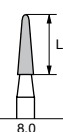


CC 129 QFX

L mm

8,0

REF	CC 129 QFX
ISO	500.104.141.134... 023
max. 100 000 min ⁻¹	

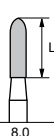


CC 138 QFX

L mm

8,0

REF	CC 138 QFX
ISO	500.104.198.134... 023
max. 100 000 min ⁻¹	

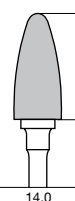


CC 139 QFX

L mm

8,0

REF	CC 139 QFX
ISO	500.104.289.134... 023
max. 100 000 min ⁻¹	

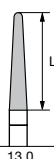


CC 251 QFX

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

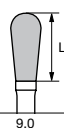
Opt. 15.000 rpm

QX
 Trimming
 • smoothing
 Ausarbeiten
 • Glätten



CC 77 QX

L mm



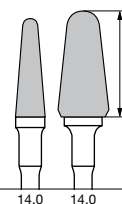
9,0

REF	CC 77 QX
ISO	500.104.237.XXX... 040



CC 79 QX

L mm



14,0

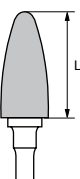
14,0

REF	CC 79 QX
ISO	500.104.194.XXX... 040 070
max. 30 000 min ⁻¹	



CC 251 QX

L mm



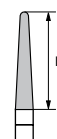
14,0

REF	CC 251 QX
ISO	500.104.274.XXX... 060
max. 50 000 min ⁻¹	



CC 261 QX

L mm



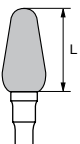
13,0

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

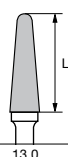
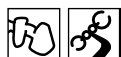


**Hard non-precious
metal alloys**
Harte NEM-Legierungen

Opt. 15.000 rpm



TX
Trimming
· contouring
Ausarbeiten ·
Konturieren



CC 79 TX

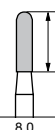
L mm

13,0

REF **CC 79 TX**

ISO 500.104.194.XXX...

040



CC 129 TX

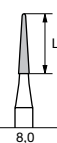
L mm

8,0

REF **CC 129 TX**

ISO 500.104.141.XXX...

023



CC 136 TX

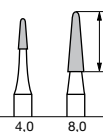
L mm

8,0

REF **CC 136 TX**

ISO 500.104.184.XXX...

016



CC 138 TX

L mm

4,0

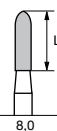
8,0

REF **CC 138 TX**

ISO 500.104.193.XXX...

014

023



CC 139 TX

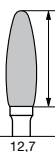
L mm

8,0

REF **CC 139 TX**

ISO 500.104.289.XXX...

023



CC 250 TX

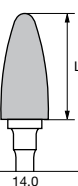
L mm

12,7

REF **CC 250 TX**

ISO 500.104.XXX.XXX...

040



CC 251 TX

L mm

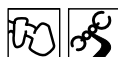
14,0

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

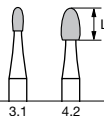
VFX

- Trimming
- smoothing
- Ausarbeiten
- Glätten



CC 73 VFX

L mm



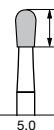
REF CC 73 VFX

ISO 500.104.277.110... 014 023



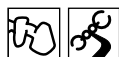
CC 77 VFX

L mm



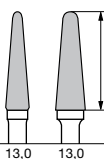
REF CC 77 VFX

ISO 500.104.237.110... 029



CC 79 VFX

L mm



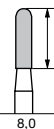
REF CC 79 VFX

ISO 500.104.194.110... 031 040



CC 129 VFX

L mm



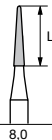
REF CC 129 VFX

ISO 500.104.141.110... 023



CC 136 VFX

L mm



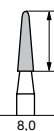
REF CC 136 VFX

ISO 500.104.184.110... 016



CC 138 VFX

L mm



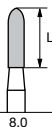
REF CC 138 VFX

ISO 500.104.198.110... 023



CC 139 VFX

L mm



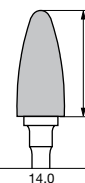
REF CC 139 VFX

ISO 500.104.289.110... 023



CC 251 VFX

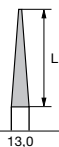
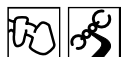
L mm



REF CC 251 VFX

ISO 500.104.274.110... 060

 max. 50.000 min⁻¹



CC 257 VFX

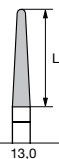
L mm

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

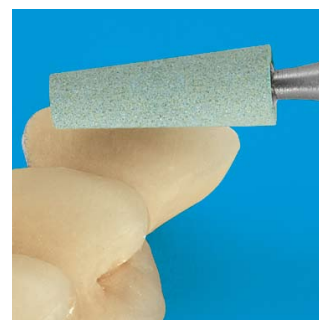
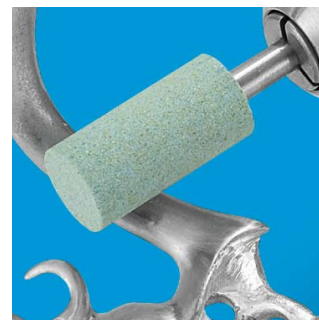


**Effective abrasive for
universal grinding**

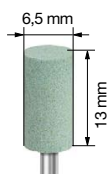
*Effektive Schleifer zum
universellen Beschleifen*

*Die neuen, gesinteren
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 Zirkon-
oxid oder Aluminiumoxid,
oder auch harte Metall-
Legierungen lassen sich
mit den Schleifern leicht
bearbeiten.*

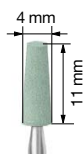
These new, sintered abrasives
are diamond interspersed and
provided with a special ceramic
bond, which makes them
suitable for universal use on
veneering and press ceramics.
Even extremely resistant oxide
ceramics, such as zirconium
oxide and aluminium oxide, or
hard metal alloys can be treated
with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



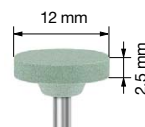
751 M



753 M



755 M



REF	751 M
ISO	...104... 065
opt. 5 000 – max. 10 000 min ⁻¹	

REF	753 M
ISO	...104... 040
opt. 5 000 – max. 10 000 min ⁻¹	

REF	755 M
ISO	...104... 120
opt. 5 000 – max. 10 000 min ⁻¹	

Separating Discs Trennscheiben

9503

L mm 0,8



9506

L mm 0,2



REF	9503
ISO	618.900.372.534... 370
max. 15 000 min ⁻¹	

REF	9506
ISO	618.900.372.513... 220
max. 15 000 min ⁻¹	

Composite Polishers	
<i>Compositopolierer</i>	61 – 62
Ceramic Polishers	
<i>Keramikpolierer</i>	63 – 65
Prophylaxe Polishers	
<i>Prophylaxepolierer</i>	66
Bracket Polishers	
<i>Kleberesteentferner</i>	66
Amalgam Polishers	
<i>Amalgampolierer</i>	66
Metal Polishers	
<i>Metallpolierer</i>	67 – 69
Titan Polishers	
<i>Titanpolierer</i>	70
Universal Polishers	
<i>Universalpolierer</i>	71
Denture Acrylics Polishers	
<i>Kunststoffpolierer</i>	72 – 73
Brushes	
<i>Bürsten</i>	74
Mandrels	
<i>Träger</i>	75

Composite Polishers

Compositopolierer

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 9436 C P 9436 M P 9436 VF

L mm 10,0 10,0 10,0

REF	P 9436 C
ISO	...204... 040
...204...	040
P 9436 M	
...204...	040
P 9436 VF	
...204...	040

opt. 5 000 – max. 10 000 min⁻¹

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 9667 C P 9664 M P 9665 VF

L mm 8,0 8,0 8,0

REF	P 9667 C
ISO	...204... 055
...204...	055
P 9664 M	
...204...	055
P 9665 VF	
...204...	055

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
...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 9478C

L mm 9,0 10,0

REF	P 9478C
ISO	658.204... 070
	658.314... 060

opt. 6000 – max. 15000 min⁻¹

P 9479C

L mm 10,0

REF	P 9479C
ISO	658.204... 050

opt. 6000 – max. 15000 min⁻¹

P 9480C

L mm 1,5

REF	P 9480C
ISO	658.204... 100

opt. 6000 – max. 15000 min⁻¹

P 9481C

L mm 7,0

REF	P 9481C
ISO	658.314... 030

opt. 6000 – max. 15000 min⁻¹

One-step composite polishers interspersed with diamond grit

One-step Composite-Polierer mit Diamantkorn durchsetzt

P 9490Y

L mm 6,5

REF	P 9490Y
ISO	658.204... 030

opt. 5000 – max. 10000 min⁻¹

P 9491Y

L mm 10,0

REF	P 9491Y
ISO	658.204... 050

opt. 5000 – max. 10000 min⁻¹

P 9492Y

L mm 15,0

REF	P 9492Y
ISO	658.204... 060

opt. 5000 – max. 10000 min⁻¹

P 9493Y

L mm 9,0

REF	P 9493Y
ISO	658.204... 060

opt. 5000 – max. 10000 min⁻¹

P 9494Y

L mm 8,0

REF	P 9494Y
ISO	658.204... 100

opt. 5000 – max. 10000 min⁻¹

Polishers for Composite (ecoline)

Composite-Polierer (ecoline)

Ceramic Polishers

Keramikpolierer

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)

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
ISO	...314... 030
REF	P 9419 M
ISO	...204... 030
ISO	...314... 030
REF	P 9547 F
ISO	...204... 030
ISO	...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
REF	P 9421 M
ISO	...204... 055
REF	P 9652 F
ISO	...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
REF	P 9816 M
ISO	...204... 040
REF	P 9816 F
ISO	...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
REF	P 9423 M
ISO	...204... 100
REF	P 9683 F
ISO	...204... 100

opt. 5 000 – max. 10 000 min⁻¹


100441
Ceramic Polishing Kit

P 9545 C
P 9545 M
P 9545 F



REF	P 9545 C	
ISO	...104...	110
REF	P 9545 M	
ISO	...104...	110
REF	P 9545 F	
ISO	...104...	110
ISO	...204...	110

opt. 5 000 – max. 10 000 min⁻¹

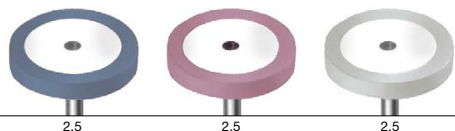
P 9660 C
P 9660 M
P 9660 F



REF	P 9660 C	
ISO	...104...	055
REF	P 9660 M	
ISO	...104...	055
REF	P 9660 F	
ISO	...104...	055

opt. 5 000 – max. 10 000 min⁻¹

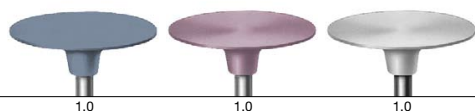
P 9544 C
P 9544 M
P 9544 F



REF	P 9544 C	
ISO	...104...	170
REF	P 9544 M	
ISO	...104...	170
REF	P 9544 F	
ISO	...104...	170

opt. 5 000 – max. 10 000 min⁻¹

P 9546 C
P 9546 M
P 9546 F



REF	P 9546 C	
ISO	...104...	190
REF	P 9546 M	
ISO	...104...	190
REF	P 9546 F	
ISO	...104...	190

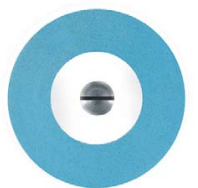
opt. 5 000 – max. 10 000 min⁻¹

**Ⓔ Diamond polishers
for ceramics**

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

**Ⓔ Diamant-Polierer
für Keramik**

- zum Ausarbeiten, Glätten und Hochglanzpolieren von Keramik und Metall


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

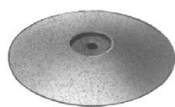
 opt. 5 000 – max. 10 000 min⁻¹

GB Diamond polishers for ceramics interspersed with diamond grit

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

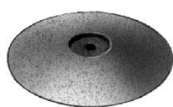
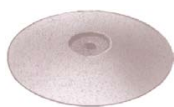
D Diamant-Polierer

- zum Ausarbeiten, Glätten und Hochglanzpolieren von Keramik und Metall


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
REF	P 9541 F
ISO	658.900.303.515... 220
REF	P 9541 EF
ISO	... 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
REF	P 9542 F
ISO	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
REF	P 9600 F
ISO	658.900.372.515... 220
REF	P 9600 EF
ISO	... 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
REF	P 9680 F
ISO	... 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

Kleberresteentferner



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 orthodontic 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

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
REF	P 9620 F
	658.104.292.503... 045
	658.204.292.503... 045

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
REF	P 9621 F
	658.104.303.503... 150
	658.204.303.503... 100

opt. 5 000 – max. 10 000 min⁻¹



100446

Amalgam + Gold Polishing Kit

High-efficiency polishers

- for pre-polishing (brown) and fine polishing (green) of metal alloys

Hochleistungspolierer

- zum Vorpolieren (braun) und Feinpolieren (grün) von Metall-Legierungen

P 9606 M

P 9616 F

L mm 9,0 9,0

REF	P 9606 M
ISO	658.204.030.513... 060
REF	P 9616 F
	658.204.030.503... 060

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
REF	P 9619 F
	658.204.243.503... 050

opt. 5 000 – max. 10 000 min⁻¹

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
REF	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

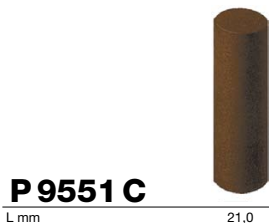
opt. 10 000 – max. 15 000 min⁻¹

P 9649 VF

L mm 20,0

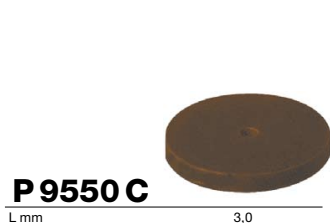
REF	P 9649 VF	
ISO	618.000.114.503...	020

opt. 10 000 – max. 15 000 min⁻¹


P 9551 C

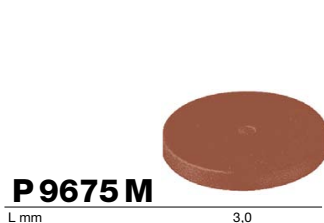
L mm 21,0

REF	P 9551 C
ISO	618.900.114.534... 070

 opt. 5 000 – max. 10 000 min⁻¹

P 9550 C

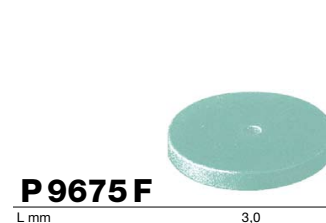
L mm 3,0

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

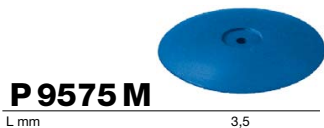
REF	P 9675 F
ISO	618.900.372.503... 220

 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

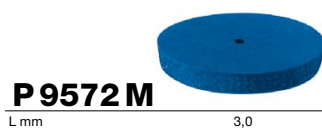
D Modellgusspolierer

- 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

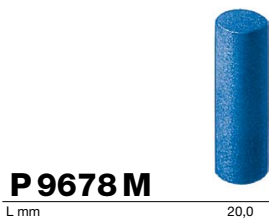
REF	P 9572 M
ISO	658.900.372.522... 220

 opt. 5 000 – max. 10 000 min⁻¹
GB Blue polishers

- for low-lustre polish of precious metal alloys

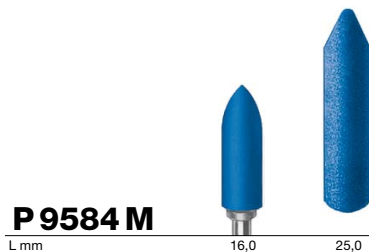
D Blaue Polierer

- 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

Ⓔ Titanium polishers

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

Ⓔ 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

Ⓔ Three-step titane polishers

- interspersed with diamond grit

Ⓔ 3 Stufen Titanpolierer

- mit Diamantkorn durchsetzt

P 9409 C

P 9409 M

P 9409 F



L mm 2,2 2,2 2,2

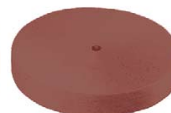
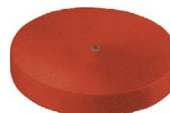
REF	P 9409 C
ISO	658.900... 170
REF	P 9409 M
ISO	658.900... 170
REF	P 9409 F
ISO	658.900... 170

⌚ 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
REF	P 9409 M
ISO	658.900... 220
REF	P 9409 F
ISO	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
REF	P 9411 M
ISO	658.900... 070
REF	P 9411 F
ISO	658.900... 070

⌚ opt. 5 000 – max. 10 000 min⁻¹

Universal Polishers

Universalpolierer

White polishers

- for universal polishing of enamel, precious metal alloys and acrylics for veneers
- and for polishing filling materials and acrylics for prostheses

Weiße Polierer

- zum universellen Polieren von Zahnschmelz, Edelmetall-Legierungen und Verblendkunststoffen
- 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

☐ Denture acrylics polishers

- for polishing acrylics

☐ 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

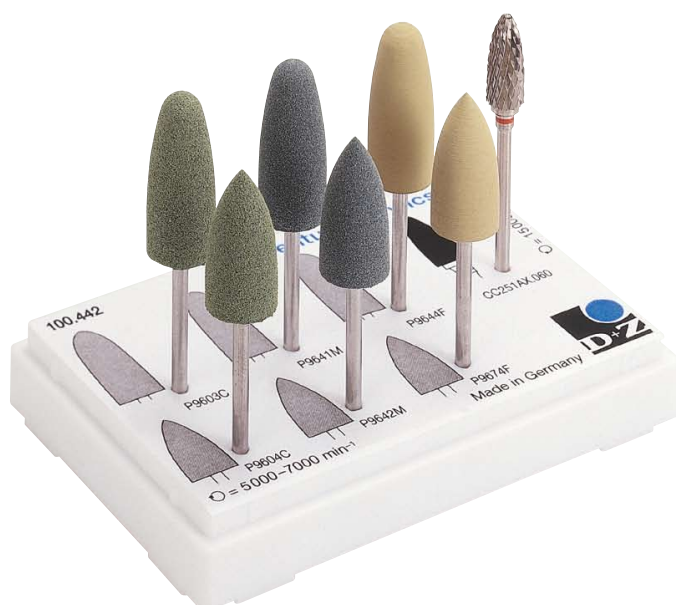
☐ opt. 5 000 – max. 7 000 min⁻¹

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
REF	P 9489 M
ISO	...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
REF	P 9467 M
ISO	...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
REF	P 9466 M
ISO	...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

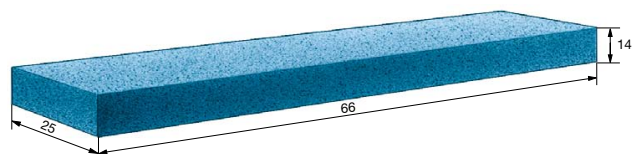
Bürsten · Naturborsten



DP93007

Diamond polishing paste 7 µm

Diamant Polierpaste



AS20

REF	AS20
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Cleaning stone for diamonds | 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...



P 305 A

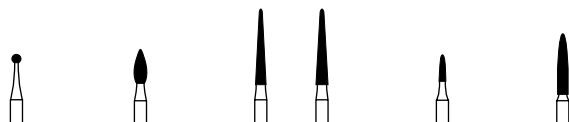
P 305

Set for the preparation of composite fillings

Satz zur Bearbeitung von Composite-Füllungen



100402



Contents - Inhalt

Contents - *intran*

REF	801 C	368 C	859 C	859 C	860 C	862 C	
ISO	806.314	001.504 012	257.504 016	166.504 014	166.504 016	245.504 009	249.504 014
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DTF set of instruments with extra-fine diamond grit

DTF-Satz in Diamant-Körnung extrafein



100404



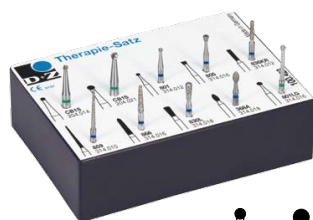
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Contents - *intran*

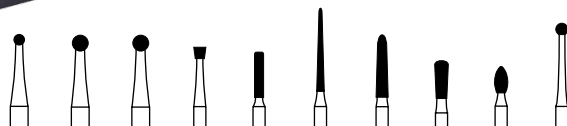
REF	801C	956C	852C	860C	862C	368AC	368C	379C	827C	392C	
ISO	806.314	001.504 012	159.504 010	164.504 010	245.504 010	249.504 012	254.504 016	257.504 016	277.504 016	464.504 018	465.504 014
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Therapy Set

Therapie Satz



100423

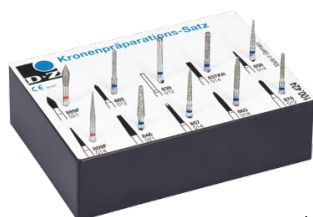


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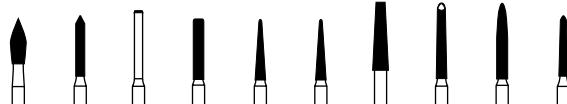
REF	CB1S	CB1S	801	805	836KR	859	868	830L	368A	801LG
806.204/314	001.003 014	001.003 021	001.524 012	010.524 016	157.524 012	167.524 010	223.524 016	234.524 018	254.524 018	697.534 016
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Crown Preparation Set

Kronenpräparations-Satz



100424



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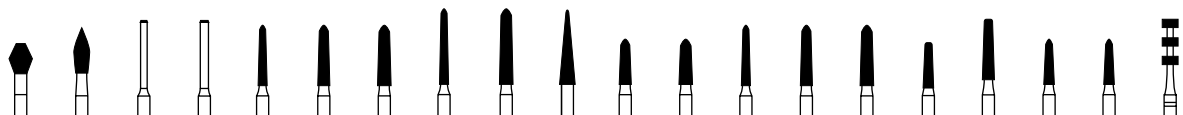
REF	899F	885	839	837KR	858	859F	848	857	863	878
806.314	033.514 021	130.524 012	150.524 012	158.524 014	165.524 014	166.514 014	173.524 021	220.524 014	250.524 016	289.524 012
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Crown & Veneer Preparation Kit

Crown & Veneer Präparation Kit

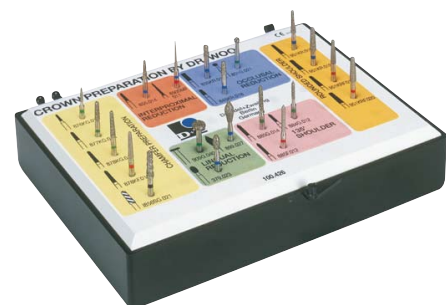
100425



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Contents - *in mm*

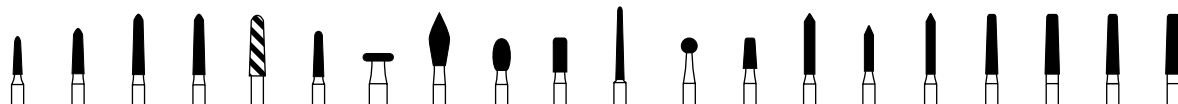
REF	811	899	839A	839A	878K	878K	878K	879K	879K	859	877K	877K	878K	878K	878K	846KR	847KR	878K	877K	834	
ISO	806.314/313	038.524	033.524	-	-	298.524	298.524	298.524	299.524	299.524	-	297.524	297.524	298.524	298.524	298.524	545.524	546.524	298.524	297.524	552.524
		031	021	010	012	012	016	018	016	018	021	016	018	012	016	018	014	016	014	014	021
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	



Crown Preparation Kit by Dr. Woo

Kronenpräparationssatz nach Dr. Woo

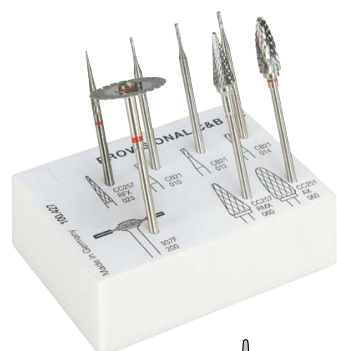
100426



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Contents - *in mm*

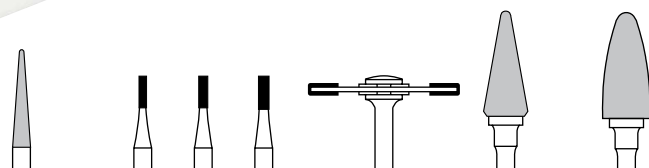
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ISO	806.314	296.534	297.534	298.534	298.514	-	197.524	068.534	033.524	277.524	156.524	199.XXX	001.534	544.524	130.534	129.534	130.514	-	-	-	-
		012	016	016	016	021	014	040	027	023	018	011	021	018	014	012	012	016	019	017	020
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Provisional C & B Kit

Provisional C & B Satz

100427



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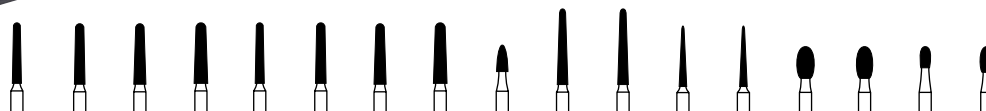
REF	CC257RFX	CB21	CB21	CB21	937F	CC257RMX	CC 251AX
ISO	806.104	201.140 023	107.006 010	107.006 012	107.006 014	- 200	201.190 060
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Top-Down Diamond Kit for Crown by Dr. Leesungbok

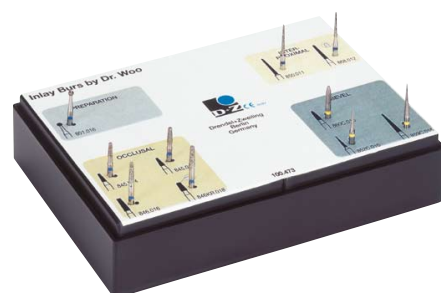
Top-Down Diamond Kit for Crown
nach Dr. Leesungbok

100472



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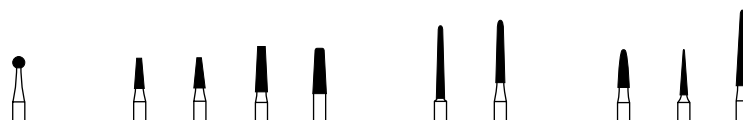
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		012(007)	014(009)	016(010)	018(011)	012(007)	014(009)	016(010)	018(011)	016	014(006)	014(006)	010(005)	010(005)	023	021	014
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



Inlay Burs by Dr. Woo

Inlay Burs nach Dr. Woo

100473



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ABB 15



ABB 15

ABB 30



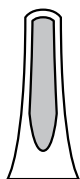
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Diamond Forceps

Diamantierte Extraktionszangen

Centrals and Canines | *Schneide- und Eckzähne*

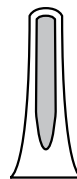
501



REF 501
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upper centrals and canines · obere Schneide- und Eckzähne

502

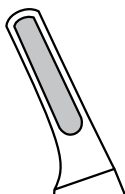


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upper centrals and canines · obere Schneide- und Eckzähne

Premolars | *Prämolaren*

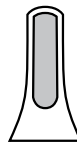
507



REF 507
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upper premolars · obere Prämolaren

513

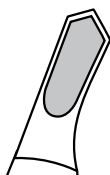


REF 513
ISO 806.513.534

lower premolars · untere Prämolaren

Molars | *Molaren*

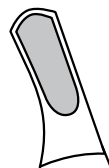
517



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

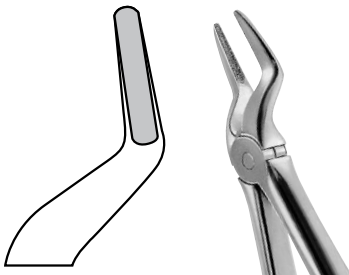


REF 533

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 thermosdisinfector

Root canal instruments
→ Protect against mechanical damage

Tungsten carbide instruments
→ Do not use hydrogen peroxide (H₂O₂)

Polishers
→ Do not immerse in alcohol

Brushes with natural bristles
→ are for single use only

Desinfection

- Nur geeignete, handelsübliche Mittel benutzen (z.B. KOMET DC1)
- benutzte Instrumente sofort einlegen
- Herstellerangaben zu Konzentration/Zeit/Materialverträglichkeit beachten
- kein Thermo-desinfektor

Wurzelkanalinstrumente
→ vor mechanischer Beschädigung schützen

Hartmetallinstrumente
→ kein Wasserstoffperoxid (H₂O₂) 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 Naturhaarbürsten

→ quellen im Autoclav auf



3–5 min.
Autoclave
Autoklav



15–20 min.
Autoclave
Autoklav



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)*

Examination

Prüfung

Disposal
Entsorgung



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 indicated 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 $\odot_{\max}$ 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 $\odot_{\max}$ 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 disinfecter 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 H₂O₂ (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 apices as surgical measure for the conservation of teeth. Recommended speeds are mentioned on the label of the package of an instrument.

- CB255A, Special care has to be taken when using the CB255A, minimally invasive combination instrument for conservative preparation of bone tissue and hard tooth substance.
- The CB255A is designed to be used in the micro motor (red contra-angle) and not in the turbine - risk of accident.

Root canal reamers (stainless steel)

Pulpa bur „Müller“ 191

- Green contra-angle, (n_{opt.} 450–800 rpm).
For root canal preparation.

Specific instructions for individual instrument types

Polishers/Brushes

- Apply low contact pressure in order to minimize heat generation.
- Apply a speed of n_{opt.} 5,000 – 6,000 rpm.
- Polishing should always be carried out in circular motion.
- In order to achieve a high shine polish, when using multiple step polishing systems all polishers are to be used in the indicated sequence.
- Use breathing mask (mouth and nose) as well as a suction device in the laboratory.
- Eye protection is recommended.
- Disinfecting and cleaning: Due to their material properties, brushes and polishers have to be cleaned differently from other rotary instruments. Use disinfecting and cleaning agents that are suited for polishers. Use agent observing the recommendation indicated by the manufacturer.
- Sterilization: Autoclave only.
- The reuse of disposable articles (marked ② on the packaging) is not permitted (e.g. laminated polishers and brushes).

The reuse of these products poses a risk of infection and/or the safety of the products can no longer be guaranteed.

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.

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 vermeiden.
- 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 $\odot_{\max.} 300\,000 \text{ min}^{-1}$ bedeutet: Geeignet für Micromotor-Hand- und Winkelstücke sowie Turbinen mit stabiler Kugellagerung. Für alte Turbinen mit Luftlagerung nicht zu empfehlen.
- Drehzahlempfehlung $\odot_{\max.} 30\,000 - 160\,000 \text{ min}^{-1}$ 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 H₂O₂ (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 supergrobe 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 Zahnschubstanz, 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 zahnmedizinischen 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 Ⓢ 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.

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Außerhalb der Reichweite von Kindern aufbewahren. Nur für den dentalen Gebrauch.

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