



ORBIS)))

DENTAL BURS

ORBIS FG Diamond burs are made with top quality and are carefully checked. Every bur is tested under a microscope as part of our strict quality control. This detailed process ensures that each bur is fully controlled. The special coating method creates a smooth and even diamond surface. The unique mix of diamond grit, made just for ORBIS, gives the best results for tooth preparation. The coating ensures there are no uneven areas and that the grit is evenly spread on the bur. This means less pressure is needed on the turbine, and the tooth surface stays smooth. We use high-quality Swiss-made stainless steel that is hardened, shaped, and polished for maximum accuracy and minimal vibration. All burs are packed in packs of 5.

Color Coding	Icon	Description	μ	ISO
		Extra extra fine burs marked with purple colour ring	15μ	494
		Super fine burs are marked with yellow colour ring	30μ	504
		Fine burs are marked with red colour ring	50μ	514
		Medium burs are marked with blue colour ring	107-120μ	524
		Coarse burs are marked with green colour ring	150-180μ	534
		Super Coarse burs are marked with black colour ring	180-250μ	544

All sizes are in mm. All drawings are 1:1. All measurements are for reference only.

Cat. No.	K2	Orbis code
Code	368-023	International shape: shape- head size
Shank type	314	
Shape	257	
Head Size	023	1/10 mm
Figure	386	
Head Length	5.3	mm
Total Length	20	mm
S. Fine		
Fine		
Medium		
Coarse		
S. Coarse		

Application

- Cavity preparation
- Preparation of palatal areas
- Crown and bridge preparation
- Separation
- Occlusal reduction
- Depth cutting

ISO No.:

This is the short ISO number. The long one is combined of 5 groups:

806	314	257	534	023
Type	Length	Shape	Grit	Head size

Diamond ISO length:
 313 – FG short shank
 314 – FG standard shank
 315 – FG long shank
 316 – FG extra-long shank
 204 – RA standard shank

FG Diamond Reference Guide

	Description	Figure	Shape (ISO)	Page
	Barrel	811	038	4
	Inter Proximal	392	465	4
	Inverted Cone	805, 807	010, 225	4
	Round	801	001	4
	Surgical Length Round	801L	001	4
	Egg/Football	368, 379	257, 277	5
	Flat End Cylinder	835, 836, 837	108, 109, 110, 111	5
	Pear	830, 830L	237, 239	5
	Taper Rounded Shoulder	845KR, 846KR	544, 545	5
	Flat End Taper	847, 848	172, 173	6
	Needle	858, 859, 859L	165, 166, 167	6
	Round End Cylinder	837KR, 838, 880, 881	139, 140, 141, 158	6
	Torpedo Cylinder	878, 879	289, 290	6
	Flame	862, 863	249, 250	7
	Tapered Bevel	878K	298	7
	Round End Taper	850, 855, 856, 856L	197, 198, 199	7
	Short Needle	889	540	7
	Orthodontic Burs	465, 852, 858	164, 165, 833	8
	Pointed Cylinder	884, 886, 879	129, 131	8

Instruction For Use

Max. RPM

ISO Ø (1/10 mm)	FG (RPM)	RA (RPM)
007-014	450,000	250,000
016-023	300,000	120,000
025-045	120,000	80,000
047-065	80,000	60,000
066-093	60,000	40,000

For the full IFU, please go to our website.



FG Diamond Burs

ROUND

Cat. No.	A0	A010	A1	A2	A25	A3	A4	A5
Type	806	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314	314
Shape	001	001	001	001	001	001	001	001
Head Size	009	010	012	014	016	018	022	032
Figure	801L							
Head Length								
Total Length	19	19	19	19	19	19	19	19
S. Fine								
Fine		◆		◆	◆	◆	◆	◆
Medium	◆	◆	◆	◆	◆	◆	◆	◆
Coarse		◆	◆	◆	◆	◆	◆	◆
S. Coarse					◆	◆	◆	

INVERTED CONE

Cat. No.	B0	B1	B14	B16	B2	B3	B35
Type	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314
Shape	010	010	010	010	010	225	225
Head Size	009	012	014	016	018	014	016
Figure	805	805	805	805	805	807	807
Head Length	0.9	1.3	1.5	1.4	1.6	3	4
Total Length	19	19	19	19	19	19	19
S. Fine							
Fine							
Medium	◆	◆	◆	◆	◆	◆	◆
Coarse		◆	◆	◆		◆	◆
S. Coarse							

SURGICAL LENGTH ROUND

Cat. No.	A2L	A3L
Type	806	806
Shank type	316	316
Shape	001	001
Head Size	014	018
Figure	801L	801L
Head Length		
Total Length	24	24
S. Fine		
Fine		
Medium		
Coarse	◆	◆
S. Coarse		

BARREL

Cat. No.	M4
Type	806
Shank type	314
Shape	038
Head Size	033
Figure	811
Head Length	5.5
Total Length	21
S. Fine	
Fine	
Medium	◆
Coarse	
S. Coarse	

FG Diamond Burs

PEAR



Cat. No.	AB3	AB4S	AB2	AB1	AB4	AB144
Type	806	806	806	806	806	806
Shank type	314	314	314	314	314	314
Shape	237	237	237	237	239	239
Head Size	010	012	014	016	012	014
Figure	830	830	830	830	830	830
Head Length	2.8	2.7	2.5	2.5	3.9	4.1
Total Length	18.5	18.5	17	19	18.5	19
S. Fine						
Fine						
Medium	◆	◆	◆	◆	◆	
Coarse	◆				◆	◆
S. Coarse						

EGG/FOOTBALL



Cat. No.	K1	K11	K2	K0R	K1R	K2R
Type	806	806	806	806	806	806
Shank type	314	314	314	314	314	314
Shape	257	257	257	277	277	277
Head Size	016	018	023	016	018	023
Figure	386	386	386	379	379	379
Head Length	3.3	4.5	5.3	3.4	3.6	4.4
Total Length	20	18.5	20	19	19	19
S. Fine	◆	◆	◆	◆	◆	◆
Fine	◆	◆	◆	◆	◆	◆
Medium		◆	◆		◆	◆
Coarse	◆	◆	◆	◆		◆
S. Coarse			◆	◆		

FLAT END CYLINDER



Cat. No.	D111	D0	D1	D31	D2	D3	D13	D32	D4	D5
Type	806	806	806	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314	314	314	314
Shape	108	109	109	109	109	110	110	111	111	111
Head Size	010	008	010	012	016	012	014	012	014	016
Figure	835	835	835	835	835	837	837	837	837	837
Head Length	3	4	4	4	4	5.6	6	8	8	8
Total Length	19	19	19	19.5	19	21	21	21.5	21	21.5
S. Fine										
Fine										
Medium		◆	◆	◆	◆	◆	◆	◆		◆
Coarse	◆		◆	◆	◆	◆				
S. Coarse			◆		◆				◆	◆

TAPER ROUNDED SHOULDER



Cat. No.	Z34R	Z33R	F09RF
Type	806	806	806
Shank type	314	314	314
Shape	544	545	546
Head Size	018	016	016
Figure	845	846	847KR
Head Length	4	6	8
Total Length	19	21	21.5
S. Fine			
Fine	◆	◆	◆
Medium			
Coarse			
S. Coarse			

FG Diamond Burs

ROUND END CYLINDER

							
Cat. No.	D1FR	D31FR	D144R	D166R	D128FR	D4R	D21R
Type	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314
Shape	139	139	139	140	141	141	158
Head Size	010	012	014	016	012	014	014
Figure	838	838	838	838	881	881	881
Head Length	4	4	4	6	8	8	8
Total Length	19.5	19.5	21	22	21	21	21.5
S. Fine					🟡	🟡	
Fine					🔴	🔴	
Medium	🔵	🔵	🔵	🔵	🔵	🔵	
Coarse		🟢	🟢		🟢	🟢	🟢
S. Coarse							

TORPEDO CYLINDER

				
Cat. No.	E73	E74	PR1	S1410
Type	806	806	806	806
Shank type	314	314	316	316
Shape	289	289	290	290
Head Size	012	014	012	014
Figure	878	878	879	886
Head Length	8	8	10	10
Total Length	22	22	23.5	24
S. Fine				
Fine	🔴		🔴	🔴
Medium	🔵		🔵	
Coarse	🟢	🟢		🟢
S. Coarse	⬛			

FLAT END TAPER

						
Cat. No.	F08	F09	F10	F07	F1	F2
Type	806	806	806	806	806	806
Shank type	314	314	314	314	314	314
Shape	172	172	172	173	173	173
Head Size	014	016	018	014	016	018
Figure	847	847	847	848	848	848
Head Length	8	8	8	10	10	10
Total Length	21.5	21.5	21.5	24	22.5	22.5
S. Fine						
Fine						
Medium	🔵	🔵		🔵	🔵	
Coarse	🟢	🟢	🟢			🟢
S. Coarse						

NEEDLE

						
Cat. No.	Z12	Z1012	E2	E11	E31	E3
Type	806	806	806	806	806	806
Shank type	314	316	314	314	314	314
Shape	165	250	165	166	166	167
Head Size	010	010	014	010	014	016
Figure	858	859L	858	859	859	859
Head Length	8	12	8	10	10	10.5
Total Length	22	25.5	21	23.5	23	23.5
S. Fine	🟡		🟡			
Fine	🔴	🔴	🔴			
Medium		🔵		🔵		🔵
Coarse	🟢		🟢		🟢	
S. Coarse						

FG Diamond Burs

ROUND END TAPER



Cat. No.	C1	C2	C3	C11	C12	M31	F11R	M3	C10	F08R	F1R	F2R
Type	806	806	806	806	806	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314	314	316	316	314	314
Shape	197	197	197	198	198	198	198	198	199	199	199	199
Head Size	014	018	025	012	014	016	018	018	012	014	016	018
Figure	855	855	855	856	856	856	856L	856L	850	850	850	850
Head Length	6.3	7	7	8	8	8	9	9	10	10	10	10
Total Length	21	19	21	21	21	21	21.5	21	24	24	22.5	22.5
S. Fine				◆							◆	◆
Fine					◆	◆		◆				
Medium					◆	◆	◆		◆	◆	◆	
Coarse	◆	◆	◆		◆	◆		◆				◆
S. Coarse								◆				

SHORT NEEDLE



Cat. No.	E42
Type	806
Shank type	314
Shape	540
Head Size	010
Figure	889
Head Length	4
Total Length	23
S. Fine	
Fine	◆
Medium	
Coarse	◆
S. Coarse	

TAPERED BEVEL



Cat. No.	S2	S5	T3
Type	806	806	806
Shank type	314	314	314
Shape	298	298	298
Head Size	014	016	018
Figure	878K	878K	878K
Head Length	8	8	8
Total Length	21	20.5	20
S. Fine			
Fine	◆		
Medium	◆	◆	
Coarse	◆	◆	◆
S. Coarse	◆		

FLAME



Cat. No.	E52	E51	E5	E66	E6	Z50	Z51	E68
Type	806	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	316	316	316
Shape	249	249	249	249	250	250	250	250
Head Size	010	012	014	016	016	012	014	018
Figure	862	862	862	862	863	863	863	863
Head Length	8	8	8	8	9.5	10	10	10
Total Length	21	21	21	21	22	23.5	24	23.5
S. Fine	◆	◆	◆		◆	◆		
Fine	◆	◆	◆	◆	◆	◆		
Medium	◆	◆			◆	◆		◆
Coarse	◆	◆	◆	◆	◆	◆	◆	
S. Coarse		◆	◆	◆	◆			

FG Diamond Burs

POINTED CYLINDER

			
Cat. No.	E71S	PR3	E76
Type	806	806	806
Shank type	314	314	316
Shape	129	131	131
Head Size	010	014	016
Figure	878	879	886
Head Length	6	10	10
Total Length	21.5	23	24
S. Fine			
Fine			
Medium			
Coarse			
S. Coarse			

ORTHODONTIC

			
Cat. No.	J316	Z12S	E11S
Type	806	806	806
Shank type	314	216	216
Shape	833	165	164
Figure	465	858	852
Head Length	5	3.4	7
Total Length	20	22	23.5
Ø for IPR SF (mm) 	Min	0.30	0.20
	Max	0.30	0.45
Ø for IPR PF (mm) 	Min	0.30	
	Max	0.50	

INTER PROXIMAL

	
Cat. No.	J10
Type	806
Shank type	314
Shape	465
Head Size	016
Figure	392
Head Length	5
Total Length	19
S. Fine	
Fine	
Medium	
Coarse	
S. Coarse	

Ceramic Burs

Perfect Burs for fast and smooth grinding of zirconia, E-Max® and porcelain. The safest, the fastest, the smoothest crown and bridge adjustment.

							
Cat. No.	A3PF	A4PF	K2PF	K2RPF	M3PF	C31PF	Z12S/PF
Type	806	806	806	806	806	806	806
Shank type	314	314	314	314	314	314	314
Shape	001	001	257	277	198	197	216
Head Size	018	022	023	023	018	025	005
Figure	801	801	368	379	856L	856	858
Head Length			5.3	4.4	9	8	8
Total Length	19	19	20	19	21	21.5	22

RA Diamond Burs

RA diamond burs made of high quality stainless steel shank.
Economical and more durable. For low speed handpieces.

ROUND



Cat. No.	W001-008	W001-009	W001-010	W001-018	W001-020
Type	806	806	806	806	806
Shank type	204	204	204	204	204
Shape	801	801	801	801	801
Head Size	0,8	0,9	1	1,8	2
Total Length	22	22	22	22	22
Medium					

NEEDLE



Cat. No.	W166-016
Type	806
Shank type	204
Shape	859
Head Size	016
Head Length	11
Total Length	25
Medium	

ROUND END TAPE



Cat. No.	W199-016	W199-012M
Type	806	806
Shank type	204	204
Shape	199	199
Head Size	016	012
Head Length	10	10
Total Length	26	26
Medium		

FLAME



Cat. No.	W245-014	W249-016	W249-018
Type	806	806	806
Shank type	204	204	204
Shape	850	862	862
Head Size	014	016	018
Head Length	5	8	8
Total Length	23	22	22
Medium			

Orbis offers highly accurate, one-piece FG Tungsten Carbide bur:

Highest quality raw materials one-piece Tungsten Carbide:

- Zero vibration.
- Superior durability.
- Optimal cutting efficiency.
- Ability to withstand repeated sterilization without rusting.

The most concentric bur ever produced - consistent in size resulting in:

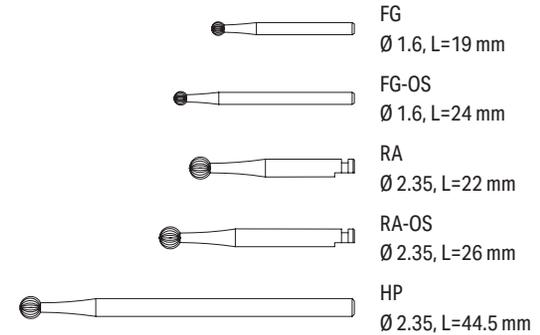
- Efficient cutting.
- Less chatter.
- Superior control.
- Better finish.

CNC (Computer Numerical Control) precision manufacturing produces a top quality rotary instrument product that exceeds industry standards for quality and precision.

Task and material specific blade configurations produce optimal cutting, efficient finishing and outstanding durability.

Sharper blades = more working time per bur. All burs are 6 flutes.

Shank types



Blades Operative & Surgical

ROUND

Cat. No.	1	2	3	4	5	6	7	8
Type	500	500	500	500	500	500	500	500
Head Size	008	010	012	014	016	018	021	023
Head Length	0.6	0.8	1	1.1	1.2	1.5	1.9	1.9
FG		*		*	*	*		*
FGOS		*		*		*		
RA	*	*	*	*	*	*	*	*
RAOS				*		*		*



Barracuda Metal Cutting

- Maximum value and performance.
- Crown and bridge removal design to cut through precious and nonprecious metal, sub-structure and framework.
- Special blade geometry featuring fine cross-cuts and unique neck design produce a burr that quickly cuts metal with reduced chatter, breakage and improved control.
- Computer aided design created to maximize performance while cutting gold, amalgam, nickel, chrome and other metal alloys.
- No grabbing, stalling or breaking while cutting through amalgam or metals.

CROSS CUT FISSURE

Cat. No.	B558
Type	500
Head Size	012
Head Length	4.1
FG	*

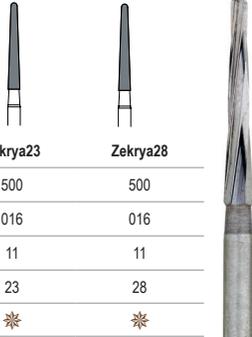
ROUND END CROSS CUT FISSURE

Cat. No.	B1557	B1558
Type	500	500
Head Size	010	012
Head Length	4.1	4.1
FG	*	*

Zekrya

A unique bur that has a cutting tip and 6 helical flutes making them ideal for sectioning an impacted wisdom tooth prior to its extraction, separating roots and removing.

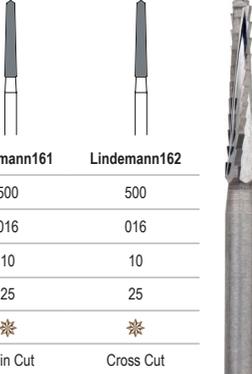
Cat. No.	Zekrya23	Zekrya28
Type	500	500
Head Size	016	016
Head Length	11	11
Total Length	23	28
FG	✱	✱



Lindemann

The Lindemann bur is designed for aggressive cutting of bone structure. The bur is a one-piece Tungsten Carbide. The special geometry allows an efficient cutting of hard tissue or bone tissue while removing the debris.

Cat. No.	Lindemann161	Lindemann162
Type	500	500
Head Size	016	016
Head Length	10	10
Total Length	25	25
FG	✱	✱
Blade Geometry	Plain Cut	Cross Cut




Composite Finishing Kit

Profile	Cat. No.	Shape	Application
	A4SF	Round	Fine finishing and polishing of the marginal ridge.
	E4SF	Flame	Fine finishing and polishing of composite excess restoration margins.
	E5SF	Flame	Fine finishing and polishing of composite restoration margins.
	K2SF	Egg/Football	Fine polishing of palatal/lingual surface.
	PR2SF	Flame	Fine finishing of the occlusal surface.
	T5SF	Tapered Bevel	Fine finishing of composite excess at margins
	A3XXF	Round	Very fine polishing of the marginal ridge.
	A4XXF	Round	Very fine polishing of the marginal ridge.
	E4XXF	Flame	Very fine polishing of composite excess at margins.
	E5XXF	Flame	Very fine polishing of composite excess at margins.
	K2XXF	Egg/Football	Very fine polishing of palatal/lingual surface.
	PR2XXF	Flame	Very fine polishing of the occlusal surface.



Cat. No.: 45086COMSET1

The most popular composite finishing kit contains super fine and extra-extra fine burs.

Endodontic Kit

Profile	Cat. No.	Shape	Application
	A4PF	Round	Safe ceramic penetration without microfracturs
	FGB331	Pear	Easy & fast metal penetration
	FG-ENDOZ152	Endo Safe End	Pulp chamber opening without perforation risk
	A4LM	Round	Pulp chamber opening
	E3RM	Needle	Metal post removal/metal screw weakening cementation
	E3RF	Needle	Safe search of canal entrance /span
	A1LM	Round	Finding the canal entrance /span
	PR2SF	Flame	Middling composite polishing
	A4SF	Round	Middling composite polishing
	PR2XXF	Flame	Gentle composite polishing & finishing
	A4XXF	Round	Gentle composite polishing & finishing



Cat. No.: 45086ENDOSET1

A complete kit for endodontic dentistry.

Ceramic Adjustment Kit

Profile	Cat. No.	Shape	Application
	A3PF	Round	Ceramic - adjustments / endo access
	E5PF	Flame	Ceramic - adjustments / crown cutting
	K2RPF	Egg/Football	Ceramic - adjustments
	M3PF	Round End Taper	Ceramic - adjustments / crown cutting
	RDRAZ14M	Wheel	Zirconia smoothing polisher
	RDRAZ14F	Wheel	Zirconia polishing
	RDRAE14M	Wheel	Lithium disilicate smoothing polisher
	RDRAE14F	Wheel	Lithium disilicate polishing



Cat. No.: 45086CERECKIT1

Designed by Dr. Eran Dolev,
Department of Oral Rehabilitation, School of Dental Medicine, Tel – Aviv University.
ISCD certified CEREC trainer.

Crown Preparation Kit

Profile	Cat. No.	Shape	Application
	E3M	Needle	Interproximal separation
	Z11M	Needle	Interproximal separation
	M31M	Round End Taper	Chamfer preparation & finishing line for posterior tooth
	F1RM	Round End Taper	Chamfer preparation & finishing line for anterior tooth
	F1RF	Round End Taper	Chamfer preparation & finishing line for anterior & posterior tooth
	T3M	Tapered Bevel	Chamfer finishing line
	T6M	Tapered Bevel	Chamfer finishing line
	PR1M	Pointed Cylinder	Chamfer finishing line
	E7M	Pointed Cylinder	Chamfer finishing line
	K2RM	Egg/Football	Lingual / palatal preparation
	M41M	Barrel	Occlusal reduction
	PR8F	End Cutting	Narrow shoulder finish line



Cat. No.: 45086CPSET2

A complete starter kit for crown and bridge preparation.

IPR Kit

Profile	Cat. No.	Shape	Application
	 J316SF	Orthodontic	Interproximal stripping diamond bur - 0.3 mm
	 J316PF	Orthodontic	Interproximal stripping diamond bur - 0.4 mm
	 Z12S/SF	Orthodontic	Interproximal stripping diamond bur - 0.45 mm
	 Z12S/PF	Orthodontic	Interproximal stripping diamond bur - 0.5 mm
	 J10F	Orthodontic	Interproximal stripping diamond bur
	 E11S/SF	Orthodontic	Interproximal stripping diamond bur - 0.55 mm
	 E11S/PF	Orthodontic	Interproximal stripping diamond bur - 0.65 mm

The IPR system is a precise tool for tooth slenderizing. This kit includes all of the necessary Diamonds for IPR stripping. Incorporated in this kit are unique and precise Diamond burs that contain special diameters ranging from 0.3-0.65 mm, which allows the doctor to achieve the desired tooth slenderization and contouring as quickly and accurately as possible.

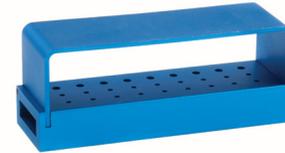


Cat. No.: 45086IPRKIT1

Bur Blocks

Metal Bur Blocks

Cat. No.	Description
PKBBM18FG9RA1	Aluminum bur block - 18 FG + 9 RA



The block can be autoclaved in up to 135°C.



ORBIS)))

www.orbis-dental.com

CE 0483 **MD** Dental burs

 ORBIS Dental Handelsgesellschaft mbH
D-48153 Münster · Schuckertstraße 21

 Mednet EC-REP
Borkastrasse 10 | 48163 Muenster | Germany

 STRAUSS & CO.
19 hayezira st. Ra'anana 4366363 Israel