



DEFEND[®]

ROTARY INSTRUMENTS
CATALOG

Our DEFEND® brand has become your one-stop shop for all rotary instruments. Nowhere else on earth will you find as comprehensive a selection as we offer, from carbides to diamonds to finishing and polishing instruments.



Not only do we provide a single source for all rotary instruments, but our instruments offer both leading quality performance and amazing value. An independent evaluation from *Dental Product Shopper* magazine rated our carbides as a Best Product of 2012, with the highest rating ever given to a carbide bur. We have products that match the newest technologies in composite polishers, such as Dentsply's Enhance and PoGo. We also have the head-to-head comparable products to the industry leaders, like 3M's Sof-Lex discs and strips and Brasseler's multi-use diamonds.

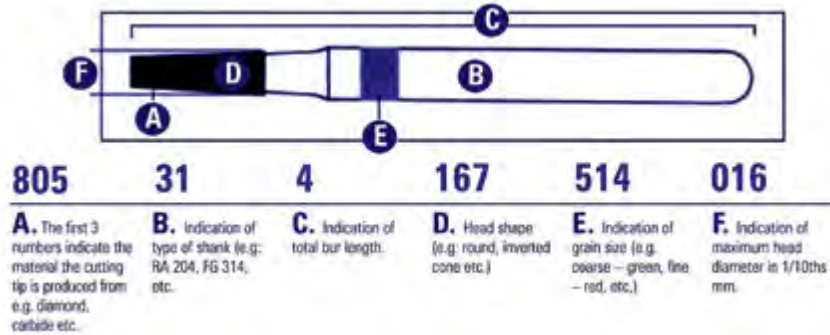
Our burs are designed and manufactured to consistently deliver the best performance and durability. We are extremely proud of the value we provide, not just through the outstanding quality of our products but also through our great prices, same day shipping, and tiny backorder rate. We are ready to support you with the best price on the best products!

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THE ISO Numbering System

A formal International Standards Organization (ISO) coding system has been established to simplify identification and ordering of all burs. An example of the ISO coding system is as follows:



ISO Bur Shanks

Maximum shank length

ISO: Type:

Length/ømm

104 Straight handpiece (HP)		44.5/2.35
202 Right angle mini (RA mini)		16/2.35
204 Right angle (RA)		22.5/2.35
205 Right angle extra long (RA X long)		26.5/2.35
206 Right angle surgical (RA surg)		34/2.35
313 Friction grip short (FG short)		16.5/1.6
314 Friction grip (FG)		19/1.6
315 Friction grip extra long (FG X long)		21/1.6
316 Friction grip surgical (FG surg)		25.4/1.6

ISO Bur Head Sizes

Maximum diameter of cutting tip

• 009 0.90mm		045 4.5mm
• 010 1.0mm		047 4.7mm
• 012 1.2mm		050 5.0mm
• 014 1.4mm		055 5.5mm
• 016 1.6mm		060 6.0mm
• 018 1.8mm		065 6.5mm
• 021 2.1mm		070 7.0mm
• 023 2.3mm		075 7.5mm
• 025 2.5mm		080 8.0mm
• 027 2.7mm		100 10.0mm
• 029 2.9mm		
• 031 3.1mm		
• 033 3.3mm		
• 035 3.5mm		
• 037 3.7mm		
• 042 4.2mm		

ISO Diamond Grit Identification

N = Normal/Medium	ISO code 524
SC = Super Coarse	ISO code 544
C = Coarse	ISO code 534
F = Fine	ISO code 514
SF = Super Fine	ISO code 504
UF = Ultra Fine	ISO code 494

BUR SHAPES

Description	Shape	ISO	Description	Shape	ISO
Barrel	811	037, 038	Pear	822, 830	237, 238, 239
Cylinder Rounded Shoulder	835KR, 836KR, 837KR, 880, 881, 881KS	146, 156, 157, 158	Pointed Cylinder	879, 884, 885, 886,	129, 130, 131
Depth Cutting	834	552	Round	801	001
Double Inverted Cone	806, 813	019, 032,	Round + Neck	802	002
Egg/Football	368, 369, 379	243, 257, 277	Surgical Length Round	801L	001(316)
End Cutting	839, 840	150	Round End Cylinder	838, 881	139, 141
Flame	390, 860, 861, 862, 863	247, 248, 249, 250, 254, 297, 298	Round End Taper	849, 850, 850L, 855, 855L, 856, 856L	196, 197, 198, 199
Flat End Cylinder	835, 836, 837	108, 109, 110, 111, 141	Round Wheel	909	066, 067, 068
Flat End Taper	845, 846, 847, 848	169, 170, 171, 172, 173	Safe End	851	220
Gingival Curettage	877K, 878K, 879K,	297, 298	Separation	889	169, 540
Gross Reduction	651, 652, 654, 655	511, 512, 513	Specials - Cool Cut	T368, T850, T855, T855L, T862, T863	197, 199, 249, 257
Inter Proximal	392	465	Taper Rounded Shoulder	845KR, 846KR, 847KR	544, 545, 546
Inverted Cone	805, 807	010, 225	Torpedo Cylinder	877, 878, 879	288, 289, 290
Knife Edge	825	304	Wheel	818	041, 042
Needle	852, 858, 859, 859L, 889	160, 170, 171, 172, 173, 198, 199	X-Mas Tree	852	161

HEAD DIAMETER / SIZES

Per ISO standards the diameter of a rotary instrument is defined as the widest part of the cutting surface.

\varnothing 1/10mm \varnothing mm \varnothing inches	005 0.5 0.020	006 0.6 0.024	007 0.7 0.028	008 0.8 0.031	009 0.9 0.035	010 1.0 0.039	012 1.2 0.047	014 1.4 0.055	016 1.6 0.063	018 1.8 0.071	021 2.1 0.083	023 2.3 0.091	025 2.5 0.098	027 2.7 0.106	029 2.9 0.114
\varnothing 1/10mm \varnothing mm \varnothing inches	031 3.1 0.122	033 3.3 0.130	035 3.5 0.138	037 3.7 0.148	040 4.0 0.157	042 4.2 0.165	045 4.5 0.177	047 4.7 0.185	050 5.0 0.197	055 5.5 0.217	060 6.0 0.236	065 6.5 0.256	070 7.0 0.276	075 7.5 0.295	080 8.0 0.315

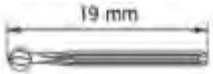


BUR SHANKS

Types of Carbide Bur Shanks

The three main types of shanks are Friction Grip (FG), Right Angle (RA) (also known as Latch-Type), and Handpiece (HP). *It is important to know which type of shank you want when choosing a bur because each type is designed to fit into a certain type of handpiece.*

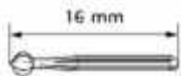
Friction Grip (Standard Length) (FG)



FG 1.60mm

- For use in high speed handpieces and *friction grip* low speed contra angle heads.
- Has the smallest diameter shank of all the types of carbide burs; the end of the shank is smooth and is held in place in the handpiece by friction against a chuck.
- The most commonly used operative bur in many offices.

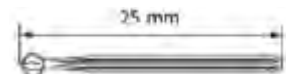
Friction Grip (Short Shank) (FG SS)



FG SHORT SHANK 1.60mm

- For use in high speed handpieces (with miniature heads ONLY) and *friction grip* low speed contra angle heads.
- Has a shank that is the same diameter as a standard friction grip bur but is almost 20% shorter; also held in place in the handpiece by friction.
- For use when better access to the posterior region is needed, especially when patients cannot open their mouths wide enough.

Friction Grip (Long) (FG Long)



FG LONG 1.60mm

- For use in high speed handpieces and *friction grip* low speed contra angle heads.
- Has a shank that is the same diameter as a standard friction grip bur, but the total length of the shank and head is about 30% longer; also held in place in the handpiece by friction.

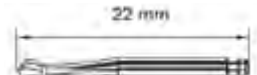
Friction Grip (Surgical) (FG Surgical)



FG SURGICAL 1.60mm

- For use in high speed handpieces and *friction grip* low speed contra angle heads.
- Has a shank that is the same diameter as a standard friction grip bur but is more than 50% longer; also held in place in the handpiece by friction.
- Often used when a longer length and better visibility are required, including in extraction and root canal procedures.

Right Angle/Latch-Type (RA)



RA 2.35mm

- For use in latch-type contra angle heads in low speed handpieces.
- Has a notch on the end that allows a hook to latch onto it in the head of the handpiece.
- Provides greater control when cutting dentin or enamel.

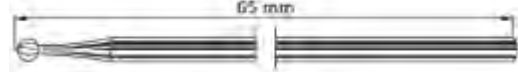
Right Angle/Latch-Type (Surgical) (RA Surgical)



RA SURGICAL 2.35mm

- For use in latch-type contra angle heads in low speed handpieces.
- Has a notch on the end that allows a hook to latch on to it in the head of the handpiece.
- Has a shank that is the same diameter as a standard right angle bur but is about 20% longer.

Straight Handpiece (HP)



HP LONG 2.35mm

- Used in straight attachments/nose cones and Doriot-type low speed handpieces.
- Has a large, long shank.
- Used primarily in dental laboratories and to make adjustments to material outside the mouth.

FINISHING & POLISHING

FINISHING AND POLISHING INSTRUMENTS

Finishing and Polishing Instruments are used to finish and polish dental material surfaces to improve their aesthetic quality.

There are many different types of finishing and polishing instruments, and many instruments have overlapping capabilities, which can make it very difficult to choose. We have tried to present the trade-offs to give you guidance on choosing the best instrument for the procedure.

There are three main materials that these instruments are made of:

1. Aluminum Oxide
2. Silicon Carbide
3. Diamond Grit

The non-diamond abrasives provide good results for removing, contouring, and polishing dental materials. Silicon carbide is generally the preferred abrasive for porcelain, acrylic, and gold, as it will not cause discoloration. Aluminum oxide is the preferred choice for composites and enamel.

Diamond abrasives are more expensive, last longer, have a faster working time, and provide a mirror finish. These instruments are preferred for porcelain, ceramic, zirconia, and metals.

Just like diamonds and carbides, finishing and polishing instruments come in a range of shapes that are suited for certain materials, procedures, or restoration areas. *So the choice of instrument material and shape will be driven by both the procedure and the dental material to be worked with.*

Flexible mylar discs and strips made of aluminum oxide (called **composite discs/strips**) are the most popular choice for finishing and polishing composites.

Diamond strips are a reusable, long-lasting alternative to the mylar strips for interproximal finishing and polishing on all materials.

Also for composites, there are **diamond single-step and two-step** systems for practitioners who prefer to use point-and cup-shaped instruments. These can be disposable single-use items or autoclavable multi-use instruments. Single-use items provide convenience, while multi-use instruments are more economical. The two-step systems require more time but should provide a higher luster polish to the restoration.

Porcelain polishers generally come in three grits (coarse, medium, and fine) and can be made from aluminum oxide or diamond. The aluminum oxide porcelain polishers are more economical but are less durable and procedures take longer. The diamond porcelain polishers are more effective on the newest restorative materials. Both types offer points, cups, and discs to suit all procedures.

Silicon carbide is the preferred material for **amalgam/gold polishers** and **acrylic polishers** because it won't cause discoloration. These polishers come in a variety of shapes suitable for these materials.

Grinding and finishing abrasives and cutting discs provide fast contouring and finishing. They are made of aluminum oxide, silicon carbide, and diamond to best work with specific dental materials: **Green stones** (silicon carbide) for porcelain, composites, and gold/silver, **white stones** (aluminum oxide) for enamel, composites, and porcelain, and **diamond abrasives** for ceramic, zirconia, and aluminum restorations.

Finishing and Polishing Instruments Usage Guide

Procedure	MATERIAL					
	Composite	Porcelain/ Ceramic	Gold/ Amalgam	Acrylic	Enamel	Zirconia
Grinding/ Finishing Abrasives	Green/White Stones	•Diamond Abrasives •Green and White Stones	Green Stones	White Stones	White Stones	Diamond Abrasives
Polishing	•Composite Discs/Strips •Single and Two- Step Composite Polishers	•Porcelain Polishers •Diamond Strips	Amalgam/ Gold Polishers	Acrylic Polishers	•Composite Discs/Strips •Single and Two- Step Composite Polishers	•Diamond Porcelain Polishers •Diamond Strips



INTRODUCING OUR NEW!

PROMIDENT™
by DEFEND

DIAMOND BURS

Promident™ by DEFEND® diamond burs are made using a deliberate and precise plating process, resulting in tremendous durability and outstanding cutting efficiency. Each one of our diamond burs is individually inspected at the microscopic level to ensure that every one we produce meets our strict, high-level quality control. These burs offer the best value for the price in the market, providing you with excellent quality for an excellent price.

DIAMOND BURS

NEW! PREMIUM OFFERING

Code	909-037	909-040
.ISO No	066-037	066-040
Head Size	037	040
Head Length	1	1.3
Total Length	19	17.5
Medium	▽	▽
Coarse	▽	▽

Round Wheel

Code	818-030
.ISO No	042-030
Head Size	030
Head Length	0.8
Total Length	19
Medium	▽

Wheel

Code	655-018	652-018
.ISO No	519-018	513-018
Head Size	018	018
Head Length	8	8
Total Length	20.5	19.5
Coarse	▽	▽

Gross Reduction

Code	830L-012
.ISO No	239-012
Head Size	012
Head Length	3.9
Total Length	18.5
Medium	▽

Pear



Code	368-016	368-018	368-023	379-016	379-018	379-023	369-023
.ISO No	257-016	257-018	257-023	277-016	277-018	277-023	277-023
Head Size	016	018	023	016	018	023	023
Head Length	3.3	4.5	5.3	3.4	3.6	4.4	5.1
Total Length	20	18.5	20	19	19	19	19
S. Fine		▽	▽			▽	
Fine	▽	▽	▽	▽	▽	▽	▽
Medium		▽	▽		▽	▽	
Coarse		▽	▽		▽	▽	▽
S. Coarse			▽			▽	

Egg/Football


Code	392-016
.ISO No	465-016
Head Size	016
Head Length	5
Total Length	19
S. Fine	▽
Fine	▽
Coarse	▽

Interproximal

All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.


DIAMOND BURS

NEW! PREMIUM OFFERING




Code	801-009	801-012	801-014	801-016	801-018	801-022
.ISO No	001-009	001-012	001-014	001-016	001-018	001-022
Head Size	009	012	014	016	018	022
Head Length	.009	.012	.014	.016	.018	.022
Total Length	19	19	19	19	19	19
Medium	▽	▽	▽	▽	▽	▽
Coarse		▽	▽	▽	▽	▽

Round




Code	805-012	805-016	805-018	807-014	807-016	807-018
.ISO No	010-012	010-016	010-018	225-014	225-016	225-018
Head Size	012	016	018	014	016	018
Head Length	1.3	1.4	1.6	3	4	5
Total Length	19	19	19	19	19	19
Medium			▽	▽	▽	▽
Coarse	▽	▽	▽			

Inverted Cone



Code	806-012	806-014	813-018
.ISO No	019-012	032-014	032-018
Head Size	012	014	018
Head Length	3	2	2.1
Total Length	19	19	17
Medium		▽	▽
Coarse	▽		

Double Inverted Cone



Code	811-033	811-037
.ISO No	038-033	038-037
Head Size	033	037
Head Length	5.5	5.5
Total Length	21	21
Coarse	▽	▽
S. Coarse		▽

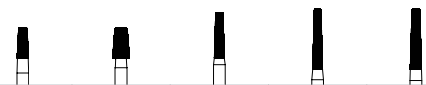
Barrel



All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.

DIAMOND BURS

NEW! PREMIUM OFFERING




Code	845KR-018	845KR-025	846KR-016	847KR-016	847KR-018
.ISO No	544-018	544-025	545-016	546-016	546-018
Head Size	018	025	016	016	018
Head Length	4	4	6	8	8
Total Length	19	19	21	21.5	21.5
Fine		◆			
Medium		◇	◇	◇	◇
Coarse	▽	▽	▽	▽	▽

Taper Rounded Shoulder


Round End Taper

Taper Rounded Shoulder

Code	855-014	855-018	855-025	856-010	856-012	856-014	856-016	856-025	856L-016
.ISO No	197-014	197-018	197-025	198-010	198-012	198-014	198-016	197-025	199-016
Head Size	014	018	025	010	012	014	016	025	016
Head Length	6.3	7	7	8	8	8	8	8	9
Total Length	21	19.5	21	21.5	21	21	21	21.5	22
Fine							◆		◆
Medium	◇						◇		
Coarse	▽	▽	▽	▽	▽	▽	▽	▽	▽
S. Coarse							▼		

Round End Taper



Code	856L-018	856-018	856L-020	850-012	850-014	850-016	850-018
.ISO No	198-018	198-018	198-020	199-012	199-014	199-016	199-018
Head Size	018	018	020	012	014	016	018
Head Length	9	9	9	10	10	10	10
Total Length	21.5	21	22	24	24	22.5	22.5
Fine	◆	◆				◆	◆
Medium		◇				◇	◇
Coarse	▽	▽	▽	▽	▽	▽	▽
S. Coarse		▼					▼

Round End Taper

All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.

DIAMOND BURS

NEW! PREMIUM OFFERING

Code	835-008	835-010	835-012	835-014	836-012	836-014	837-010	837-012	837-014	837-016	837-018
.ISO No	109-008	109-010	109-012	109-014	110-012	110-014	111-010	111-012	111-014	111-016	111-018
Head Size	008	010	012	014	012	014	010	012	014	016	018
Head Length	4	4	4	4	5.6	6	8	8	8	8	8
Total Length	19	19	19.5	19	21	21	21.5	21.5	21	21.5	21.5
Fine		▼									
Medium	▽	▽	▽					▽	▽	▽	
Coarse		▽	▽	▽	▽	▽	▽	▽	▽	▽	▽

Flat End Cylinder

Round End Cylinder

Code	836KR-014	837KR-016
.ISO No	157-014	158-016
Head Size	014	016
Head Length	6	8
Total Length	21	21.5
Coarse	▽	▽

Cylinder Rounded Shoulder

Code	881-014	881-016
.ISO No	141-014	141-016
Head Size	014	016
Head Length	8	8
Total Length	21	22
Coarse	▽	▽

Round End Cylinder

Flat End Taper

Flat End Cylinder

Cylinder Rounded Shoulder


Code	847-014	847-016	847-018	847-019	848-012	848-016	848-018
.ISO No	172-014	172-016	172-018	172-019	173-012	173-016	173-018
Head Size	014	016	018	019	012	016	018
Head Length	8	8	8	8.5	10	10	10
Total Length	21.5	21.5	21.5	21	23	22.5	22.5
Medium		▽				▽	
Coarse	▽	▽	▽	▽	▽	▽	▽

Flat End Taper



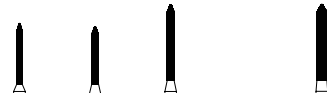
All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.

NEW! PREMIUM OFFERING




Code	878-012	878-014
.ISO No	289-012	289-014
Head Size	012	014
Head Length	8	8
Total Length	22	22
Medium	▽	
Coarse	▽	▽

Torpedo Cylinder



Code	885-010	885-012	886-012	886-014	886-016
.ISO No	130-010	130-012	131-012	131-014	131-016
Head Size	010	012	012	014	016
Head Length	8	8	10	10	10
Total Length	21.5	21	24	24	24
Medium	▽				
Coarse	▽	▽	▽	▽	▽

Pointed Cylinder



Code	889-008
.ISO No	169-008
Head Size	008
Head Length	3
Total Length	24
Fine	▽


Separation



All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.


DIAMOND BURS

NEW! PREMIUM OFFERING




Code	889-012	858-010	858-012	858-014	858-016	859-010	859-012	859-014	859-016	859L-016
.ISO No	540-012	165-010	165-012	165-014	165-016	166-010	166-012	166-014	166-016	167-016
Head Size	012	010	012	014	016	010	012	014	016	016
Head Length	4	8	8	8	8	10	10	10	10	10.5
Total Length	20	22	22	21	20.5	23.5	22.5	23	23	23.5
S. Fine				▽				▽	▽	
Fine	▽	▽		▽		▽		▽	▽	▽
Medium			▽	▽	▽	▽		▽	▽	▽
Coarse				▽			▽	▽	▽	

Needle



Code	860-010	861-014	862-010	862-012	862-014	862-018	863-016	863-010	863-012
.ISO No	247-010	248-014	249-010	249-012	249-014	249-018	250-016	250-010	250-012
Head Size	010	014	010	012	014	018	016	010	012
Head Length	4	6	8	8	8	8	9.5	10	10
Total Length	19	20	21	21	21	23.5	22	24	23.5
S. Fine		▽		▽	▽				
Fine			▽	▽	▽			▽	▽
Medium	▽			▽	▽		▽		▽
Coarse			▽	▽	▽	▽	▽		▽

Flame



Code	878K-014	878K-016	878K-018	879K-018
.ISO No	298-014	298-016	298-018	299-018
Head Size	014	016	018	018
Head Length	8	8	8	9.5
Total Length	21	20.5	20	22
Medium		▽		▽
Coarse	▽	▽	▽	

Gingival Curettage



All items are available in packs of 5 units, the items marked in blue are also available in packs of 100 units.



CARBIDE BURS

US No	1/4	1/2	1	2	3	4	5	6	8
Diameter (mm)	0.50	0.70	0.80	1.00	1.20	1.40	1.60	1.80	2.30
FG	•	•	•	•	•	•	•	•	•
FG SS				•		•		•	
FG Surg.			•	•		•		•	•
RA	•	•	•	•	•	•	•	•	•
RA Surg.				•		•		•	•
HP	•	•	•	•	•	•	•	•	•

Round

Round: For caries excavation, cavity preparation, and root canal access. Smaller sizes often used for single surface cavities, medium sizes often used for interproximal cavities in anterior teeth.

US No	245	246	256
Diameter (mm)	0.80	1.20	0.80
FG	•	•	•
FG SS	•		

Amalgam Prep

US No	33 1/2	34	35	36	37
Diameter (mm)	0.70	0.80	1.00	1.20	1.40
FG	•	•	•	•	•
FG SS		•			
RA	•	•	•		•
HP					•

Inverted Cone

Inverted Cone: For producing undercuts in cavity preparations; slightly rounded edges on the blade corners reduce chipping for a smoother cut. Ideal for amalgam removal; may also be used to contour the occlusal anatomy of final restorations and for flattening pulpal and gingival walls.

US No	556	557	558	559	560
Diameter (mm)	0.90	1.00	1.20	1.40	1.60
FG	•	•	•		•
FG SS	•	•		•	
FG Surg.	•	•	•		
RA		•	•		
RA Surg.		•			
HP	•	•	•		•

Flat Fissure Cross Cut

US No	56	57	58
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•
FG SS	•		

Flat Fissure Plain Cut

US No	556L	557L	558L
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•

Flat Fissure Cross Cut (Long Head)

Flat Fissure Plain Cut/Flat Fissure Cross Cut: For producing preparations with straight parallel sides and flat floors, gaining access to carious dentin, establishing preparation form, and creating retentive locks. Cross cut burs have more cutting edges.


US No	329	330	331	332
Diameter (mm)	0.60	0.80	1.00	1.20
FG	•	•	•	•
FG SS		•	•	

Pear

Pear: For contouring the occlusal anatomy, preparing cavities, and removing amalgam. Produces an undercut preparation with round internal line angles.

- FG: Friction Grip
- SS: Short Shank
- Surg: Surgical Length
- RA: Right Angle (Latch-Type)
- HP: Handpiece

HP items are available in packs of 5 units, all others are available in packs of 10 units. The items marked in blue are also available in packs of 100 units.




US No	169	170	171
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•

Taper Fissure Plain Cut


Taper Fissure Plain Cut/Taper Fissure Cross Cut:

For producing a preparation with tapered, divergent walls and a flat floor. Also used for inlay/onlay preparation and to section teeth and cut bone. Cross cut burs have more cutting edges.




US No	699L	700L	701L
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•

Taper Fissure Cross Cut (Long Head)




US No	169L	170L	171L
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•

Taper Fissure Plain Cut (Long Head)




US No	699	700	701	702	703
Diameter (mm)	0.90	1.00	1.20	1.60	2.10
FG	•	•	•	•	•
FG SS		•			
FG Surg.		•	•	•	•
RA			•	•	
HP	•		•	•	•

Taper Fissure Cross Cut



US No	1156	1157	1158
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•
FG SS		•	

Domed Fissure Plain Cut




US No	1556	1557	1558
Diameter (mm)	0.90	1.00	1.20
FG	•	•	•
FG SURG		•	

Domed Fissure Cross Cut

Domed Fissure Plain Cut/Domed Fissure Cross Cut:

For producing a preparation with straight, parallel, or minimally divergent walls with round internal line angles. Also used to gain access to carious dentin, establish preparation form, and create retentive locks. Cross cut burs have more cutting edges.




US No	1171
Diameter (mm)	1.20
FG	•

Domed Taper Fissure Plain Cut

Domed Taper Fissure Plain Cut/Domed Taper Fissure Cross Cut:

Used to create preparations with tapered, divergent walls and round internal line angles, to section teeth and cut bone, and to quickly shape primary anatomy in restorative material. Cross cut burs have more cutting edges.




US No	957
Diameter (mm)	1.00
FG	•

End Cutting Burs

End Cutting: Used to produce a flat preparation floor, refine preparations, and to mark the depth of bone reduction in crown lengthening. Help reduce any possibility of impacting the surface of the adjacent tooth with the cutting surface of a bur.

FG: Friction Grip
 SS: Short Shank
 Surg: Surgical Length
 RA: Right Angle (Latch Type)
 HP: Handpiece

HP items are available in packs of 5 units, all others are available in packs of 10 units. The items marked in blue are also available in packs of 100 units.

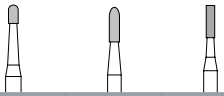


US No	118S	118L	218	48L
Diameter (mm)	1.60	1.60	1.60	1.20
FG	•	•	•	•

Orthodontic Burs

Orthodontic Burs

Ideal for adhesive removal. Also Popular for Use In Orthodontics



US No	331/19311	1558/1958	557/2057
Diameter (mm)	1.0	1.2	1.0
JP#	JP1	JP2	JP557/2057


Metal Cutting Burs

Metal Cutting

Provide maximum cutting efficiency

JP 1: Ideal for removing PFM crown and non-precious metal.

JP 2: Ideal for quick titanium abutment adjustments without the sparking associated with diamonds and for removing old restorations in secondary decay.




US No 10 blades	EF3	EF4	EF6	EF9
Diameter (mm)	0.80	1.00	1.40	1.40
10 blades	•	•	•	•
12 blades				

Esthetic Finishing Burs

Esthetic Finishing Burs

Ensure a controlled cut for a smoother finish and reduce trauma to the gingival and adjacent tooth structure for better patient comfort.

EF Series: For anterior and posterior gingival and subgingival contouring or margins.




US No	161	162
Diameter (mm)	1.60	1.60
FG Surg.	•	•

Lindemann Burs


Lindemann Burs

Has four blades for aggressive cutting of hard tissue or bone structure.



US No	152
Diameter (mm)	1.40
FG	•

Endo Z (Zekyra Bur)



US No	151	151L
Diameter (mm)	1.60	1.60
FG Surg.	•	•

Surgical Bur 151

Surgical Bur 151

Has six spiral blades for removal of debris, sectioning an impacted wisdom tooth before extraction, separating roots, and removal of a broken root stump.




All specialty burs available in 5 packs. Metal cutting burs available in 10 packs. Items in blue also available in 100 packs.

TRIMMING & FINISHING CARBIDE BURS

Twelve bladed finishing burs (7000 series) provide a smooth finish on composite, amalgam, enamel, dentin, ortho debonding, and other dental materials. Best for controlled contouring and finishing.


Thirty bladed finishing burs (9000 series) will eliminate most surface striations and, because the thirty blades remove less material per revolution, are recommended for use before abrasive polishing. Designed to reduce the “shiny dull” phenomenon and save additional polishing time. Best for final surface refinement, satin polishing, and use on ceramics because they produce a less aggressive cut.



	7901	7902	7903
US No 12 flutes			
US No 30 flutes			9903
Diameter (mm)	0.90	1.00	1.20
TF 12 flutes	•	•	•
FF 30 flutes			•

Needle

Needle: For contouring and finishing interproximal margins, occlusal margins, facial surfaces, and cavosurface margins.



	7801	7802	7803
U.S. No. 12 flutes			
U.S. No. 30 flutes			9803
Diameter (mm)	0.90	1.00	1.20
TF 12 flutes	•	•	•
TF 30 flutes			•


Bullet



	7004	7006	7008
US No 30 flutes			
US No 30 flutes			9008
Diameter (mm)	1.40	1.80	2.30
TF 12 flutes	•	•	•
FF 30 flutes		•	•


Round

Round: For contouring and finishing restorations, root planing, bone contouring and smoothing.



	7204	7205
US No		
Diameter (mm)	1.40	1.60
TF 12 flutes	•	•


Long Taper



	7404	7406	7408
US No 12 flutes			
US No 30 flutes			9406
Diameter (mm)	1.40	1.80	2.30
TF 12 flutes	•	•	•
FF 30 flutes		•	


Egg

Egg: For contouring and finishing occlusal and lingual surfaces.




	7204	7205
US No		
Diameter (mm)	1.40	1.60
TF 12 flutes	•	•

Long Taper



	7114	7611	7612	7214	7613	7714
US No 12 flutes						
US No 30 flutes				9214		9714
Diameter (mm)	0.90	0.10	0.14	0.10	1.40	1.60
TF 12 flutes	•	•	•	•	•	•
FF 30 flutes				•		•

Tapered Pointed



	7642	7664
US No 12 flutes		
US No 30 flutes		9642
Diameter (mm)	1.00	1.40
TF 12 flutes	•	•
TF 30 flutes	•	

Tapered Round End

TF: Trimming & Finishing
FF: Fine Finishing

All items are available in packs of 5 units. Items marked in blue are also available in packs of 100 units.




DIAMOND BUR




Code	368-018	368-020	368-023	379-016	379-018	379-023	369-025
.ISO No	257-018	257-020	257-023	277-016	277-018	277-023	277-025
Head Size	018	020	023	016	018	023	025
Head Length	4.5	4.5	5.3	3.4	3.6	4.4	3.9
Total Length	18.5	18.5	20	19	19	19	19
S. Fine	•		•		•	•	
Medium	•		•	•	•	•	
Coarse	•	•	•	•	•	•	•
S. Coarse	•		•			•	

Egg/Football



Code	830L-012
.ISO No	239-012
Head Size	012
Head Length	3.9
Total Length	18.5
Medium	•
Coarse	•

Pear




Code	392-016
.ISO No	465-016
Head Size	016
Head Length	5
Total Length	19
S. Fine	•
Fine	•
Medium	•

Interproximal




Code	879-012	879-014
.ISO No	289-012	289-014
Head Size	012	014
Head Length	8	8
Total Length	22	22
Medium	•	•
Coarse	•	•

Beveled Cylinder



Code	877-010	877K-012	878-012	878-014
.ISO No	289-010	289-012	289-012	289-014
Head Size	010	012	012	014
Head Length	6	6.5	8	8
Total Length	22	22	22	22
Medium	•	•	•	•
Coarse	•		•	•


Torpedo Cylinder



Code	885-010	885-012	886-012	886-014	886-016
.ISO No	130-010	130-012	131-012	131-014	131-016
Head Size	010	012	012	014	016
Head Length	8	8	10	10	10
Total Length	21.5	21	24	24	24
Medium	•				
Coarse	•	•	•	•	•


Pointed Cylinder

All items are available in packs of 10 units.
 When ordering add grit letter to end of part number.
 For example: Coarse 879-012 can be ordered as 879-012C



Code	805-010	805-012	805-016	805-018	806-010	806-012	806-014	806-016	807-014	807-016
.ISO No	010-010	010-012	010-016	010-018	806-010	806-012	806-014	806-016	225-014	225-016
Head Size	010	012	016	018	010	012	014	016	014	016
Head Length	1.3	1.3	1.4	1.6	2.5	3	3	3	3	4
Total Length	19	19	19	19	19	19	19	19	19	19
Fine		•		•						
Medium	•	•	•		•	•	•	•	•	•
Coarse			•		•	•	•	•		•

Inverted Cone




Code	813-014	813-018
.ISO No	032-014	032-018
Head Size	014	018
Head Length	2	2.1
Total Length	19	17
Medium	•	•
Coarse	•	•

Double Inverted Cone



Code	811-033	811-037
.ISO No	038-033	038-037
Head Size	033	037
Head Length	5.5	5.5
Total Length	21	21
Coarse	•	•
S. Coarse	•	•


Barrel



Code	801-010	801-012	801-014	801-016	801-018	801-023	802-012	802-014	802-016
.ISO No	001-009	001-012	001-014	001-016	001-018	001-023	802-012	802-014	802-016
Head Size	010	012	014	016	018	023	3	3.5	3.5
Head Length	1	1.2	1.4	1.6	1.8	2.3	2.4	2.4	2.4
Total Length	19	19	19	19	19	19	19	19	19
S. Fine						•			
Fine						•			
Medium	•	•	•	•	•	•	•	•	•
Coarse		•	•	•	•	•	•	•	•


Round

All items are available in packs of 10 units.
 When ordering add grit letter to end of part number.
 For example: Coarse 879-012 can be ordered as 879-012C




Code	850-010	850-012	850-014	850-016	850-018	852-010	856-012	856-014	856-016	856-018	856-021	856-025	856L-014	856L-016	856L-018
.ISO No	199-010	199-012	199-014	199-016	199-018	198-010	198-012	198-014	198-016	198-018	198-021	198-025	198-014	198-016	198-018
Head Size	010	012	014	016	018	010	012	014	016	018	021	025	016	016	018
Head Length	10	10	10	10	10	8	8	8	8	9	9	9	9	9	9
Total Length		24	24	22.5	22.5	23	21	21	21	21	21	21	22	22	21.5
S. Fine					•										
Fine				•	•				•	•					•
Medium		•	•	•	•	•		•	•	•			•	•	•
Coarse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Coarse		•	•	•	•		•	•	•	•				•	•

Round End Taper




Code	838-009
.ISO No	141-009
Head Size	009
Head Length	8.0
Total Length	21.5
Fine	
Medium	•
Coarse	
S. Coarse	

Round End Cylinder



Code	835-008	835-009	835-010	835-012	835-014	836-012	836-014	837-012	837-014	837-016	837-018
.ISO No	109-008	109-009	109-010	109-012	109-014	110-012	110-014	111-012	111-014	111-016	111-018
Head Size	008	009	010	012	014	012	014	012	014	016	018
Head Length	4	4	4	4	4	5.6	6	8	8	8	8
Total Length	19	19	19	19.5	19	21	21	21.5	21	21.5	21.5
S. Fine						•					
Medium		•	•	•	•	•	•	•	•	•	
Coarse	•		•	•			•	•	•	•	v
S. Coarse									•		

Flat End Cylinder



Code	847-014	847-016	847-018	848-010	848-016	848-018
.ISO No	172-014	172-016	172-018	173-010	173-016	173-018
Head Size	014	016	018	010	016	018
Head Length	8	8	8	10	10	10
Total Length	21.5	21.5	21.5	23	22.5	22.5
Fine	•	•				
Medium	•	•	•	•	•	•
Coarse	•	•			•	
S. Coarse					•	•

Flat End Taper

All items are available in packs of 10 units.
 When ordering add grit letter to end of part number.
 For example: Coarse 879-012 can be ordered as 879-012C



Code	860-010	860-012	861-012	861-014	861-016	862-012	862-014	862-016	863-010	863-012	863-016
.ISO No	247-010	247-012	248-012	248-014	248-016	249-012	249-014	249-016	250-010	250-012	250-016
Head Size	010	012	012	014	016	012	014	016	010	012	016
Head Length	4	4	6	6	6	8	8	8	10	10	10
Total Length	19	19	20	20	20	21	21	21	24	23.5	23.5
S. Fine	•					•	•			•	
Fine		•	•			•	•	•	•	•	•
Medium	•	•	•	•	•	•	•	•	•	•	•
Coarse						•	•	•		•	•
S. Coarse						•	•				

Flame



Code	858-010	858-012	858-014	859-010	859-012	859-016
.ISO No	165-010	165-012	165-014	166-010	166-012	166-016
Head Size	010	012	014	010	012	016
Head Length	8	8	8	10	10	10
Total Length	22	22	21	23.5	22.5	23
S. Fine						
Fine	•	•	•	•	•	•
Medium	•	•	•			
Coarse	•	•	•			

Needle



Code	878K-012	878K-016
.ISO No	298-012	298-016
Head Size	012	016
Head Length	8	8
Total Length	21	20.5
Medium	•	•
Coarse	•	•

Gingival Curettage

All items are available in packs of 10 units.
 When ordering add grit letter to end of part number.
 For example: Coarse 879-012 can be ordered as 879-012C



**FINISHING &
POLISHING
INSTRUMENTS**

Diamond Strips

Fast-cutting diamond strips. Stainless steel with diamond grit. Thin and flexible; will not stretch or break. Fully autoclavable. Diamond coating is ideal for finishing enamel and restorative materials. 6" long and gapped for easy interproximal insertion.

Description	Super Fine	Fine	Medium
Code	FS4-SF	FS4-F	FS4-M
Available in packages of 10			
Standard Diamond Strips			



Standard: Finishing without frills, the same standard polishing strips get the job done every time

Description	Super Fine	Fine	Medium
Code	FS4P-SF	FS4P-F	FS4P-M
Available in packages of 10			
Perforated Diamond Strips			



Perforated: Perforated design provides improved visibility, more flexibility, and total control in reduction, shaping, and contouring.

Description	Fine/Perforated	Medium/Perforated	Medium/Standard
Code	FSD4P-F	FSD4P-M	FSD4-M
Available in packages of 10			
Double-Sided Diamond Strips			



Double-Sided: Double the standard finishing with half the tools. No frills option which gets twice the job done

Strip Saw

7"x 8mm wide stainless steel serrated saw for opening embrasures and easily opening contacts following restorative procedures.



Description	8mm Strip Saw
Code	SAW-8MM
Available in packages of 6	
Strip Saw	

Composite Discs and Strips, 3M Sof-Lex-Type

Easy to use and ideal for all composites. Produce surface smoothness and visual gloss for more natural and life-like results. Color-coded to simplify your polishing procedures. Made of aluminum oxide on a flexible ultra-thin mylar backing, allowing the disc to conform to the contours of the teeth.



	Size	Gross Reduction	Contour	Finish	Polish
Color		Blue	Pink	Yellow	White
Description	3/8"	Coarse	Medium	Fine	Superfine
Code		SL1981/1958C	SL1981/1958M	SL1981/1958F	SL1981/1958SF
Description	1/2"				
Code		SL1982/1958C	SL1982/1958M	SL1982/1958F	SL1982/1958SF


Available in packages of 100

Composite Disc Refills

Disc Refills* (maximum RPM 20,000)



Description	1/2" Single Dose Bags
Code	SP-SL1982
Available in packages of 48	
Single Patient Composite Disc Kit	

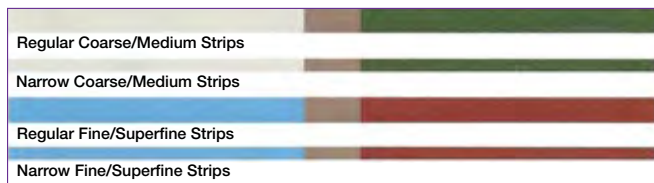


Description	RA Mandrel
Code	MAN-1958RA
Available in packages of 3	
Composite Disc Mandrels	

Composite Disc Mandrels
(for use with DEFEND Sof-Lex-type discs)

Finishing and Polishing Strips

Interproximal trimming, polishing, and finishing at a high level of polish and luster, gapped at the center for easy interproximal insertion.



Description	Regular Coarse/ Medium Strips	Narrow Coarse/ Medium Strips	Regular Fine/ Superfine Strips	Narrow Fine/ Superfine Strips
Code	SL1954-C/M	SL1954N-C/M	SL1956-F/SF	SL1956N-F/SF
Available in packages of 100				
Finishing & Polishing Strips				



Contents	<ul style="list-style-type: none"> • 200 discs (25 each of 3/8" and 1/2" Coarse, Medium, Fine, and Superfine) • 50 strips (25 each of Regular Coarse/Medium and Regular Fine/Superfine) • 2 RA Mandrels
Code	SL2385-KIT
Contains 252 pieces	
Complete Disc/Strip Kit	

*Note: DEFEND Sof-Lex-type discs will not fit on Sof-Lex pop-on mandrels (they are 1958 type)

SINGLE-USE POLISHING INSTRUMENTS

Single-Use Diamond Composite Polishers, Dentsply PoGo/Enhance-Type

These disposable polishing systems are ideal for finishing and polishing all composites, creating a high-gloss luster even on the latest generation composite materials.



Description	Disc	Cup	Point
Code	ENH-DISC	ENH-CUP	ENH-PT
Shank	RA	RA	RA

Available in packages of 48. Recommended RPM 5,000-10,000

Dentsply Enhance-Type, Coarse

Dentsply Enhance-Type, Coarse:

Two-step polishing system for finishing and polishing all composite restorations. Provides an aesthetic high gloss finish.



Description	Disc	Cup	Point
Code	POG-DISC	POG-CUP	POG-PT
Shank	RA	RA	RA

Available in packages of 48. Recommended RPM 5,000-10,000

Dentsply Po-Go Type, Fine

Dentsply Po-Go Type, Fine: One-step diamond polisher creates high luster on all composites without paste in one quick and easy step.

Single-Use Diamond Composite Polishing Kit


Dentsply Enhance/PoGo-Type



Contents	<ul style="list-style-type: none"> • 10 cup fine polishers • 10 cup course polishers • 10 point fine polishers • 10 point course polishers • 10 disc fine polishers • 10 disc course polishers
Code	ENH/POG-KIT
Contains 60 pieces	
Single-Use Diamond Composite Polishing Kit	

Two-Step Diamond Composite Polishers (Multi-Use)

Two-step diamond polishing system for finishing, smoothing and high-luster polishing of the latest generation of composite materials. Diamond abrasives are embedded in the four silicone polisher shapes to enable easy access to interproximal and occlusal surfaces.



Description	Point	Cup
Code	COMP-PF	COMP-CF
Shank	RA	RA

Available in packages of 3. Recommended RPM 5,000-10,000

Polishers, Fine



Contents	<ul style="list-style-type: none"> • 1 small point fine polisher • 1 small point course polisher • 1 point fine polisher • 1 point course polisher • 1 cup fine polisher • 1 cup course polisher • 1 cup knife edge polisher • 1 cup knife edge polisher
Code	COMP-KIT
Contains 8 pieces	

Two-Step Diamond Composite Polishing Kit

Zirconia/CAD/CAM Ceramic Abrasives


High performance synthetically bound diamond abrasives for latest generation materials. Specially designed for zirconia and alumina restorations without generating heat. Coarse abrasives for gross reduction, medium abrasives for finishing. For polishing, use DEFEND Porcelain Polishers.



Description	Disc	Cone
Code	ZIRC-DC	ZIRC-CC
Shank	RA	RA

Available in packages of 3. Recommended RPM 8,000-12,000

Diamond Abrasives, Coarse



Description	Disc	Cone
Code	ZIRC-DM	ZIRC-CM
Shank	RA	RA

Available in packages of 3. Recommended RPM 8,000-12,000

Diamond Abrasives, Medium



Contents	<ul style="list-style-type: none"> • 1 disc coarse polisher • 1 disc medium polisher • 1 cone coarse polisher • 1 cone medium polisher
Code	ZIRC-KIT
Contains 4 pieces	

Ceramic Abrasives Kit

PORCELAIN & STONE POLISHING INSTRUMENTS

Diamond Porcelain Polisher, NTI/Axis CeraGlaze-Type

Amazing three-step diamond polishing system for removing, finishing, and high-luster polishing of ceramic, metal, and zirconia. Diamond abrasive embedded in a hard-flexible, silicone polisher. No need for multiple polishing systems, and the high-luster polish is achieved without paste.



Description	Wheel	Small Point	Point	Cup	Disc
Code	CERA-W43M	CERA-SP33M	CERA-P32M	CERA-C55M	CERA-D36M
Shank	HP	RA	RA	RA	RA
Available in packages of 3. Recommended RPM 7,000-12,000					
Smoothing, Medium					



Description	Wheel	Small Point	Point	Cup	Disc
Code	CERA-W43C	CERA-SP33C	CERA-P32C	CERA-C55C	CERA-D36C
Shank	HP	RA	RA	RA	RA
Available in packages of 3. Recommended RPM 7,000-12,000					
Shaping, Coarse					



Description	Wheel	Small Point	Point	Cup	Disc
Code	CERA-W43F	CERA-SP33F	CERA-P32F	CERA-C55F	CERA-D36F
Shank	HP	RA	RA	RA	RA
Available in packages of 3. Recommended RPM 7,000-12,000					
High Shine, Fine					

Green and White Stones, Shofu Dura-Green- and Dura-White-Type

Green Stones contain silicon carbide and are excellent for fast contouring and finishing of porcelain, composites, and gold and silver alloys. White Stones, made of aluminum oxide, are ideal for fine contouring and finishing of enamel, composites, and porcelains.



Description	FL2
Code	G-FL2FG-12
Shank	FG
Available in packages of 12. Recommended RPM 8,000-12,000	
Green Stones	



Description	CN1	FL2	RD1
Code	W-CN1FG-12	W-FL2FG-12	W-RD1FG-12
Shank	FG	FG	FG
Available in packages of 12. Recommended RPM 8,000-12,000			
White Stones			



Contents	<ul style="list-style-type: none"> • 1 small point coarse polisher • 1 small point medium polisher • 1 small point fine polisher • 1 point coarse polisher • 1 point medium polisher • 1 point fine polisher • 1 cup coarse polisher • 1 cup medium polisher • 1 cup fine polisher • 1 disc coarse polisher • 1 disc medium polisher • 1 disc fine polisher
Code	PORC-KIT
Contains 12 pieces	
Standard Porcelain Polishing Kit	

Contents	<ul style="list-style-type: none"> • 1 small point coarse polisher • 1 small point medium polisher • 1 small point fine polisher • 1 point coarse polisher • 1 point medium polisher • 1 point fine polisher • 1 cup coarse polisher • 1 cup medium polisher • 1 cup fine polisher • 1 disc coarse polisher • 1 disc medium polisher • 1 disc fine polisher
Code	CERA506-KIT
Contains 12 pieces	
Diamond Porcelain Polishing Kit	

PORCELAIN & STONE POLISHING INSTRUMENTS

Acrylic Polishers, NTI/Axis-Type

Three-step polishing system for removing, finishing, and high-luster polishing of acrylics. Silicon carbide embedded in a medium-soft, flexible, synthetic rubber matrix.

Description	Small Point	Point	Large Point	Jumbo
Code	ACR-SP9580C	ACR-P679C	ACR-LP674C	ACR-J672C
Shank	HP	HP	HP	HP
Available in packages of 6. Recommended RPM 5,000-7,000				
Shaping, Coarse				

Description	Small Point	Point	Large Point	Jumbo
Code	ACR-SP9580F	ACR-P659F	ACR-LP654F	ACR-J652F
Shank	HP	HP	HP	HP
Available in packages of 6. Recommended RPM 5,000-7,000				
High Shine, Fine				

Description	Small Point	Point	Large Point	Jumbo
Code	ACR-SP9580M	ACR-P669M	ACR-LP664M	ACR-J662M
Shank	HP	HP	HP	HP
Available in packages of 6. Recommended RPM 5,000-7,000				
Smoothing, Medium				

Description	Mini Point	Mini Point	Mini Point	Mini Point	Mini Point
Type	Shaping, Coarse	Smoothing, Medium	High Shine, Fine	Coarse Grit	Medium Grit
Code	AMAL-MP030C	AMAL-MP030M	AMAL-MP030F	AMAL-FG-MP030C	AMAL-FG-MP030M
Shank	RA	RA	RA	FG	FG
Available in packages of 12. Recommended RPM 5,000-7,000					
Amalgam/Gold Polishers - Friction Grip					



Contents	<ul style="list-style-type: none"> • 1 small point coarse polisher • 1 small point medium polisher • 1 small point fine polisher • 1 point coarse polisher • 1 point medium polisher • 1 point fine polisher • 1 cup coarse polisher • 1 cup medium polisher • 1 cup fine polisher • 1 disc coarse polisher • 1 disc medium polisher • 1 disc fine polisher
Code	ACR-KIT
Contains 12 pieces	
Silicone Acrylic Polishing Kit	



Contents	<ul style="list-style-type: none"> • 1 mini point coarse polisher • 1 mini point medium polisher • 1 mini point fine polisher • 1 point coarse polisher • 1 point medium polisher • 1 point fine polisher • 1 cup coarse polisher • 1 cup medium polisher • 1 cup fine polisher • 1 bullet coarse polisher • 1 bullet medium polisher • 1 bullet fine polisher
Code	AM-GOLDKIT
Contains 12 pieces	
Amalgam/Gold Polishing Kit	



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