

## Midwest Once® Sterile Carbide & Diamond Burs



# Midwest Once® Carbide Burs

## Operative Carbide Burs

Exceptional cutting performance. Extensive selection of shapes and sizes in familiar configurations to meet your clinical needs.

## Oral Surgical Carbide Burs

Superior, precision ground cutting edges for efficient and consistent cutting performance. Ideal for cutting through bone and sectioning teeth.

## Trimming & Finishing Carbide Burs

Custom blended tungsten carbide, sintered and precision ground for superior cutting edges and striation-free surfaces.

## Specialty Carbide Burs

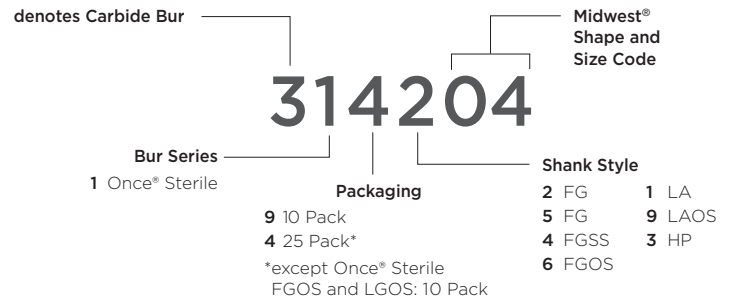
Exceptional metal cutting performance from our unique blade geometry, designed for optimum efficiency.

## Convenient Packaging







Burs are individually wrapped on a convenient dispenser roll.



## Midwest Once® Carbide Bur Numbering System



## Bur Shank Dimensions

Style		Length mm / inches	Diameter mm
	FGSS Friction Grip / Short Shank	16.5 / 0.65	1.60
	FG Friction Grip	19.0 / 0.75	1.60
	FGOS Friction Grip Oral Surgical	25.0 / 0.98	1.60
	LA Latch	22.0 / 0.87	2.35
	LAOS Latch Oral Surgical	26.0 / 1.02	2.35
	HP Handpiece (Straight)	44.5 / 1.754	2.35

Length for standard head sizes includes cutting head of bur. "L" Series Burs offer longer head dimensions which add to the overall length. Refer to product tables for specifications. Convert mm to inches x .039.

## Be in the Know: Bur Safety

*Courtesy of The Centers for Disease Control and Prevention*

- Using disposable instruments improves patient safety by eliminating the risk of patient-to-patient contamination.
- Single-use options for some instruments — such as burs and endodontic files — may be better because their construction makes them difficult to clean.
- Cleaning and heat sterilization may lead to deterioration of instrument cutting surfaces and raise the potential for breakage during patient treatment.



**Round**

Useful for opening and shaping cavity preparations. Also used for root canal access and caries removal. Smaller sizes facilitate conservative preparations.

**Round**



	Shape	1/4	1/2	1	2	4	6	8
	Diameter mm	0.5	0.6	0.8	1.0	1.4	1.8	2.3
	Length mm	0.5	0.6	0.8	1.0	1.4	1.8	2.3
	One-Piece	●	●	●	●	●		
<b>FG</b>	25 Pk	314201	314202	314203	314204	314205	314206	314207
<b>FGSS</b>	25 Pk				314404			
<b>LA</b>	25 Pk		314102	314103	314104	314105	314106	314107
<b>HP</b>	10 Pk				319304	319305		



**Inverted Cone**

Ideal for creating mechanical retentions and undercuts when contouring cavity preparations for amalgam restorations.

**Inverted Cone**



	Shape	33 1/2	34	35	36	37
	Diameter mm	0.6	0.9	1.0	1.0	1.2
	Length mm	0.4	0.6	0.7	0.8	0.8
	One-Piece	●	●	●	●	●
<b>FG</b>	25 Pk	314209	314210	314211	314212	314213
<b>FGSS</b>	25 Pk			314411		
<b>LA</b>	25 Pk		314110	314111		



**Pear**

Designed for easy initial entry and a smooth contoured shape that eliminates sharp corners. Can also be used to create convergent lateral walls for mechanical retention.

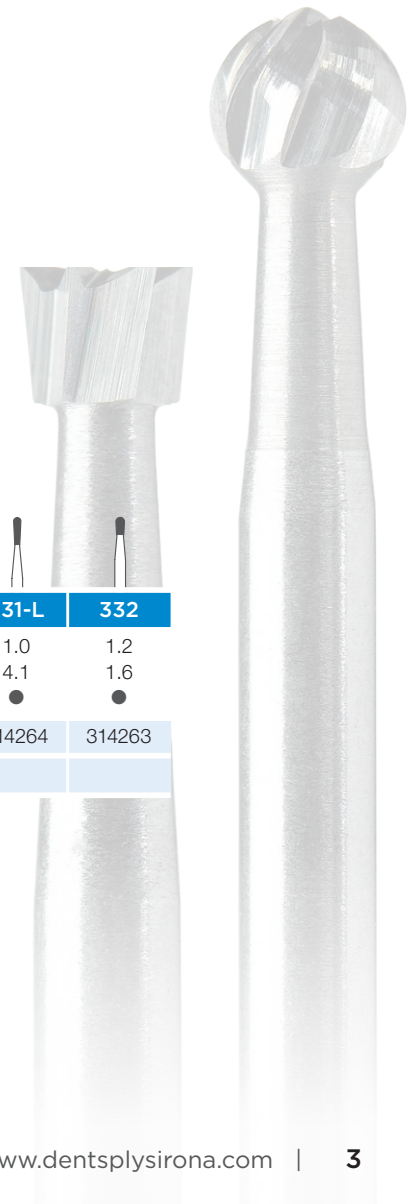
**Long Pear**



**Pear**



	Shape	245	329	330	331	331-L	332
	Diameter mm	0.9	0.6	0.8	1.0	1.0	1.2
	Length mm	2.7	1.6	1.6	1.6	4.1	1.6
	One-Piece	●	●	●	●	●	●
<b>FG</b>	25 Pk	314271	314269	314261	314262	314264	314263
<b>FGSS</b>	25 Pk	314471		314461	314462		





## Straight Flat End

Ideal for creating flat or parallel surfaces; can be used to create flat floors with square shoulders. Extended length heads and crosscut versions also available.

### Straight Flat End



Shape		56	57	58	556	557	557-L	558
Diameter mm		0.9	1.0	1.2	0.9	1.0	1.0	1.2
Length mm		3.2	3.7	3.7	3.2	3.7	4.9	3.7
One-Piece		●	●	●	●	●	●	●
FG	25 Pk	314216	314217	314218	314226	314227	314251	314228
FGSS	25 Pk				314426	314427		
HP	10 Pk					319327		

### Straight Flat End CC



## Straight Dome End

Designed for easier entry than a flat end bur. Creates a straight side surface with smooth rounded corners. Crosscut versions also available.

### Straight Dome End



Shape		1156	1157	1158	1556	1557	1558
Diameter mm		0.9	1.0	1.2	0.9	1.0	1.2
Length mm		3.2	3.7	3.7	3.2	3.7	3.7
One-Piece		●	●	●	●	●	●
FG	25 Pk	314255	314256	314257	314258	314259	314260
HP	10 Pk					319359	

### Straight Dome End CC



## Taper Flat End

Can be used to create divergent sides with rounded corners. Designed for easy initial entry with the rounded end.

### Taper Flat End



Shape		169	169-L	170	170-L	699	700	701	701-L	702
Diameter mm		0.9	0.9	1.0	1.0	0.9	1.0	1.2	1.2	1.6
Length mm		3.2	4.9	3.7	4.9	3.2	3.7	3.7	4.9	4.1
One-Piece		●	●	●	●	●	●	●	●	●
FG	25 Pk	314221	314245	314222	314246	314231	314232	314233	314250	314234
HP	10 Pk							319350		

### Taper Flat End CC



















### Taper Dome End





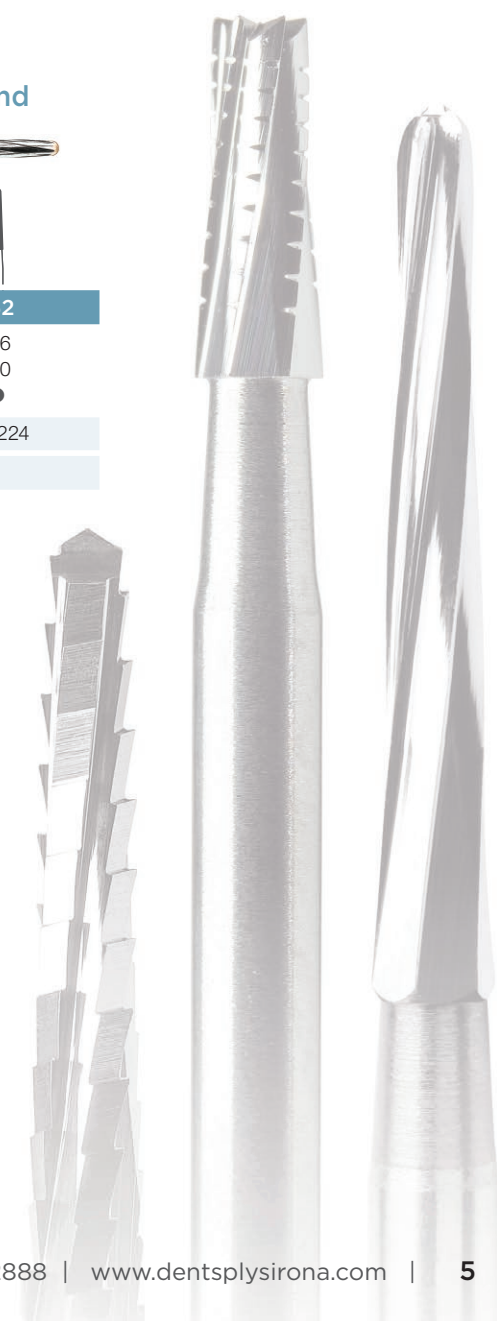
Shape		1171
Diameter mm		1.2
Length mm		3.7
One-Piece		●
FG	25 Pk	314273

Superior, precision ground cutting edges for efficient and consistent cutting performance. Ideal for cutting through bone and sectioning teeth.

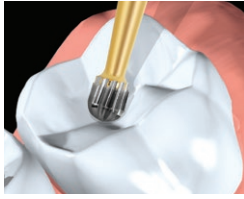
Round							Straight Flat End CC			
										
Shape	1/2	1	2	4	6	8	557	558	559	
Diameter mm	0.6	0.8	1.0	1.4	1.8	2.3	1.0	1.2	1.4	
Length mm	0.6	0.8	1.0	1.4	1.8	2.3	3.7	3.7	4.2	
One-Piece	●	●	●	●			●	●	●	
FGOS	10 Pk	314602	314603	314604	314605	314606	314607	314627	314628	314629
LAOS	10 Pk			314904	314905	319606	319607	314927		

Taper Flat End CC				Taper Dome End Long		Taper Safe End	
							
Shape	700	701	702	703	151-Z	151L-Z	152
Diameter mm	1.0	1.2	1.6	2.1	1.6	1.6	1.6
Length mm	3.7	3.7	4.1	4.5	11.0	11.0	9.0
One-Piece	●	●	●		●	●	●
FG	10 Pk				319251		319224
FGOS	10 Pk	314632	314633	314634	314635	319252	

Lindemann		Lindemann CC	
			
Shape	161	162	
Diameter mm	1.6	1.6	
Length mm	10.0	10.0	
One-Piece	●	●	
FG	10 Pk	314613	314614



# Midwest Once® Trimming & Finishing Carbide Burs



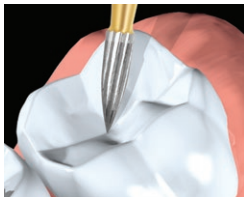
## Round

May be used for contouring and finishing of restorations, root planning or contouring and smoothing of bone.



## Egg

Geometrically suited to cutting concave surfaces: occlusals and anterior lingual.



## Needle

Narrow tapered end for placing secondary anatomy on restorations.



## Interproximal

An ideal curvature for interproximal trimming and fine finishing on anterior and posterior restorations.



## Taper Flat End








Tapered burs with flat ends, ideal for finishing composite restorations, available in 12 and 30 blade options.

		Round				Egg			Flame		
12 Blade	Shape	7006	7404	7406	7408	274	7104	7106			
	Diameter mm	1.6	1.4	1.8	2.3	1.6	1.4	1.8			
	Length mm	1.6	3.0	3.4	3.6	3.5	3.2	3.6			
	One-Piece	●	●			●	●				
FG	10 Pk	319504	319522	319523	319524	319576	319513	319514			
30 Blade	Shape			9406							
FG	10 Pk			319223							







		Flame Long		Bullet		Interproximal	
12 Blade	Shape	48-L	48-L	7802	7803		
	Diameter mm	1.0	1.2	1.0	1.2	1.2	
	Length mm	8.0	8.0	2.8	3.0	3.4	
	One-Piece	●	●	●	●	●	
FG	10 Pk	319547	319548	319508	319509		
30 Blade	Shape					9103	
FG	10 Pk					319546	

		Needle			Taper Long & X-Long			Taper T-Series	
12 Blade	Shape	7901	7902	7903	7642	7664	7675		
	Diameter mm	0.9	1.0	1.2	1.0	1.5	1.6	1.2	
	Length mm	3.2	3.6	3.8	5.7	8.6	8.0	5.1	
	One-Piece	●	●	●	●	●	●	●	
FG	10 Pk	319510	319511	319512	319568	319569	319570		
30 Blade	Shape			9903				9214 T-2	
FG	10 Pk			319597				319501	

## Midwest Once® Trimming & Finishing Carbide Burs

		EF Series • Taper Safe End				OF Series • Safe End			
12 Blade	Shape								
	Diameter mm	0.8	1.0	1.4	1.4	2.3	0.9	0.7	OF1 Football Safe End
	Length mm	3.0	4.0	6.0	9.0	4.3	3.2	3.2	OF2, OF3 Taper Safe End
	One-Piece	●	●	●	●		●	●	
FG	10 Pk	319579	319580	319581	319582	319588	319589	319590	
30 Blade	Shape				EF9-UF				
FG	10 Pk				319583				

## Midwest Once® Specialty Carbide Burs

		Crown Preparation Series Metal Cutting • Fine Cross Cut (FCC)					
12 Blade	Shape						
	Diameter mm	1.0	1.2	2.3	1.6	1.6	1.8
	Length mm	1.9	4.0	4.3	8.0	8.0	8.0
	One-Piece	●	●		●	●	●
FG	25 Pk	314277	314278	314279	314247	314286	314288

- 1931 Pear FCC
- 1958 Straight Dome End FCC
- 379 Football FCC
- 847 Taper Flat End Modified FCC
- 856 Taper Dome End FCC



### Midwest Once® Sterile Single-Patient Diamonds

- Improve infection control — individually packaged and sterile.
- Save time and money — no need to clean and autoclave.
- Always sharp, so you're always working at optimal cutting efficiency.

**25 per pack**  
FG shank; FGSS as noted

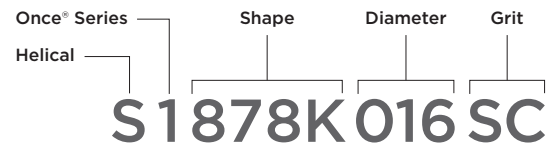
### Midwest Once® Helical Sterile Diamonds

- Clear diamond-free channel for optimal debris collection and removal.
- Unobstructed path aids water cooling.
- Specially treated natural diamond grit for efficient, smooth cutting.

**25 per pack**  
FG shank  
Super Coarse Grit



### Midwest Once® Diamond Bur Numbering System



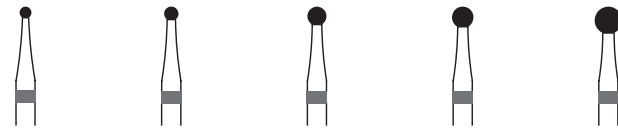
### Diamond Bur Recommended Working Speeds

*NOTE: Exceeding recommended working speed will result in excessive vibration and noise.*

Bur Head Diameter (1/10 mm)	Recommended Working Speed (RPM)
007 - 010	100,000 - 220,000
011 - 014	70,000 - 220,000
015 - 018	55,000 - 160,000
019 - 023	40,000 - 120,000
024 - 027	35,000 - 110,000
028 - 031	30,000 - 95,000
032 - 040	25,000 - 75,000
041 - 054	15,000 - 60,000
055 - 070	12,000 - 40,000
080 - 100	10,000 - 20,000



Round

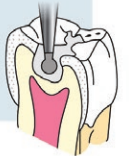


Shape	801	801	801	801	801
Diameter [0.1 mm]	010	012	016	018	023
Length [mm]	1.0	1.2	1.6	1.8	2.3
● Fine					1801023F
● Medium	1801010M	1801012M	1801016M	1801018M	
● Coarse	1801010C				1801023C



Round

Useful for opening and shaping cavity preparations. Can also be used for depth cuts. Extra large sizes useful for opening and shaping crown chambers for endodontic access.

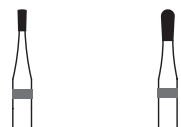


Inverted Cone



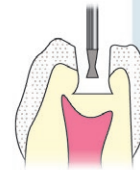
Shape	805	805	830	830
Diameter [0.1 mm]	012	016	008	012
Length [mm]	1.4	1.5	1.5	3.0
● Medium	1805012M		1830008M	1830012M
● Coarse	1805012C	1805016C		1830012C

Pear

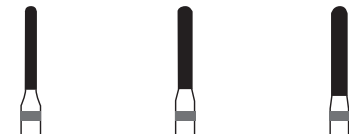


Inverted Cone

Useful for initial opening and contouring of cavity preparations and mechanical retentions/undercuts.



Cylinder Round End



Shape	881	881	881	KS1	KS2
Diameter [0.1 mm]	009	012	014	012	014
Length [mm]	8.0	8.0	8.0	7.2	8.2
● Coarse	1881009C	1881012C	1881014C		
● Super Coarse		1881012SC	1881014SC		
● Helical				S1KS1012SC	S1KS2014SC

Cylinder Round End – KS



- Super Fine
- Fine
- Medium
- Coarse
- Super Coarse

All helical diamonds are Super Coarse. Additional sizes or grits may be available. Please contact Dentsply Sirona for more information.

Cylinder Flat End



Shape	835	835	835	837	837	837
Diameter [0.1 mm]	010	012	014	012	014	016
Length [mm]	4.0	4.0	4.0	8.0	8.0	8.0
● Medium	1835010M	1835012M				
● Coarse	1835010C		1835014C	1837012C		1837016C
● Helical				S1837012SC	S1837014SC	S1837016SC

Cylinder Flat End Modified – KR

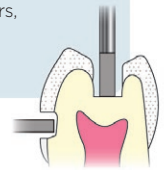


Shape	837KR	837KR
Diameter [0.1 mm]	014	016
Length [mm]	8.0	8.0
● Helical	S1837KR014SC	S1837KR016SC

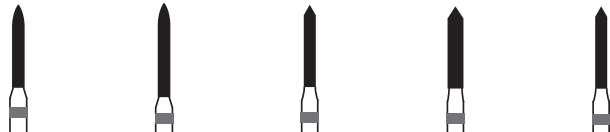
Cylinder Flat End



Use when parallel sides and flat surfaces are needed. Creates flat floors, shoulders and straight walls.



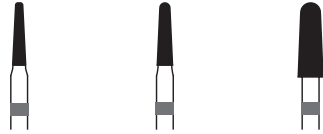
Cylinder Beveled



Shape	878	879	885	885	886
Diameter [0.1 mm]	012	012	012	016	012
Length [mm]	8.0	9.5	8.2	8.2	10.0
● Fine	1878012F				
● Coarse	1878012C		1885012C	1885016C	1886012C
● Helical	S1878012SC	S1879012SC	S1885012SC		S1886012SC

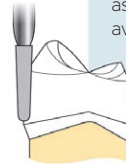


**Taper Round End**



**Taper Round End**

Useful for crown preparations with chamfered/ beveled margins. Tapered sides assist in shaping to avoid undercuts.



- Super Fine
- Fine
- Medium
- Coarse
- Super Coarse

All helical diamonds are Super Coarse.  
Additional sizes or grits may be available. Please contact Dentsply Sirona for more information.

Shape	855	855S	855
Diameter [0.1 mm]	014	016	025
Length [mm]	6.0	6.5	7.0
FGSS ● Coarse		1855S016C	
FGSS ● Super Coarse		1855S016SC	
● Coarse		1855S016C	
● Super Coarse	1855S016SC		
● Helical	S1855014SC		S1855025SC

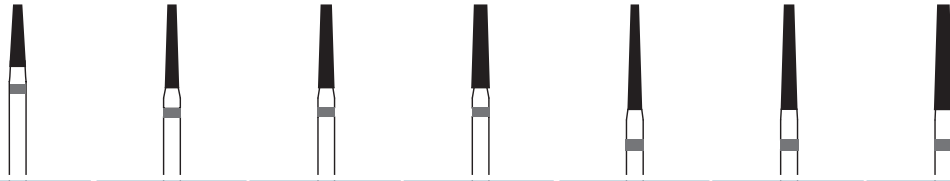
Shape	856	856	856	856	856	856
Diameter [0.1 mm]	012	014	016	018	021	025
Length [mm]	8.0	8.0	8.0	8.0	8.0	8.0
● Fine			1856016F			
● Medium		1856014M	1856016M			
● Coarse	1856012C	1856014C	1856016C	1856018C	1856021C	1856024C
● Super Coarse		1856014SC		1856018SC		
● Helical	S1856012SC	S1856014SC	S1856016SC	S1856018SC		S1856025SC

**Taper Round End Long**



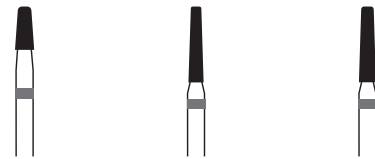
Shape	850	850	850	850	850	856L	856L
Diameter [0.1 mm]	010	012	014	016	018	016	018
Length [mm]	10.0	10.0	10.0	10.0	10.0	9.0	9.0
● Coarse	1850010C	1850012C	1850014C			1856L016C	1856L018C
● Super Coarse							1856L018SC
● Helical			S1850014SC	S1850016SC	S1850018SC		

**Taper Flat End**



Shape	846	847	847	847	848	848	848
Diameter [0.1 mm]	016	014	016	018	014	016	018
Length [mm]	6.0	8.0	8.0	8.0	10.0	10.0	10.0
● Medium							1848018M
● Coarse		1847014C	1847016C	1847018C		1848016C	
● Super Coarse		1847014SC		1847018SC			1848018SC
● Helical	S1846016SC	S1847014SC	S1847016SC		S1848014SC	S1848016SC	S1848018SC

**Taper Flat End Modified – KR**

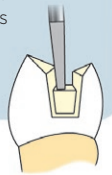


Shape	845KR	847KR	847KR
Diameter [0.1 mm]	018	016	018
Length [mm]	4.0	8.0	8.0
● Coarse		1847KR016C	1847KR018C
● Super Coarse	1845KR018SC		1847KR018SC
● Helical		S1847KR016SC	

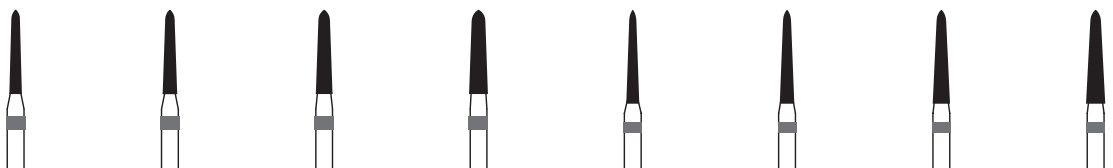


**Taper Flat End**

Tapered sides and flat end provide flat margins and convergent sides in crown preparations. Also provides flat floors and divergent walls for inlay and onlay preparations.

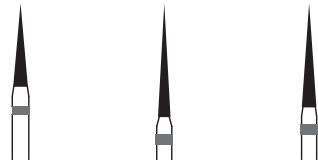


**Taper Modified Bevel**



Shape	878K	878K	878K	878K	879K	879K	879K	879K
Diameter [0.1 mm]	012	014	016	018	012	014	016	018
Length [mm]	8.0	8.0	8.0	8.0	9.5	9.5	10.0	10.0
● Medium	1878K012M		1878K016M					
● Coarse		1878K014C	1878K016C	1878K018C	1879K012C	1879K014C		
● Super Coarse				1878K018SC				1879K018C
● Helical			S1878K016SC	S1878K018SC		S1879K014SC	S1879K016SC	S1879K018SC

**Needle**



**Interproximal**

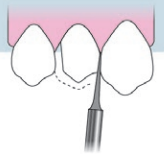


Shape	858	859	859	392
Diameter [0.1 mm]	014	012	014	016
Length [mm]	8.0	11.0	10.0	5.0
● Super Fine	1858014SF		1859014SF	
● Fine	1858014F		1859014F	1392016F
● Coarse	1858014C	1859012C	1859014C	

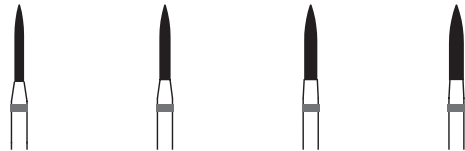


**Needle and Interproximal**

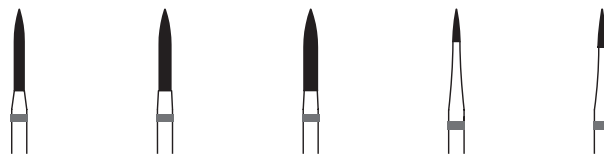
The shaped ends of these diamonds allow delicate interproximal cutting. Effective on buccal and lingual surfaces in breaking contact.



**Flame**



Shape	862	862	862	862
Diameter [0.1 mm]	010	012	014	016
Length [mm]	8.0	8.0	8.0	8.0
● Super Fine		1862012SF		
● Fine	1862010F	1862012F		
● Medium	1862010M	1862012M		
● Coarse	1862010C	1862012C	1862014C	1862016C
● Helical		S1862012SC		



Shape	863	863	863	889S	889
Diameter [0.1 mm]	012	014	016	009	009
Length [mm]	10.0	10.0	10.0	3.0	3.5
● Fine	1863012F			1889S009F	1889009F
● Medium	1863012M				
● Coarse	1863012C				
● Helical	S1863014SC	S1863014SC	S1863016SC		



- Super Fine
- Fine
- Medium
- Coarse
- Super Coarse

All helical diamonds are Super Coarse.  
Additional sizes or grits may be available. Please contact Dentsply Sirona for more information.

**Football**



**Egg**



**Egg & Football**

Rounded shapes are commonly used for both reduction and shaping of lingual and occlusal surfaces.



Shape	368	368	368	368	379	379
Diameter [0.1 mm]	016	018	020	023	018	023
Length [mm]	3.25	3.6	4.7	5.2	3.4	4.25
● Super Fine	1368016SF			1368023SF		1379023SF
● Fine	1368016F		1368020F	1368023F	1379018F	1379023F
● Coarse	1368016C	1368018C	1368020C	1368023C		1379023C
● Super Coarse				1368023SC		1379023SC
● Helical						S1379023SC

**Barrel**



**Wheel Rounded Edge**



**Gross Reduction**



Shape	811	811	909	909	6051	6055
Diameter [0.1 mm]	033	037	035	042	017	018
Length [mm]	4.2	7.5	1.2	1.4	7.6	8.2
● Coarse	1811033C	1811037C	109035C	1909042C	16051017C	16055018C
● Super Coarse	1811033SC	1811037SC				

- Super Fine
- Fine
- Medium
- Coarse
- Super Coarse

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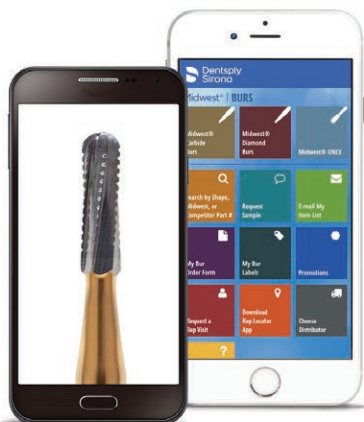
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