

# ENDODONTIC PRODUCT CATALOG



simply better endodontics™

**WHITE**®

# A Proud Heritage of Innovation, Collaboration and Achievement

The name SS White® is synonymous with dentistry in the United States. The history of SS White® Burs began in 1844 when Samuel Stockton White opened up his business in Philadelphia, PA.

The growth of SS White® is directly related to Dr. White's determination to improve his chosen profession. He encouraged doctors to communicate ideas freely with him, resulting in many innovations and a business philosophy that is the foundation of the company, even today.

SS White® continues to bring high quality products to market, enabling practitioners to work more accurately and precisely, and to maximize comfort and quality for each and every patient who enters a dental office. The enthusiasm of Dr. White exists in each and every employee still today as we continually work toward creating innovative products which will advance dentistry.

## Innovative and Differentiated Advancements

- 1847:** Dental Collaboration: The Dental Newsletter and Dental Cosmos become the first recognized dental publications developed to share knowledge, experience and technique from colleague to colleague.
- 1875:** A Complete Solution: SS White® manufactured all dental products necessary to operate and manage a modern, efficient dental office, including a full line of endodontic instruments.
- 1870:** Advancement in Aseptic Control: SS White® introduces indoor plumbing to the dental unit, significantly reducing air and water pathogens that were commonplace in dentistry.
- 1887:** Developing Longer Life Endodontics: The SS White® Company was the first to start the commercial manufacture of gutta-percha points.
- 1908:** Patient and Practitioner Comfort: The Diamond Dental Chair was the first dental chair with electrical engine, allowing for greater operational efficiency and comfort.
- 1936:** Worldwide Dental Education: SS White® Dental Cosmos becomes the Journal of the American Dental Association, expanding dental education worldwide.

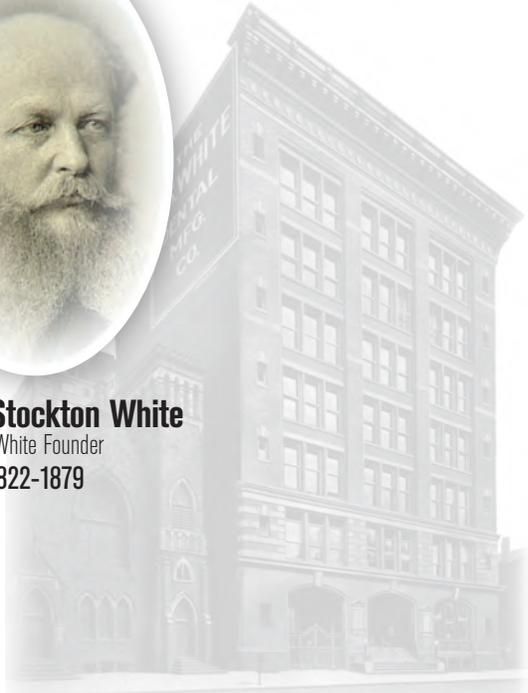


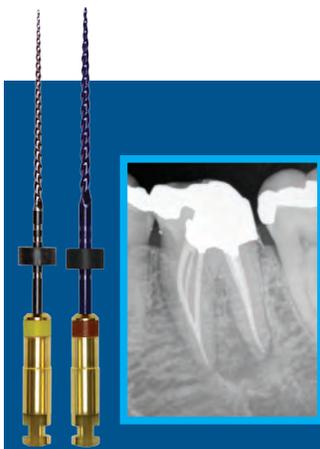
**1947:** Introduced the first carbide bur to the dental profession. Two-piece construction process of a carbide cutting head welded to a steel platform and shank.

- 1957:** Advancement in Technology: The SS White® Company introduced the first clinically successful high speed handpiece, the Borden Airotor. This fine cutting tool increased dental efficiency, patient comfort and expanded the ability to develop new techniques and procedures.



**Samuel Stockton White**  
SS White Founder  
1822-1879

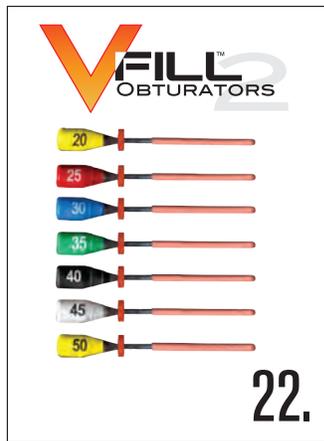
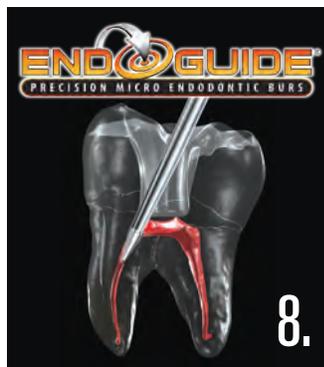
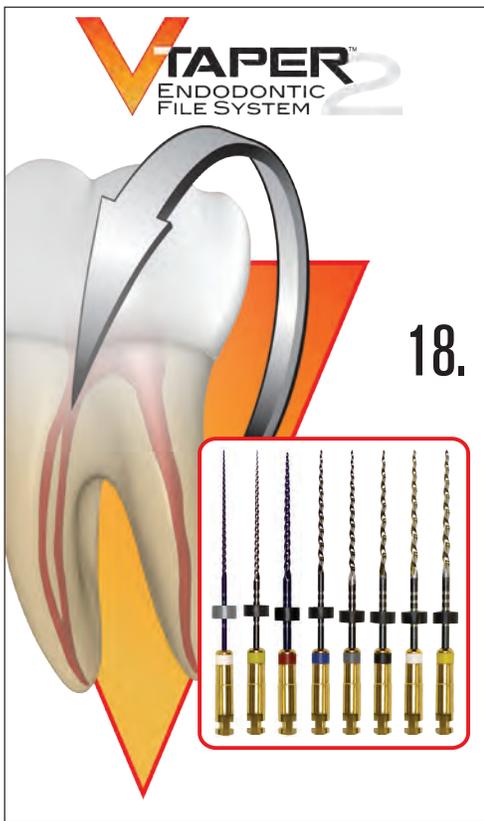
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- 1970:** Innovative Imaging: Introduction of Panorex panoramic imaging x-ray unit that used x-ray film that produced very little radiation, producing excellent diagnostic imagery while increasing patient safety.
  - 1990:** Innovation in Rotary Instruments: Great White® Burs were launched for rapid and precise restoration removal of semi-precious and non-precious crowns and bridges, amalgam, composite and porcelain.
  - 1991:** Cross Contamination Prevention: Disposable Single-Patient-Use Diamonds were launched to assist in preventing cross-contamination of pathogens from patient to patient, while increasing consistency and quality of tooth preparation.
  - 2011:** Precise Endodontic Access: EndoGuide® Burs were launched revolutionizing endodontic straight-line access.



**2012:** SS White Endodontics: Endodontic system is launched designed to preserve peri-cervitin creating the foundation for longer life restorations. Innovative products include; V-Glide Path™2 and V-Taper™2 Niti Rotary File System, V-Fill™ Obturation System and V-Clean™ Agitator.

# SS White® Endodontic File System

SS White® anatomically designed Endodontic File System provides the most minimally invasive shapes to preserve as much of the natural tooth as possible, while providing greater safety, strength, and flexibility in negotiating canals. Performing root canal treatments resulting in better restorative options generates longer-life restorations, more satisfied patients and a growing practice.



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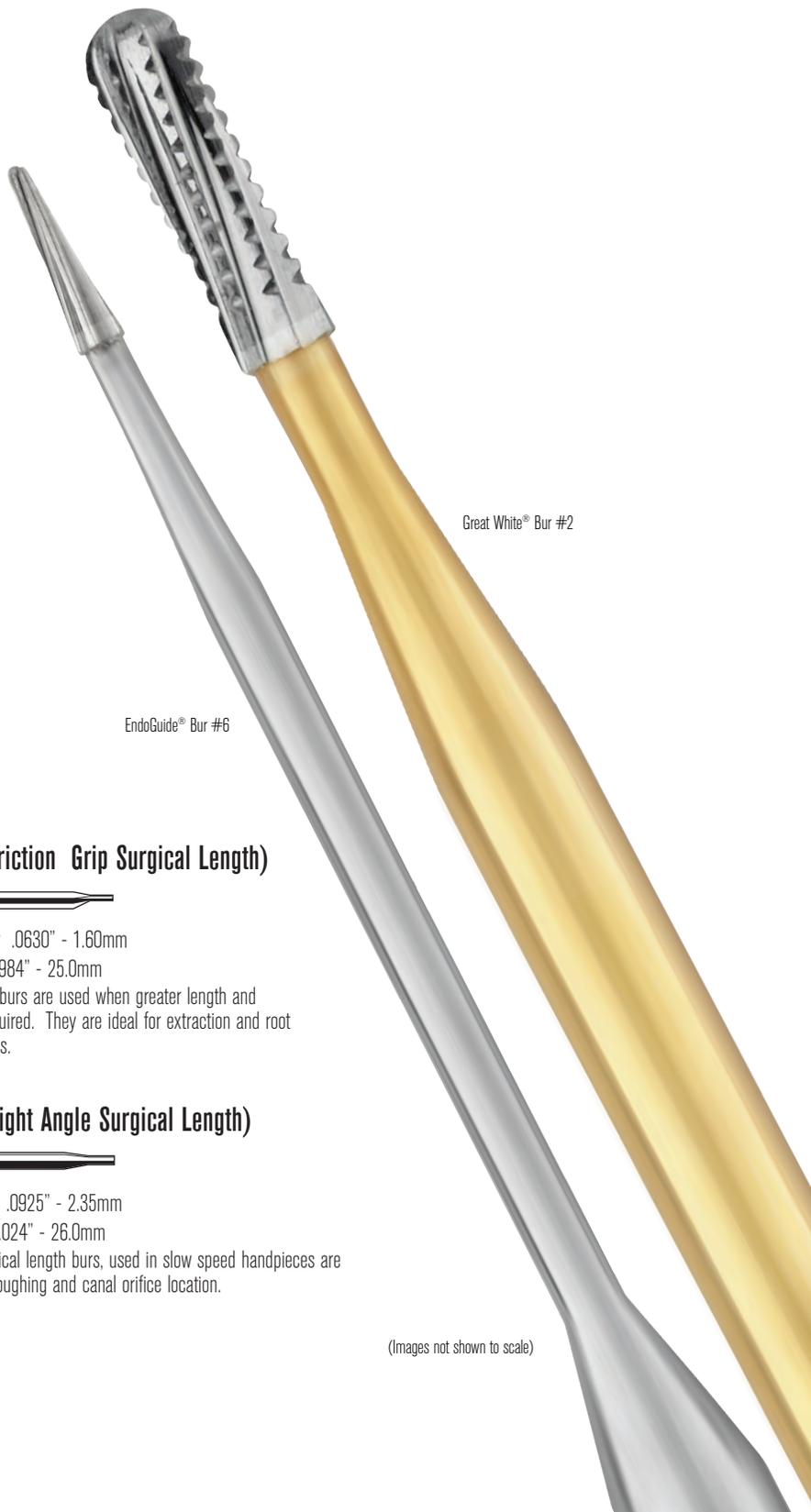
    Equipment: Endodontic Handpiece,  
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# SS White® Carbide Burs for Endodontic Procedures

Carefully designed blade structure, rake angle, flute depth and spiral angulation combined with our specially formulated tungsten carbide results in the powerful cutting performance of our burs. SS White® burs are engineered to deliver the most efficient cutting rate & performance for the most popular procedures.

SS White® Endodontics feature the following selection of carbide burs for efficient, precise performance of endodontic procedures:



Great White® Bur #2

EndoGuide® Bur #6

## SS White® Shank Types

### FG - (Friction Grip)



Shank Diameter .0630" - 1.60mm

Overall Length .748" - 19.0mm

Friction grip burs are used in high speed handpieces. In most offices, they are the main operative burs.

### RA - (Right Angle)



Shank Diameter .0925" - 2.35mm

Overall Length .886" - 22.5mm

Right angle burs, used in slow speed handpieces, allow for greater control and tactile sense when cutting enamel or dentin.

### FG SL - (Friction Grip Surgical Length)



Shank Diameter .0630" - 1.60mm

Overall Length .984" - 25.0mm

Surgical length burs are used when greater length and visibility are required. They are ideal for extraction and root canal procedures.

### RA SL - (Right Angle Surgical Length)



Shank Diameter .0925" - 2.35mm

Overall Length 1.024" - 26.0mm

Right angle surgical length burs, used in slow speed handpieces are ideal for deep troughing and canal orifice location.

(Images not shown to scale)

# Efficient Endodontic Access and Crown Removal Through Metal

## Round



Diameter (mm)	1.0	1.4	1.8	1.8	2.3	1.0	1.4
Head Length (mm)	0.7	0.9	1.3	1.3	1.7	0.7	0.9
<b>BUR NO.</b>	<b>GW2R</b>	<b>GW4R</b>	<b>GW6R</b>	<b>GWSL6R</b>	<b>GW8R</b>	<b>GW2SL</b>	<b>GW4SL</b>
5 PACK	-	-	-	18207-5	-	18203-5	18205-5
10 PACK	18202	18204	18206	-	18208	-	-
100 PACK	13086	13087	13088	-	-	-	-

## Straight Fissure



Diameter (mm)	0.8	1.0	1.0	1.2	1.0	1.0	1.2
Head Length (mm)	3.5	3.5	3.5	3.8	3.8	3.8	3.8
<b>BUR NO.</b>	<b>GW556</b>	<b>GW557</b>	<b>GWSL557</b>	<b>GW558</b>	<b>GW1557</b>	<b>GW1557SL</b>	<b>GW2<sub>(1558)</sub></b>
5 PACK	-	-	18220-5	-	-	18225-5	-
10 PACK	18217	18218	-	18222	18221	-	15062
100 PACK	-	13091	-	-	13092	-	13095

## Pear



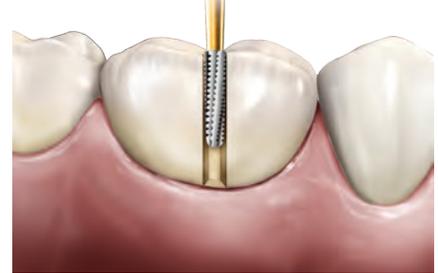
Diameter (mm)	1.0	0.8	1.0	0.9
Head Length (mm)	1.3	1.5	1.7	2.8
<b>BUR NO.</b>	<b>GW2P</b>	<b>GW330</b>	<b>GW1<sub>(331)</sub></b>	<b>GW245</b>
10 PACK	18209	18210	15061	18212
100 PACK	-	13090	13093	13089

## Endodontic Access



Initial Penetration Through Porcelain or Metal:  
Great White® Burs efficiently cut metal substructures.  
Product recommended: Great White® #4R

## Crown Removal/Cutting



Metal Crown Removal:  
Great White® Burs efficiently cut metal crowns and substructures. Product recommended: Great White® #2

- Costs less than metal cutting burs and lasts 2-3 times longer than Traditional FG 557 burs
- Cuts all hard materials including non- and semi-precious metal, amalgam and composite
- Multi-functional bur helps reduce rotary inventory
- Reduces vibration and chatter, increasing patient comfort

FGSL - Friction Grip Surgical Length FG - Friction Grip  
RA - Right Angle RASL - Right Angle Surgical Length

# Engineered for Maximum Strength and Durability To Save You Time and Money

Round



Pear

Diameter (MM)	Head Length (MM)	Shank	Package	1	2	4	6	8	1P	2P	4P
0.8	0.7	FG	10 PACK	14964	14967	14970	14973	17706	17732	17733	17734
1.0	0.7	FG	100 PACK	13001	13002	13004	13006	13008	13011	13003	13040
1.4	0.9	FGSL	5 PACK	14001-5	14002-5	14004-5	14006-5	14008-5	-	-	-
1.8	1.3	RA	10 PACK	14718	14721	14727	14733	14739	-	-	-
2.3	1.6	RA	100 PACK	-	13802	13804	13806	13808	-	-	-
		RASL	5 PACK	-	14112-5	14114-5	14116-5	14118-5	-	-	-

Pear



Straight Flat End Cross Cut

Straight Round End Cross Cut

Diameter (MM)	Head Length (MM)	Shank	Package	330	331	332	330M	557	558	1557	1558
0.8	1.6	FG	10 PACK	15001	15004	15005	15010	15006	15009	15021	15024
1.0	1.8	FG	100 PACK	13330	13331	13332	13335	13557	13558	13559	13580
1.2	1.4	RA	5 PACK	-	-	-	-	14766	14769	14793	14796
0.8	1.6	FGSL	5 PACK	-	-	-	-	14057-5	14058-5	14059-5	14060-5
1.0	3.5	RASL	5 PACK	-	-	-	-	14157-5	14158-5	14159-5	-

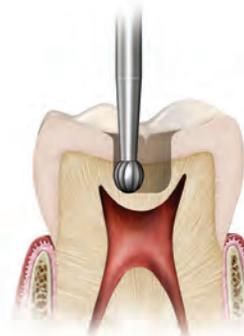
- Strength-tested at 6 times industry standard to insure quality
- Tungsten head combined with stainless steel shank eliminates corrosion and insures performance

**UF TRIMMING & FINISHING BURS**



Images Not Shown to Scale

Bur No.	Package	7902	7903	7404	7406	7408	7379
FG	5 PACK	15093-5	15903-5	15106-5	15095-5	15408-5	15379-5



Efficient Caries Excavation Prior to Definitive Endodontic Access:

Carefully designed blade structure, rake angle, flute depth and spiral angulation of SS White® operative carbide burs results in efficient caries excavation prior to definitive endodontic access.

Product Recommended: Round Operative Carbide Burs #2, #4 and #6



Access Through Amalgam:

Straight and cross-cut fissure operative carbide burs are designed for powerful cutting performance for efficient removal of restorative materials prior to definitive endodontic access.

Product Recommended: Straight Round End Cross Cut Carbide Burs #1557 or #1558

See page #28  
for Quick Tips and  
Suggested Uses



**5 Pack Refills**

Bur #	EG1A	EG1	EG2	EG3	EG4	EG5	EG6	EG7
SSW Order #	15066	14780	14779	15023	15029	14794	14795	14786
Head Length (mm)	2.5	3.5	2.5	1.5	3.5	1.5	2.5	1.5
Tip Diameter (mm)	0.33	0.28	0.33	0.28	0.28	0.28	0.28	0.33
Back Diameter (mm)	1.07	0.71	1.07	0.71	0.71	0.71	0.71	1.07
Shank	FG	RA	RA	FG	FG	RA	RA	RA

# Conservative and Precise Straight Line Root Canal Access



## EndoGuide® Molar Kit

Order # 18051  
For Endodontic Exploration



## EndoGuide® Anterior/Bicuspid Kit

Order # 18052  
For Endodontic Access & Exploration

*“EndoGuide® Burs can reduce or eliminate dependence on ultrasonic tips. EndoGuide® Burs offer greater precision and efficiency in creating straight-line access and identifying canals in molar teeth”.*  
- Dr. John Khademi DDS, MS

## EndoGuide® Burs

SS White® EndoGuide® Burs are a unique set of eight burs for non-surgical root canal treatment.

- Conical shape acts as a self-centering guide for straight-line access to canals
- Eliminates 2-3 Gates Glidden and 1 Ultrasonic tip
- Facilitates increased tactile sense for MB 2/3 and calcified canals
- Provides a polished dentin surface for easier visual identification of hidden canals
- Removes old pins and posts in half the time
- Diminutive size head allows for greater visualization by the clinician

## Universal Bur Blocks... Increase Organization



Color	Blue	Bordeaux	Black
Item #	16410	16411	16415

Each Universal Bur Block holds the following instruments:

- Front row: 10 FG/FGSS/SLFG instruments
- Middle row: 5 FG/FGSS/SLFG, 6 RA/SLRA instruments
- Back row: 5 FG/FGSS/SLFG, 6 RA/SLRA instruments
- Autoclavable aluminum bur block

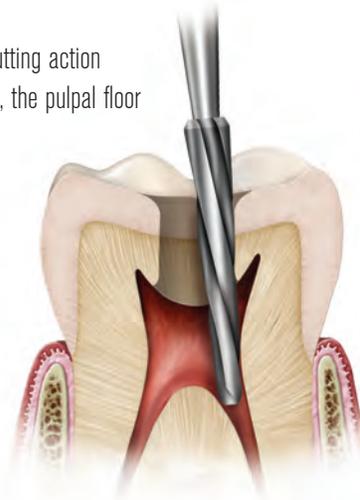
# Expand the Pulp Chamber Without Damage to Floor or Axial Walls

- Manufactured with a round non-cutting tip
- Ideally suited for lateral extension of the pulp chamber
- Friction grip 8-blade tungsten carbide construction ensures rapid but controlled cutting action
- Head length of 9mm and LOA of 24mm allows you to visualize, and easily access, the pulp floor

**ENDO  
SAFE END**

ENDODONTIC ACCESS BURS

FG - Friction Grip



FG Shape #	ESE 014	ESE 018
	16040-5	16042-5
SSW Order #	9.0	9.0
Head Length (mm)	1.4	1.8
Max Head Diameter (mm)	24.0	24.0
LOA (Overall Length)	5	5
Pack Size		

**Pulp chamber Expansion:** Using SS White® Endo SE carbide burs allow access to the canal orifices during endodontic treatment, while preventing damage or perforation of both the pulp chamber floor and root canal walls.

Product recommended: ESE-014 & ESE-018

## Endodontic Restoration Removal Kit

\*See page #29 for Quick Tips and Suggested Uses

Includes:

- Great White® Burs for efficient cutting of semi-precious and non-precious metal
- Great White® Z Diamonds for efficient cutting of zirconia substructures
- Piranha® Diamonds for removal of porcelain to save crowns

KIT #20302



Type	GW#1	GW#2	Piranha	Piranha	Piranha	GW Z	GW Z
5 PK	-	-	-	-	-	18163	18161
10 PK	-	-	-	-	-	-	-
25 PK	15061	15062	-	-	-	-	-
100 PK	-	-	835-014C	801-018C	856-016C	-	-
	13093	13095	-	-	-	-	-

## Clark/Khademi Diamond Endodontic Access Kit

See page #29 for Quick Tips and Suggested Uses

Includes:

- Great White® Z Diamonds to remove restorative material including zirconia substructures
- Piranha® Diamonds to gain entrance to the pulp chamber
- Piranha® Diamonds to refine and flatten axial walls with proper taper and finish

KIT #20301



Type	GW Z	GW Z	Piranha	Piranha	Piranha	Piranha	Piranha
FG	18163	18161	850-014M	859-010M	856-016M	850-021M	801L-023M
RA	-	-	850-014M-RA	-	856-016M-RA	-	-

# SS White® Diamond Rotary Instruments For Endodontic Procedures

SS White® diamond instruments are designed and manufactured with quality and care, to deliver consistent performance and precision, and support the skills clinicians around the world put forth daily to preserve healthy dentin.

SS White® Endodontics features the following selection of diamond instruments for efficient performance of endodontic procedures:



(Images not shown to scale)



# Cutting Access Through Zirconia In Less Than a Minute

Size	GWZ 801-014	GWZ 801-018	GWZ 856-018	GWZ 379-023
Order #	18162	18163	18161	18164
Diameter (MM)	1.4	1.8	1.8	2.3
Head Length (MM)	1.3	1.7	8	3.9
Tip Diameter (MM)	-	1.2	-	-
Pack Size	5 Pack	5 Pack	5 Pack	5 Pack

Clinicians will find the Great White® Z Diamonds are perfect for crown and bridge removal and creating endodontic access through porcelain and zirconia copings, saving the dental team time while eliminating the frustration often associated with this procedure.

- Designed to cut zirconia effortlessly, reducing handpiece wear
- Shape selection designed for endodontic crown removal and access
- Proprietary diamond bonding insures efficient cutting rate and superior durability
- Fine grit reduces vibration, increasing patient satisfaction



Images Not Shown to Scale

## Great White® Z Diamond Kit

Designed for the efficient atraumatic removal of failed zirconia and PFM Crowns,  
**Kit Reorder No. 18160**

### Kit Contents:

- Great White® Z #GWZ 856-018
- Great White® Z #GWZ 801-014
- Great White® Z #GWZ 801-018
- Great White® Z #GWZ 379-023

GREAT WHITE Z INTRODUCTORY KIT

### Initial Endodontic Access Through Zirconia



The uniquely engineered Great White® Z Diamond provides effortless access through zirconia in less than one minute.

Product recommended: Great White® Z Diamond #801-018

### Zirconia Crown Removal



The uniquely engineered Great White® Z Diamond provides maximum cutting efficiency through zirconia.

Product recommended: Great White® Z Diamond #856-018

# SS White<sup>®</sup> Piranha<sup>®</sup> Single Patient Use Diamonds

## Round



SHAPE	801-010	801-012	801-014	801-016	801-018	801-023	801L-023
Diameter (mm)	1.0	1.2	1.4	1.6	1.8	2.3	2.3
Head Length (mm)	0.9	1.1	1.3	1.5	1.7	2.2	2.2
Tip Diameter (mm)	-	-	-	-	-	-	-
● Super Coarse	-	-	-	-	-	801-023SC	-
● Coarse	-	801-012C	801-014C	801-016C	801-018C	801-023C	-
● Medium	801-010M	801-012M	801-014M	801-016M	801-018M	801-023M	801L-023M



## Flat End Cylinder

SHAPE	835-010	835-012	835-014
Diameter (mm)	1.0	1.2	1.4
Head Length (mm)	3.0	4.0	4.0
Tip Diameter (mm)	1.0	1.2	1.4
● Coarse	835-010C	835-012C	835-014C
● Medium	835-010M	835-012M	835-014M

The increased exposure of the surface diamond particles on Piranha<sup>®</sup> Diamonds provides for superior cutting. The reduction of bonding layers results in an increased diamond grain exposure for enhanced cutting and more space for the discharge of debris. As a result of better abrasive action, less pressure is needed, therefore reducing heat buildup and vibrations. Piranha<sup>®</sup> Diamonds are designed to give the dental team the advantage of efficient performance predictability for every patient.

- Increased diamond exposure insures faster cut
- Single-patient-use eliminates risk of cross-contamination
- Superior selection guarantees proper instrument to task
- Single-patient-use insures a consistent great cut for each patient

## Safe End Taper



SHAPE	851-012	851-014	851-016
Diameter (mm)	1.2	1.4	1.6
Head Length (mm)	8.0	8.0	8.0
Tip Diameter (mm)	0.9	1.1	1.3
● Medium	851-012M	-	851-016M
● Fine	851-012F	851-014F	851-016F



### Porcelain Crown Removal:

Parallel side, flat end diamonds are ideally suited for the removal of porcelain veneering from a PFM crown, exposing the metal substructure for efficient removal by a Great White<sup>®</sup> Bur.

Product recommended: #835 Series Piranha<sup>®</sup> Diamond



### Pulp Chamber Expansion:

Safe end tapered diamonds, manufactured with a round, non-cutting tip are ideally suited for lateral extension of the pulp chamber, while preventing perforation of both the pulp chamber floor and root canal walls.

Product recommended: #851 Series Piranha<sup>®</sup> Diamond

# SS White<sup>®</sup> Piranha<sup>®</sup> Single Patient Use Diamonds

Round End Taper



Round End Taper Long

SHAPE	856-012	856L-014	856L-016	856-018L
Diameter (mm)	1.2	1.4	1.6	1.8
Head Length (mm)	8.0	9.0	9.0	9.0
Tip Diameter (mm)	0.6	0.8	1.0	1.2
● Super Coarse	856-012SC	856L-014SC	856L-016SC	856L-018SC
● Coarse	856-012C	856L-014C	856L-016C	856L-018C
● Medium	856-012M	856L-014M	856L-016M	856-018ML



Round End Taper

SHAPE	850-012	850-014	850-016	850-018	850-021	856-014	856-016	856-018	856-020	856-021	856-024	856-025
Diameter(mm)	1.2	1.4	1.6	1.8	2.1	1.4	1.6	1.8	2.0	2.1	2.4	2.5
Head Length (mm)	10.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Tip Diameter (mm)	0.7	0.8	1.0	1.1	1.5	0.8	1.0	1.2	1.4	1.5	1.8	1.9
● Super Coarse	850-012SC	850-014SC	850-016SC	850-018SC		856-014SC	856-016SC	856-018SC	-	856-021SC	-	856-025SC
● Coarse	850-012C	850-014C	850-016C	850-018C	850-021C	856-014C	856-016C	856-018C	856-020C	856-021C	856-024C	-
● Medium	850-012M	850-014M	850-016M	850-018M	850-021M	856-014M	856-016M	856-018M	-	856-021M	-	856-025M
RA - Right Angle	-	850-014M-RA	-	-	-	-	856-016M-RA	-	-	-	-	-

Christmas Tree

Needle



SHAPE	858-008	858-013	858-014	858-016	859-010	859-012	859-014	859-016	859-018
DIAMETER (MM)	.8	1.3	1.4	1.6	1.0	1.2	1.4	1.6	1.8
HEAD LENGTH (MM)	8.0	8.0	8.0	8.0	10.0	10.0	10.0	10.0	12.0
TIP DIAMETER (MM)	0.3	0.4	0.5	0.6	0.25	.35	0.4	0.6	0.8
● Super Coarse	-	-	858-014SC	-	-	-	-	-	-
● Coarse	-	-	858-014C	858-016C	859-010C	859-012C	859-014C	-	859-018C
● Medium	858-008M	858-013M	858-014M	858-016M	859-010M	-	859-014M	859-016M	859-018M

# Revelation® Diamonds Documented Faster Cutting and Longer Life

**REVELATION®**  
DIAMOND INSTRUMENTS

Premium Quality - Multi-Use Diamonds

FG - Friction Grip

**Initial Access**



**PFM Access**



**Axial Wall Refinement**



Shape	801-010	801-012	801-014	801-016	801-018	801-023	835-010	835-014	850-012	850-014
HEAD DIAMETER (mm)	1.0	1.2	1.4	1.6	1.8	2.3	1.0	1.4	1.2	1.0
HEAD LENGTH (mm)	1.0	1.2	1.4	1.6	1.8	2.3	4.0	4.0	10.0	10.0
TIP DIAMETER (mm)	-	-	-	-	-	-	1.0	1.0	0.7	0.8
Superoarse	-	-	-	-	-	91197-5	-	-	91251-5	91255-5
Coarse	-	91186-5	91188-5	91190-5	91004-5	91194-5	91031-5	91221-5	91250-5	91252-5
Medium	91001-5	91187-5	91189-5	91191-5	91003-5	91196-5	91219-5	91222-5	-	91254-5
Medium Right Angle	-	-	-	-	-	-	-	-	-	91424-5



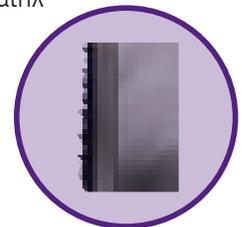
Shape	850-016	850-018	856-012	856-014	856-016	856-018	856-021	856-025	856L-014	856L-016	856L-018
HEAD DIAMETER (mm)	1.6	1.8	1.2	1.4	1.6	1.8	2.1	2.5	1.4	1.6	1.8
HEAD LENGTH (mm)	10.0	10.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0
TIP DIAMETER (mm)	1.0	1.0	0.6	0.8	1.0	1.2	1.5	1.9	0.8	1.0	1.2
Superoarse	91259-5	91263-5	91282-5	91287-5	91290-5	91294-5	91298-5	91302-5	91304-5	91306-5	91308-5
Coarse	91256-5	91260-5	91281-5	91283-5	91069-5	91070-5	91296-5	-	91303-5	91305-5	91307-5
Medium	91258-5	91262-5	-	91286-5	91068-5	91293-5	-	91301-5	-	-	-
Medium Right Angle	-	-	-	-	91425-5	-	-	-	-	-	-

**Needle Breaking Contact**



Shape	858-008	858-014	858-016	859-010	859-014	859-016	859-018
HEAD DIAMETER (mm)	-	1.4	1.6	1.0	1.4	1.6	1.8
HEAD LENGTH (mm)	-	8.0	8.0	10.0	10.0	10.0	10.0
TIP DIAMETER (mm)	0.3	0.5	0.6	0.25	0.4	0.6	0.8
Superoarse	-	91317-5	-	-	-	-	-
Coarse	-	-	91319-5	91074-5	91322-5	-	91077-5
Medium	91311-5	-	-	91321-5	91324-5	91326-5	91076-5

Dense, uniform diamond distribution insures fast, consistent cutting. Three layer matrix results in an excellent service life and feel.

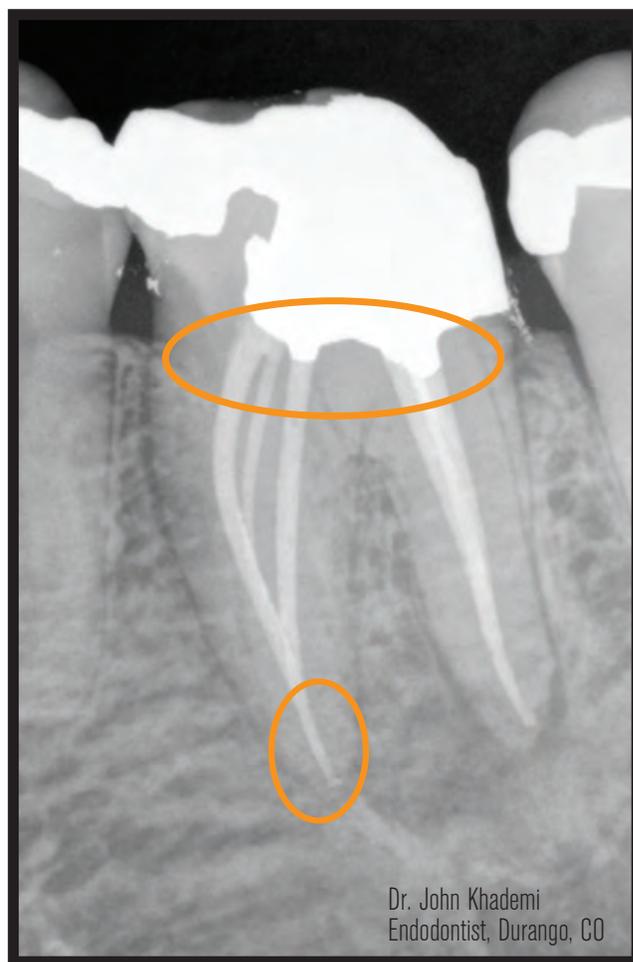


# The SS White® Endodontic File System is anatomically designed with the most minimally invasive shapes to provide greater safety, strength, and flexibility in negotiating canals



## V-Taper™ 2 Files: Designed to Conserve Vital Peri-Cervical Dentin

9 out of 10 referring dentists have experienced frustration in restoring endodontically treated teeth that do not preserve supporting dentin, which is vital to the long-term success of the restoration.\*



“V-Taper™2 Niti rotary files achieve deeper apical shapes while developing naturally shaped canals that better simulate the original anatomy, allowing better access for irrigating and cleaning, and 3-D obturation”.

- Dr. Charles Goodis, Endodontist,  
Albuquerque, New Mexico

Dr. John Khademi  
Endodontist, Durango, CO

*The Only 1-2 File Shaping System  
You'll Ever Need in Your Office!*

# V-Glide Path™ 2 & V-Taper™ 2 Niti Rotary Files System

## CONSERVATION, EFFICIENCY, SAFETY, FLEXIBILITY & STRENGTH



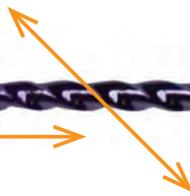
### Non-Cutting Tip

Safeguards against perforation and transportation



### Variable Pitch

Variable helical angle and variable flute pitch



### Variable Taper

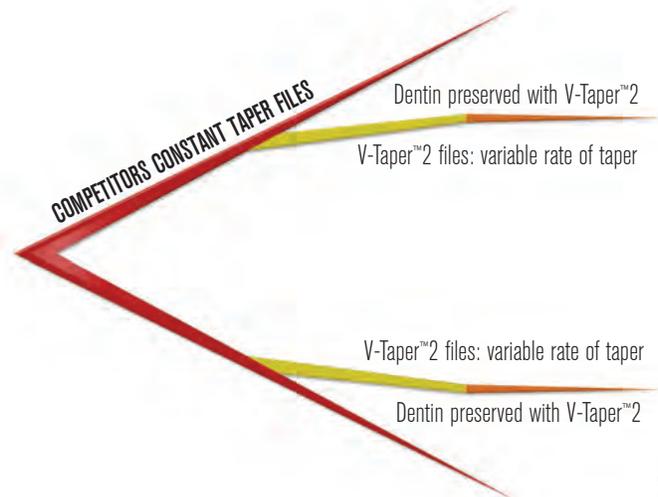
Preserve dentin throughout the peri-cervical area

### Reduced Shaft

- Allows file to remain flexible, even in the most curved canals
- Allows for debris to move up and out the canal while instrumenting

## Variable Decreasing Taper Design Creates the Most Conservative Root Canal Shape

- A root canal has a variable rate of change NOT a constant rate of taper change, this is the basis for variable taper design of V-Taper™ 2 Files
- V-Taper™ 2 File System encompasses a more anatomic design that creates shape while preserving key peri-cervical dentin by more closely mirroring the natural shape of the root
- V-Taper™ 2 instruments have a variable “V” decreasing rate of taper going from tip to shaft



## Strong & Flexible Through Parabolic Core Design



### Flexibility Through Safe-Core™ Parabolic Design

- High flexibility for successful navigation of even the most curved canals
- Strong core design safeguards against separation
- Strongest core design of any major competitor\*

\*Independent research on file.



# V-Taper™ 2H NiTi Rotary File System

1-2 File Shaping-Finishing System



Unique Heat Treated Design  
Deep Apical Shaping with Conservative Coronal Shaping

## V-Glide Path™ 2H File System

Size	21mm	25mm	31mm	Package Size
13(V03)	-	-	21350	6-Pk.
17(V04)	21319	21330	21351	6-Pk.
<b>2 File System</b>				
20(V06)	21320	21331	21352	6-Pk.
25(V06)	21322	21333	21354	6-Pk.
<b>Additional Sizes Available</b>				
22(V07)	21321	21332	21353	6-Pk.
25(V08)	21323	21334	21355	6-Pk.
30(V06)	21324	21335	21356	6-Pk.
30(V08)	21325	21336	21357	6-Pk.
35(V06)	21326	21337	21358	6-Pk.
40(V06)	21327	21338	21359	6-Pk.
45(V06)	21328	21339	21360	6-Pk.
50(V06)	21329	21340	21361	6-Pk.

Small Canals  
20(V06)

Medium to Large Canals  
25(V06)



The V-Taper™ 2H Rotary System is a Series of Two (2) Unique Variable Taper NiTi Rotary Files.

\*Independent research on file.

This performance-enhanced system is designed for easier, safer, more efficient shaping. Per procedure, V-Taper™ 2H is the most cost effective NiTi rotary file system on the market\*.

- Deep apical shape creates better access for irrigation and cleaning, and 3D obturation
- Variable taper design creates conservative coronal shape, preserves dentin
- 1-2 files per case, lowest cost for shaping per procedure
- Strongest tested file system on the market\*

# Establish Canal Patency with V-GLIDE PATH™2 NiTi Rotary File System



Hand Files	Size	Order #	Order #	Package Size	
		21mm	25mm		
SS White Stainless Steel K-File	8(02)	21213	21214	6 PACK	
SS White Stainless Steel K-File	10(02)	21203	21208	6 PACK	
	V-GLIDE Path™2 NiTi Rotary Files	15(V02)	21215	21216	6 PACK

### V-Glide Path™2 File System:

- Safe-end prevents ledging, transportation and perforation
- Reduced shaft diameters increase flexibility required for curved canal negotiation
- Variable taper design preserves vital dentin in coronal third
- Variable pitch design reduces screw-in effect

Rotary Files	Size	Order #	Order #	Package Size	
		21mm	25mm		
	V-GLIDE Path™2 NiTi Rotary Files	13(V03)	21317	21318	6 PACK
	V-GLIDE Path™2 NiTi Rotary Files	17(V04)	21301	21309	6 PACK

V-Glide Path™2 NiTi rotary files are engineered with the same rate of taper as V-Taper™2 NiTi rotary files, making transition from glide path development to shaping seamless. Used together, the V File System offers clinicians the ability to develop safe and predictable canal patency and follow with both, deep apical shaping and conservative coronal shaping.

### Using the V-Glide Path™2 File System:

**Step 1:** Establish patency with SS White® K Files as required (8-10)

**Step 2:** Canal glide path completed with V-Glide Path™2 NiTi Rotary Files system: 13(V03) and 17(V04) NiTi rotary files



**K File: 10(02)**

**V-Glide Path™2: 13(V03)**

**V-Glide Path™2: 17(V04)**

Suggested sequence for establishing canal patency with the V-Glide Path™2 System:

# Deep Apical Shaping with Conservative Coronal Shaping

## The Original V-Taper™ 2 Rotary NiTi File System



- Non-heat treated for situations requiring a stiffer file (retreat)
- Deep apical shape creates better access for irrigation and cleaning, and 3D obturation
- Variable taper design creates conservative coronal shape, preserves dentin
- 1-2 files per case, lowest cost for shaping per root canal procedure
- Strongest tested file system on the market\*

### V-Taper™ 2: 2 File Shaping System

Deep apical shaping  
Conservative coronal shaping

2 File System



Size	Order # 21mm	Order # 25mm	Package Size
------	--------------	--------------	--------------

Additional Sizes Available



20(V06)	21302	21310	6 PACK
25(V08)	21303	21311	6 PACK
30(V06)	21304	21312	6 PACK
35(V06)	21305	21313	6 PACK
40(V06)	21306	21314	6 PACK
45(V06)	21307	21315	6 PACK
50(V06)	21308	21316	6 PACK
22(V07)	21321	21332	6 PACK
30(V08)	21325	21336	6 PACK

## SS White® Endodontic Access-Shaping-Cleaning Kit

Designed to preserve dentin and create longer lasting restorations, the new SS White Endodontic Kit includes the ideal combination of instruments necessary completion of endodontic access, shaping, finishing and cleaning



Features the **GLIDE PATH 2H** FILE SYSTEM and **V-TAPER 2H** ENDODONTIC FILE SYSTEM

### SS White Endodontic Kit Contains:

#### Endodontic Access:

- Great White Burs:** Initial access through enamel, metal
- Great White Z Diamonds:** Initial access through zirconia
- Piranha Diamonds:** Pulp chamber/axial wall refinement
- Endoguide Burs:** Secondary access to locate root canals opening

#### Endodontic Shaping, Finishing and Cleaning:

- V-Glide Path 2H:** Creation of the glide path
  - V-Taper 2H:** Root canal shaping and finishing
  - V-Clean:** Cleansing during the obturation process
  - V-Taper2 Absorbent Paper Points:** 06/20 - 06/30 - 06/25
  - V-Taper2 Gutta Percha Points:** 06/20 - 06/30 - 06/25
- Fully autoclavable aluminum bur block

INITIAL ACCESS		RC ACCESS		GLIDEPATH (HAND)					SHAPING					CLEANING		
ZIRCONIA ACCESS	METAL ACCESS	EG1A	EG2	8	10	15	17	20	25	30	35	856-016	V-Clean 25(04)	V-Clean 35(06)		
856-018	801-018	GW4R	GW2	8	10	15	17	20	25	30	35	856-016	V-Clean 25(04)	V-Clean 35(06)		
856-018	801-018	GW4R	GW2	8	10	15	17	20	25	30	35	856-016	V-Clean 25(04)	V-Clean 35(06)		

"Finally, endodontic instruments that respect the root canal anatomy"  
- Dr. John Khademi, Endodontist, Durango, CO

# Reduce Bacterial Debris within the Root Canal by 90.2% with V-Clean™ Endodontic Agitator

Use of V-Clean™ will:

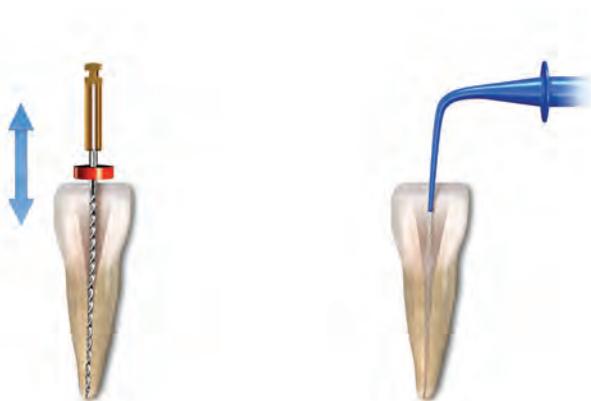
- Assist in removal of the smear layer within the root canal
- Dislodge and remove debris
- Provide an agitating action when used with disinfecting or irrigating solutions



Size	Order #	Pack Size
25(04)	22001	25 PACK
35(06)	22002	25 PACK

V-Clean™ endodontic agitator is a uniquely designed hand instrument for cleaning the surfaces of a filled root canal. In a University study, use of V-Clean™ reduced bacterial debris within the root canal on average by 90.2% compared to use of irrigation alone.\*

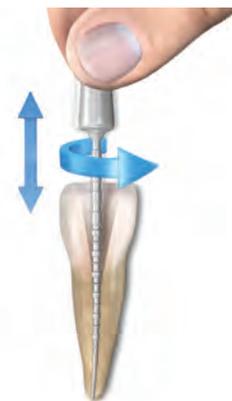
V-Clean™ is a medical-grade polymer instrument designed with multiple flexible paddles oriented in opposing directions along its semi-rigid shank. During use, the paddles facilitate a dual-action scrubbing and scraping process within the root canal.



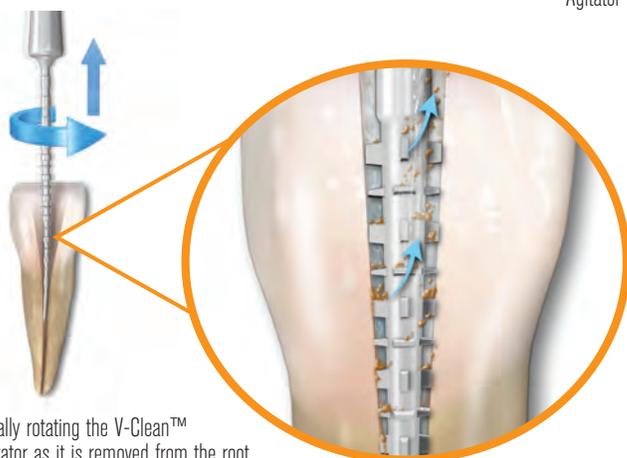
1. Establish canal patency and prepare the root canal using V-Taper™2 files.
2. Rinse the prepared root canal with a disinfecting irrigating solution.



3. Insert V-Clean™ Endodontic Agitator into the canal while manually rotating the Agitator in a circular, reciprocating motion.



4. Scrub axial walls of the canal by manually rotating the V-Clean™ Agitator in a reciprocating, circular fashion to produce a dual-action scrubbing.



5. Continue manually rotating the V-Clean™ Endodontic Agitator as it is removed from the root canal.



6. For final cleaning, rinse and evacuate the root canal using a disinfecting cleaning solution. Discard the used V-Clean™ Endodontic Agitator properly. Proceed to root canal obturation.

\*Independent research on file

# V-Taper™2 Absorbent Paper Points

- Size-matched to the V-Taper™2 File System
- Millimeter-marked length indicator lines
- Superior absorbency
- Dries canal and retains firmly rolled shape



Item Description: Size (Taper)	Size	Taper	Order #	Package Size
V-Taper 2 Paper Points 17 (04)	17	V04	23101	50 Pack
V-Taper 2 Paper Points 20 (06)	20	V06	23102	50 Pack
V-Taper 2 Paper Points 25 (08)	25	V08	23103	50 Pack
V-Taper 2 Paper Points 30 (06)	30	V06	23104	50 Pack
V-Taper 2 Paper Points 35 (06)	35	V06	23105	50 Pack
V-Taper 2 Paper Points 40 (06)	40	V06	23106	50 Pack
V-Taper 2 Paper Points 22 (07)	22	V07	23150	50 Pack
V-Taper 2 Paper Points 25 (06)	25	V06	23151	50 Pack
V-Taper 2 Paper Points 30 (08)	30	V08	21352	50 Pack

# V-Taper™2 Gutta Percha Points

- Size-matched to the V-Taper™2 File System
- Millimeter-marked length indicator lines
- Excellent radiopacity
- Color coded for easy identification of sizes



Item Description: Size (Taper)	Size	Size Taper	Order #	Package Size
V-Taper 2 Gutta Percha Points 17(04)	17	V04	23043	50 Pack
V-Taper 2 Gutta Percha Points 20(06)	20	V06	23044	50 Pack
V-taper 2 Gutta Percha Points 25(08)	25	V08	23045	50 Pack
V-taper 2 Gutta Percha Points 30(06)	30	V06	23046	50 Pack
V-Taper 2 Gutta Percha Points 35(06)	35	V06	23047	50 Pack
V-Taper 2 Gutta Percha Points 40(06)	40	V06	23048	50 Pack
V-Taper 2 Gutta Percha Points 22(07)	22	V07	23050	50 Pack
V-Taper 2 Gutta Percha Points 25(06)	25	V06	23051	50 Pack
V-Taper 2 Gutta Percha Points 30(08)	30	V08	23052	50 Pack

# SS White® Endodontic Oven



SSW Order #23301

The endodontic oven is designed for heating carrier-based obturators such as the SS White® V-Fill™2 Obturators. Easy-to-operate flat surface controls allow easy adjustments between the two temperature settings. Indicator light and audible sound signal when the oven reaches the pre-selected heat setting. Once the desired temperature is reached, the oven maintains the obturator(s) at the ideal heat setting until ready for use.

- Accommodates up to 4 obturators in pre-numbered slots
- Calibrated with high-heat and low-heat settings

## Obturation Steps:



1. Place the obturator in a 5.25% sodium hyperchlorite solution for one minute, then rinse with 70% alcohol and allow carrier to dry thoroughly before use.



2. Dry the canal and apply a thin layer of sealer. Blot the canal with an appropriate paper point to remove excess sealer. Paper point should have spots of sealer on point.



3. Set the stopper to the working length (or use the calibration rings).



4. Oven can be used with the same heating setting as your current oven. Set the oven to the corresponding ISO size.



5. Insert the obturator into the oven and start the heating cycle.



6. Remove the obturator when the oven beeps.



7. Immediately place the obturator smoothly in the canal to the working length.



8. Cut the obturator at the orifice level.

# V-Fill™2 Carrier-Based Obturators



Easy-to-use obturators feature a new level of precision, performance, and radiopacity. New V-Fill™2 can be used to obturate any constant or variable 04, 06, 08, and 10 tapered canal, size 20 to 50, shaped by NiTi rotary systems, and hand-filing techniques.



# V-Fill™2 Verifiers

Sized to match SS White® V-Fill™2 Carrier-Based Obturators, V-Fill™2 Verifiers are used prior to obturation and provide the convenience of a size-matched system to ensure that adequate space exists to accommodate a passive fit of the flowable gutta percha and obturator core of the V-Fill™2 Carrier-Based Obturators.

- Polycarbonate construction
- Size verifiers match obturators and confirm precise sizing
- Calibration rings for visual working length determination



*"V-Fill Obturators simplify the procedure of obturation. V-Fill is a simple, fast and effective carrier based heated gutta percha obturation system. The smooth insertion of the single heated obturator assures a predictable three dimensional biocompatible seal in the apical, middle and coronal third of even the most complex canal anatomies."*

- Dr. Charles Goodis, Endodontist, Albuquerque, NM

# V-Flex™ Pluggers



- Set the NiTi working end to suit any shape; autoclave to original shape
- Calibration lines for depth verification
- Reach the apical third with ease
- Custom bend to match canal requirements



<b>V- Flex™ Plugger</b>	LP-30	LP-40	LP-50	LP-60	LP-70
<b>ORDER #</b>	23401	23402	23403	23404	23405
<b>Tip dimension</b>	.30mm	.40mm	.50mm	.60mm	.70mm
<b>Taper</b>	.02mm	.02mm	.02mm	.02mm	.02mm
<b>Length</b>	25mm	25mm	25mm	25mm	25mm

Flat-ended instrument used for vertical compaction of heat-softened gutta-percha or filling material. Features quality stainless steel handle with working end of Controlled Memory NiTi Technology™ for enhanced memory and flexibility. Round handle. Fully autoclavable.

# V-Flex™ Spreader



- Set the NiTi working end to suit any shape; autoclave to original shape
- Original shape of working end set at 75° angle
- Calibration lines for depth verification
- Reach the apical third with ease
- Custom bend to match canal requirements



<b>V- Flex™ Spreader</b>	LS-25	LS-30	LS-35	LS-40	LS-45
<b>ORDER #</b>	23406	23407	23408	23409	23410
<b>Tip dimension</b>	.25mm	.30mm	.35mm	.40mm	.45mm
<b>Taper</b>	.02mm	.02mm	.02mm	.02mm	.02mm
<b>Length</b>	25mm	25mm	25mm	25mm	25mm

Ideally used for compacting gutta percha or filling material during lateral condensation. Features quality stainless steel handle with working end of Controlled Memory NiTi Technology™ for enhanced memory and flexibility. Round handle. Fully autoclavable.

# SS White® Endodontic Motor



This advanced and versatile electric endodontic motor is fully programmable with five customizable memory settings that can be conveniently saved using simple front panel controls. Designed to enhance treatment procedure efficiencies, the console is easy to use and displays torque in actual Gram Centimeter units, not arbitrary percentages. The backlit LCD display allows clear viewing of RPM, handpiece ratio and torque setting readouts. The motor features outstanding torque and supports a full range of handpiece ratios: 1:1, 4:1, 8:1, 16:1, 64:1.



Sold with motor, console, cable assembly and foot control: handpiece not included. 1/8 reduction mini-handpiece is recommended.

## Additional Features

Auto Stop Reverse: automatically reverses the rotational direction of the file when a defined torque level is reached

Brushless motor, micro-processor controlled with versatile speed range of 300 to 300,000 RPM

Motor/cable assembly easily detaches from console

Automatic calibration tests both the motor and the handpiece

## Additional Benefits

Reduces the risk of file breakage while lessening procedure time

Greater torque range and control of speed and torque compared to stepper motors

Fully autoclavable motor/cable assembly

Assures accurate performance during treatment procedures

# SS White® 8:1 Rotary Endodontic Handpiece

A micro-head pushbutton handpiece designed for endodontics. Handpiece ratio/speed of 8:1. Works with most endodontic rotary files.

The SS White handpiece, when used with the SS White Endodontic Motor, functions as auto-reciprocating when the auto-stop-reverse feature of the motor is enabled and the desired torque limit is selected. By enabling the auto-stop-reverse feature, the handpiece will auto-reciprocate during use when excess resistance is detected and resume function with forward rotational speed when excess resistance is no longer present. Rotary when you want it, auto-reciprocating when you need it.

# Dental Handpiece Cleaner and Lubricant

A convenient and essential pressurized handpiece cleaner and lubricant for use in proper cleaning and maintenance of dental handpieces.

Description	Order Number
SS White Endodontic Motor, Console, Foot Control and Cable Assembly	24001
SS White Endodontic Handpiece 8:1	24002
SS White Replacement Foot Control	24003
SS White Handpiece Cleaner and Lubricant	24004
SS White Replacement Motor Cable Assembly	24005

Advisory: The FDA and ADA have issued public advisories stating that dental handpieces can overheat during use, to the point of causing soft tissue burns if the instrument in question is not cleaned, lubricated, and maintained according to the manufacturer's instructions.

# SS White® Recommendations for the Care of Tungsten Carbide Burs



## CONSIDER SINGLE-PATIENT-USE FOR OPERATORY CARBIDES TO INSURE:

- A consistent, fast cutting bur, which saves valuable time
- Greater patient comfort
- Reduced sterilization cost
- Reduce the risk of cross-contamination

## STEPS TO PROPERLY STERILIZE TUNGSTEN CARBIDE BURS

### CLEANING

- Step 1: Wear puncture-resistant utility gloves when handling contaminated instruments to avoid injury.
- Step 2: Pre-soak carbide burs in a container of soapy water to loosen debris. Ultrasonic systems may also be used to loosen debris in burs; however, burs should be separated from each other in a bur block during immersion to prevent damage.
- Step 3: Brush away remaining debris using a SS White stainless steel wire brush (Order no. 26040) and rinse burs under running water.
- Step 4: After rinsing, dry burs thoroughly by placing them on absorbent towels. Pat dry all bur surfaces.

### STERILIZATION

Proper sterilization of carbide burs is extremely important because it eliminates the threat of cross-contamination of patients with communicable diseases.

1. Dry Heat Sterilizers: 170°C (340°F) for 1 hour. These methods, when used according to manufacturers instructions, will not corrode or dull carbide burs.
2. Steam Autoclaves: 121°C (250°F) for 20 minutes @ 15 p.s.i. These systems will effectively sterilize, carbide burs; however, the potential for corrosion is present.

AVOID cold sterilizing solutions as they contain oxidizing agents that may weaken carbide burs.

AVOID worn chucks that may cause bur slippage and/or vibration that can lead to breakage.

## STERILIZATION OF ANODIZED ALUMINUM BUR BLOCKS

- Prior to sterilization, rinse the bur block under running water and make sure the holes are properly cleaned and dried.
- For the sterilization of instruments, it is necessary to seal the bur block in sterilization pouches before sterilization process is executed in the autoclave.
- Frequent sterilization of the bur blocks might lead to slight color deviations. This change in color does not have any effect on the quality or performance of the bur block.

## ELIMINATION OF WORN INSTRUMENTS

- Damaged and deformed blades of carbide burs can cause increased vibration and lead to poor performance.
- Blank areas on the surface of diamond instruments are an indication of diamond particle exfoliation, which reduces cutting efficiency. These exposed areas lead to excessive temperature buildup and possible thermal pulp damage.
- Worn or bent diamond or carbide instruments should be discarded immediately.

## OPERATIONAL INSTRUCTIONS:

SS White® patented<sup>1</sup> EndoGuide® Burs are a series of eight burs for non-surgical root canal treatment.

1. For best product performance, always match the EndoGuide® Bur to the task to be performed (See **Chart** below).
2. While EndoGuide® Burs are diminutive in size they are efficient cutters in both the vertical and lateral directions. To maximize cutting efficiency and avoid bur breakage, it is recommended that the clinician apply only

enough pressure to guide the bur while allowing the instrument to progress through the substrate. When used for troughing procedures, a light sweeping motion is suggested. Excessive force to the instrument, especially in a lateral direction, can lead to bur damage. The diminutive size precludes efficient heat dissipation and a very light touch is recommended to avoid overheating the bur.

**NOTE:** Initial access should be performed with either the EndoGuide® Anterior/Bicuspid Kit for Endodontic Access Exploration, order #18052 or the Clark/Khademi Diamond Endodontic Access Kit, order #20301.

## Kit and Bur Reference Guide: SS White® EndoGuide® Precision Micro Endodontic Burs

Bur # SSW Order #	Bur Photograph	Head Length (mm)	Tip Diameter (mm)	Back Diameter (mm)	Reorder Package Size	Included in: Anterior/Bicuspid Kit #18052	Included in: Molar Kit #18051	Recommended Applications
EG1A #15066	 SLFG* Length = 27mm	2.5	0.33	1.07	5-pk	YES	NO	• Initial access in non-restored anterior and bicuspid teeth
EG1 #14780	 SLRA* Length = 27mm	3.5	0.28	0.71	5-pk	YES	YES	• Deep troughing • Deeper orifice enlargement and calcified canals
EG2 #14779	 SLRA* Length = 27mm	2.5	0.33	1.07	5-pk	YES	YES	• Stone removal, coronal troughing • Deep orifice enlargement and calcified canals
EG3 #15023	 SLFG* Length = 27mm	1.5	0.28	0.71	5-pk	YES	YES	• Initial access for small incisors • Troughing and navigating calcified canals
EG4 #15029	 SLFG* Length = 29mm	3.5	0.28	0.71	5-pk	NO	YES	• Deep troughing • Navigating super ovoid and calcified canals
EG5 #14794	 XLRA* Length = 34mm	1.5	0.28	0.71	5-pk	NO	YES	• Deep troughing • Retrieving separated instruments • Navigating deeply calcified canals
EG6 #14795	 XLRA* Length = 34mm	2.5	0.28	0.71	5-pk	NO	YES	
EG7 #14786	 XLRA* Length = 34mm	1.5	0.33	1.07	5-pk	NO	YES	

### SS White Great White® Carbides and Diamonds:

GW2 #15062 #13095	 FG Length = 19mm	4.0	N/A	1.19	10-pk 100-pk	YES	NO	• Metal crown access or removal • Amalgam restoration and decay removal • Molar initial access and de-roofing
GWZ 856-018 (Round End Cone) #18161	 FG Length = 22mm	8.0	1.10	2.2	5-pk	YES	NO	• Ceramic/zirconia crown removal • Molar initial access
GWZ 801-018 (Round) #18163	 FG Length = 19mm	1.8	N/A	1.90	5-pk	YES	NO	• Initial access through ceramic/zirconia crowns • Molar initial access

\*NOTE: SLRA (Surgical Length Right Angle) and XLRA (Extra-Long Right Angle) shanks are for use in right angle slow-speed handpieces:

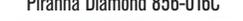
SLFG (Surgical Length Friction Grip) shanks are for use in friction grip high-speed handpieces.

When using EndoGuide® Bur for troughing procedures, a light sanding or sweeping motion is suggested.

U.S. Patent No. 6,257,889 B1

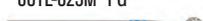
## SS White® Endodontic Restoration Removal Kit #20302



Instrument:	Shape/Grit:	Tips and Suggested Uses:
Great White #1 Carbide Bur 	Sharply Dentated Pear Shape	<ul style="list-style-type: none"> <li>Well suited for creating undercuts to aid in the quick removal of smaller failed amalgam restorations.</li> </ul>
Great White #2 Carbide Bur 	Sharply Dentated Straight Fissure	<ul style="list-style-type: none"> <li>Ideal for the removal of failed non-precious PFM crowns. This bur is also an excellent choice for creating endodontic access through PFM crowns.</li> </ul>
Piranha Diamond 835-014C 	Parallel Flat End Coarse Grit	<ul style="list-style-type: none"> <li>Excellent for slotting and removing porcelain veneering to access the metal substructure during PFM crown removal.</li> </ul>
Piranha Diamond 801-018C 	Round Coarse Grit	<ul style="list-style-type: none"> <li>Excellent for slotting and removing porcelain veneering to access the metal substructure during PFM crown removal.</li> <li>Once the porcelain has been slotted, switch to the Great White® #2 carbide bur for efficient cutting of the metal coping.</li> </ul>
Piranha Diamond 856-016C 	Round End Taper Coarse Grit	<ul style="list-style-type: none"> <li>Use this instrument to groove the porcelain veneer of the PFM crown when complete removal is necessary.</li> <li>Once the porcelain has been slotted, switch to the Great White® #2 carbide bur for efficient cutting of the metal surface.</li> <li>This diamond is also used to flare and smooth the access created for endodontic therapy.</li> </ul>
Great White Z 801-018 	Round	<ul style="list-style-type: none"> <li>Create proper initial endodontic access through crowns with zirconia substructures.</li> <li>Great White® Z Diamonds offer maximum cutting efficiency for zirconia or ceramic crowns, bridges or substructures, compared to standard rotary cutting instrumentation.</li> <li>When cutting zirconia, copious amounts of water coolant must be used.</li> </ul>
Great White Z 856-018 	Round End Taper	<ul style="list-style-type: none"> <li>The Great White® Z Diamond will efficiently remove atraumatic zirconia based crowns.</li> <li>Facial to lingual slotting is easily accomplished with the 8mm long cutting surface of this diamond.</li> <li>When cutting zirconia, copious amounts of water coolant must be used.</li> </ul>

## Clark/Khademi Diamond Endodontic Access Kit #20301



Piranha Diamond:	Shape/Grit:	Ideal for use on:	Tips and Suggested Uses:
801L-023M FG 	Round Medium Grit	Molars, premolars, anteriors	<ul style="list-style-type: none"> <li>Provides a line of sight for safely and progressively extending the access preparation.</li> <li>Refine and flatten axial walls with proper taper and finish.</li> </ul>
850-021M FG 	Round-End Taper Medium Grit	Molar initial access	<ul style="list-style-type: none"> <li>The tapered configuration allows easy access to the canal orifices and funnel shaping of the chamber walls.</li> <li>Refine and flatten axial walls with proper taper and finish.</li> </ul>
850-014M FG 	Round-End Taper Medium Grit	Anterior, bicuspid initial access Molar access refinement	<ul style="list-style-type: none"> <li>Well suited for deeper dentin canal identification of the pulpal floor, as well as for initial access for small incisors, and troughing and navigating calcified canals.</li> </ul>
859-010M FG 	Thin Tapered Medium Grit	Small incisors, and calcified canals	<ul style="list-style-type: none"> <li>Refine and flatten axial walls with proper taper and finish.</li> <li>The tapered configuration allows easy access to the canal orifices and funnel shaping of the chamber walls.</li> </ul>
856-016M FG 	Round-End Taper Medium Grit	Anterior, bicuspid initial access	<ul style="list-style-type: none"> <li>Refine and flatten axial walls with proper taper and finish.</li> <li>The tapered configuration allows easy access to the canal orifices and funnel shaping of the chamber walls.</li> </ul>
856-016M RA 	Round-End Taper Medium Grit	Anterior, bicuspid & molar access refinement	<ul style="list-style-type: none"> <li>Refine and flatten axial walls with proper taper and finish.</li> <li>The tapered configuration allows easy access to the canal orifices and funnel shaping of the chamber walls.</li> </ul>
850-014M RA 	Round-End Taper Medium Grit	Anterior, bicuspid & molar access refinement	<ul style="list-style-type: none"> <li>This round end taper will efficiently remove atraumatic zirconia-based crowns.</li> <li>Facial to lingual slotting is easily accomplished with the 8mm long cutting surface of this diamond.</li> <li>When cutting zirconia, copious amounts of water coolant must be used.</li> </ul>
Great White® Z GWZ 856-018 FG 	Round-End Taper	Zirconia restorations	<ul style="list-style-type: none"> <li>Create proper endodontic access through crowns containing zirconia substructures.</li> <li>Great White® Z Diamonds offer maximum cutting efficiency for zirconia or ceramic crowns, bridges or substructures compared to standard rotary cutting instrumentation.</li> <li>When cutting zirconia, copious amounts of water coolant must be used.</li> </ul>
Great White® Z GWZ 801-018 FG 	Round	Zirconia restorations	<ul style="list-style-type: none"> <li>Create proper endodontic access through crowns containing zirconia substructures.</li> <li>Great White® Z Diamonds offer maximum cutting efficiency for zirconia or ceramic crowns, bridges or substructures compared to standard rotary cutting instrumentation.</li> <li>When cutting zirconia, copious amounts of water coolant must be used.</li> </ul>

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