Carbide SOLUTIONS
Rotary Cutting Instruments

LEADING EDGE CARBIDE TECHNOLOGY

Operatory Burs
Great White™ Series
Fissurotomy® Burs
Trimming & Finishing Burs
Oral Surgery Burs

Changing Dentistry for the Better... Again™
SS White Burs, Inc.

Changing Dentistry for the Better... Again™ Worldwide

Argentina
Armenia
Australia
Austria
Bolivia
Brazil
Brunei
Bulgaria
Chile
Colombia
Costa Rica
Cyprus
Czech Republic
Denmark
Ecuador
Egypt
El Salvador
England
Finland
Germany
Greece
Guatemala
Holland
Hong Kong
Hungary
Israel
Italy
Japan
Korea
Kyrgyzstan Republic
Latvia
Lebanon
Lithuania
Malaysia
Mexico
Morocco
New Zealand
Netherlands
Nicaragua
Norway
Philippines
Puerto Rico
Dominican Republic
China
Romania
Russia
Saudi Arabia
Singapore
Slovenia
South Africa
Spain
Switzerland
Syria
Turkey
U.A.E.
Ukraine
Uruguay
India
Poland
Venezuela
Vietnam
The name SS White is synonymous with dentistry in the United States. The glorious history of SS White Burs began in 1844 when Samuel Stockton White opened up his business in Philadelphia, PA.

To aid in distribution of products and stimulate communication with dentist customers, retail stores were opened: New York (1846), Boston (1850), Brooklyn (1852), and Chicago (1858). Finding this method inadequate to keep up with demand, the firm then established a system of selling to dealers which could reach dentists at considerable distances and provide them with services they needed.

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.

Over 160 Years of Dedication

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

Innovative and Differentiated Products

1872: First offering of steel burs in round, wheel, cone & inverted cone shapes.

1878: Introduced stoned burs; cutting blades stoned by hand for increased sharpness.

1882: Honed burs introduced; less expensive than stoned burs and provided greater efficiency than regular file cut burs.

1891: Introduced the Revelation® bur, which revolutionized bur manufacturing as it was produced entirely by machinery.

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.

1969: First offering of carbide burs for composite preparations.


**Great White™** restoration removal burs were launched for the rapid and precise removal of all types of semi and non-precious crowns and bridges, amalgams, composites and porcelains.

**1991:** Sterile single-patient-use diamonds were launched to assist in preventing the risk of cross-contamination and also to provide a fast cutting instrument each and every time.

**1999:** Fissurotomy® burs were introduced for the early identification and treatment of hidden caries.

**2001:** Launched Express Line® lab metal finishing burs for faster metal finishing.

**2003:** Introduced Safe End finishing carbide burs.

**2004:** Great White™ Ultra burs were introduced for fast and smooth crown preparations.

### Efficiency

SS White has worked with dentists and dental researchers to develop products that help deliver greater efficiency to the dental practice.

**Great White™ Gold Series Operative Carbides:** The unique blade geometry provides one of the fastest cutting and efficient operative burs available. Useful for easy crown removal, rapid endodontic access and quick and smooth amalgam removal. The burs are designed for rapid preparation and tooth reduction with a minimum of chatter.

**Great White™ Ultra Crown and Bridge Preparation Burs:** A more efficient bur for the bulk reduction task in crown prep than traditional diamonds. The scientifically designed blade structure allows debris to be quickly washed away. This eliminates the “drag” experienced with clogged diamond instruments. In addition, excellent marginal integrity is provided via the cutting blade on the head tip.

### Conservation

SS White has worked with dentists and dental researchers to develop products that help provide conservative solutions to the dental practice.

**Fissurotomy®:** SS White worked with Temple University to develop a patented instrument to scientifically examine and excavate suspect pits and fissures for hidden caries. That bur is called the Fissurotomy® bur. This conservatively designed bur allows the explorer to accurately diagnose the presence of decay and also create an ideal cavity form for restoration. The tip head is smaller than a 1/4 round bur shape. The head length is designed to get you just to the DEJ in most cases; thus reducing the need for anesthesia.

### Philosophy Remains the Same...

Today, SS White continues on the tradition of the founder of identifying and developing ideas that will improve the quality of dental care or make dentists more efficient. We believe that innovation and the creation of unique and differentiated products are the cornerstone of the company and make SS White one of the most well recognized and trusted name in dentistry today. We are committed to changing dentistry for the better... again.
Our Commitment to Being the Best

Our vision is to be the leading manufacturer of precision rotary cutting instruments, serving worldwide markets.

We can only achieve this goal by providing quality products that deliver total customer satisfaction.

We will conduct our business in an honest and ethical manner.

We will establish an atmosphere of trust and mutual respect with our employees and business partners.

Contact Information

1. Call 1-877-SSWBurs (779-2877) to speak with a SS White Burs Customer Service Representative. 8:00 am to 5:00 pm EST. (Monday thru Friday)

2. Fax 1-732-905-0987.
   Fax us your order.

3. Contact your dealer of choice.

4. domesticsales@sswhiteburs.com
   internationalsales@sswhiteburs.com

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Trademark Information

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- Great White™ is a trademark of SS White Burs, Inc.
Engineered Like No Other Bur!

Simply stated, “A Bur Is Not A Bur”

Our extensive experience and knowledge results in the production of our high quality line of carbide burs. Many critical factors must be monitored and considered in the manufacturing process to ensure the consistent, high-quality performance of an SS White Bur.

SS White brings over 160 years of continuous improvement in the design and manufacturing of dental instruments. If it’s from SS White, it’s second to none.

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 feel when cutting enamel or dentin.

**SS (FG Short Shank)**

Shank Diameter .0630” 1.60mm

Overall Length .670” 17.0mm

Short shanks are used for greater access in the posterior region particularly when patients do not have the ability to open their mouths wide enough.

**RA SL (Right Angle Surgical Length)**

Shank Diameter .0925” 2.35mm

Overall Length 1.024” 26.0mm

**FG SL (FG 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.

**HP (Handpiece)**

Shank Diameter .0925” 2.35mm

Overall Length 1.752.” 44.5mm

Handpiece burs are used in dental laboratories as well as in extraction procedures where greater access is required.
POWERFUL CUTTING PERFORMANCE
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.

MAXIMUM STRENGTH & DURABILITY
Proper selection of tungsten carbide and high quality steel combined with a specialized heat treatment process and controlled welding operation creates the optimum conditions required to attain the impressive strength and durability of an SS White bur.

CONSISTENT QUALITY
SS White is ISO 9001, EN46001 and CE Mark Certified which means an SS White bur is manufactured to the highest quality standards. You can depend on the consistent quality of a SS White bur... in all ways, always.

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The smaller SS White round burs are popular for the preparation of conservative single surface cavities. Medium sizes may be used for interproximal cavities in anterior teeth (Class III). Additional applications include gaining root canal access both anteriorly and posteriorly.
PEAR-SHAPE BURS

This shape may be used for much of the preparation of conservative to moderately large occlusal cavities and also for Class III interproximal cavities in anterior teeth. SS White burs will produce rounded internal line angles and occlusally convergent lateral walls for conservative preparation in premolars and molars.

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www.sswhiteburs.com
Inverted cone burs are used primarily for producing undercuts at the junction of the pulpal floor and lateral walls in occlusal (Class I), cervical (Class V) cavities, and in the occlusal locks of the Class II cavities. Inverted cone burs are also useful for flattening pulpal and gingival walls. SS White blades are slightly rounded at the corners as an added protection against chipping and to give slightly rounded angles in keeping with adhesive guidelines.
STRAIGHT/FLAT END PLAIN FISSURE

These SS White burs may be used wherever straight parallel sides and flat floors are desired. Some applications are: establishing of initial outline form, gaining access to carious dentin and preparation of lateral walls.
These SS White burs may be used wherever straight parallel sides and flat floors are desired. Some applications are: establishing of initial outline form, gaining access to carious dentin and preparation of lateral walls.
Whenever taper is required on cavity walls, such as for inlay or onlay preparations for cast gold, ceramic, or composite resin, SS White taper-fissure burs will accurately cut with a fine degree of divergence and facilitate the avoidance of undercuts.
SS White® CARBIDE SOLUTIONS

TAPER/FLAT END CROSS CUT FISSURE

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Taper/Flat End Cross Cut

| Bur No.     | 699L | 700L | 701L |
| FG          | 16680 | 16694 | 15036 |
| FG (bulk)   | 13697 | 13709 | 14781 |
| RA          | 14791 | 14805 | 14910 |
| HP          | 14781 | 14882 | 14883 |

TAPER/ROUND END PLAIN FISSURE

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<td>RA</td>
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For Customer Service Call 1-800-535-2877
The combination of a round head and straight fissure avoids the necessity of changing burs for the two operations of enamel penetration and side cutting. Ideally suited to the preparation of minimal occlusal fissure (Class I) cavities in premolars and molars. An additional feature is the development of rounded internal line angles which increases the dispersion of mastication forces.
SS White® CARBIDE SOLUTIONS

END CUT

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AMALGAM

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</table>

For Customer Service Call 1-800-535-2877
### Surgical and Endodontic Length

#### Bur No. 2 46
- FG: 14001-5, 14004-5, 14006-5, 14008-5
- RA: 14112-5, 14114-5, 14116-5, 14118-5

#### Bur No. 557 558
- FG: 14057-5, 14058-5, 14069-5
- RA: 14157-5, 14158-5, 14159-5

#### Bur No. 702
- FG: 14070-5, 14071-5, 14073-5, 14075-5
- RA: 14170-5, 14172-5, 14174-5, 14175-5

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www.sswhiteburs.com
Great White™ Gold Series

**Advanced Technology for Optimal Performance!**

Great White™ Gold Series burs have a unique state of the art design. By increasing dentates and incorporating an enhanced blade geometry, the Gold Series bur cuts faster than a standard dentated (crosscut) bur and smoother than a straight bladed bur.

**Crown Cutting/Removal**

Use the enhanced neck strength and faster cutting rate of a single Great White Gold Series bur to efficiently cut slots through any metal crown.

**Rapid Endodontic Access**

Select the appropriate Great White Gold Series round bur (GW #2R, GW #4R, GW #6R, GWSL #6R or GW #8R) to penetrate the restoration and/or tooth structure to create endo access.

Note: If you are creating access in a PFM Crown and intend to preserve the crown, penetrate the porcelain using a round diamond. Then switch to the appropriate GW bur to complete the access. (Try the Piranha® Diamond #801-016)

**Faster, Smoother Cavity Preparations**

- Aggressively cuts tooth structure and restorative materials.
- Does not grab, catch, stall or break in harder to cut materials such as amalgam, composite, semi-precious and non-precious castings.

For Customer Service Call 1-800-535-2877
GREAT WHITE™ PEAR

- Easy Endo Access

GREAT WHITE™ ROUND

- Faster & Smoother Cavity Preps

GREAT WHITE™ INVERTED CONE

www.sswhiteburs.com
Quick Crown Removal
The GW #2 is an ideal instrument for PFM crown and non-precious metal removal

The GW #2 is also ideal for quick titanium abutment adjustments without the sparking associated with diamonds, and for removing old restorations in secondary decay.

GREAT WHITE™ TAPER FISSURE

For Customer Service Call 1-800-535-2877
Experience a unique carbide bur specifically designed to offer a FASTER alternative to diamonds in the crown preparation procedure.

- Complete bulk reduction; cut through old amalgam and finish with one instrument.
- Dentated carbide specifically designed for superb cutting action.
- Cuts fast with minimal clogging.
- Smooth tip helps ensure marginal integrity.

**Shoulder Finish Line**

Our 847 Series is designed to develop a 90° axial-gingival line angle suitable for anterior all ceramic and PFM restorations.

*Note: Radial break on bur edge eliminates acute line angle.

**Chamfer Finish Line**

Our 856 Series is designed to create a rounded axial-gingival line angle for metal to ceramic restorations.

www.sswhiteburs.com
**GREAT WHITE™ ULTRA ROUND END TAPER**

For use on Chamfer crown & bridge preparation.

**GREAT WHITE™ ULTRA FLAT END TAPER**

For use on Shoulder crown & bridge preparation.

Inlay/Onlay Preparations
GWU 845 series is ideal for the initial reduction and the contouring of internal walls for inlay and onlay preparations. This flat end taper is ideal for preparation of the proximal box with divergent walls with an approximate 6° angle.

For Customer Service Call 1-800-535-2877
For use on Occlusal/Lingual Reductions - our GWU 379-023 football shaped bur provides an ideal shape for the concave, lingual surface of the anterior teeth.
The Fissurotomy® Bur...
A conservative solution to suspect fissures

Problem: Hidden Caries
Increased fluoride use has made it difficult to detect fissure caries using explorers and x-rays. A large percentage of suspect fissures have decay present.

Studies have shown that over 90% of pits and fissures with subsurface staining and white decalcification have decay present.

SOLUTION: The Fissurotomy® Bur
The scientifically developed instrument for the conservative diagnosis and treatment of hidden caries.

◆ Tip of bur is smaller and more conservative than 1/4 round.
◆ Fine carbide tip will not strip quickly like thin diamonds.
◆ Virtually pain free to the DEJ... in most cases no anesthesia is needed.
◆ Ideal cavity prep form.
◆ Cleaner, faster, more controlled and less costly than air abrasion.
◆ May perform multiple preps in the same amount of time it takes to do a single prep with anesthesia. Results in more efficiency for your practice.

RESULT: Conservative Prep
The Fissurotomy® Bur allows for exploration of fissures. It is virtually pain-free (to the DEJ) and creates an ideal cavity form. You can explore and restore in just 3–5 minutes.
Fissurotomy® Burs

**Fissurotomy® Original**

- 1.1 mm
- For the conservative pit/fissure exploration of adult molars.

**Fissurotomy® Micro NTF** (Narrow Taper Fissure)

- 0.7 mm
- For the ultraconservative pit/fissure exploration of adult molars.

**Fissurotomy® Micro STF** (Shallow Taper Fissure)

- 0.6 mm
- For use in primary teeth, adult premolars and enameloplasty.

**Fissurotomy® Burs Diagnostic & Finishing Bur Kit**

**Kit Contains:**
- 1 Autoclavable Bur Block,
- 3 ea. Original Fissurotomy® Burs,
- 3 ea. Fissurotomy® Micro NTF Burs,
- 3 ea. Fissurotomy® Micro STF Burs,
- 1 ea. Finishing Bur #7901,
- 1 ea. Finishing Bur #7406.

**Order #18007**

www.sswhiteburs.com
Designed to Trim & Finish

The Safe End #3 and #4 instruments are shaped to provide the ideal straight-line emergence profile of natural teeth. The non cutting tip is designed to trim and finish sub-gingival cosmetic restorations without damaging the sub-gingival margin and tissue.

Procedure Specific Instruments

Ideal Lengths to Contour

These procedure specific instruments have dimensions that correspond to the area of the tooth being restored.

Ultimate in Efficiency

Other competitive burs of this type use a sequence of three burs. SS White’s system uses two burs to accomplish the same procedure, therefore becoming more efficient for the practice.
SAFE END TRIMMING & FINISHING BURS

Kit contains:
One each of the following Safe End Series Burs in an autoclavable bur block.
SE3-10, SE3-20, SE4-10, SE4-20, SE6-10, SE6-20, SE8-10, SE8-20, SE9-10, SE9-20
Order # 16051

www.sswhiteburs.com
Finishing Burs

...are specifically designed for the shaping and finishing of all dental materials.

A smoother, more aesthetically pleasing surface can be achieved with carbide finishing burs as opposed to diamonds for most restorative materials. Carbide burs should be used to trim and finish macrofilled composites and hybrid composites.

Grinding & polishing diamonds should be used to trim and finish microfilled composites. Coarse grinding tools leave behind striations; fine and extra fine diamonds are suitable for finishing.

TWELVE BLADED
Twelve bladed finishing burs provide a smooth finish on composite, amalgam, enamel, dentin, ortho debonding and other dental materials. Designated by the 7000 series #. Ideal for controlled contouring and finishing.

THIRTY BLADED
Thirty bladed burs will eliminate most surface striations and are recommended to be used prior to abrasive polishing instruments. These instruments are designed to reduce the “shiny dull” phenomenon and save additional polishing time. Designated by the 9000 series #. Ideal for final surface refinement and satin polishing.

For Customer Service 1-800-535-2877
SS White® round burs are ideal for:

- Contouring and finishing restorations
- Root planing
- Bone contouring and smoothing

Flame trimming & finishing burs

Bur No. 7104 | 7106 | 7108
12-Blade 15091-5 | 15094-5 | 15108-5
30-Blade 14304-5 | 14306-5 | 14308-5

www.sswhiteburs.com
CONE TRIMMING & FINISHING BURS

Inverted Taper Trimming & Finishing Burs

For Customer Service 1-800-535-2877
**EGG TRIMMING & FINISHING BURS**

This shape may be used for the contouring and finishing of occlusal and lingual surfaces. SS White egg shaped finishing burs are also useful for occlusal adjustments on anterior and posterior teeth.

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**Occlusal Margin**

This shape may be used for the contouring and finishing of occlusal and lingual surfaces. SS White egg shaped finishing burs are also useful for occlusal adjustments on anterior and posterior teeth.

www.sswhiteburs.com
STRAIGHT TRIMMING & FINISHING BURS

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EXTRA LONG TAPER TRIMMING & FINISHING BURS

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BULLET TRIMMING & FINISHING BURS

NEEDLE TRIMMING & FINISHING BURS

Interproximal Cavosurface Margin

The SS White needle shape burs are excellent for the contouring and finishing of: interproximal margins, occlusal margins, facial surfaces and cavosurface margins.
Facial Surface Margin

The SS White CFT (composite, finishing and trimming) burs are ideal for the contouring and finishing of restorative materials subgingivally, cavosurface margins and facial surfaces. The straight bur helps to avoid concavity when finishing composites.
Technique For High Speed Metal Finishing

SS White® friction grip dental laboratory burs are designed to decrease metal finishing time substantially, while helping to reduce the associated physical stress in the process.

Equipment Requirements:
- High-Speed friction grip handpiece
- Protective eyewear and apron

Safety First:
1. Perform metal finishing in front of a local exhaust station.
2. Wear a full-face shield, or a face mask and safety eyeglasses.
3. Wear a nylon or plastic bib or apron.
4. Metal particles can irritate. Do not touch or rub eyes or face when metal finishing.
5. Wash hands immediately after metal finishing.
6. If skin is sensitive, wear fitted latex gloves during metal finishing.

Instructions For Use
NOTE: For best results use a pencil grip grasp and light pressure. Place the bur on the metal surface and move the rotating bur toward you.

STEP 1: Gross Reduction
Begin gross reduction of the coping (metal substrate) at the sprue area with the EL1. Continue gross reduction of excessive bulk, contouring the metal into the general shape and thickness desired.

STEP 2: Gross Reduction
Further gross reduction may also be accomplished by using the EL2 to finish around metal collars, pontic connectors, and chamfer margins where a designated contour is required.

STEP 3: Textured Finish
Now that the coping (metal substrate) has been contoured to the desired thickness, use the EL3 to place a textured finish on all porcelain bearing surfaces in preparation for porcelain application.

STEP 4: Textured Finish
Use the EL4 to finish all porcelain-bearing surfaces at chamfered margins, under pontics, and at embrasures to attain a textured finish in preparation for porcelain application.
## ORAL SURGERY BURS

### Shape Selection

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### Shank Selection

- **Shank #1**: Fits Hall® & Most Standard Handpieces (44.5mm)
- **Shank #2**: Fits Hall® and MicroAire® Handpiece with Medium Bur Guard (51mm)
- **Shank #3**: Fits Hall® and MicroAire® Handpiece with Long Bur Guard (65mm)
- **Shank #4**: Fits Stryker® 100K & Impaction Handpiece (44.5mm)
- **Shank #5**: Fits Stryker® 100K & Impaction Handpiece (59mm)
- **Shank #6**: Fits Stryker® 5SK & Osteotome Drill J-notch (44.5mm)

### Sterile Packaging Available in Shanks 2-6

- **Friction Grip Surgical Length**: 1.004" Diameter .0630"
- **Right Angle Surgical Length**: 1.023" Diameter .0925"

*Hall® is a registered trademark of Zimmer, Inc.*
*Stryker® is a registered trademark of Stryker Instruments.*
*MicroAire® is a registered trademark of MicroAire Surgical Instruments, Inc.*
## BUR ACCESSORIES

### BUR BLOCKS & BRUSHES

**Wire Cleaning Brush**
(Autoclavable)
#26040

**FG Thermo block**
(Autoclavable)
#16392

**HP/RA Thermo block**
(Autoclavable)
#16407

**Universal Aluminum Block**
(Autoclavable)
#16391

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### CARBIDE BURS - Maximum Head Diameters in Millimeters & Inches

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### TAPER FISSURE CARBIDE BURS - Tip & Maximum Head Diameters in Millimeters & Inches

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**HP/RA**
Thermo block
(Autoclavable)
#16407
Recommendations for the care of tungsten carbide burs

CONSIDER SINGLE USE FOR MAIN OPERATORY CARBIDES TO INSURE:

- A consistent, fast cutting bur which saves valuable time
- Greater patient comfort
- Reduced sterilization cost

STEPS TO PROPERLY STERILIZE TUNGSTEN CARBIDE BURS

CLEANING

STEP 1. Wear gloves when handling contaminated instruments. 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 2. Brush away remaining debris using a SS White stainless steel wire brush (order no. 26040) and rinse burs under running water.

STEP 3. After rinsing, dry burs thoroughly by placing them on absorbent towels. Pat dry all surfaces.

STERILIZATION

Proper sterilization of carbide burs is extremely important because it eliminates the threat of cross infection of patients and staff 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, potential for corrosion is present.

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

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