

Instructions for Use

CleanCut Extended Use Diamonds

CleanCut Extended Use Diamonds are available in non-sterile models with numerous head diameters and working lengths. The devices can be sterilized using steam sterilization in a gravity or prevacuum cycle.

Description

CleanCut Extended Use Diamonds family includes Operative Diamond Burs, Brazed Diamond Burs, Laboratory Diamond Burs.

A diamond dental bur or disc is a rotary abrading device made of stainless steel which is coated with diamond particles on the working end, and which is designed to fit into a dental handpiece. CleanCut Extended Use Diamonds are reusable instruments.

Intended Use

CleanCut Extended Use Diamonds fit into a dental handpiece, which provides the rotation, allowing the user to abrade hard structures in the mouth, e.g., teeth or bone. CleanCut Extended Use Diamonds can also be used to abrade plastics, ceramics and similar materials.

Warnings



- The device is to be used on the instruction of, or by a dentist or other licensed practitioner.
- Coated diamonds must not be used to abrade metal alloys.
- Attention should be paid to the speed of work (RPM)
 - Always refer to the product packaging for the Maximum RPM. Use of the bur beyond the RPM range may cause the bur to break and result in patient or user harm.
 - Operating a bur with too high of an RPM may generate undesirable heat and cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Proper irrigation is required while using the device. Inadequate use of irrigation may generate undesirable heat and cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Do not apply excessive pressure on the bur as this could cause undesirable heat or may cause the bur to fail and cause patient or user injury.
- Non-sterile diamond burs must be thoroughly cleaned and steam sterilized prior to the first use.
- Do not use chemical or dry heat to sterilize CleanCut Extended Use Diamonds, as these processes have not been validated for use. Use of these processes may be corrosive to the device and could result in premature device failure.
- Proper cleaning is required after use of device to prevent cross-contamination. Failure to properly remove accumulated debris may cause device to break causing patient or user harm or may generate undesirable heat and cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Use a rubber dental dam while using diamond burs to avoid possible aspiration or swallowing of the device.
- Carefully read package labels to ensure use of the appropriate device. Failure to do so may cause patient or user injury.
- Failure to follow these instructions may cause the following: preparation site damage, injury to the patient or user, or possible aspiration or swallowing of the diamond bur.

Product Disposal

- Dispose of product or recycle in accordance with local laws and regulations.

Contraindications

- Diamond burs contain nickel and should not be used for individuals with known allergic sensitivity to this metal as it may cause hypersensitivity.

Precautions

- Always inspect the burs before use. Use of worn-out or dull burs could cause undesirable heat or may cause the device to fail.
- Move the bur continuously when in use to avoid localized heating and/or damage to the bur. Undesirable heat generation can cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Avoid heavy pressure on the diamond device to prevent bending or breakage which could cause patient or user injury.
- Avoid removing the bur at too sharp an angle to avoid leverage and breakage and cause patient or user injury.
- Maintain handpieces in good working condition to ensure maximum effectiveness of the device. Failure to properly maintain handpieces may lead to injury of the patient or user, aspiration or swallowing of the device or damage to the preparation site due to vibration of a worn chuck or turbine.
- Ensure the bur is fully seated and securely gripped in the handpiece collet prior to use. Failure to do so may cause the device to "walk out" of the handpiece and may lead to injury of the patient or user or aspiration or swallowing of the device.
- Never force a bur into a handpiece as this could cause damage to the handpiece collet.
- Eye protection must be worn to protect against eject particles.
- Surgical masks must be worn to avoid inhalation of any aerosol or dust generated.

General Instructions

1. Clean and sterilize non-sterile burs in accordance with the validated procedures provided below prior to first use and prior to each reuse.
2. Do not force bur into the handpiece. In case of difficult access, check both handpiece turbine and bur and refer to handpiece instructions for troubleshooting.

Cleaning and Sterilization Instructions

Scope

These instructions are applicable to all CleanCut Extended Use Diamonds dental burs. They are applicable before initial use and after each subsequent use. Diamond burs are provided mechanically clean, but are not sterile (unless labeled “STERILE”). Therefore, diamond burs should be sterilized before first use.

Warnings

1. Cleaning agents with chlorine or chloride as the active ingredient are corrosive to stainless steel and must not be used. Cleaning agents with neutral pH are recommended.
2. Do not use Cold Sterilizing Methods for the sterilization of diamond burs. These agents often contain strong oxidizing chemicals that may attack the substrate that bonds the diamond particles to the steel blanks.

Reprocessing Limitations

The end of life is determined by wear and damage in use and diamond bur should be inspected for defects (i.e., broken tips, missing diamond particles, etc.) during the cleaning process.

Point of Use

Delay in reprocessing must be minimized to avoid contaminants drying thereby making cleaning more difficult.

Containment/Transportation

Diamond burs can be transported wet or dry and should be protected from damage. If transported wet there is an increased chance of staining or corrosion. Prolonged storage in disinfectant solutions may result in degradation of the product and must be avoided.

Manual Cleaning Procedure

If hand cleaning is the only available option, diamond burs should be cleaned in a sink reserved for cleaning instruments.

Optional step: Insert the diamond bur into a handpiece and operate at the Maximum RPM. Insert the diamond bur head fully into a wet diamond cleaning stone for at least 2 seconds. Remove diamond bur from handpiece.

Rinse the diamond bur (and dedicated instrument block, if applicable) under cool running water for at least one (1) minute.

Prepare a fresh bath of neutral-pH cleaning solution. Follow the cleaning agent's manufacturer's instructions. Immerse the diamond bur (and instrument block) and soak for at least ten (10) minutes.

After soaking, and keeping it immersed, brush thoroughly away from the body using the neutral cleaning agent for at least one (1) minute. Care should be taken to avoid spreading contaminants by spraying or splashing during the brushing process. Use wire brushes with caution as brass particles may result in galvanic corrosion and steel particles may cause discoloration of stainless steel.

Special care should be taken to clean crevices and other hard-to-reach areas thoroughly. Visually inspect to confirm the removal of debris. Repeat the cycle if needed.

Thoroughly rinse the diamond bur (and instrument block) under running warm water for at least one (1) minute and until visibly clean.

Dry the device using a non-shedding wipe or clean compressed air.

Ultrasonic Cleaning Procedure

Prepare a fresh pH-neutral cleaning solution; place the diamond bur in the dedicated instrument block (if applicable) and then place in a sonication unit. Follow the cleaning agent manufacturers' instructions for correct concentration, exposure time, temperature, and water quality.

Completely submerge the device in the cleaning solution and sonicate for at least fifteen (15) minutes.

Perform a final thorough rinse of the device and instrument block (if applicable) under running warm tap water for at least (1) minute. Visually inspect to confirm the removal of debris. Repeat the cycle if needed. Dry the device using a non-shedding wipe or clean compressed air.

Inspection Testing

1. Carefully inspect each device to ensure all debris has been removed.
2. Visually inspect the device for damage that would prevent proper operation.
 - a. Do not use if the tip is broken.
 - b. Do not use if there are missing or worn diamond particles.
 - c. Do not use if there is evidence of corrosion.

Packaging

Singly: Pack the diamond bur in pouches validated for sterilization

In Sets: Place the diamond bur in the dedicated instrument block.

Sterilization

Use the following cycle for steam sterilization:

Cycle Type	Minimum Sterilization Exposure Time (minutes)	Minimum Sterilization Exposure Temperature	Minimum Dry Time (minutes)
Gravity	10	135°C (275°F)	30
Pre-vacuum (4 pulses)	3	134°C (273°F)	30

Ensure that the sterilizer manufacturer’s maximum load is not exceeded. The minimum dry time has been validated to ensure that the devices will not be left wet. Failure to achieve the minimum dry time may cause moisture to remain on the files that could result in corrosion.

Storage

The diamond bur should be stored in the sterilization pouch (or instrument block) until required.

Additional Information

These processes have been validated as being capable of preparing diamond burs for reuse. Any deviation from these instructions should be properly validated for effectiveness and potential adverse results.



Clinician's Choice Dental Products, Inc

167 Central Avenue, London, ON, Canada, N6A 1M6

1.800.265.3444 • 519.641.3066

clinicianschoice.com

info@clinicianschoice.com