

EDGE™ Carbide Burs - Direction For Use

1. Description

EDGE™ Carbide Burs are manufactured from a single piece of tungsten carbide (TC) or from a TC tip brazed onto a surgical steel stem. The range includes patterns designed to meet the needs of all surgery and laboratory applications.

2. Applications

EDGE Carbide Burs can be used to cut or polish a wide variety of materials encountered in dentistry. These include tooth material such as enamel, dentine and bone, dental materials such as amalgam, composite, glass-ionomer cements, polymer and ceramic veneers, and precious and non-precious alloys.

The bur pattern will be selected to cut a specific material in a specific application and the following table gives guidance on selection.

APPLICATION	BUR TYPE	MATERIAL	SIZE	SPEED (rpm)
Cavity preparation	Standard	Enamel/Dentine	010-023	<450,000
Removal of fillings	Standard	Amalgam/Composite	010-018	60,000-120,000
Excavation	Standard	Enamel/Dentine/Bone	010-023	<2,000
Finishing margins	Finishing	Enamel	010-016	10,000-20,000
Finishing restorations	Finishing	Amalgam	012-023	18,000-30,000
Finishing restorations	Finishing	Composite	012-023	10,000-20,000
Finishing restorations	Finishing	Glass ionomer	012-023	10,000-20,000
Cutting bone	Standard	Bone	018-027	500-3,000
Crown & bridge finishing	Finishing	C&B polymer	010-016	40,000-80,000
C&B metal trimming	Standard	Metals	018-027	<30,000
Prosthetic polymer trimming	Standard	Polymer	018-027	<20,000

3. Safety in Use

Eye protection must be worn to protect against ejected particles.

Surgical mask must be worn to avoid inhalation of aerosol or dust generated.

Inspect the bur for broken flutes before each use and discard defective burs.

Ensure that the bur is fully seated and gripped in the handpiece collet.

Maintain handpieces in good working order and correctly lubricated.

Do not exceed the maximum speeds tabulated above.

Move the bur continuously when in use to avoid localized heating.

Clean and sterilize the burs in accordance with the directions below before first use and before each reuse.

4. Reprocessing Instructions for Dental Rotary Instruments

Sterilization Using Steam

These instructions are applicable to the processing of EDGE Carbide Burs before first use and each reuse. Dental rotary instruments are supplied mechanically clean but are not sterile. They should therefore be sterilized before first use. Steel burs are single use devices and the instructions therefore only apply to processing before first use.

Warnings: Used burs should be considered as contaminated and appropriate handling precautions should be taken during reprocessing. Gloves, eye protection, and a mask should be worn. Other measures may be required if there are specific infection or cross-contamination risks from the patient.

5. Limitations of Processing

With the exception of steel burs, which are single use devices, reprocessing will have little effect on EDGE Carbide Burs. The end of life is determined by wear and damage in use and the burs should be inspected for defects during the preliminary cleaning process.

6. Containment at the Point of Use

Unless there are specific infection or cross-contamination risks, there are no special requirements for containment. The burs can be transported wet or dry and should be protected from damage to the cutting edges. If transported wet there is an increased chance of staining or corrosion. Prolonged storage in disinfectant solutions may result in corrosion and should be avoided.

Delay in reprocessing must be kept to a minimum to avoid contaminants drying thereby making cleaning more difficult.

7. Inspection

Inspect the burs, with the aid of magnification if necessary, and discard any damaged or corroded instruments.

8. Storage

The burs should be stored in the sterilization container (bur stand or pouch) until required. Containers or pouches must be dry before opening to avoid recontamination of the contents with water. Storage should be in dry, clean conditions and at ambient temperature.

9. Validation

These processes have been validated as being capable of preparing CLINICIAN'S CHOICE EDGE Carbide Burs for reuse. It remains the responsibility of the reprocessor to ensure that the reprocessing as actually performed using the equipment, materials and personnel in the reprocessing facility achieve the required results. This may require validation and monitoring of the process. Any deviation from these instructions should be properly evaluated for effectiveness and potential adverse results.

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