



**EDGEENDO®**

**EDGE  
MORPHOLOGY™**

**FOR DENTAL USE ONLY • DIRECTIONS FOR USE • NON-STERILE ENDODONTIC ROTARY FILES**

### **EdgeMorphology™ Endodontics Instruments**

- EdgeMorphology™ Orifice: 020 .08v / 19mm;
- EdgeMorphology™ Glider 017 .02v / 21mm-25mm-31mm;
- EdgeMorphology™ Small 020 .04v / 21mm-25mm-31mm;
- EdgeMorphology™ Primary 025 .04v / 21mm-25mm-31mm;
- EdgeMorphology™ Medium 030 .04v / 21mm-25mm-31mm.
- EdgeMorphology™ Large 040 .04v / 21mm-25mm-31mm.

### **Composition**

The cutting part of these instruments is made of a nickel-titanium alloy.

### **Directions For Use**

The EdgeMorphology™ files are intended to be used in endodontic treatment for shaping and cleaning the root canal. These instruments are intended to be used only in a clinical or hospital environment, by qualified users, following good dental practices.

### **Contraindications**

Like with all mechanically driven root canal instruments, EdgeMorphology™ files should not be used in cases of severe and sudden apical curvatures due to heightened risk of separation. Safety and effectiveness of use have not been established in pregnant or breastfeeding women or in children.

### **Warnings**

These files are to be used only in a clinical environment by qualified users. This product contains nickel and should not be used for individuals with known allergic sensitivity to this material. EdgeMorphology™ files are provided non-sterile and must be sterilized before use. Their reuse can increase the risk of cross contamination.

### **Precautions**

Like with all new products, you must take caution until you become proficient in its use. Working length determination is imperative to ensure proper instrumentation using any mechanized or hand instrument. The use of radiographs in combination with an apex locator is a recommended method of working length determination. These instruments are to be used only in a clinical or hospital environment by qualified users following good dental practice (using gloves, glasses, a mask and a rubber dam etc.). While we have implemented safeguards against possible misuse, there are several important points to remember:

- Inspect the packaging before use and do not use the instruments if the packaging is damaged;
- For optimal usage, torque controlled motors are recommended;
- All the EdgeMorphology™ rotary files should be used at motor speed of 500 rpm and 1.5 Ncm torque;
- Before using any instrument, make sure it is well connected to the contra-angle head;
- Use the EdgeMorphology™ files with no brushing action;
- Take caution in the apical area and around significant curvatures;
- These instruments should not be immersed in a sodium hypochlorite solution;
- Clean the flutes frequently during instrumentation, inspecting for signs of distortion, elongation or wear such as uneven flutes, dull spots;
- Frequently irrigate, recapitulate and irrigate the canal throughout the procedure, after using each file;
- EdgeMorphology™ files should only be used in regions of the canal that have a confirmed and reproducible glide path;
- Use the appropriate finishing files to passively follow the canal to the working length as recommended in the step-by-step instructions part 6 and then withdraw immediately;
- The maximum preparation size for the EdgeMorphology™ system is given by the Large size instrument but if a larger preparation is needed we recommend refining the apical area with the necessary NiTi hand files;
- The EdgeMorphology™ files are intended for Single Use only (on one patient during a single procedure).

The EdgeMorphology™ files mechanical characteristics support at least 4 canals, 35° curved.

EdgeMorphology™ files are manufactured with a process that results in a file that has a colored appearance. Due to this proprietary processing, EdgeMorphology™ files may appear slightly curved. This is not a manufacturing defect. While the file can be easily straightened using only your fingers, it is not necessary to straighten the file prior to use. Once inside the canal, the EdgeMorphology™ file will follow the anatomy.



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**Adverse Reactions**

This product contains nickel and should not be used for individuals with known allergic sensitivity to this material.

**STEP By STEP Instructions for EdgeMorphology™ Files**

**Radiographic Evaluation**

Review different horizontally angulated radiographs to diagnostically determine the width, length, and curvature of any given root and canal.

**EdgeMorphology™ Shaping Technique**

1. Estimate the working length using well-angulated preoperative radiographs as per 6.1.
  2. Prepare a conservative access cavity sufficient enough to reveal all root canal orifices.
  3. Scout coronal 2/3 of canals with a # 10 K-file in the presence of lubricant such as EdgeGlide.and irrigate.
  4. Next use EdgeMorphology™ Orifice at 500 rpm and 1.50 Ncm.  
With irrigant in canal advance the EdgeMorphology™ Orifice in 2-3 gentle amplitudes approximately 2-5 mm in-and-out of the canal. Repeat until the coronal third is shaped. Irrigate the canal and clean cutting flutes routinely.
  5. Scout the whole root canal with a # 10 K-file, determine Working Length (WL) using an electronic apex locator in combination with radiographs, irrigate and confirm patency.
  6. With irrigant in the canal create and confirm a reproducible glide path using a EdgeMorphology™ Glider in 2-3 gentle amplitudes approximately 2-5 mm. Irrigate and repeat until previously confirmed WL has been reached.
  7. ALWAYS begin shaping with the EdgeMorphology™ Primary file (500 rpm / 1.5 Ncm) passively in the presence of sodium hypochlorite with no more than 2-3 gentle amplitudes approximately 2-5 mm in-and-out of the canal. Irrigate and repeat as necessary to WL. Upon reaching length, remove the file to avoid over-enlarging the apical foramen.
  8. Routinely irrigate the canal and clean the files cutting flutes of debris upon removal.
  9. If the EdgeMorphology™ file does not progress easily, remove, irrigate, and recapitulate with a #10 K-file to confirm canal patency and move to the EdgeMorphology™ Small file.
  10. Inspect cutting flutes routinely upon removal for presence of unwinding and straightening. If file is unwound more than 180 degrees, discard and use a new EdgeMorphology™ file.
  11. Advance the EdgeMorphology™ Small file passively in the presence of sodium hypochlorite with no more than 2-3 gentle amplitudes approximately 2-5 mm in-and-out and remove file. Irrigate and repeat as necessary to WL in a gentle/passive in-and-out motion (as described above) and then use the EdgeMorphology™ Primary file to working length to optimize the shape\*.  
Upon reaching length, remove the file to avoid over-enlarging the apical foramen.
  12. When the shape is confirmed, proceed with 3-D disinfection protocols.
  13. Use dedicated paper points to dry the root canals and dedicated Gutta Percha points to obturate.
- \* If the EdgeMorphology™ Primary file is loose at length with no dentinal debris in the apical flutes, continue shaping with EdgeMorphology™ Medium and then Large File if needed.

**EdgeMorphology™ Sterilization**

1. After each canal is fully shaped, rinse the canals for 1 minute with EdgeLube 17% Liquid EDTA to remove the canal Smear Layer.
2. Rinse the canals for 5 minutes with EdgeEndo 5% NaOCl to remove debris and bacteria.
3. Rinse the canals for 1 minute with EdgeLube 17% Liquid EDTA to rinse out the 5% NaOCl.
4. Rinse the canals for 5 minutes with EdgeEndo 2% chlorohexidine or EdgeEndo EDTA to kill bacteria



**Orifice    Glider    Small    Primary    Medium    Large**

