

COMPOSITION

The instrument is made of an Annealed Heat Treated (AHT) nickel-titanium alloy brand named Fire-Wire™. All files are constant tapered.

EdgeFile®X5 Indications for Use

These files are used in Endodontics for the removal of dentin and root canal shaping. It is compatible with the GT® and GT Series X® rotary file system and can be used in the same hand piece at the same speed and torque settings.

Contraindications

Like all mechanically driven endodontic instruments they should not be used in cases with very severe and sudden curvatures.

Warnings

- A rubber dam system should be used.
- The rotary files are non-sterile and must be sterilized before patient use.

Precautions

As with all products, use carefully until you become proficient with use. Always determine working length using radiographs and/or apex locator to properly use rotary files.

Important points to remember

1. Use an electric hand piece.
2. Operate rotary files at 300-500 rpm (revolutions per minute).
3. Straight-line access is imperative for proper rotary file use and endodontic treatment.
4. Do not force the files down canals, use minimal apical pressure.
5. Clean the flutes frequently and at least after removing the files from the canal.
6. Irrigate and lubricate frequently the canal throughout the procedure.
7. Take each rotary file to length only one time and for no more than one second.
8. In apical areas and curved canals exercise caution.
9. Rotary files are single patient use devices.
10. When instrumenting the canal, do not over-enlarge the coronal portion of the canal.
11. Too large a file taken to length increases the risk of canal transportation and file separation.
12. **EdgeFile®X5** undergoes our proprietary Annealed Heat Treatment (AHT) forming our branded Fire-Wire™ which increases cyclic fatigue resistance and torque strength. With this proprietary processing, **EdgeFile®X5** files may be slightly curved. This is not a manufacturing defect. While the file can be easily straightened with your fingers, it is not necessary as once they are inside the canal, the **EdgeFile®X5** will follow and conform to the natural canal anatomy and curvatures..

Adverse Reactions

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

STEP-BY-STEP INSTRUCTIONS

Sterilization

Files must be sterilized before use. ANSI/ADA Specification 28 recommends

- Scrub the instruments with soap and warm water.
- Rinse thoroughly with distilled or deionized water.
- Allow to air dry.
- Place the instruments, unwrapped, in an autoclave tray.
- Use fresh distilled or deionized water.
- Steam Autoclave at 136° C (plus or minus 2° C) for 20 minutes.
- **EdgeFile®** rotary files are for single patient use.
- Recommended File Disposal Place used files in a Biohazard Sharps container.

Straight-Line Access

- Create a glide path and determine the working length prior to **EdgeFile®X5** file use by negotiating all root canals to their terminus with stainless steel #10 and #15 hand files and a lubricant.
- Establish patency by taking a #10 K-File 1mm past the canal terminus, and at least a #15 K-File to the terminus.

Safe Unwinding

As a safety feature the files are designed to unwind. They may be used until the files unwind backwards.

EdgeFile®X5 20 Series Shaping and Cleaning

For all canals no matter the canal size, start with a 20/06 Rotary File. Between each rotary file recapitulate with a #10 or #15 tip hand file to maintain glide path and help lubricant to the canal terminus. Take the 20/06 to resistance or working length (whichever occurs first). If resistance is met before reaching the working length then go to a 20/04. Take the 20/04 to resistance or working length (whichever occurs first). If resistance is met before reaching the working length then repeat going from the 20/06 to 20/04 until one of them goes to the working length. If the file that goes to length first contains debris on the last flute, then the canal is a size 20 tip and can be obturated to that corresponding tip and taper with a **EdgeFile®X5** thermal carrier or gutta percha, see Obturation of Canal Systems. If the file did not contain debris on the last flute and was the 20(04), then finish shaping the canal with the 20 Series with lubricant by using the 20(06) then 20(04) until the 20(06) reaches the Working Length, then go to the 30 Series.

EdgeFile®X5 30 & 40 Series Shaping and Cleaning

Take a 30/06 to resistance or working length (whichever occurs first). If resistance is met before reaching the working length then go to a 30/04. Take the 30/04 to resistance or working length (whichever occurs first). If resistance is met before reaching the working length then repeat going from the 30/06 to 30/04 until one of them goes to the working length. If that file contains debris on the last flute, then the canal is a size 30 tip and can be obturated to that corresponding tip and taper with a **EdgeFile®X5** thermal carrier or gutta percha, see Obturation of Canal Systems. If the file does not contain debris on the last flute, then the canal is larger than a size 30 tip and a **EdgeFile®X5 Series 40** tip size is needed. Take the **EdgeFile®X5 Series 40** and alternate between the 40/.06 and 40/04 until one of them is to length and then obturate.

Electric Handpiece

See manufacturer specifications.

Obturation of Canal Systems

- When using a thermal carrier such as **EdgeCore™** or **EdgeFill™ X5**, use size verifiers to determine the proper sized carrier.
- When using a master gutta percha cone that matches the largest file taken to length, remember sometimes you may need to drop down in cone tip size if the corresponding gutta percha to your final rotary file does not go to length.

Speed and Torque for all files

Use the same hand piece with the same speed and torque settings you are currently using with your rotary system. Or if you wish, you can use for all **EdgeFile®X5** rotary files the following speed and torque settings for all files.

Speed	Torque
300-500 rpm	300 g-cm

Reciprocating motors The **EdgeFile®X5** can be used in a clockwise reciprocating motor but not in the WaveOne® reciprocating motor, using the WaveOne® setting, which moves in the counter-clockwise direction. The **EdgeFile®X1** is designed specifically for use in only the WaveOne® reciprocating motor and setting.

