

COMPOSITION

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

EdgeFile®X7 Indications for Use

These files are used in Endodontics for the removal of dentin and root canal shaping. They are compatible with the Vortex®, ProFile®, K3®, Sequence®, TF®, and other 04/06 taper 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®X7** 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®X7** 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®X7** 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®X7** rotary file use by negotiating all root canals to their terminus with stainless steel 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®X7 Crown Down Shaping and Cleaning
04 Taper Crown Down for All Canals**

Start with a 25/04 rotary file. Take the 25/04 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). Repeat going from 25/04 to 20/04 until one of the files go to the working length. On occasion a 17/04 may be needed to be used to reach the working length. Then repeat going from 25/04 to 20/04 until one of the files go to the working length. If this is the tip size you desire, then obturate. If not, take the next largest file to length. Keep taking the next largest size to length until you achieve the tip size you desire, then obturate. Between each rotary file recapitulate with a #10 or #15 tip hand file to maintain glide path and help lubricate to the canal terminus.

06 Taper Crown Down for Straight to Mildly Curved Canals

If a 06 taper is desired use the same 04 Taper Crown Down technique. Start with a 25/06 rotary file. Take the 25/06 to resistance or working length (whichever occurs first). If resistance is met before reaching the working length then go to a 20/06. Take the 20/06 to resistance or working length (whichever occurs first). Repeat going from 25/06 to 20/06 until one of the files go to the working length. On occasion a 17/06 or 17/04 may be needed to be used to reach the working length. Then repeat going from 25/06 to 20/06 until one of the files go to the working length. If this is the tip size you desire, then obturate. If not, take the next largest file to length. Keep taking the next largest size to length until you achieve the tip size you desire, then obturate. Between each rotary file recapitulate with a #10 or #15 tip hand file to maintain glide path and help lubricate to the canal terminus.

Electric Handpiece

See manufacturer specifications.

Obturation of Canal Systems

- When using thermal carriers such as **EdgeCore™ X7** or **EdgeFill™ X7**, 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

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®X7** rotary files the following speed and torque settings for all files.

Speed	Torque
300-500 rpm	300 g-cm

Reciprocating motors The **EdgeFile®X7** 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.

