

CROWN DOWN TECHNIQUE USER GUIDE



X-Plorer File
15/.01

GLIDE PATH:

Establish a glide path or canal patency by taking a #10 handfile, then #15 X-Plorer file (hand or rotary 15/.01) to the estimated working length.

If pre-flaring of the orifice is desired, 40/.06 or 60/.04 or gates glidden drills may be used to resistance.

PATENCY:

If the #10 handfile or X-Plorer file will not go to the working length, use a #6 or #8 handfile to establish canal patency, then use the #10. Throughout the procedure, canal patency should be maintained with hand instruments.



30/.06 30/.04 25/.04 20/.04

CANAL SHAPING: CROWN DOWN TECHNIQUE

Use size 30 X-Factor file (.06 taper) to resistance. Proceed to 30/.04, then 25/.04 to resistance. If 20/.04 does not reach working length, use a 20/.03 or 20/.02 file. When 20/.04 is to working length, use appropriate sizes and shapes for apical finishing.

OPTIONAL ACCESSORY INSTRUMENTS:

- In larger canals: 40/.06 or Gates Glidden Drills can be used to pre-flare canals
- In smaller canals: .04, .03, and .02 taper files can be used

NOTES:

Use a chelating agent/file lubrication medium (EDTA gel such as File-Eze) during instrumentation procedure. Irrigation (Sodium Hypochlorite) should be used repeatedly during the shaping process. High volume and frequent exchange recommended. Files should be run at 300-400 RPM. Motors with a torque protection feature should be set at 200-275 GCM.

XFactor™

Minimally Invasive NiTi Files

The Power of Ten

STEP UP TECHNIQUE USER GUIDE



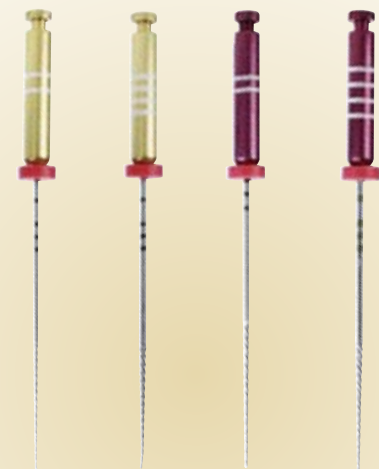
X-Plorer File
15/.01

GLIDE PATH:

Establish a glide path or canal patency by taking a #10 handfile, then #15 X-Plorer file (hand or rotary 15/.01) to the estimated working length.

PATENCY:

If the #10 handfile or X-Plorer file will not go to the working length, use a #6 or #8 handfile to establish canal patency, then use the #10. Throughout the procedure, canal patency should be maintained with hand instruments.



20/.02 20/.04 25/.02 25/.04

CANAL SHAPING: STEP UP TECHNIQUE

Use size 20 X-Factor files (.02, .04 taper) to estimated working length. If the 20/.02 does not reach working length, use optional 15/.01 (X-Plorer file) or 20/.01 to refine the glide path. After 20/.04 has reached working length, you can proceed to 25/.02, then 25/.04. When 25/.04 is to working length, you can proceed to larger, apical sized files for refinement of shape.



30/.04 40/.04

LARGER APICAL SIZES

OPTIONAL ACCESSORY INSTRUMENTS:

- 30/.06; 25/.06 (Orifice Opener)
- 30/.06; 25/.06 (Deep Apical Shaper)
- For smaller canals .01, .02, and .03 tapers can be used

NOTES:

Use a chelating agent/file lubrication medium (EDTA gel such as File-Eze) during instrumentation procedure. Irrigation (Sodium Hypochlorite) should be used repeatedly during the shaping process. High volume and frequent exchange recommended. Files should be run at 300-400 RPM. Motors with a torque protection feature should be set at 200-275 GCM. For large canals, you may bypass the 20 series and begin with size 25.

XFactor™

Minimally Invasive NiTi Files



CLINICAL RESEARCH DENTAL
SUPPLIES & SERVICES INC.

1-800-265-3444

www.clinicianschoice.com

from
CLINICIAN'S CHOICE®
DENTAL PRODUCTS INC.

designed for better dentistry

XFactor™

Minimally Invasive NiTi Files

In order for Nickel Titanium files

to help accomplish the objectives of root canal therapy, they must provide safety, torsional strength and flexibility, efficient cutting, and appropriate sizing to suit all canal morphology. This must all be accomplished without removing ANY unnecessary tooth structure. That is the X-Factor.

The Power of "10"

X-Factor™ NiTi files accomplish all of these objectives. The key to this is 10. Each X-Factor instrument has a patented (pending) design with a TEN (X) millimeter fluted cutting zone, unlike most rotary files which have a 16mm (or greater) fluted portion. The benefits of this design feature are:

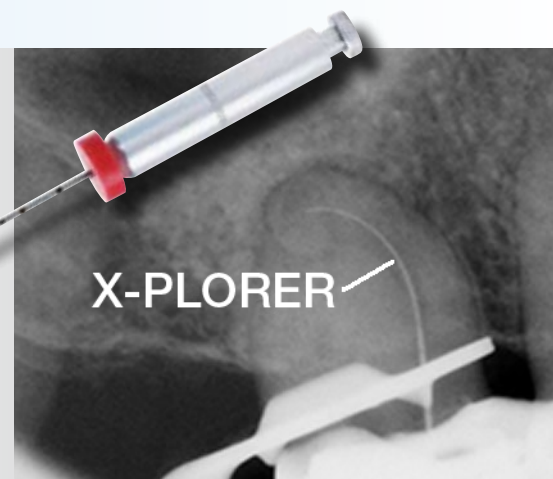
- Less of the file engaged means less stress on the file. Less stress on the file means less chance of breakage.
- A specific, identified portion of the file is engaged, not just spinning in the pulp chamber or removing unnecessary tooth structure as the apical portion of the file navigates the canal.
- The operator is more aware of the shape dimensions throughout the procedure, as the diameter of the orifice is easily calculated (taper x 10 + tip diameter). It is easy to know the canal diameter at ANY point in the root, improving confidence in file selection.
- Less is more. A defined cutting zone means more safety, more precision, and more confidence in a less invasive shape.

XPlorer™

Minimally Invasive Ni-Ti Files

In the X-Factor series is a unique glide navigation file – the X-Plorer. This 15/.01 file will help you to negotiate working length more quickly and efficiently. With X-Plorer, now you can...

- Easily transition from #8 and #10 files, with a flexible file of lesser taper
- Find the working length with added efficiency and flexibility
- More durable than typical glide path instruments, capable of negotiating tortuous anatomy.
- X-Plorer file is available as a rotary or hand file



The X-Plorer in actual clinical use in an extremely curved canal.

The Right Shape for Each Case

While most root canals can be instrumented with just a few X-Factor instruments, key sizes (20, 25, 30, 40 and 60) and a variety of tapers (.01, .02, .03, .04 and .06) are available to suit the most common and uncommon canal shapes.

Choose a small sequence for a "crown down" approach or a less invasive "step up" sequence (see technique sequence on back panel).

Small tapers (.01 and .02) can be used for extremely small canals, and for apical gauging.

A variety of tapers can be used in order to avoid "taper lock" or to provide transitional instruments for other file systems.

Whatever you need, X-Factor has just the right size to tailor your instrumentation to the needs of the tooth, rather than imposing a "system" (and its limitations) on the root canal.

Unique Features

- Size determination has never been easier
- Advanced design: no "screw-in" effect
- Shaft is parallel above the flutes for greater visibility and more efficient debris removal
- Torsional strength of X-Factor instruments well exceeds industry and ADA standards (comparisons available upon request)
- Strength: X-Factor files have a square cross-section with an inner core that is 50% of the file, as much as 18% greater than files with a triangular cross-section
- Laser etched calibration rings do not weaken the instrument
- Environmentally-friendly manufacturing process. Neither the X-Factor, nor any of its materials, are subjected to harsh chemical processes that jeopardize the integrity of the product.
- Over 100 years of combined dental and manufacturing knowledge are behind the design and production of X-Factor Minimally Invasive NiTi Files

Handle identifies the file size

Stripes on handle identify the taper

Laser etched calibration rings

Parallel shaft provides increased flexibility and improved debris removal

10mm fluted cutting zone



CLINICAL RESEARCH DENTAL
SUPPLIES & SERVICES INC.

1-800-265-3444

www.clinicianschoice.com