



- > Prolonging the life of the instrument more than recommended may result in the blade breaking.
- > Dispose the file which appear to be defective.

5. Clinical instruction for use



- Rinse the canal each time after the file is used.
- Clean the files of any debris frequently.

Endostar E3 Basic Rotary System

A. Cavity preparation.

Prepare the cavity. Use a rubber dam.

B. Location of canals.

Locate all canal orifices. Lubricate the canals.

C. Specifying the working length of the canal.

Specify the working length of the canal using your method of choice.

D. Preparing the canal with hand instruments.

Continue the negotiation of the root canal with hand files up to size 20. This way, you will create a glide path for rotary instruments. This will also reduce the risk of breaking the rotary file.

E. Preparation of the upper part of the root canal.

Shape the canal orifice with the Endostar E3 Basic File No. 1 (08/30) until you reach a maximum of 1/2 of the total canal depth. Do not use this file when the canal is highly curved (in such cases use the Endostar E3 Small Apical Rotary System).

F. Preparation of the middle part of the root canal.

Begin to work with file No. 2 (06/25). Perform up-and-down movements. Shape the canal up to 2/3 of the working length. Inspect the working length with the size 15 hand file and apex locator. Next, insert file No. 2 at full working length.

G. Shaping of the apical part of the root canal.

Use file No. 3 (04/30) to widen the apical part of the canal until full working length is reached. Confirm that full working length was reached with hand file size 15 and apex locator. Next, finish work with a nickel-titanium hand file size 30. Check if the file can be inserted at full working length without obstructions, and if wedging can be felt. If a wider preparation of the apex is needed, continue to work with larger hand instruments size 35, 40 etc. or consider using the Endostar E3 Big Apical Rotary System.

Endostar E3 Big Apical Rotary System

- A. After preparation of the canal with the use of file No. 3 from the set of Endostar E3 Basic is completed, evaluate apex width. For this purpose, use a size 30 NiTi hand file. Insert it at full working length and gently twist it. If the file rotates - this means that the canal is wider than size 30 and should be expanded.
- B. Shape the canal with instrument No. 1 from the Endostar E3 Big Apical Rotary System (04/35) until full working length is reached.
- C. Shape the canal by inserting instrument No. 2 (04/40) at full working length.
- D. Check the width of the tip using a size 40 NiTi hand file. Insert the instrument at full working length and apply a gentle twist. If the instrument does not rotate, stop shaping the canal. However if the instrument still rotates - continue with shaping.
- E. Shape the canal using instrument No. 3 from the Endostar E3 Big Apical Rotary System (04/45) until you reach full working length.
- F. Check the apex width with a size 45 NiTi hand file. Insert the instrument at full working length and apply a gentle twist. If the instrument does not rotate, stop shaping the canal. However if the hand file does rotate, continue shaping with larger-sized NiTi hand files such as size 50, 55, 60 etc.

Endostar E3 Small Apical Rotary System

- A. Prepare the cavity, locate the orifices and specify the working length of the canal. Next, prepare the canal with hand instruments as specified in the Endostar E3 Basic Rotary System clinical instruction.
- B. Preparation of the upper part of the root canal.
Shape the canal orifice with the use of the Endostar E3 Basic Rotary System No. 1 (08/30) file until delicate resistance is detectable. Do not apply excessive force to the instrument especially in highly curved canals.
- C. Preparation of the middle portion of the root canal.
Begin to work with file No. 2 from the Endostar E3 Basic Rotary System (06/25). Perform up-and-down movements. Work to maximum of 1/2 of working length. Inspect the working length with the size 15 hand file and apex locator. Next, with the use of file No. 3 which is part of the E3 Basic Rotary System (04/30), try to go a few millimeters deeper down the canal. If the file cannot go deeper down the canal, do not force it. Finish the preparation with the Endostar E3 Basic Rotary System and continue with the Endostar E3 Small Apical Rotary System.
- D. Shaping of the apical part of the root canal.
With the use of file No. 1 from the Endostar E3 Small Apical Rotary System (06/20) shape the canal a few millimeters down. Do not force the instrument down the canal. Take file No. 2 (04/25) and continue to shape the canal. Stop working 2 mm before reaching full working length. Use file No. 3 (04/20) until full working length is reached. File No. 3 (04/20) allows shaping even of very narrow and extremely curved canals. Next, go back to file No. 2 (04/25) and use it until full working length is reached.
- E. Widening the root canal.
After checking the apical width with the NiTi file, consider widening the canal with file No. 3, which is part of the Endostar E3 Basic Rotary System (04/30) set. Skip this step in extremely curved canals and finish shaping at size 04/25.

6. Warnings

This product is for professional dental use only.

7. Cleaning and disinfection

Detailed instructions for cleaning, disinfection and sterilization can be found on the website www.poldent.pl and www.endostar.eu in the download tab.

8. Sterilization

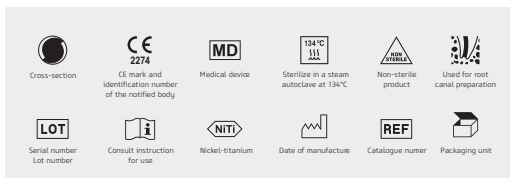
This is a non-sterile product. Sterilize before use. The instruments can be sterilized in a steam sterilizer (autoclave) at 134°C. Recommended sterilization time: 3 minutes at 2.1 bar overpressure. Instruments can be disinfected with mild disinfectants and washed in ultrasonic cleaners.

9. Storage

Instruments should be stored at room temperature in a dry, dust-free and clean environment.

10. Product claims

Please notify the distributor and manufacturer of any claims or adverse events which occurred as a result of operating this device. Each **serious** incident connected with this product should be reported to the manufacturer and the competent authority of the Member State in which the user is established.



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