

# RE RE ENDO ROTARY SYSTEM

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endo★star



## Instruction for use

### Endostar RE Re Endo Rotary System

#### 1. Important information regarding the system

Endostar RE Re Endo Rotary System is a rotary system used to efficiently remove old fillings from the canal during root canal retreatment. The kit contains 4 instruments, with tapers from .04 to .12 and size 30. It was designed to work with the crown-down technique.

The kit includes:

- > Two K-type files with a square cross-section, with 4 cutting edges and good elasticity.
- > Two files with a S-type blade with two edges distributed symmetrically 180 degrees to the axis of symmetry and a cutting root canal at an angle of 90 degrees. They present with great cutting ability, a non-cutting tip and very good elasticity.
- > A handpiece, which can provide 150-300 rpm, should be used. The operating speed of the handpiece should be constant throughout the shaping process.
- > Do not apply excessive force. An up-and-down motion should be used when operating the files.
- > Shaping time should be as short as possible.
- > Always use a lubricating agent when shaping the canal.
- > The files are very sharp and should be used very carefully, with little force and without excessive "pushing" down the canal.
- > Operate the instruments and handpieces according to their operating instructions (especially torque and speed settings).
- > Use the type and number of instruments that is truly needed in a given clinical situation.
- > Control the amount of times that the instrument was used.
- > Before using the instruments, be sure to see them working outside the oral cavity to check for deformations, and/or cracks.
- > Dispose of as medical waste.

#### 2. Recommended movements

- > **Rotary movement** - the instrument rotates continuously 360° in a clockwise direction (CW - Clock Wise).

#### 3. Recommended torque settings

File number	Torque (Ncm)	File number	Torque (Ncm)
1 (12/30)	3.0 - 4.0	3 (06/30)	1.0 - 2.0
2 (08/30)	2.0 - 3.0	4 (04/30)	0.5 - 1.0

Files should be used with motor speed between 150 and 300 rpm.

The torque settings indicated in the table above are only suggestions and may vary according to each user preferences and endodontic motor capabilities. Do not exceed the upper torque limit which is different for each instrument. If precise torque settings cannot be set, and only manufacturer-specific torque levels are available, be sure to select one that does not exceed the recommended limit.

#### 4. Recommended number of usage

Maximum of 5-10 times, depending on the size (see Table), provided that visual inspection performed by the practitioner prior to use shows that the instrument remains undamaged, is not bent, deformed, does not show signs of blade wear and can be securely attached to the handpiece. If the file has been subjected to high torsion force, especially in highly curved canals the instrument should be used only one.

File number	1 (12/30)	2 (08/30)	3 (06/30)	4 (04/30)
Number of times that the instrument can be used	10	10	5	5



- > 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.

- A. Make sure you have proper access to the gutta-percha filled canal.
- B. Add a few drops of the gutta-percha dissolving agent.
- C. Use the Endostar RE Re Endo Rotary System - numbers 1-4 combined with the crown-down technique. Starting with file No. 1, then work your way down to file No. 4.
- D. Make sure the old filling is entirely removed from the canal. We recommend that an x-ray image is taken.
- E. Perform final cleaning of the canal. Rinse with solutions normally used for canal rinsing during endodontic treatment.

#### 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](http://www.poldent.pl) and [www.endostar.eu](http://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.

Cross-section	CE mark and identification number of the notified body	Medical device	Sterilize in a steam autoclave at 134°C	Non-sterile product	Used for root canal preparation
Serial number Lot number	Consult instruction for use	Nickel-titanium	Date of manufacture	Catalogue number	Packaging unit

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