

# USER MANUAL

## T-ENDO MUST NICKEL TITANIUM ROOT CANAL FILE

### 1. PRODUCT INFORMATION

Only for use in professional dentistry. A dental instrument used for creating an entrance to root canal and expanding and cleaning the space at part of root canal from apical to coronal.

### 2. PACKING

- T-endo MUST files are offered in sterile packages in blisters of 4.
- Produced in 4 different widths as tg (13/04) – m25 (25/06) – m40 (40/04) and m50 (50/04).
- Product shelf life is 3 years.

### 3. USE

It is used by attaching to tip of endodontic engines (WOODPECKER AI MOTOR, VDW GOLD RECIPROC, DENSTPLY XSMART, etc.) that move reciprocal counterclockwise or reciprocal endodontic angle drives for cleaning and shaping canals of canal treatment patients.

### 4. INDICATIONS

T-endo MUST files are used for expanding and shaping and mechanical cleaning of root canals during root canal treatment.

### 5. CONTRAINDICATIONS

T-endo MUST files do not have any known contraindication.

### 6. WARNINGS

- T-endo MUST files are sterile. Do not use products with damaged package or opened because their sterilization is lost. T-endo MUST files are produced only for dentists, suitable for professional use.
- T-endo MUST files cut counterclockwise, for this reason T-endo files must be used with torque controlled endodontic engines that reciprocate counterclockwise and at angles not equal to clockwise.
- During root canal shaping procedure, grooves on T-endo MUST files must be constantly cleaned. Do not use files again if you see any deformation on any file. Files are suitable up to three uses (at < 10° curved canals). Avoid excessive use.
- Ideal speed so that T-endo MUST files can make appropriate root canal expansion is 300 rpm.
- Ideal rotation angle so that T-endo MUST files can make appropriate root canal expansion is 160 degrees counterclockwise and 40 degrees clockwise.
- T-endo MUST files should be used with light apical pressure; extreme pressure should not be applied towards apical.
- T-endo MUST files should be used carefully at root canals showing double curvature and having sudden branching inside.
- For your own safety, use protective equipment such as gloves, mask and goggles during use of T-endo files.

### 6.INSTRUCTIONS FOR APPLICATION

- A glide path should be created with T-endo MUST tg files.
- T-endo MUST files should be used with 2 mm pecking motion, downward and upward.
- T-endo MUST files should be made to cut by squeezing into root canals passively.
- In case of any deformation during use of T-endo MUST files, they should not continue to be used for root canal shaping procedure, they should be replaced immediately.
- During root canal shaping procedure, when T-endo MUST files are removed from root canal, root canals should be irrigated abundantly.













### 7. STORAGE CONDITIONS

Files should be stored between 10 and 20 centigrade degrees.

### 8. STERILIZATION AND DISINFECTION

Files are in sterile blisters. If no deformation is seen after use, files may be used by sterilizing at 134 centigrade degrees for 4 minutes at steam sterilization. Use and sterilization of deformed files with diminished cutting efficiency or used more than three times is not recommended. All instruments have to be cleaned, disinfected and sterilized prior to each use; this applies to instruments intended to be used again and delivered in sterile condition and have damaged or opened sterile package. In debt cleaning and disinfection is mandatory for efficient sterilization. In order to clean impurities manually, use a soft, clean brush or soft, clean cloth that would be used only for this purpose; under no circumstances use metal brush or wire wool. Make sure that there is no visible impureness or residue and repeat preliminary cleaning process if needed.

### 9. SYMBOLS

	Use by date
	Manufacturer
	Refer to instruction of use
	Lot number
	Asorti blister
	Nickel Titanium
	Autoclavable
	Sterilized
	Do not use if the package is damaged
	Temperature indicator
	Caution
	CE Standart