

endo★star **SPREADER SONIC FILES****1. Description:**

Endostar Spreader Sonic Files are instruments recommended for irrigation and disinfection of root canals. They can be used also during the removal of broken instruments from root canal. Sonic Files can be used only with ultrasound devices.

- made of special stainless steel,
- use of cavitation,
- sonic files are designed to be used: up and down,
- activation of root canals irrigants.

**Important warnings:**

- Endostar Spreader Sonic files are designed for devices like Endo-Chuck 120° or 95° (f.e. Endostar Sonic File Holder 120° or 95°).
- It is not recommended to use Endostar Spreader Sonic Files for enlarging root canals.
- It is recommended to rinse the canal with sodium hypochlorite.
- It is recommended to use ultrasound with minimum power to control the possibility of breakage the file in the canal.
- File in canal should be passively move up and down (never by force) not to succumb to its curvature or stucked in the canal.
- It is not recommended to use other energy source while using ultrasonic device.
- Ultrasonic files should be placed into the root canal always in standby mode, approx. 1-2 mm shorter than the working length. Only then we could turn on ultrasound device.
- Ultrasound is ineffective in narrow, curved canals because file contact with root canal wall stops its effectiveness. Therefore, use Endostar Spreader Sonic Files in previously treated and expanded canals. It is important to enlarge root canal to at least ISO size 20.

**2. Recommended number of use:**

Maximum of 1-3 times, depending on the size (see Table 1), 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. Prolonging the life of the instrument more than recommended may result in the blade breaking.

Table 1

File No	25	30	35
Number of times that the instrument can be used:	1-2	2-3	2-3

### 3. Instruction for irrigation and disinfection of root canal:

1. Fill the root canal with wash solution - sodium hypochlorite (circa 1-2 ml).
2. Enter the file to the canal - 2 mm shorter than the working length (leave a small gap, a small space at the tip/apex).
3. Turn on ultrasound device.
4. Activate hypochlorite for 20 seconds, moving with a small amplitude moves (1-2 mm) with a file Endostar Spreader Sonic Files in the canal. Replace hypochlorite for the fresh one (about 1-2 ml). Reactivate the solution for 20 seconds. Again, replace solution for the fresh one. For the third time activate hypochlorite for 20 seconds.

### 4. Cleaning and disinfection:

Detailed instructions for cleaning and disinfection can be found at [www.poldent.pl](http://www.poldent.pl) and [www.endostar.eu](http://www.endostar.eu).

### 5. 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 35-40 minutes. Instruments can be disinfected with mild disinfectants and washed in ultrasonic cleaners. Very aggressive disinfectants may cause a marking discoloration.

### 6. Storage:

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

### 7. Warnings:

Only for dental use.

	CE mark and identification number of the notified body
	Sterilize in a steam autoclave at 134 ° C
	Non-sterile product
	Used for root canal preparation.
	Serial number/ Lot number

	Consult instruction for use
	Stainless steel

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