

Recommended number of usage of instruments for root canal treatment



INSTRUMENTS FOR CANAL TREATMENT according to ISO size - MAXIMUM recommended number of usage of ONE INSTRUMENT in the root canal. Instruments can be used many times, provided that the visual inspection performed by the dentist prior to next usage shows that the instrument remains undamaged, it is not bent (does not apply to pre-bending by the dentist), deformed, blade does not show signs of wear and is firmly fixed in the shank.

Instrument name/ ISO Size	06	08	10	15	20	25	30	35	40	45	50
Endostar S-files	1	1	1	1-2	1-2	1-2	2-3	2-3	2-3	4-5	4-5
Endostar NiTi S-files	-	-	2	2-3	2-3	2-3	4-5	4-5	4-5	6-8	6-8
Endostar H-files	1	1	1	1-2	1-2	1-2	2-3	2-3	2-3	4-5	4-5
Endostar NiTi H-files	-	-	-	2-3	2-3	2-3	4-5	4-5	4-5	6-8	6-8
Endostar K-files	1	1	1	1-2	1-2	1-2	2-3	2-3	2-3	4-5	4-5
Endostar NiTi K-files	-	-	-	2-3	2-3	2-3	4-5	4-5	4-5	6-8	6-8
Endostar K-reamers	1	1	1	1-2	1-2	1-2	2-3	2-3	2-3	4-5	4-5
Endostar NiTi K-reamers	-	-	-	2-3	2-3	2-3	4-5	4-5	4-5	6-8	6-8
Endostar Finger Spreaders	-	-	-	1-2	1-2	1-2	2-3	2-3	2-3	-	-
Endostar NiTi Finger Spreaders	-	-	-	2-3	2-3	2-3	4-5	4-5	4-5	-	-
Endostar Finger Pluggers	-	-	-	1-2	1-2	1-2	2-3	2-3	2-3	-	-
Endostar NiTi Finger Pluggers	-	-	-	2-3	2-3	2-3	4-5	4-5	4-5	-	-
Endostar Canal Locator	1	1	1	-	-	-	-	-	-	-	-

Instrument name/ ISO Size	55	60	70	80	90	100	110	120	130	140
Endostar S-files	4-5	4-5	4-5	4-5	8-10	8-10	8-10	8-10	8-10	8-10
Endostar NiTi S-files	6-8	6-8	6-8	6-8	-	-	-	-	-	-
Endostar H-files	4-5	4-5	4-5	4-5	8-10	8-10	8-10	8-10	8-10	8-10
Endostar NiTi H-files	6-8	6-8	6-8	6-8	-	-	-	-	-	-
Endostar K-files	4-5	4-5	4-5	4-5	8-10	8-10	8-10	8-10	8-10	8-10
Endostar NiTi K-files	6-8	6-8	6-8	6-8	-	-	-	-	-	-
Endostar K-reamers	4-5	4-5	4-5	4-5	8-10	8-10	8-10	8-10	8-10	8-10
Endostar NiTi K-reamers	6-8	6-8	6-8	6-8	-	-	-	-	-	-

Endostar Barbed Broaches:

Size:	Recommended number of usage:
00	1
01	2-3
02	2-3
03	2-3
04	4-5
05	4-5
06	4-5

Endostar Unique S-files/Endostar Unique K-files:

Size:	Recommended number of usage:
12,5	1-2
17,5	1-2
22,5	1-2

Endostar E3 Basic Rotary System, Endostar E3 Small Apical Rotary System, Endostar E3 Big Apical Rotary System, Endostar RE Re Endo Rotary System, Endostar NT2 NiTi Two Rotary System:

Files with taper 2, 4, 6 should be used maximum of 5 times, and files with taper 8 and 12 may be used up to 10 times.

Endostar Peeso Reamers/Endostar Gates Glidden:

Size:	Recommended number of usage:
01	5
02	5
03	5
04	10
05	10
06	10

Endostar Spreader Sonic Files:

Size:	Recommended number of usage:
25	1-2
30	2-3
35	2-3

Endostar Paste Fillers with safety spring (PFL)/Endostar Paste Fillers without spring (PFN):

Size:	Recommended number of usage:
25	1-2
30	4-5
35	4-5
40	4-5

Endostar E3 Azure (versions: Basic, Small, Big, Protector)/Endostar REvision:

Instruments can be sterilized and used many times, provided that the visual inspection performed by the dentist prior to next usage shows that the instrument remains undamaged, it is not bent, deformed, does not show signs of blade wear and can be securely attached to the handpiece. The special attention has to be paid to the excessive unwinding (or winding) of the instrument. The instrument flutes should be regularly spread along the entire length of the blade. If at some point of the blade, the flutes are too close or too far apart (there is no regularity in the flutes pitch as compared to an unused instrument), this means that instrument can break in the canal. It is very important to notice any permanent deformations on the instrument, especially those, when the instrument curvature does not have the form of a smooth arc, but is sharply bent and has a visible breaking point. Re-usage of such an instrument can lead to its breaking. The heat-treated NiTi alloy naturally allows these instruments to be bent in the form of a smooth arc. In case of doubt, the file can be placed in any environment (fluid, air) at a temperature slightly above 40 C for a few seconds. The blade should straighten or remain smoothly curved. If the file is still deformed, it means it is permanently damaged and must not be used again. After each usage, check that the blade is securely fixed in the shank. If the file has been subjected to a high torsion force, especially in highly curved canals, the instrument should be used only once.

Endostar EP Easy Path:

Endostar EP Easy Path instrument can be sterilized and used many times, provided that the visual inspection performed by the dentist prior to next usage shows that the instrument remains undamaged, it is not bent, deformed, does not show signs of blade wear and can be securely attached to the handpiece. The special attention has to be paid to the excessive unwinding (or winding) of the instrument. The instrument flutes should be regularly spread along the entire length of the blade. If at some point of the blade, the flutes are too close or too far apart (there is no regularity in the flutes pitch as compared to an unused instrument), this means that instrument can break in the canal. It is very important to notice any permanent deformations on the instrument, especially those, when the instrument curvature does not have the form of a smooth arc, but is sharply bent and has a visible breaking point. Re-usage of such an instrument can lead to its breaking. The heat-treated NiTi alloy naturally allows these instruments to be bent in the form of a smooth arc. In case of doubt, the file can be placed in any environment (fluid, air) at a temperature slightly above 28 C for a few seconds. The blade should straighten or remain smoothly curved. If the file is still deformed, it means it is permanently damaged and must not be used again. After each usage, check that the blade is securely fixed in the shank. If the file has been subjected to a high torsion force, especially in highly curved canals, the instrument should be used only once.

⚠ WARNING!

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

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