

H-FILES ●



Size	Tip dia.	Size	Tip dia.	Size	Tip dia.	Size	Tip dia.	Size	Tip dia.
06	0.06	20	0.20	40	0.40	60	0.60	15-40	
08	0.08	25	0.25	45	0.45	70	0.70	45-80	
10	0.10	30	0.30	50	0.50	80	0.80	90-140	
15	0.15	35		55	0.55				

K-FILES ■



REAMERS ▲



H-FILES ●

- Very large helix angle with zero rake; cuts best on a push-pull stroke.
- Round cross-section.
- Barbed flutes: work to the apex, then withdraw.
- Removes bulky debris; also lifts pulp tissue, filling material and cotton from the canal.
- Silicone stop fitted; size clearly marked.

K-FILES ■

- Large helix angle; cuts better on a straight filing stroke than on a reaming one.
- Rhomboid cross-section.
- Produces finer debris than an H-file.
- Filed towards the apex, to remove dentine and smooth the canal wall.
- Silicone stop fitted; size clearly marked.

REAMERS ▲

- Smaller helix angle; cuts better on a reaming action than on a straight filing stroke.
- Triangular cross-section.
- Produces coarser debris.
- Used with a reciprocating rotation to cut dentine within the canal.
- Silicone stop fitted; size clearly marked.

Length: 18 / 21 / 25 / 28 / 31 mm
Assorting size: 15-40, 45-80, 90-140
Material: Stainless steel / NiTi
Package: 6 pcs / case

D Files

Size	Tip dia.	Size	Tip dia.
08	0.08	12	0.12
10	0.10	15	0.15

- For retreatment, and for curved, narrow or calcified canals in the middle and apical thirds.
- Smooth flutes resist binding against the canal wall and open a path ready for preparation.
- Maximum rotation 30 degrees.

Length: 21 / 25 mm
Material: Stainless steel
Package: 6 pcs / case

C+ FILES

Size	Tip dia.	Size	Tip dia.
06	0.06	13	0.12
08	0.08	15	0.15
10	0.10		

- For calcified canals.
- Rigid, hard-tempered body.

Length: 21 / 25 mm
Material: Stainless steel
Package: 6 pcs / case

SPREADERS/PPREADERS

Size	Tip dia.	Size	Tip dia.	Size	Tip dia.
15	0.15	30	0.30		
20	0.20	35	0.35	15-40	
25	0.25	40	0.40		

- Supplied as lateral spreaders and vertical pluggers.
- Spreaders are used for lateral compaction of the canal filling.
- Pluggers are used for vertical compaction of the canal filling.

Length: 21 / 25 mm
Assorting size: 15-40
Material: Stainless steel / NiTi
Package: 6 pcs / case

BARBED BROACHES WITH SHANK

Size	Size	Size
0	3	6
1	4	0-6
2	5	1-6

- Plain broaches can be too long for molar pulp extrusion; the handled version comes in two lengths.
- Evenly formed barbs and good flexibility.
- Colour-coded handles identify the size.

Length: 21 mm / 25 mm
Assorting size: 0-6
Material: Stainless steel
Package: 6 or 10 pcs / case

PASTE CARRIERS

Size		Size	Tip dia.
25	0.25	40	0.40
30	0.30	25-40	
35	0.35		

- For carrying medicament into the canal.
- A close-wound spring at the handle absorbs vibration and resists fracture; withdraw slowly, still rotating.
- Can be autoclaved.

Length: 21 / 25 / 29 mm
Assorting size: 25-40
Material: Stainless steel / NiTi
Package: 4 pcs / case

PEESO REAMERS

Size	Tip dia.	Size	Tip dia.	Size	Tip dia.
1	0.70	4	1.30	1-6	
2	0.90	5	1.50		
3	1.10	6	1.70		

- Rings on the shank identify the size at a glance.
- Safe-ended, non-cutting tip.
- The rounded tip helps avoid ledging and perforation.

Length: 28 / 32 / 38 mm
Assorting size: 1-6
Material: Stainless steel
Package: 6 pcs / case

BARBED BROACHES

Size	Thickness/mm	Total length
0#	0.42	52mm
00#	0.36	
000#	0.30	

- Evenly formed barbs and good flexibility.

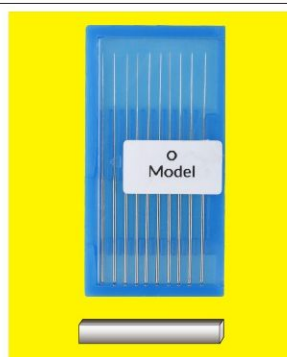
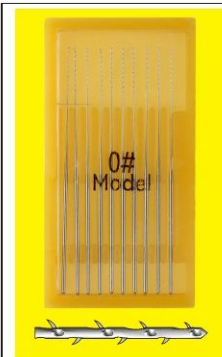
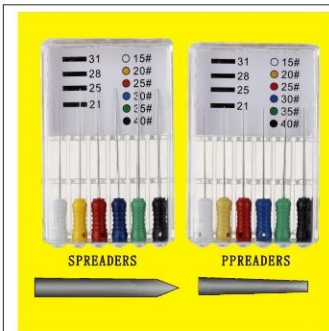
Material: Stainless steel
Package: 10 pcs / case

BARBED BROACHES

Size	Thickness/mm	Total length
0#	0.21	52mm
00#	0.18	
000#	0.15	

- Explores the canal direction and gauges its length and width; cotton can be wound on the tip to clean or dry the canal.
- Highly corrosion-resistant, with both flexibility and hardness.

Material: Stainless steel
Package: 10 pcs / case



PROTAPER

Size	SX	S1	S2	F1	F2	F3	F4	F5
Taper	3.5-19	02-11	04-12	07	08	09	06	05
Tip dia.	19	17	20	20	25	30	40	50
Length	19mm	21mm/25mm/28mm/31mm						
Torque	3.0N.cm	3.0N.cm	1.0N.cm	1.6N.cm	2.0N.cm	2.0N.cm	2.0N.cm	2.0N.cm
Speed	Blue: 250-350 rpm				Gold: 150-300 rpm			



R Type — variable taper system, 6 per set

SUPER FILES (NITI heat activation)

Size	SX	S1	S2	F1	F2	F3	F4	F5
Taper	3.5-19	02-11	04-12	07	08	09	06	05
Tip dia.	19	17	20	20	25	30	40	50
Length	19mm	21mm/25mm/28mm/31mm						
Torque	3.0N.cm	3.0N.cm	1.0N.cm	1.6N.cm	2.0N.cm	2.0N.cm	2.0N.cm	2.0N.cm
Speed	Blue: 250-350 rpm				Gold: 150-300 rpm			

Operating steps

- Establish straight-line access through the crown.
- Negotiate and explore the canal with 10# and 15# hand K-files.
- Enlarge the coronal third with S1, using SX if needed; go no deeper than the 15# K-file. Recommended speed 300 rpm.
- Measure and confirm the working length with a 15# K-file.
- Use S1, S2 and F1 in turn under irrigation, withdrawing every 1-2 mm until the file no longer advances - that is, prepared to working length.
- Prepare to working length with F2, the recommended minimum apical instrument, then re-measure the apical constriction.
- In wide canals, follow with F3 to working length.



TC Type — constant taper system, 5 per set

SUPER FILES (NITI heat activation)

Size	17#	15#	20#	25#	30#	35#	40#
Taper	8%	3%	4%/6%	4%/6%	4%/6%	4%/6%	4%/6%
Torque	3.0N.cm	0.8N.cm	1.0N.cm	1.5N.cm	2.0N.cm	2.0N.cm	2.0N.cm
Speed	250	200	250	250	300	300	300

Rotary TC system — operating steps

- Pre-file with the orifice opener to about one third of the canal length.
- Negotiate the canal with a 10# hand K-file and measure the length.
- Negotiate and enlarge with a 15# hand file.
- Establish a smooth glide path with the rotary glide-path file.
- Recapitulate with a 10# hand file and irrigate.
- Prepare with the yellow 04 taper 20# rotary file.
- Prepare with the red 04 taper 25# rotary file.
- In wide canals follow with 05 taper 30#, 35# and 40# in turn, until the canal is a smooth, even cone.

Cautions

- Irrigate at every file change - sodium hypochlorite is recommended. Break up debris with a 15# hand K-file and lubricate with EDTA gel.
- Keep the apical third well lubricated at all times.
- Sterilise before use: steam at 126°C for 30 minutes, rinse for 10 seconds in 0.9% NaCl saline, then air-dry.



Deciduous files, 3 per set

Size / Length	17mm20#	17mm25#	17mm30#	Mixed
Torque	1.0N.cm	1.5N.cm	1.5N.cm	
Speed	200	250	300	
Taper	4%	4%	4%	
Deciduous				

