FANTA DENTAL

PROFESSIONAL PRECISE RELIABLE

FANTA® DENTAL MATERIALS

ENDODONTIC PRODUCTS CATALOGUE

WWW.FANTA-DENTAL.COM

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OUR COMPANY

PRODUCTS

▶ PREPARATION

● ROTARY FILES

PRODUCT LINE SOUND
ONE-STOP SERVICE

FANTA DENTAL MATERIALS ®

PRODUCT LINE

For different clinical requirements, our product line is so complete. We develop and design our own research including shedding, dredging, preparation, re-treatment and files especial for deciduous teeth, for bypass a ledge and for cleaning. We issued the first preparation kits containing path file in 2014, issued preparation kits containing two sets of path files in 2017, and preparation kits containing three sets of path files in 2019. What's more, we pay more attention for safe dredging and high-efficiency preparation.

ONE-STOP SERVICE

The urgent need for one-stop products and services. We focus on root canal materials, instruments religion, kinds of NiTi instruments, stainless steel instruments, orthodontic appliance and arch wire of orthodontic product. Nowadays, our staff exist in every country, to accompany with China's dentists and dentists around the world in the future.

LEADING DESIGN CONCEPTS AND TECHNOLOGIES

CONCEPTS

Our design concepts are based on clear, practical, actual needs from clinic dentist. Our AF™F-One, is a preparation sequence according to yellow, red and green. Thus, it gets a lot affection from dentists. As for our AF™ CL, it's suitable for experienced professional root canal dentists due to difficult comprehension. We designed different products for respective new- comings and professors, specially for a growing path for new-comings.

TECHNOLOGIES

TECHNOLOGIES

Under the strong support of the government and financial institutions, our all equipment is made with superior are upper made procession and control precision. Our R&D team, aiming to each production link and quality-control loop, have promoted super high level's production line in China, fully automatic control and minimize system error made by worker.

QUALITY & PRODUCT CONTROL

QUALITY

At present, we possess 600 high precision CNC grinders, turning machines, our core team have operated advanced grinding technologies for 25 years. Compared to other industry whose tolerance of precision control could up to 0.02mm, our tolerance of precision control could up to 0.002mm which might catch up or surpass international top level.

PRODUCT CONTROL

We are determined not only to produce good quality product, but also to produce good quality product for each one. On the road to excellence, our R&D team always focus on technology and details, and supervise every quality control step. To reform automatic control equipment, we've invested a huge fund and transferred desk checking to thorough electronic measurement and control gradually. It's our long term management idea to abandon any deficient instrument. Our percentage of market coverage become higher and higher.

R&D STRENGTH KEEPS PACE WITH THE TIMES

R&D:We've invested a huge sum of fund on product R&D that we have our own R&D center, over 10% output value will be invested product R&D and innovation every year.

Including electronic R&D team, polymer team and digital team, all of them are flourish continuous.

The progress and innovation of products is endless, and we will always keep our mind, keep our fearlessness and keep our courage.

FANTA® DENTAL MATERIALS

PREPARATION

1

ROTARY FILES

TIGER™ HAND FILES

OTHER HAND INSTRUMENTS

EQUIPMENTS

C-PATH ROTARY

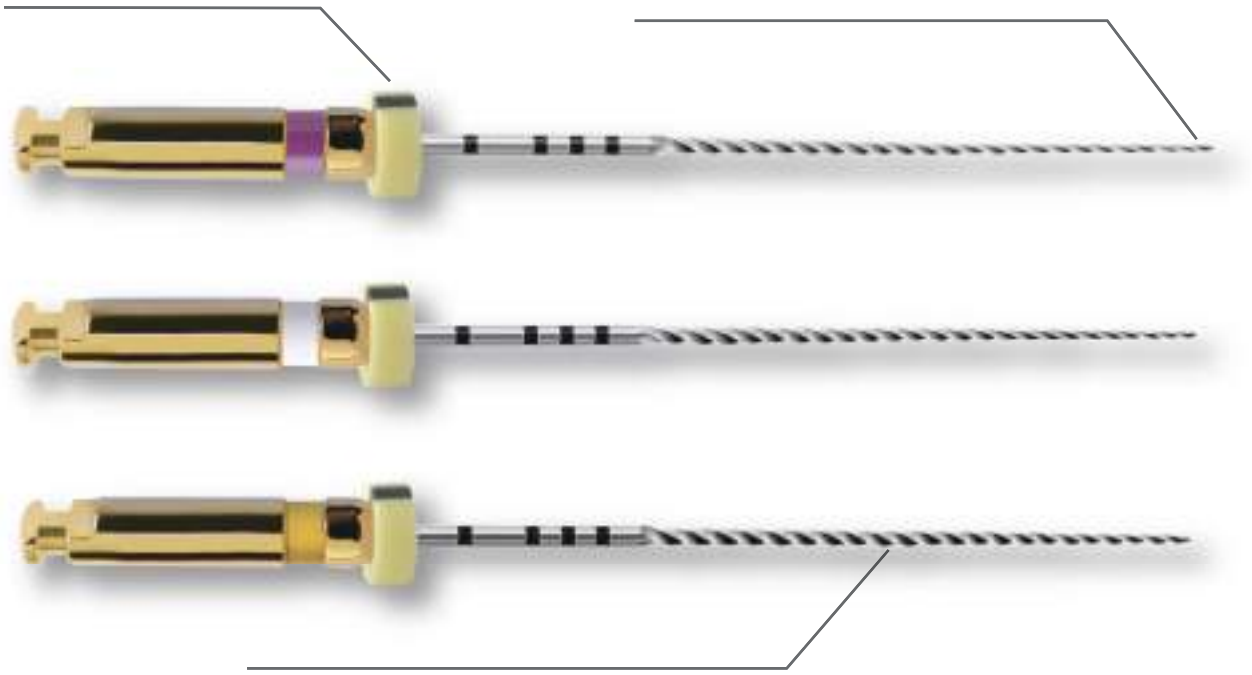
- AF™-L WIRE TECH
- RESPECT TO THE CANAL ANATOMY
- GLIDE PATH MANAGEMENT

Endo Stop

Mark the place of canal length and Identify the direction of file bending

Inactive Tip

Advanced tip process to avoid forming iatrogenic complications



Top Precision Auto Manufacturing

AF™-L wire;
Smaller postoperative response;
Much better Cyclic fatigue resistance ;
More efficiency

The Path files replace the hand files #10, #15, #20, the prepared root canal, with good concentricity and high smoothness, and the continuous high-speed rotation can bring the debris upwards. Prevent debris from being pushed in apical direction.

It's possible to clean the surface attachments of the files with an endo clean or a soft brush.

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
C-Path 13/02	F21 2602 021 013	F21 2602 025 013	F21 2602 031 013	02	#13	
C-Path 16/02	F21 2602 021 016	F21 2602 025 016	F21 2602 031 016	02	#16	
C-Path 19/02	F21 2602 021 019	F21 2602 025 019	F21 2602 031 019	02	#19	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
Open File + 13/02 + 16/02 + 19/02	F21 1402 021 000	F21 1402 025 000	F21 1402 031 000

(4pcs/box)

Indications:

a. Use #10 K file to explore the root canal

b. Open the orifice by orifice opener

c. Always keep the instrument, especially one-third of the apical area, fully lubricated. EDTA lubricants are recommended.

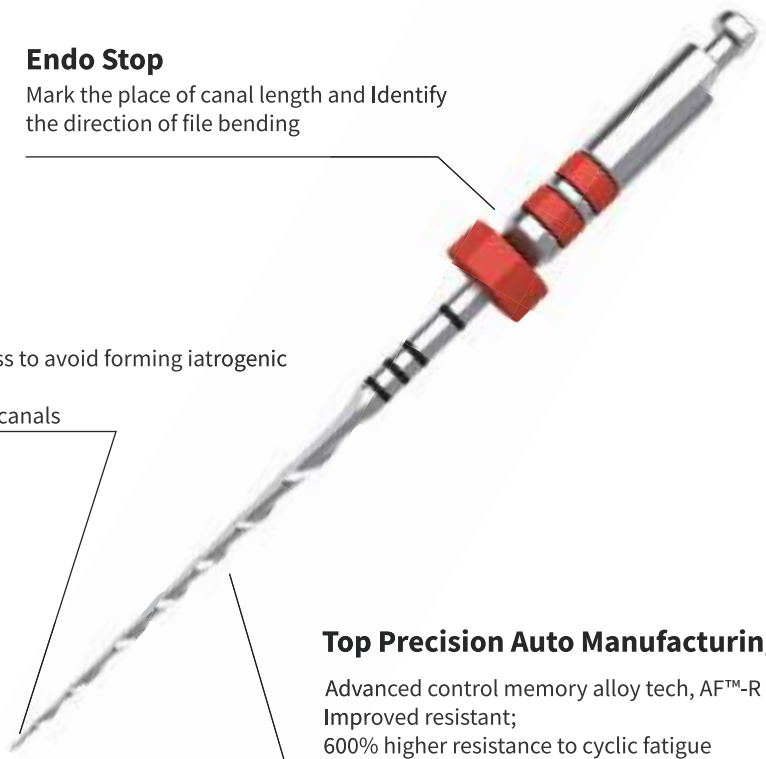
d. Use in pecking motion to ensure that the instrument does not stop at a certain point in the root canal.

e. Do not reach the working length at one time, and irrigate the root canal every 4 mm.

f. Ensure that each instrument can make a smooth, repeatable access to endure that the subsequent instruments are smoothly "sliding" forward.

AF™ F ONE

- Single file Endo
- AF™-R Wire technology
- Suitable for curved and narrow canals
- Unique side flat design
- Superior cutting efficiency
- Higher resistance to cyclic fatigue
- More room for irrigation during instrumentation
- Debris removed efficiently in coronal direction.
- Easily bypassed if the file is separated



Endo Stop

Mark the place of canal length and Identify the direction of file bending

Inactive Tip

Advanced tip process to avoid forming iatrogenic complications;
Suitable for curved canals

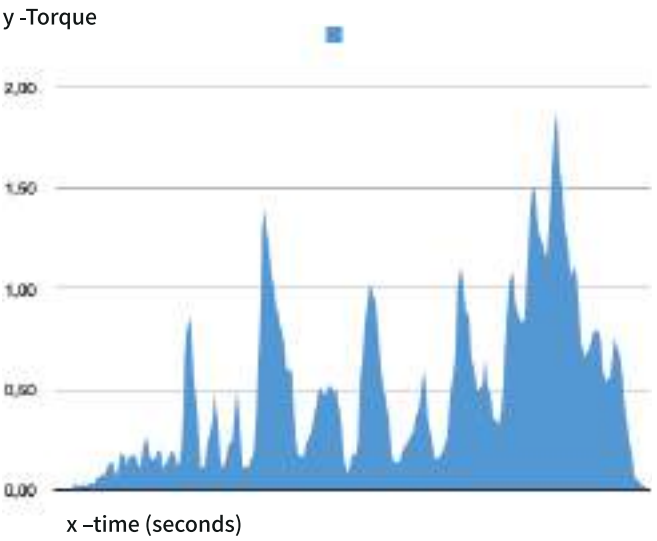
Top Precision Auto Manufacturing

Advanced control memory alloy tech, AF™-R wire;
Improved resistant;
600% higher resistance to cyclic fatigue
than normal Ni-Tiwire;More efficient cutting cross section design
Reserve more dentine;

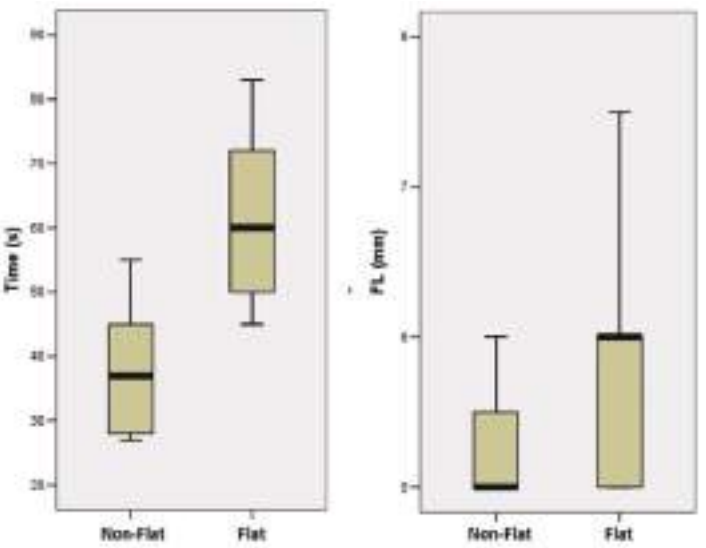
SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
F-ONE F1	A20 2304 021 020	A20 2304 025 020	A20 2304 031 020	04	#20	
F-ONE F2	A20 2304 021 025	A20 2304 025 025	A20 2304 031 025	04	#25	
F-ONE F3	A20 2304 021 035	A20 2304 025 035	A20 2304 031 035	04	#35	
F-ONE F4	A20 2306 021 020	A20 2306 025 020	A20 2306 031 020	06	#20	
F-ONE F5	A20 2306 021 025	A20 2306 025 025	A20 2306 031 025	06	#25	
F-ONE F6	A20 2306 021 035	A20 2306 025 035	A20 2306 031 035	06	#35	

（3pcs/box)

The latest products bearing the Fanta label are in keeping with the company's strategy of offering a new generation instruments with special one flat side that improve the root canal's ability of cleaning and shaping during endodontic treatment.



Operative Torque – Torque developed during instrumentation



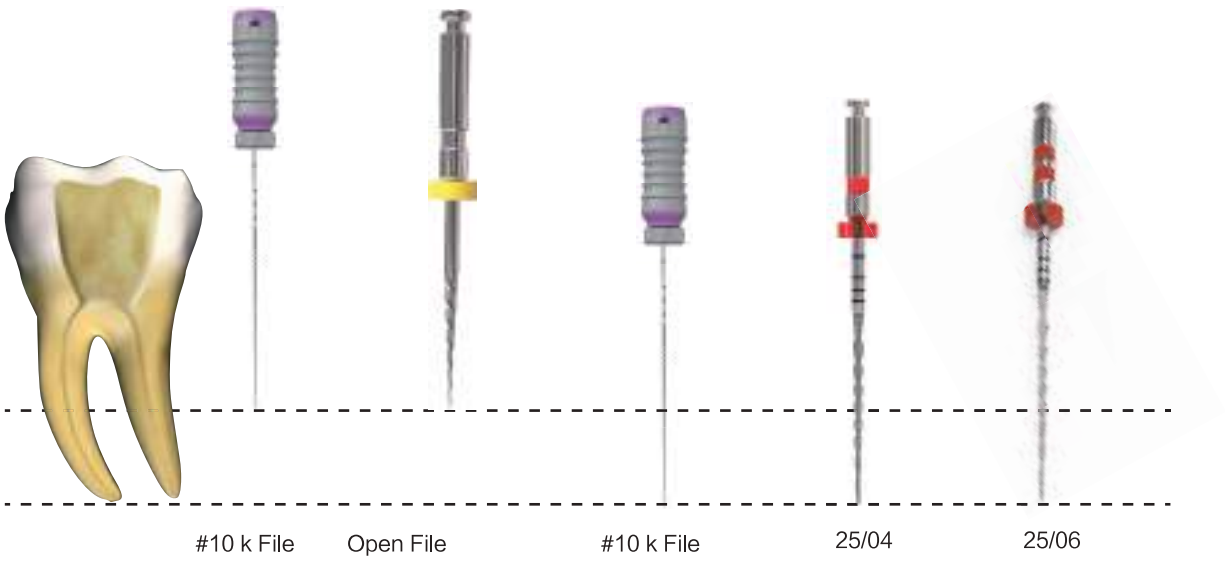
*Test from Sapienza University of Rome

Flat Design

The vertical blades can clear up the debris from flutes to the relieved area and then outside the canal. This result in:

Superior cutting efficiency;
Less stress subjected on the file;
Less file surface contact with the canal wall;
More room for irrigation during instrumentation which may lower the amount of smear layer formation;
The flat design is not cut deeply , so it increases the flexibility without compromising the strength.

Instructions for use
F ONE FILE



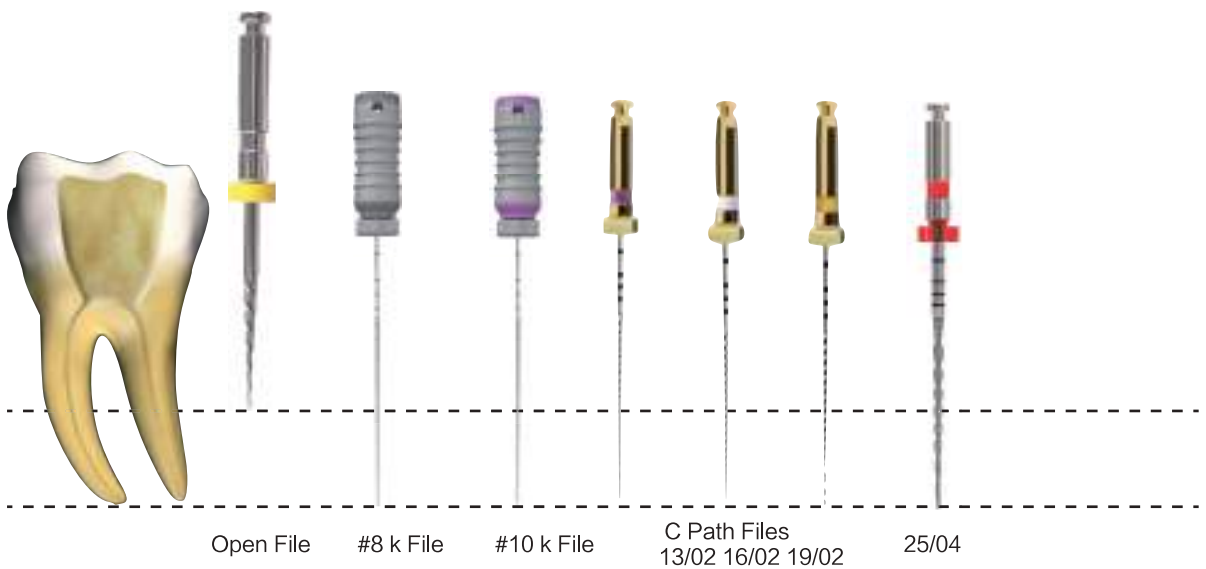
1. Negotiate the coronal third of the canal with file K10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator, negotiate the canal with file K10
   in a watch-wind motion to full working length, to get a patent canal pathway.
5. Irrigate the canal.
6. Use F One file (#25/04 or #25/06 according to canal width) to full working length
   in a pecking motion for 3 times (Pecking motion: in and out motion for a depth of 3 mm).
   Irrigate the canal, then repeat the process till reaching the full working length.
7. Irrigate the canal.

If the canal is narrow and calcified, we can use C files #6, 8, and 10 in step 4, then using C Path files between step 6.

F One Special Kits for: Narrow Curved Canal

- ◉ 17/12 Open File
- ◉ #8 K File
- ◉ #10 K File
- ◉ C Path 13, 16, 19/02
- ◉ 25/04 F One
- ○ 25/04 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/04 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



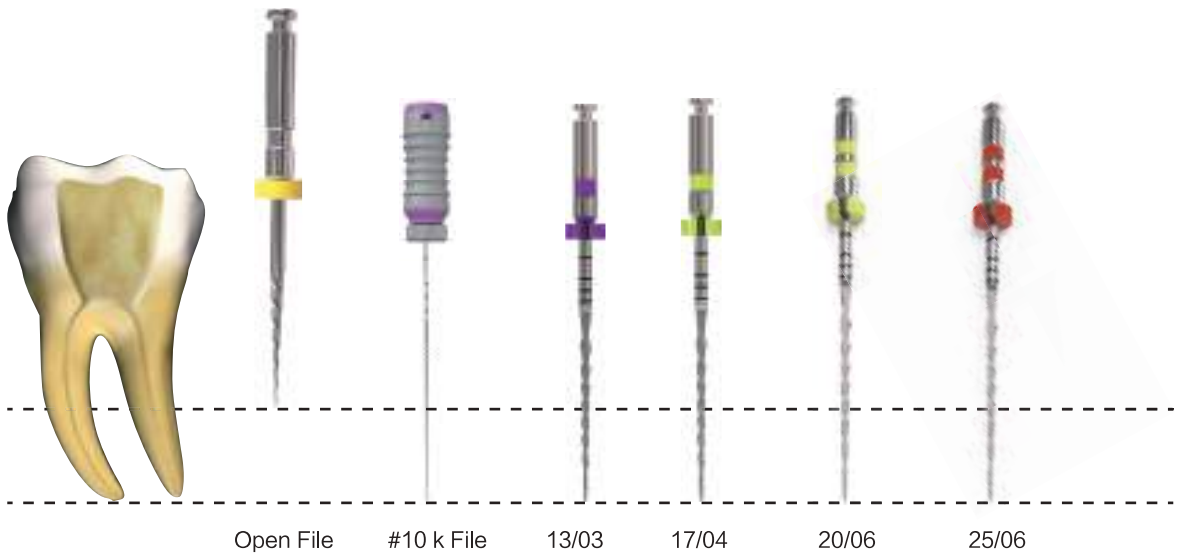
FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

F One Special Kits for: Medium Curved Canal

- ◉ 17/12 Open File
- ◉ #10 K File
- ◉ 13/03 F One
- ◉ 17/04 F One
- ◉ 20/06 F One
- ◉ 25/06 F One
- ○ 25/06 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/06 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



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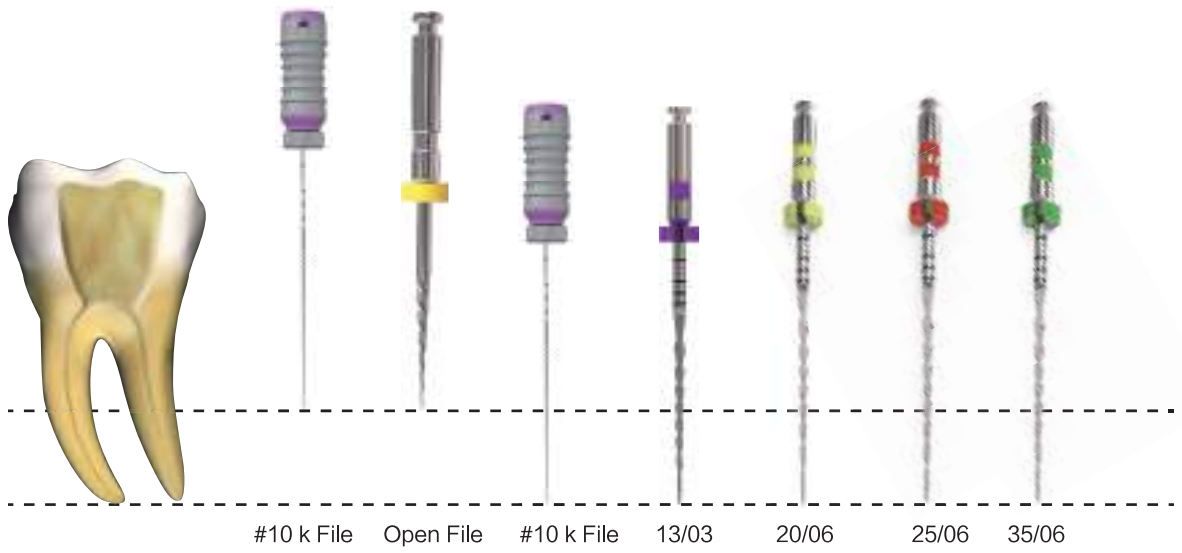
AF BC-SEALER SP can not be available in the Europe area at present

F One Special Kits for: Large Curved Canal

- ◉ 17/12 Open File
- ◉ #10 K File
- ◉ 13/03 F One
- ◉ 20/06 F One
- ◉ 25/06 F One
- ◉ 35/06 F One
- ○ 35/06 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 35/06 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



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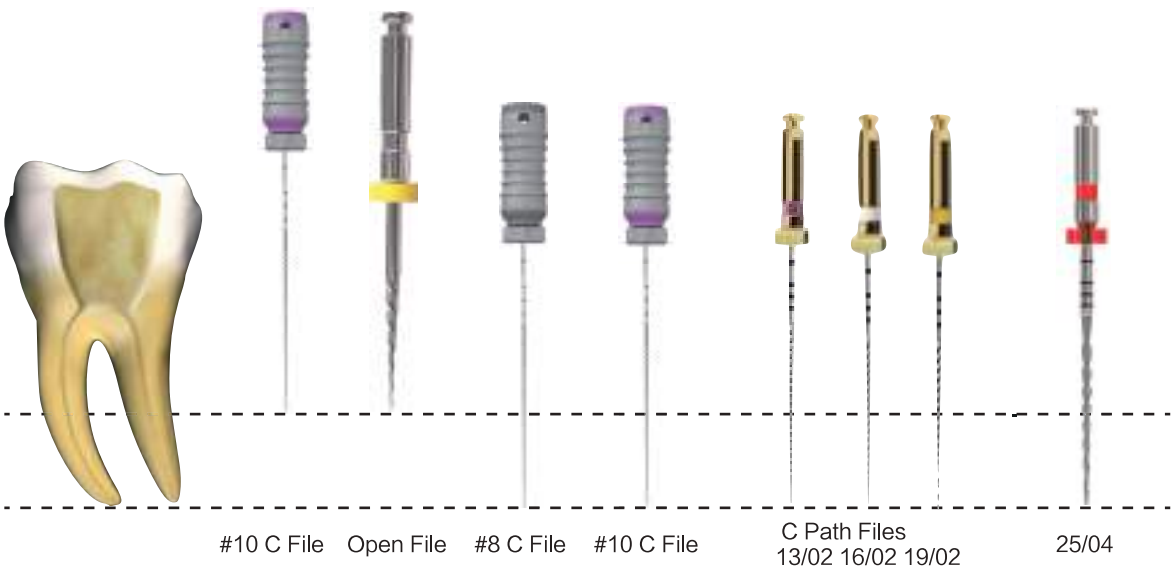
AF BC-SEALER SP can not be available in the Europe area at present

F One Special Kits for: Narrow Calcified Straight Canal

- ◉ 17/12 Open File
- ◉ #8 C File
- ◉ #10 C File
- ◉ C Path 13, 16, 19/02
- ◉ 25/04 F One
- ○ 25/04 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/04 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional O



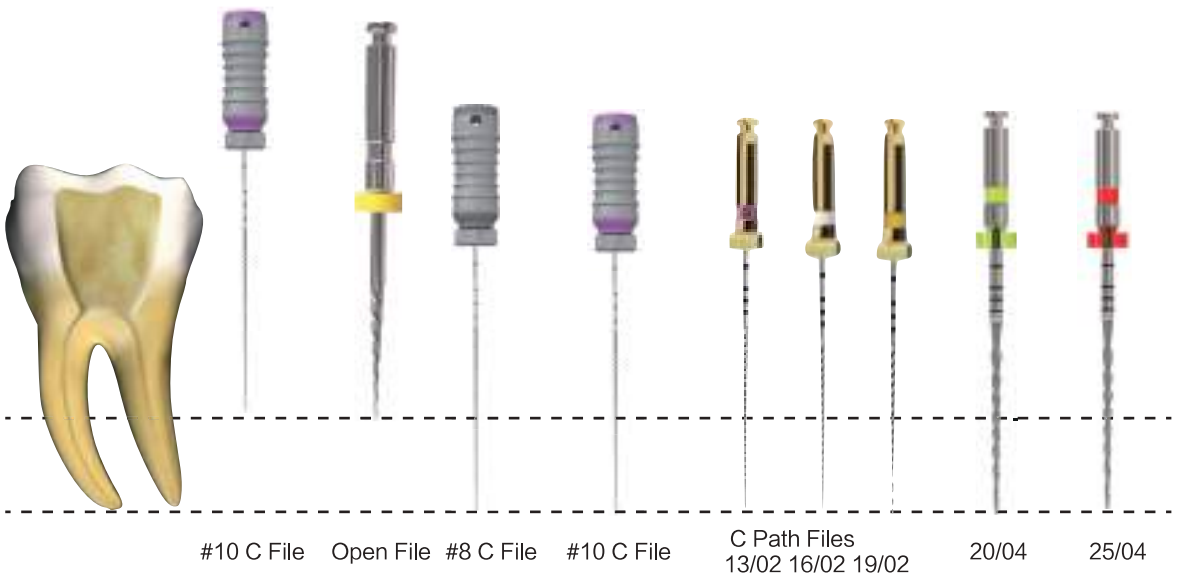
FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

F One Special Kits for: Narrow Calcified Curved Canal

- ◉ 17/12 Open File
- ◉ #8 C File
- ◉ #10 C File
- ◉ C Path 13, 16, 19/02
- ◉ 20/04 F One
- ◉ 25/04 F One
- ○ 25/04 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/04 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



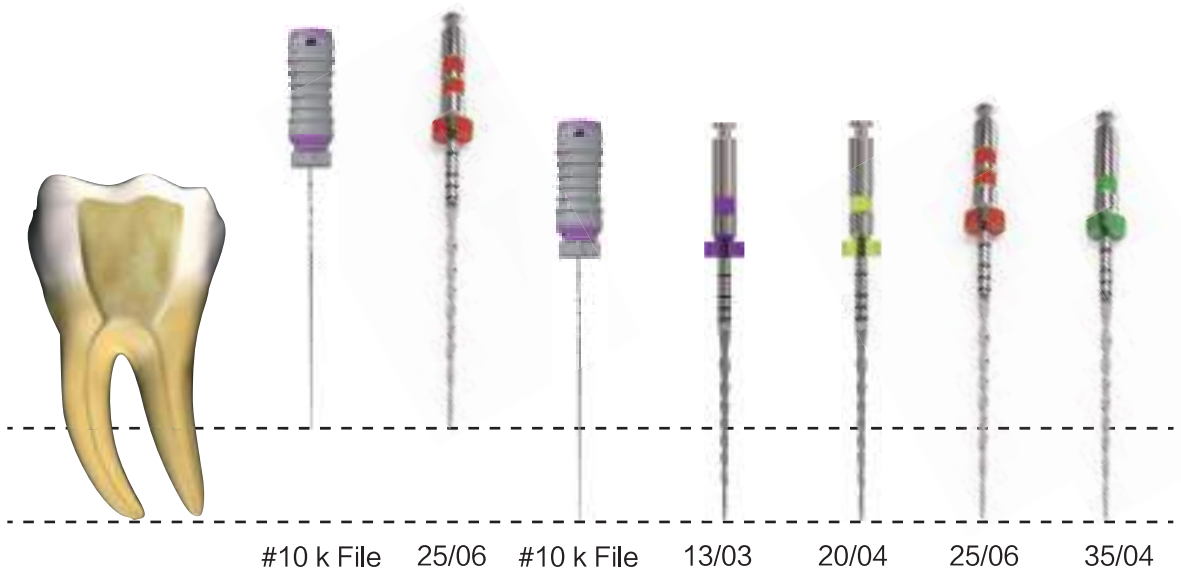
FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

F One Special Kits
from Style Italiano™ Endodontics Recommended

- ◉ #10 K File
- ◉ 13/03 F One
- ◉ 20/04 F One
- ◉ 25/06 F One
- ◉ 35/04 F One
- ○ 35/04 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 35/04 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

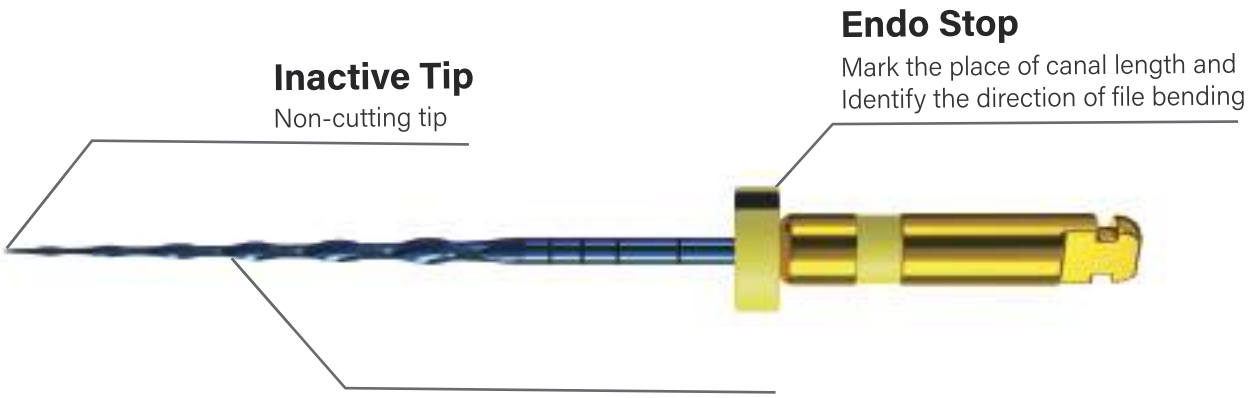
optional ○



STYLE ITALIANO

FANTA® DENTAL MATERIALS

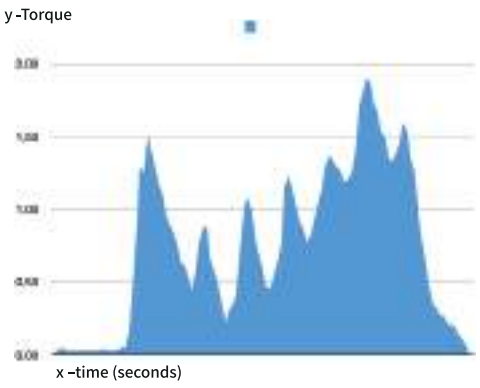
E-SPARK BLUE



Top Precision Auto Manufacturing

Advanced control memory alloy tech, AF™-R Wire Tech;
Higher efficient cross section design;
Greater resistance to cyclic fatigue

- AF™-R Wire technology
- Rotation motion
- Patent finest nano-ceramic layer
- Greater resistance to cyclic fatigue
- Minimal invasive files
- Improved resistance to cyclic fatigue



Operative Torque – Torque developed during instrumentation

*Test from Sapienza University of Rome

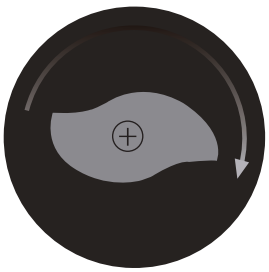
SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
E-Spark ES1	A22 2304 021 020	A22 2304 025 020	A22 2304 031 020	04	20	
E-Spark ES2	A22 2304 021 025	A22 2304 025 025	A22 2304 031 025	04	25	
E-Spark ES3	A22 2304 021 035	A22 2304 025 035	A22 2304 031 035	04	35	
E-Spark ES4	A22 2306 021 020	A22 2306 025 020	A22 2306 031 020	06	20	
E-Spark ES5	A22 2306 021 025	A22 2306 025 025	A22 2306 031 025	06	25	
E-Spark ES6	A22 2306 021 035	A22 2306 025 035	A22 2306 031 035	06	35	

（3pcs/box)

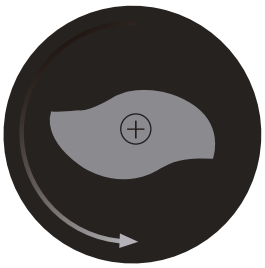
ASSORTED	21MM	25MM	31MM	TAPER	SIZE	
Open File+ES1	A22 1404 021 020	A22 1404 025 020	A22 1404 031 020	04	20	
Open File+ES2	A22 1404 021 025	A22 1404 025 025	A22 1404 031 025	04	25	
Open File+ES3	A22 1404 021 035	A22 1404 025 035	A22 1404 031 035	04	35	
Open File+ES4	A22 1406 021 020	A22 1406 025 020	A22 1406 031 020	06	20	
Open File+ES5	A22 1406 021 025	A22 1406 025 025	A22 1406 031 025	06	25	
Open File+ES6	A22 1406 021 035	A22 1406 025 035	A22 1406 031 035	06	35	

(4 pcs/box)

The increase of the instruments use did not cause an increase of the time necessary for the shaping procedure, and this can be correlated to the different approach employed. A 'single file' technique requires an instrumentation that complies with the principle of the crown down technique, which seems to require more time. The use of rotary instruments with glide path and low torque seems to be a promising technique to improve the safety and efficacy of the 'single file' rotary techniques.

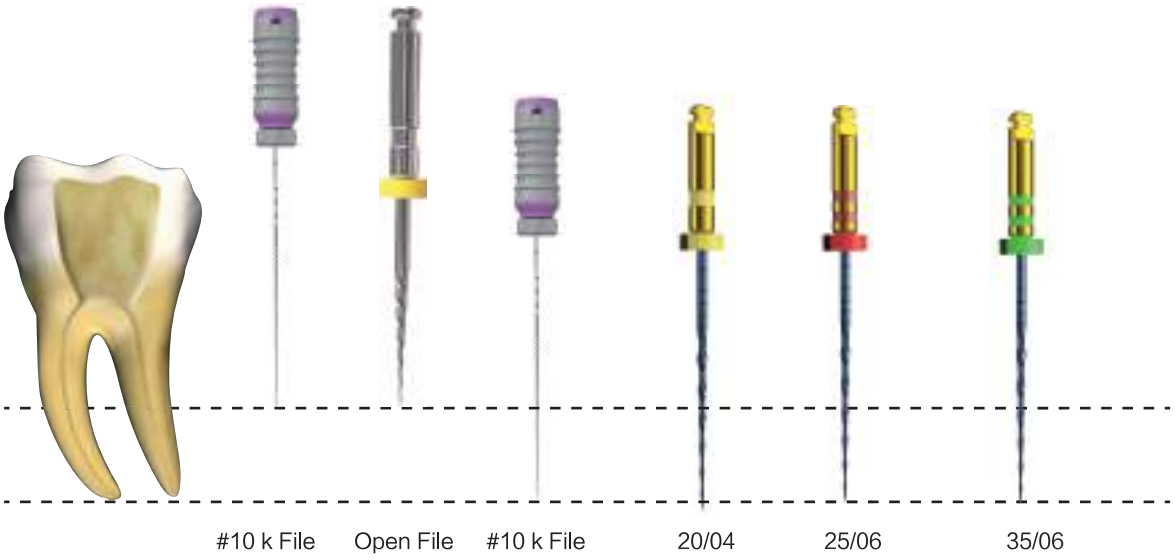


Low torque values might reduce the risk of intracanal seperation due to torsional stress. The speed rise, instead, might increase fracture risk due to cyclic fatigue, even though the new thermally treated leagues are much more resistant compared to the traditional ones made of nickel and titanium and, as previously proved in literature, substantially reduce separation risk inside the canal. In fact, AF™-R WIRE, a thermally treated leagues produced by Fanta Dental, seems to increase the resistance to cyclic fatigue, as proved by the studies conducted by the manufacturer itself. Based on the principles of the crown down technique, if the instrument inside the root canal does not manage to reach the established working length, using an inward and outward motion might facilitate the progression. Based on the results, the technique proposed seems to be very much promising and the other instruments might easily reach similar results. Further tests are needed to prove the efficacy and safety of this technique.



Instructions for use
E-SPARK BLUE
Step by step

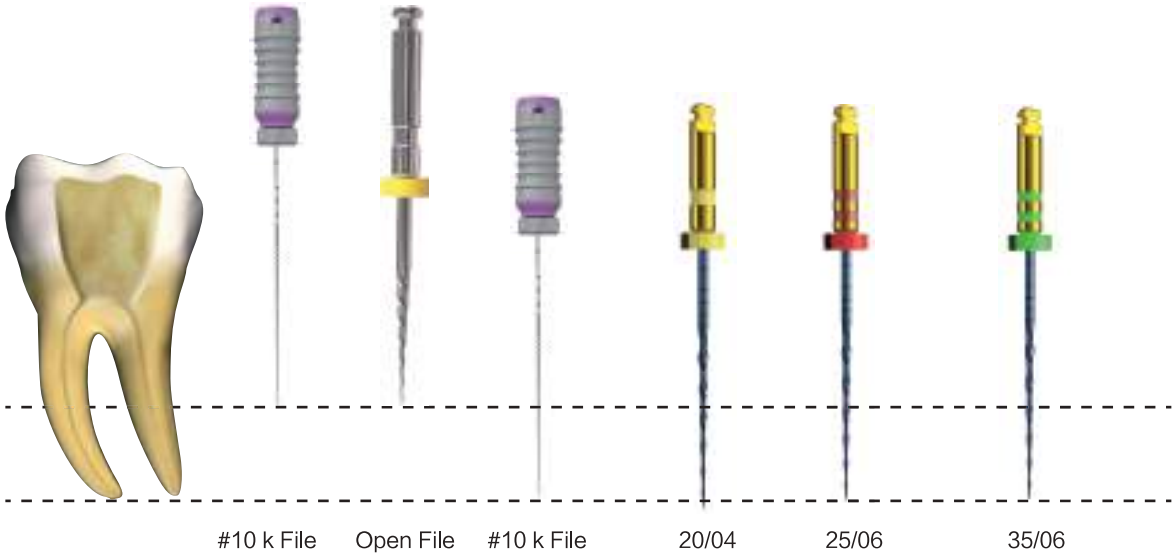
Normal to wide canals



1. Negotiate the coronal third of the canal with file K10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator, negotiate the canal with file K10 in a watch-wind motion to full working length, to get a patent canal pathway.
5. Irrigate the canal.
6. Use E Spark file (#20/04) to full working length in a pecking motion for 3 times (Pecking motion: in and out motion for a depth of 3 mm). Irrigate the canal, then repeat the process till reaching the full working length.
7. Irrigate the canal.
8. Use E Spark file (#25/06) in a pecking motion to full working length.
9. Irrigate the canal.
10. You can stop at this file, or if the canal needs more preparation, you can proceed with E Spark file (#35/06) in a pecking motion.

Instructions for use
E-SPARK BLUE

Narrow and calcified canals



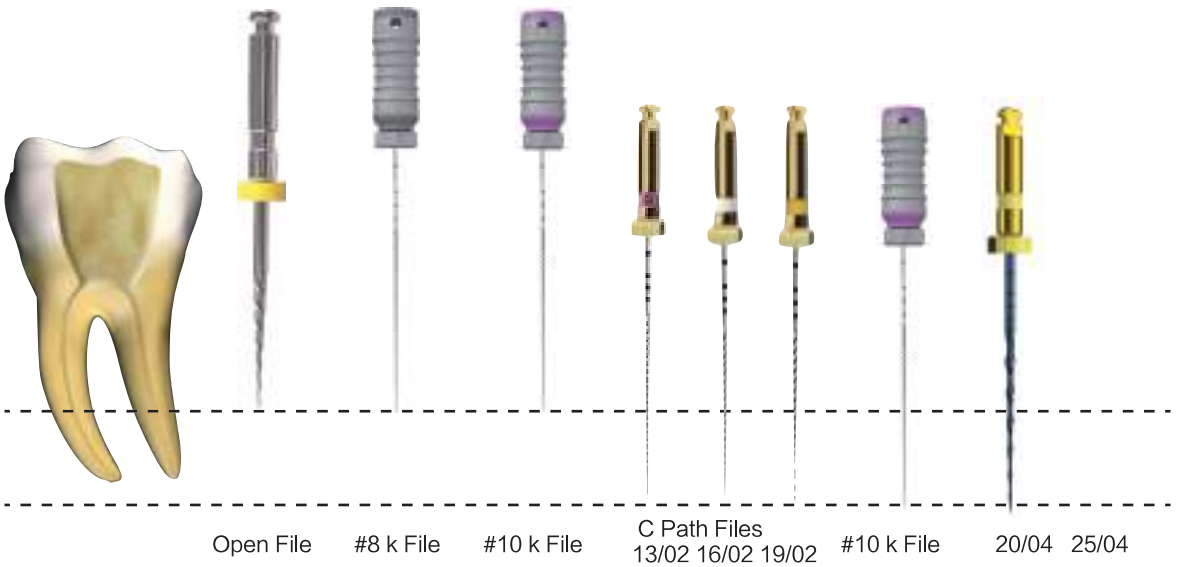
1. Negotiate the coronal third of the canal with file C10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator, negotiate the canal with file C06 in a watch-wind motion to full working length, to get a patent canal pathway. Use C files 08 and 10 respectively into full working length in the same manner.
5. Irrigate the canal.
6. Use the C-path files (#13, 16, 19/02) to full working length in a pecking motion for 3 times (Pecking motion: in and out motion for a depth of 3 mm).
   Irrigate the canal, then repeat the process till reaching the full working length.
7. Irrigate the canal.
8. Use E Spark file (#20/04) in a pecking motion to full working length.
9. Irrigate the canal.
10. Use E Spark file (#25/04) in a pecking motion to full working length.
11. Irrigate the canal.

E-Spark Blue Special Kits for: Narrow Straight Canal

- ◉ 17/12 Open File
- ◉ #8 K File
- ◉ #10 K File
- ◉ C Path 13, 16, 19/02
- ◉ 20/04 E-Spark Blue
- ◉ 25/04 E-Spark Blue
- ○ 25/04 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/04 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○

Step by step



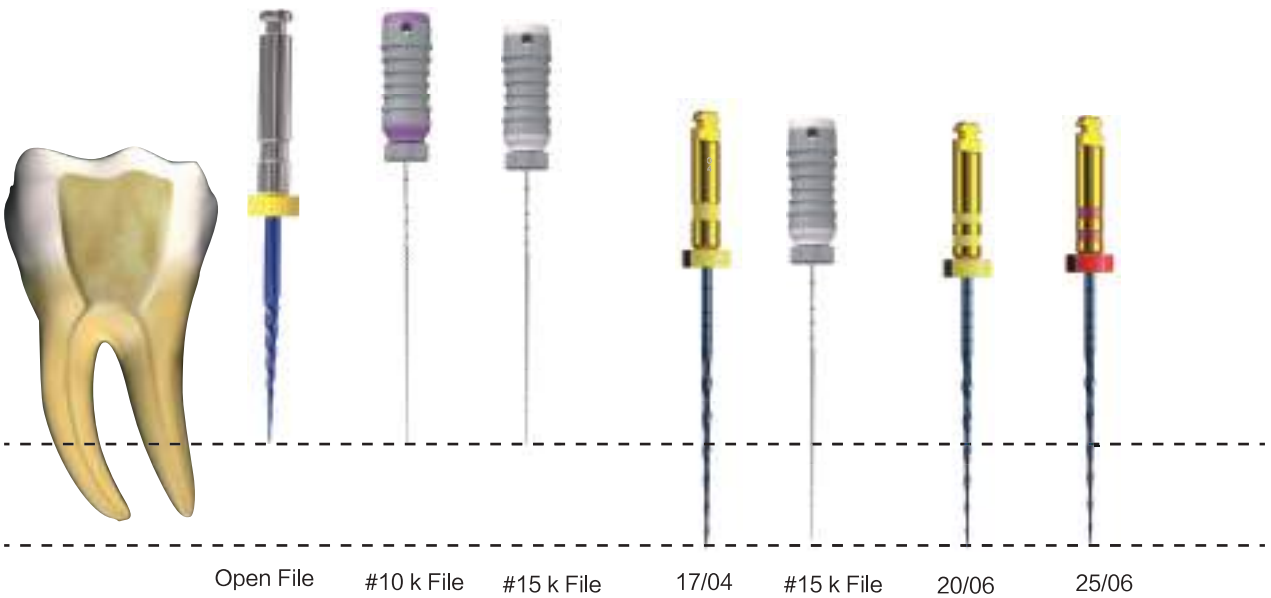
FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

E-Spark Blue Special Kits for: Medium Straight Canal

- ◉ 17/12 Open File
- ◉ #10 K File
- ◉ #15 K File
- ◉ 17/04 E-Spark Blue
- ◉ 20/06 E-Spark Blue
- ◉ 25/06 E-Spark Blue
- ○ 25/06 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 25/06 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



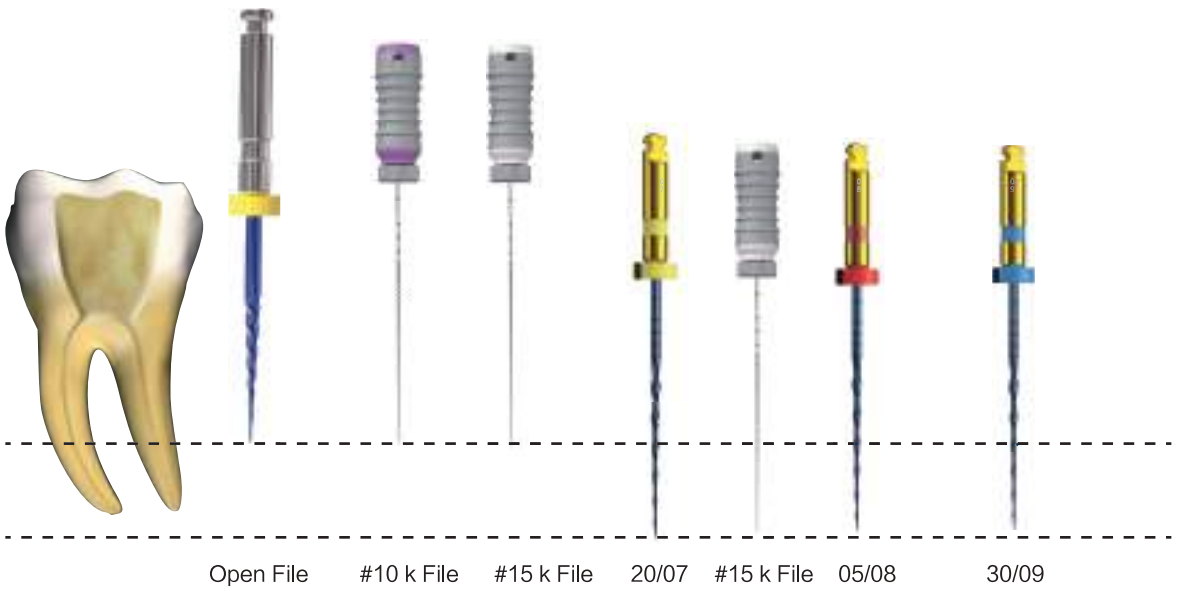
FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

E-Spark Blue Special Kits for: Large Straight Canal

- ◉ 17/12 Open File
- ◉ #10 K File
- ◉ #15 K File
- ◉ 20/07 E-Spark Blue
- ◉ 25/08 E-Spark Blue
- ◉ 30/09 E-Spark Blue
- ○ 30/09 Bio Ceramic- Gutta Percha (10 pcs/tube)
- ○ 30/09 Paper Point (10 pcs/tube)
- ○ AF BC-SEALER SP (2g)

optional ○



FANTA® DENTAL MATERIALS

AF BC-SEALER SP can not be available in the Europe area at present

AF™ ROTARY

Endo Stop

Mark the place of canal length and identify the direction of file bending

Top Precision Auto Manufacturing

Advanced control memory alloy tech, AF™-H wire
Improved resistant
Much better cyclic fatigue resistance
Reserve more dentine

Inactive Tip

Advanced tip process to avoid forming steps;
Suitable for curved canals

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
20/04	A03 2604 021 020	A03 2604 025 020	A03 2604 031 020	04	#20	
25/04	A03 2604 021 025	A03 2604 025 025	A03 2604 031 025	04	#25	
30/04	A03 2604 021 030	A03 2604 025 030	A03 2604 031 030	04	#30	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
Open File + C-Path 19/02 + 20/04 + 25/04 + 30/04	A03 1500 021 000	A03 1500 025 000	A03 1500 031 000

(5pcs/box)

- Progressive Endodontic file system
- AF™-H Wire technology
- Extremely flexible files
- Files of choice for very narrow and calcified canals
- Files of choice for severely curved canals
- Minimal invasive files
- Improved resistance to cyclic fatigue

Our AF Rotary is provided with the unique Controlled Memory wire, because of its softest, it needs to be used at 350-4 00 RPM, suitable for severely curved root canals, but there are still some points need pay your attention:

a. Before preparation, it is advised to establish a patent canal to full working length with K file 10.

b. The crown is fully pre-opened to ensure that the lubricating fluid smoothly enters the root apical with the file and keeps the hand.

c. Always keep the instrument, especially the one-third of the root apical, fully lubricated. It is recommended to use EDTA lubricant.

d. Short lift, keep the file from staying at a certain point in the root canal.

e. File does not reach the working length at one time, flushing every 4 mm or so.

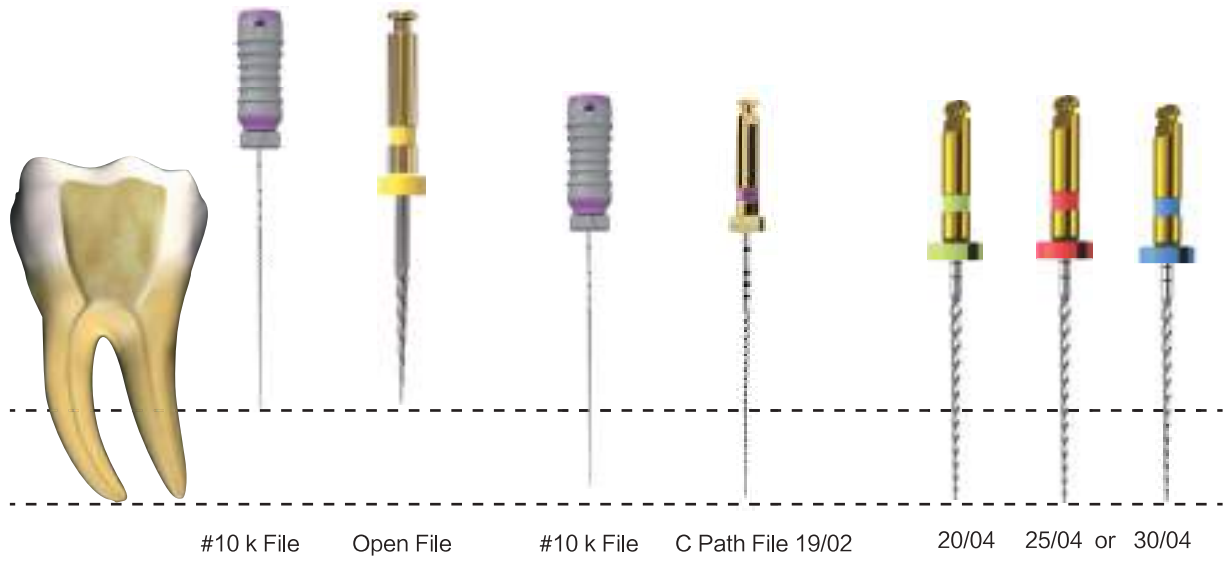
f. Ensure that each file is ready to form a smooth, repeatable channel, ensuring that the file smoothly slides forward

In general , the shape memory files showed a high angle of rotation before fracture but were not statisically different from of the other files. However , the shape memory files were more flexible , as evidenced by significantly lower bending moments(P < .008) -----Torsion and Bending Properties of Shape Memory and Superelastic Nickel - Titanium Rotary Instruments[J]. Elizebeth Ninan , BDS , David W . Berzins , PhD. Journal of Endodontics; January 2013 Volume 2013 , Issue 1 , Pages 101-104.

Hand instrumentation incurred more errors than rotary nickel - titanium instrumentation. Further apical enlargement using Light-speed instruments incurred fewer errors than with Profile instruments. Rotary nickel - titianium instrumentation , may produce better canal shape by reducing procedural errors. -----A Comparison of Stainless Steel Hand and Rotary Nickel - Titanium Instrumentation Using a Silicone Impression Technique[J]. JL Chen , HH Messer. Australian Dental Journal; 12 March 2008 , Pages : 12-20.

Instructions for use
AF™ ROTARY

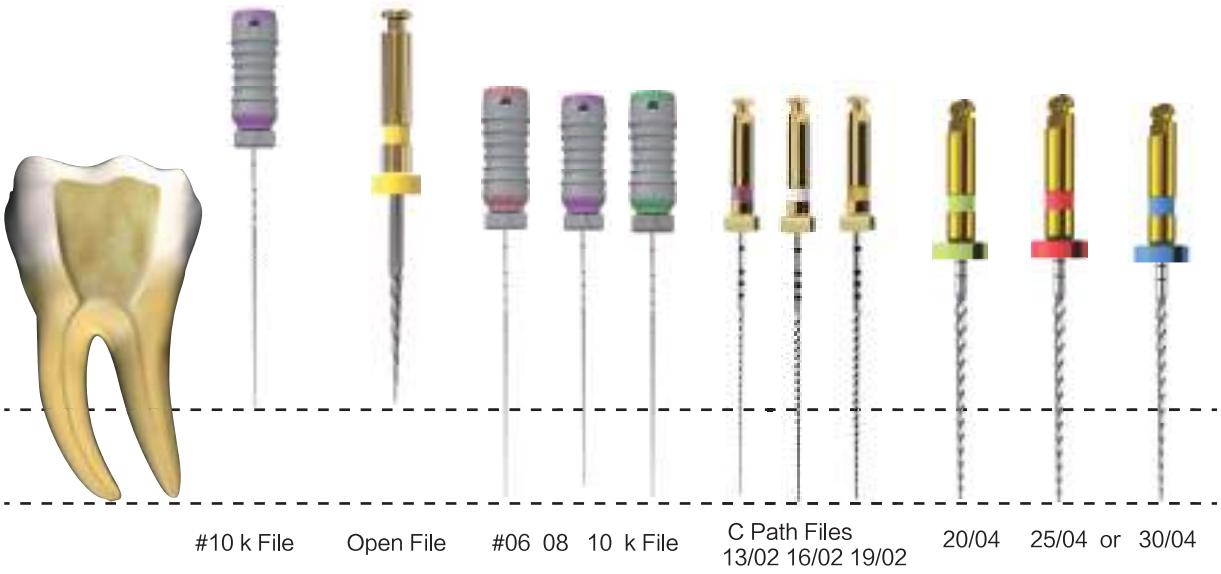
Normal to narrow canals



1. Negotiate the coronal third of the canal with file K #10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator, negotiate the canal with file K #10
   in a watch-wind motion to full working length, to get a patent canal pathway.
5. Irrigate the canal.
6. Use C-path file (#19/02) to full working length in a pecking motion for 3 times
   (Pecking motion: in and out motion for a depth of 3 mm).
   Irrigate the canal, then repeat the process till reaching the full working length.
7. Irrigate the canal.
8. Use file (#20/04) in a pecking motion to full working length.
9. Irrigate the canal.
10. Use file (#25/04) in a pecking motion to full working length.
11. Irrigate the canal.
12. You can stop at this file, or if the canal needs more preparation,
    you can proceed with file (#30/04) in a pecking motion.

Instructions for use
AF™ ROTARY

Very narrow and calcified canals



1. Negotiate the coronal third of the canal with file C #10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator, negotiate the canal with file C #06
   in a watch-wind motion to full working length, to get a patent canal pathway.
   Use C files 08 and 10 respectively into full working length in the same manner.
5. Irrigate the canal.
6. Use the C-path files (#13, 16, 19/02) to full working length in a pecking motion for 3 times
   (Pecking motion: in and out motion for a depth of 3 mm).
   Irrigate the canal, then repeat the process till reaching the full working length.
7. Irrigate the canal.
8. Use file (#20/04) in a pecking motion to full working length.
9. Irrigate the canal.
10. Use file(#25/04) in a pecking motion to full working length.
11. Irrigate the canal.
12. You can stop at this file, or if the canal needs more preparation,
    you can proceed with file (#30/04) in a pecking motion.

V-TAPER GOLD

Rubber Stopper
Be convenient to mark the place of the canal length and to identify the direction of file bending

Chimb Triangle
Convex triangle design, better cutting

Continuous Rotation
continuous rotary motion

- AF™-R Wire Tech for Shaping Files
- AF™-H Wire Tech for Finishing Files
- 3 Shaping Files, 3 Finishing Files
- High elasticity of NITI Material
- Suitable for Curved Root Canal Preparation
- Specialty for Variable Taper 6 Files Design

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Chimb Triangle
Convex triangle design, better cutting

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- 3 Shaping Files, 3 Finishing Files
- High elasticity of NITI Material
- Suitable for Curved Root Canal Preparation
- Specialty for Variable Taper 6 Files Design

SINGLE SIZE	19MM			TAPER	SIZE	
SX	V02 2604 019 019			04 vt	#19	
SINGLE SIZE	**21MM**	**25MM**	**31MM**	**TAPER**	**SIZE**	
S1	V02 2602 021 018	V02 2602 025 018	V02 2602 031 018	02 vt	#18	
S2	V02 2604 021 020	V02 2604 025 020	V02 2604 031 020	04 vt	#20	
F1	V02 2607 021 020	V02 2607 025 020	V02 2607 031 020	07 vt	#20	
F2	V02 2608 021 025	V02 2608 025 025	V02 2608 031 025	08 vt	#25	
F3	V02 2609 021 030	V02 2609 025 030	V02 2609 031 030	09 vt	#30	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
SX+S1+S2+F1+F2+F3	V02 1600 021 000	V02 1600 025 000	V02 1600 031 000

(6pcs/box)

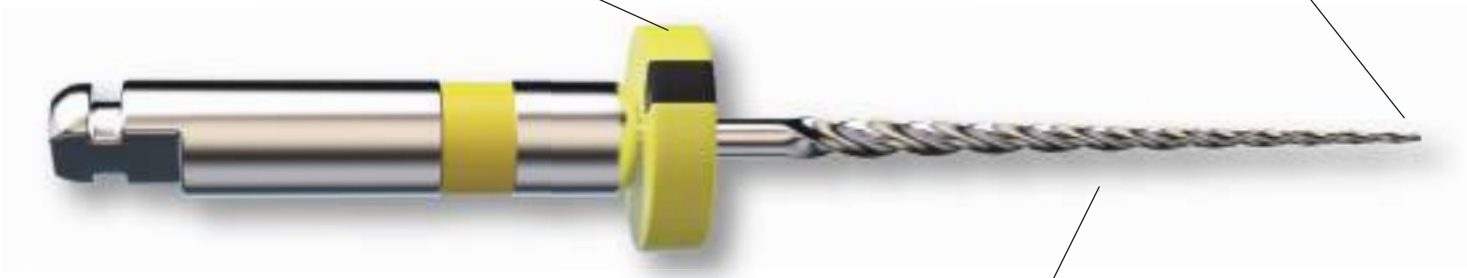
Designed from advanced metallurgy as another shaping file added to help build smooth straight line access, What the most important is an increases in flexibility and cutting. pre-enlarge canals and are designed to be used with the same familiar outstroke brushing technique for shaping file, and provide the trust that promote cleaning and filling root canal systems for finishing file.

AF BABY ROTARY

- AF™-H Wire Tech
- Triangular Cross Section Design
- Improved Resistance to Cyclic Fatigue
- Advanced Tip Process & Avoid Forming Ledges
- Special design for deciduous teeth

Endo Stop
Mark the place of canal length and Identify the direction of file bending

Inactive Tip
Advanced tip process to avoid forming steps



Top Precision Auto Manufacturing
16mm length design
Advanced memory alloy material, AF™-H wire
Improved resistance for cyclic fatigue
provide safer experience

SINGLE SIZE	16MM	TAPER	SIZE	
20/04	A06 2604 016 020	04	#20	
25/04	A06 2604 016 025	04	#25	
30/04	A06 2604 016 030	04	#30	
20/06	A06 2606 016 020	06	#20	
25/06	A06 2606 016 025	06	#25	
30/06	A06 2606 016 030	06	#30	

(6pcs/box)

ASSORTED	16MM
Open File + 20/04 + 25/04 + 30/04	A06 1404 016 000
Open File + 20/06 + 25/06 + 30/06	A06 1406 016 000

(4pcs/box)

SINGLE SIZE	10MM	TAPER	SIZE	
Open File	A06 2608 010 017	08	#17	

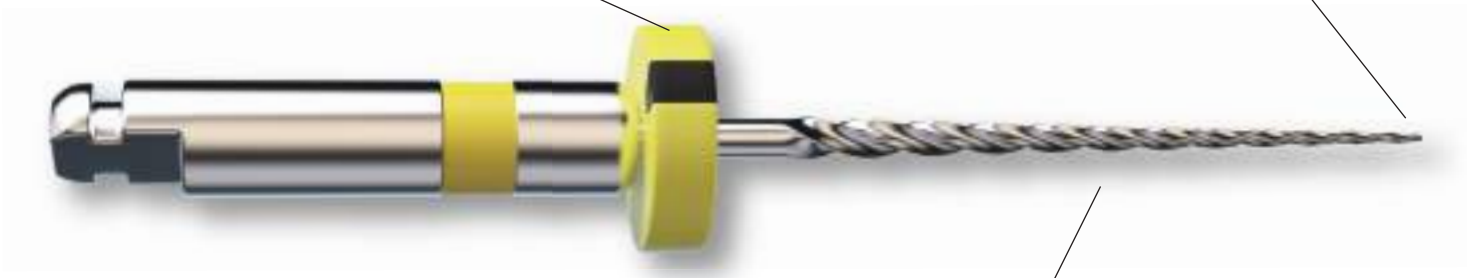
(6pcs/box)

AF BABY ROTARY

- AF™-H Wire Tech
- Triangular Cross Section Design
- Improved Resistance to Cyclic Fatigue
- Advanced Tip Process & Avoid Forming Ledges
- Special design for deciduous teeth

Endo Stop
Mark the place of canal length and Identify the direction of file bending

Inactive Tip
Advanced tip process to avoid forming steps



Top Precision Auto Manufacturing

16mm length design
Advanced memory alloy material, AF™-H wire
Improved resistance for cyclic fatigue
provide safer experience

SINGLE SIZE	16MM	TAPER	SIZE	
20/04	A06 2604 016 020	04	#20	
25/04	A06 2604 016 025	04	#25	
30/04	A06 2604 016 030	04	#30	
20/06	A06 2606 016 020	06	#20	
25/06	A06 2606 016 025	06	#25	
30/06	A06 2606 016 030	06	#30	

(6pcs/box)

ASSORTED	16MM
Open File + 20/04 + 25/04 + 30/04	A06 1404 016 000
Open File + 20/06 + 25/06 + 30/06	A06 1406 016 000

(4pcs/box)

SINGLE SIZE	10MM	TAPER	SIZE	
Open File	A06 2608 010 017	08	#17	

(6pcs/box)

The way to choose taper 4% or 6% is according to the width of root canal. The more curved root canal should be 4%.

Children's immunity is relatively low, as far as possible one-time use, avoid cross-infection.

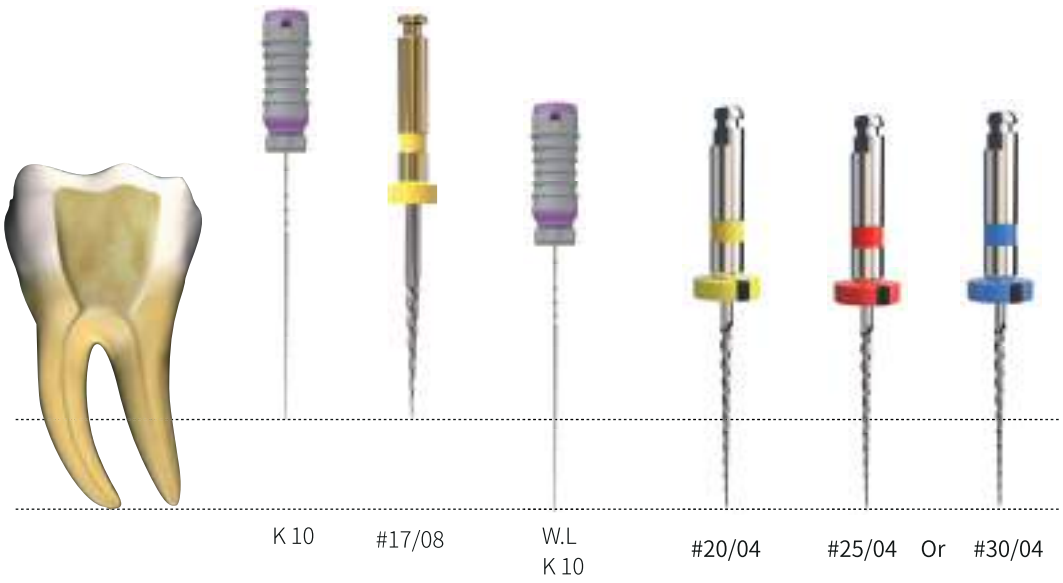
The root canal treatment of primary teeth is to remove the adverse stimulation of infectious substances on periapical tissues by preparing root canal and disinfecting with drugs, and to fill the root canal with the absorbable filling material, thereby promoting the treatment of apical periodontal healing. In the treatment of root canal of primary teeth, preparation of root canal, thorough disinfection of root canal, careful filling of root canal, necessary periodontal and tooth treatment are the key steps of root canal treatment.

Nickel–titanium instruments with rectangle - based cross - sectional designs created higher stress differentials during simulated canal shaping and may encounter higher residual stress and plastic deformation than instruments with triangle - based cross sections. -----Mechanical response of nickel–titanium instruments with different cross - sectional designs during shaping of simulated curved canals[J]. H. C. Kim, H. J. Kim, C. J. Lee, B. M. Kim, J. K. Park, A. Versluis. International Endodontic Journal; Volume42, Issue7,July 2009,Pages 593-602.

The cross-sectional design has a greater impact than taper or size of the instrument on the stresses developed in the instrument under either torsion or bending. Certain cross-sectional configurations are prone to fracture by excess torsional stresses. -----Influence of Cross-sectional Design and Dimension on Mechanical Behavior of Nickel-Titanium Instruments under Torsion and Bending: A Numerical Analysis[J]. En-Wei Zhang PhD, Gary S.P.Cheung MSc MDS PhD, Yu-Feng Zheng PhD. Journal of Endodontics; Volume 36, Issue 8, August 2010, Pages 1394-1398.

In general, the shape memory files showed a high angle of rotation before fracture but were not statistically different from some of the other files. However, the shape memory files were more flexible, as evidenced by significantly lower bending moments ($P < .008$). -----Torsion and Bending Properties of Shape Memory and Superelastic Nickel-Titanium Rotary Instruments[J]. Elizabeth Ninan, BDS, David W. Berzins, PhD. Journal of Endodontics; January 2013 Volume 39, Issue 1, Pages 101–104.

Instructions for use
AF™ BABY FILE



1. Negotiate the coronal 2/3 of the canal with K file 10.
2. Use Open File to prepare the coronal third and getting a straight line access.
3. Irrigate the canal.
4. With the use of apex locator,negotiate the canal with K file 10
   in a watch-wind motion to full working length, to get a patent canal pathway.
5. Irrigate the canal.
6. Use file (#20/0.04) in a pecking motion to full working length.
7. Irrigate the canal.
8. Use file(#25/04) in a pecking motion to full working length.
9. Irrigate the canal.
10. You can stop at this file, or if the canal needs more preparation,
    you can proceed with file (#30/04) in a pecking motion.
11. Irrigate the canal.

AF MAX

Inactive Tip
Maximum to 04 taper; #25 tip size

Top Precision Auto Manufacturing
Canal shaping and cleaning

Rubber Stopper
Mark the place of canal length and Identify the direction of file bending

- Super elasticity and extreme flexibility
- Minimal stress applied to dentine walls
- Canal Cleaning
- Excellent Cleaning Finisher
- Remove Smear Layers Efficiently
- Specialty for Maximum to 04 tape

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
MAX 1	F11 2101 021 025	F11 2101 025 025	F11 2101 031 025	01-04	#25	
MAX 2	F11 2102 021 025	F11 2102 025 025	F11 2102 031 025	01-04	#25	
MAX 3	F11 2103 021 025	F11 2103 025 025	F11 2103 031 025	01-04	#25	

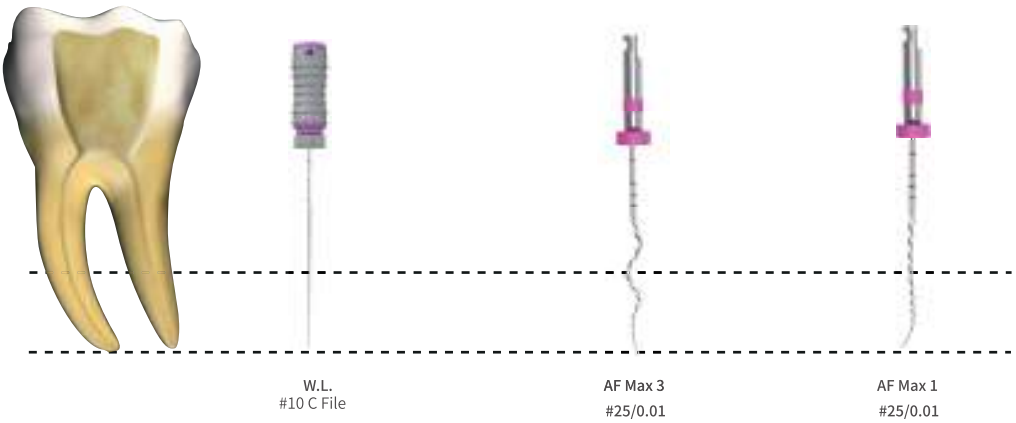
（1pc/tube）

TIPS

The times of using will effect on the probability mechanical isolation and not participate in any cutting.

The research shows that Max file can transport the sodium hypochlorite to the working length, which is beneficial to effectively remove the dentine debris and smear layer of the root canal wall in 1/3 area of the root tip, improve the cleaning efficiency of the narrow area of the root cause addition cutting, will not change the shape of root canal preparation, can achieve the best cleaning effect, kill bacterial while retaining dentin.

Instructions for use
AF™ MAX FILE



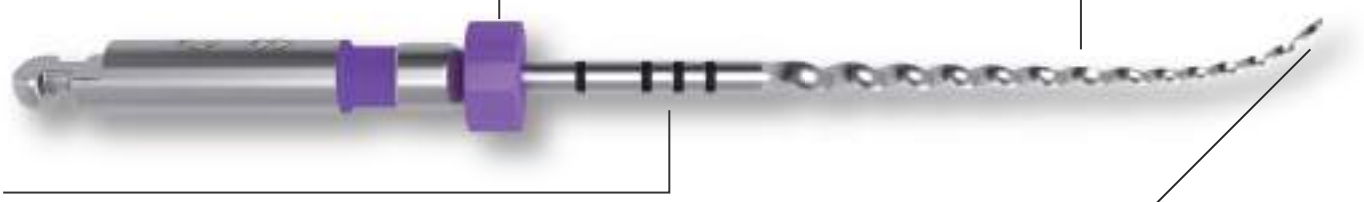
1. Irrigate the canal.
2. With the use of apex locator, negotiate the canal with C file #10 in a watch-wind motion to full working length, to get a patent canal pathway.
3. Irrigate the canal.
4. Use Max 3 in a pecking motion (Pecking motion: in and out motion for a depth of 3 mm) till reaching the working length. The motion of the file is on rotation movement (speed 800RPM, Torque 1N).
5. Irrigate the canal.
6. To ensure better cleaning of the apical third and agitation of irrigation, use Max 1 with the same manner and settings mentioned in step 4.
7. Irrigate the canal.

AF CL

- AF™ - R Wire Tech
- Specialty tip-design for Bypass the Ledge
- Triangular Cross Section
- Suitable for Curved Canals

Endo Stop
Mark the place of the canal length and Identify the direction of file bending

Top Precision Auto Manufacturing
Advanced control memory alloy tech, AF™-H wire



Depth Marks
Clear marks for you to identify the correct place (18, 19,20,22MM)

Inactive Tip
Pre-bend tip design, suitable for curved canals

One time use only.

AF™ CL ROTARY FILE

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
10/06	F07 2606 021 010	F07 2606 025 010	F07 2606 031 010	06	#10	
15/06	F07 2606 021 015	F07 2606 025 015	F07 2606 031 015	06	#15	
10/08	F07 2608 021 010	F07 2608 025 010	F07 2608 031 010	08 vt	#10	
20/07	F07 2607 021 020	F07 2607 025 020	F07 2607 031 020	07 vt	#20	
25/08	F07 2608 021 025	F07 2608 025 025	F07 2608 031 025	08 vt	#25	
30/09	F07 2609 021 030	F07 2609 025 030	F07 2609 031 030	09 vt	#30	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
10/06+15/06+10/08+20/07+25/08+30/09	F07 1600 021 000	F07 1600 025 000	F07 1600 031 000

(6pcs/box)

AF CL

- AF™ - R Wire Tech
- Specialty tip-design for Bypass the Ledge
- Triangular Cross Section
- Suitable for Curved Canals

Endo Stop
Mark the place of the canal length and Identify the direction of file bending

Top Precision Auto Manufacturing
Advanced control memory alloy tech, AF™-H wire

Depth Marks
Clear marks for you to identify the correct place (18, 19,20,22MM)

Inactive Tip
Pre-bend tip design, suitable for curved canals

One time use only.

AF™ CL ROTARY FILE

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
10/06	F07 2606 021 010	F07 2606 025 010	F07 2606 031 010	06	#10	
15/06	F07 2606 021 015	F07 2606 025 015	F07 2606 031 015	06	#15	
10/08	F07 2608 021 010	F07 2608 025 010	F07 2608 031 010	08 vt	#10	
20/07	F07 2607 021 020	F07 2607 025 020	F07 2607 031 020	07 vt	#20	
25/08	F07 2608 021 025	F07 2608 025 025	F07 2608 031 025	08 vt	#25	
30/09	F07 2609 021 030	F07 2609 025 030	F07 2609 031 030	09 vt	#30	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
10/06+15/06+10/08+20/07+25/08+30/09	F07 1600 021 000	F07 1600 025 000	F07 1600 031 000

(6pcs/box)

AF™ CL HAND FILE

SINGLE SIZE	21MM	25MM	31MM	TAPER	SIZE	
10/06	H07 2606 021 010	H07 2606 025 010	H07 2606 031 010	06	#10	
15/06	H07 2606 021 015	H07 2606 025 015	H07 2606 031 015	06	#15	
10/08	H07 2608 021 010	H07 2608 025 010	H07 2608 031 010	08 vt	#10	
20/07	H07 2607 021 020	H07 2607 025 020	H07 2607 031 020	07 vt	#20	
25/08	H07 2608 021 025	H07 2608 025 025	H07 2608 031 025	08 vt	#25	
30/09	H07 2609 021 030	H07 2609 025 030	H07 2609 031 030	09 vt	#30	

(6pcs/box)

ASSORTED	21MM	25MM	31MM
10/06+15/06+10/08+20/07+25/08+30/09	H07 1600 021 000	H07 1600 025 000	H07 1600 031 000

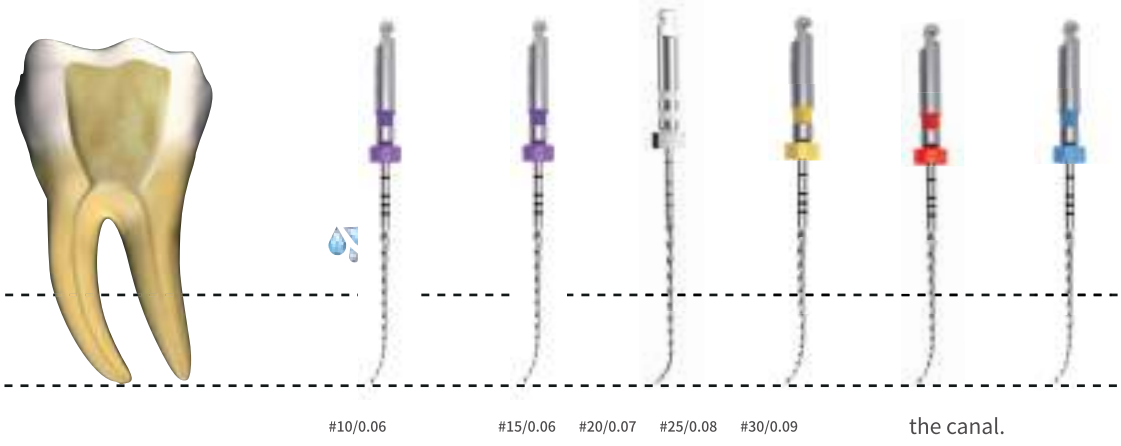
(6pcs/box)

The most important problem in ledge treatment is to understand how ledges are formed in root canal:

All nickel-titanium instruments have both good and bad things. They are all called “memory” files. The good thing is that the nickel-titanium file has elastic and self-adaptor. The bad thing is when the rotating file stays at the curved root canal, it is still cutting the outer part of the bend, and the problem arises. The time the ledge is formed depends on the design of the file (the stronger the cutting ability of the file, the faster the ledge formation). As the root canal tends to return to the design shape, the ledges are formed. The use of rigid hand files in root canal preparation, or preparation for too rush, violence, may also lead to the formation of ledges.

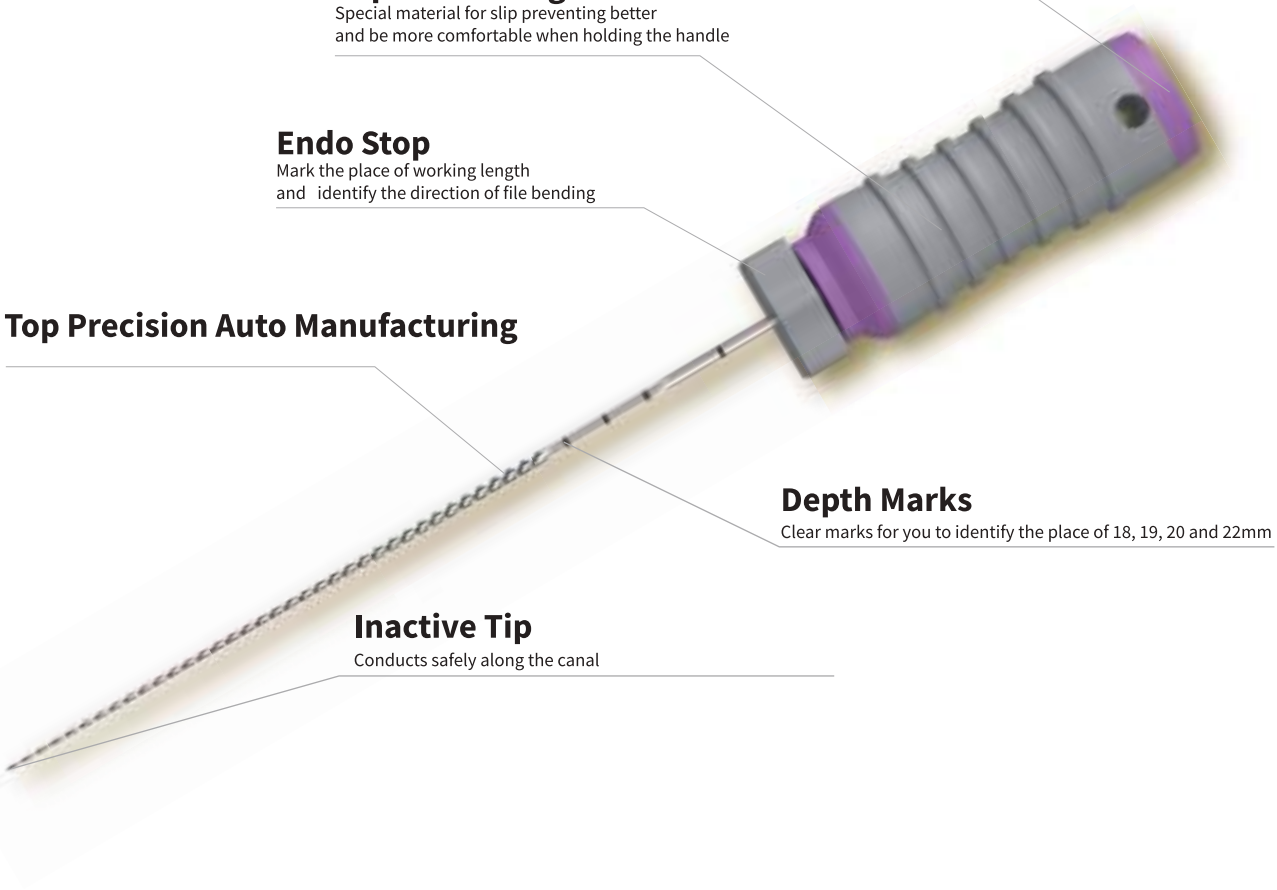
Instructions for use AF™CL

step by step



1. Insert file #10/0.06 manually until crossing the ledge.
2. Attach the Endomotor to the file while the file is in the canal.
3. Set the Endomotor on reciprocating movement with the followings angles (CW 90-150, CCW 30).
4. With the reciprocating motion, move the file I pecking motion (in and out motion) for 2-3 mm.
5. Irrigate the canal.
6. Repeat the steps (1-5) respectively for other files in order (10/0.08, 15/0.06, 20/0.07, 25/0.08 then 30/0,09).
7. Insert K file to working length to ensure the patency of

TIGER™ HAND FILES



6 8 10 15 20 25 30 35 40
45 50 55 60 70 80

- **Ø ISO 6, 8, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80 (Sst)**
- **Ø ISO 10, 15, 20, 25, 30, 35, 40 (NiTi)**
- **Lengths : 21, 25, 31 mm**
- **Taper : 2%**

Unique Tiger™-R Non-slip Handle Design

Excellent Cutting

Better Flexibility

High-Quality Stainless Steel

Suitable for Complex Anatomies

Tiger™ Hand Files

Hand file is the most widely used ISO standard preparation instrument in clinical practice and has a strong cutting ability. And our Tiger™ adds one more element to take care of the convenience based on the original hand file, rubber handle, we choose the special material for slip preventing better when dentists hold the handle.

For K file

It is a kind of stainless steel wire twisted into a spiral, and its working end is composed of a spiral cutting ridge. The larger the size of K file, the smaller the cutting angle, and the denser the spiral grain, the higher the cutting efficiency.

For H file

It is so similar to the tail of a mouse and named a rat tail, it has a strong cutting ability, so it is generally used for lifting up and down. stainless steel instruments have advantages over nickel-titanium instruments in relatively straight and irregular root canals.

For C file

It is especially suitable for extremely curved calcified root canals. It increases the possibility of negotiating calcified curved root canals. The success rate of root canal treatment was further improved. Due to the unique manufacturing process and the vacuum condition of smelting, the tip has high strength and good flexibility at the back, which greatly reduces the occurrence of root canal transportation or lateral penetration.

Tips

#6, used for severe calcified root canal for its acute tip, no obvious cutting function

#8, dredging and be convenient for #10 accessing to working length

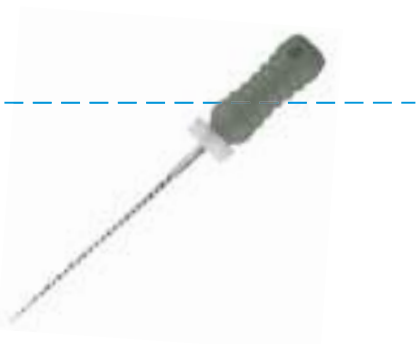
#10, surpassing the position of apical foramen and be convenient for #15 accessing to working length

In General, Small size files are used for dredging root canal and exploring a pathway

STAINLESS STEEL K FILE

SIZE	21MM	25MM	31MM	
#6	H14 2602 021 006	H14 2602 025 006	H14 2602 031 006	
#8	H14 2602 021 008	H14 2602 025 008	H14 2602 031 008	
#10	H14 2602 021 010	H14 2602 025 010	H14 2602 031 010	
#6 - #10	H14 1602 021 001	H14 1602 025 001	H14 1602 031 001	
#15	H14 2602 021 015	H14 2602 025 015	H14 2602 031 015	
#20	H14 2602 021 020	H14 2602 025 020	H14 2602 031 020	
#25	H14 2602 021 025	H14 2602 025 025	H14 2602 031 025	
#30	H14 2602 021 030	H14 2602 025 030	H14 2602 031 030	
#35	H14 2602 021 035	H14 2602 025 035	H14 2602 031 035	
#40	H14 2602 021 040	H14 2602 025 040	H14 2602 031 040	
#15 - #40	H14 1602 021 002	H14 1602 025 002	H14 1602 031 002	
#45	H14 2602 021 045	H14 2602 025 045	H14 2602 031 045	
#50	H14 2602 021 050	H14 2602 025 050	H14 2602 031 050	
#55	H14 2602 021 055	H14 2602 025 055	H14 2602 031 055	
#60	H14 2602 021 060	H14 2602 025 060	H14 2602 031 060	
#70	H14 2602 021 070	H14 2602 025 070	H14 2602 031 070	
#80	H14 2602 021 080	H14 2602 025 080	H14 2602 031 080	
#45 - #80	H14 1602 021 003	H14 1602 025 003	H14 1602 031 003	
#90	H14 2602 021 090	H14 2602 025 090	H14 2602 031 090	
#100	H14 2602 021 100	H14 2602 025 100	H14 2602 031 100	
#110	H14 2602 021 110	H14 2602 025 110	H14 2602 031 110	
#120	H14 2602 021 120	H14 2602 025 120	H14 2602 031 120	
#130	H14 2602 021 130	H14 2602 025 130	H14 2602 031 130	
#140	H14 2602 021 140	H14 2602 025 140	H14 2602 031 140	
#90 - #140	H14 1602 021 004	H14 1602 025 004	H14 1602 031 004	

(6pcs/box)



C-FLEX FILE

- FOR SEVERELY CURVED OR CALCIFIED CANALS
- EXCELLENT CUTTING

SIZE	21MM	25MM	31MM	
#6	H17 2602 021 006	H17 2602 025 006	H17 2602 031 006	
#8	H17 2602 021 008	H17 2602 025 008	H17 2602 031 008	
#10	H17 2602 021 010	H17 2602 025 010	H17 2602 031 010	
#12	H17 2602 021 012	H17 2602 025 012	H17 2602 031 012	
#15	H17 2602 021 015	H17 2602 025 015	H17 2602 031 015	

STAINLESS STEEL HEDSTROEM FILE

SIZE	21MM	25MM	31MM	
#6	H15 2602 021 006	H15 2602 025 006	H15 2602 031 006	
#8	H15 2602 021 008	H15 2602 025 008	H15 2602 031 008	
#10	H15 2602 021 010	H15 2602 025 010	H15 2602 031 010	
#6 - #10	H15 1602 021 001	H15 1602 025 001	H15 1602 031 001	
#15	H15 2602 021 015	H15 2602 025 015	H15 2602 031 015	
#20	H15 2602 021 020	H15 2602 025 020	H15 2602 031 020	
#25	H15 2602 021 025	H15 2602 025 025	H15 2602 031 025	
#30	H15 2602 021 030	H15 2602 025 030	H15 2602 031 030	
#35	H15 2602 021 035	H15 2602 025 035	H15 2602 031 035	
#40	H15 2602 021 040	H15 2602 025 040	H15 2602 031 040	
#15 - #40	H15 1602 021 002	H15 1602 025 002	H15 1602 031 002	
#45	H15 2602 021 045	H15 2602 025 045	H15 2602 031 045	
#50	H15 2602 021 050	H15 2602 025 050	H15 2602 031 050	
#55	H15 2602 021 055	H15 2602 025 055	H15 2602 031 055	
#60	H15 2602 021 060	H15 2602 025 060	H15 2602 031 060	
#70	H15 2602 021 070	H15 2602 025 070	H15 2602 031 070	
#80	H15 2602 021 080	H15 2602 025 080	H15 2602 031 080	
#45 - #80	H15 1602 021 003	H15 1602 025 003	H15 1602 031 003	
#90	H15 2602 021 090	H15 2602 025 090	H15 2602 031 090	
#100	H15 2602 021 100	H15 2602 025 100	H15 2602 031 100	
#110	H15 2602 021 110	H15 2602 025 110	H15 2602 031 110	
#120	H15 2602 021 120	H15 2602 025 120	H15 2602 031 120	
#130	H15 2602 021 130	H15 2602 025 130	H15 2602 031 130	
#140	H15 2602 021 140	H15 2602 025 140	H15 2602 031 140	
#90 - #140	H15 1602 021 004	H15 1602 025 004	H15 1602 031 004	

(6pcs/box)

MC FILES

- High Flexibility Stainless Steel Instruments
- Build up Smooth Path to Posterior Teeth
- Excellent Negotiation Performance

One time use only.

Operation method:

The micro files are mainly used for root canal negotiation and exploration, but not for root canal preparation. Because the design of its long handle limits the rotation of the instrument. The main purpose is to clean the dirt layer and negotiate the root canal.

MC-SHAPER

SINGLE SIZE	TAPER	SIZE	PN
#1	02	#20	F13 2302 020
#2	02	#25	F13 2302 025
#3	02	#30	F13 2302 030
ASSORTED			PN
#1 + #2 + #3			F13 1302 000

（3pcs/box)

MC - SHAPER:　Specialty for 02 Taper

MC-OPENER

SINGLE SIZE	TAPER	SIZE	PN
#1	04	#10	F13 2304 010
#2	04	#15	F13 2304 015
#3	04	#20	F13 2304 020
ASSORTED			PN
#1 + #2 + #3			F13 1304 000

（3pcs/box)

MC - OPENER:　Specialty for 04 Taper

With the continuous advancement of stomatology, MC files are used more and more widely. Oral microscopes provide excellent illumination systems, stable vision and multilevel amplification systems. Compared with traditional treatment methods, the micro root canal treatment enlarges the partial field of view, and the light source entering the medullary cavity or the root canal is sufficient, so that the clinician can see the fine structure inside the root canal, greatly improving the efficiency and quality of the treatment.

It's so convenient to solve the problem that the view of the traditional hand file is blocked under the lens.

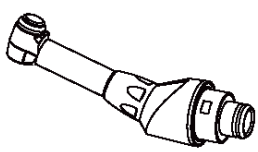
ENDO MOTOR

- With Multi-Frequency length measuring technology and the function of root-canal length measuring and enlargement.
- Colorful OLED screen.
- The Contra-angle can rotate freely.
- Built in different File systems.
- Four working modes.
- Seven functions including Apex Locator, rotary motion, Automatic deceleration in apical zone, Automatic inversion in apical zone, Automatic inversion of torque, both root-canal length measuring and enlargement.

Model： SCM-011
Dimensions of Main Unit: Φ31(Biggest Diameter)x148mm(Length)
Weight of Main Unit: 112g
SCM-011 is composed of main unit, charge base, contra-angle, measuring wire, file clip, lip hook, touch probe, rubber case and charging wire

The structural figure of the device

The figures of the main accessories



a Contra-angel

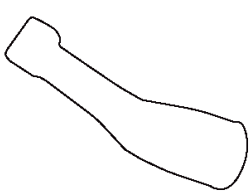
a File clip

b Lip hook

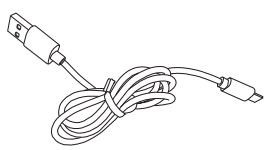
d Touch Probe

e Measuring wire

f Single-head measuring wire



g Rubber case



h Charging wire

IRRIGATION

2

IRRIGATION NEEDLE

IRRIGATION NEEDLE

- Thin Wall
- Two lateral vents
- Closed front-end
- Rounded tip
- Free of burrs

Two lateral vents

The Needle with two lateral vents for gentle but effective irrigation of the root canal. Special design for two lateral vents and rounded end that the full length of the root canal may be safely irrigated. This thin walled needle is designed to improve flow rate, to offer better irrigation and to provide more flexibility.

Note:

1.Pay attention to the crystal in flashing fluid to block irrigation needle, washing needle with clear water or washing plugging needle with ultrasonic.

2.Suitable for curved root canal, pre-bend needle in advance.

FANTA® DENTAL MATERIALS

OBTURATION

3

Gutta Percha Point

Bio-Ceramic Gutta Percha Point

Paper Point

AF Sealer Series

AF BC-Sealer BP

AF BC-Sealer SP

AF MTA

AF PLUGGER

AF SPREADER

GUTTA PERCHA POINT

- Obtained from natural latex
- Be good plasticity
- soften heated by 40 ℃
- Good tissue affinity
- Be athermic & non-conducting

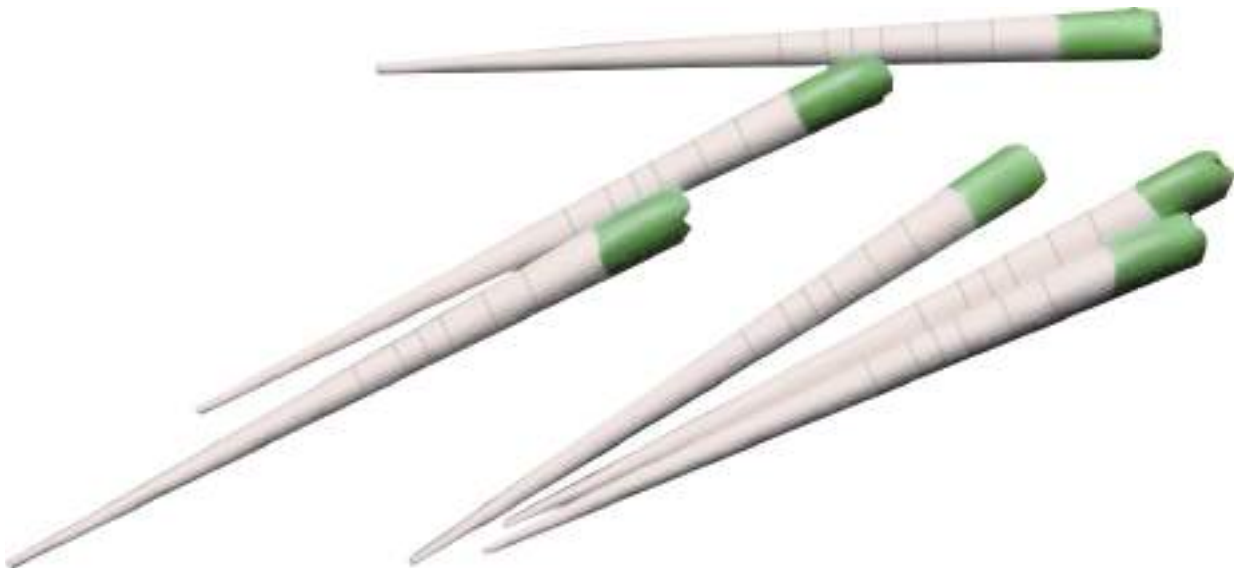
Made of rubber, good plasticity, soften heated by 40°C, hardened after cooling, tightly packed, good tissue affinity, according to ISO standard, size can be rectified by the top's color, it can be easily taken out from the root canal.

To fill the root canals with a bio compatible material. The gutta-percha is placed with an adhesive cement to ensure complete sealing of the root canals. In most cases, a temporary filling is placed to close the opening.

Tips:

Tip finishing: Cutting with scalpel rather than sheer force, because the section of cutting is roundish, but the section of sheer is oblate. It's also can used with professional trimmer.

BIO- CERAMIC GUTTA PERCHA POINT



Bioceramic Product

25%	35%	29.5%	10%
Gutta percha	zirconia	zinc oxide	barium sulfate

A. Suitable for single cone, better bonded with root canal sealer (like AF sealer)to improve obturate effects

B. Perfect Biocompatibility

C. X ray opacity is 30%-40% higher than conventional guatta percha point

D. More precise dimension

E. Cut-off in swift and smooth

F. Gutta percha get better flow-ability after heating for better lateral fitting

Modern root canal filling technology is to achieve a high degree of compactness, good taper, accurate length and complete sealing of all root canal spaces (including branches, lateral branches, isthmus and traffic branches) by filling the prepared root canal with gutta percha and sealant.

PAPER POINT

- Assorted or Individual Sizes
- 02 Taper 200pcs/box
- 04 or 06 Taper 100pcs/box

To dry the canals and allow better adhesion of the sealing and obturation materials.

SINGLE SIZE	TAPER	PN	
#15	02	PP20215	
#20	02	PP20220	
#25	02	PP20225	
#30	02	PP20230	
#35	02	PP20235	
#40	02	PP20240	
#15 - #40	02	PP10201	
#45	02	PP20245	
#50	02	PP20250	
#55	02	PP20255	
#60	02	PP20260	
#70	02	PP20270	
#80	02	PP20280	
#45 - #80	02	PP10202	
#15	04	PP20415	
#20	04	PP20420	
#25	04	PP20425	
#30	04	PP20430	
#35	04	PP20435	
#40	04	PP20440	
#15 - #40	04	PP10401	
#45	04	PP20445	
#50	04	PP20450	
#55	04	PP20455	
#60	04	PP20460	
#70	04	PP20470	
#80	04	PP20480	
#45 - #80	04	PP10402	

(02 Taper 200pcs/box, 04 or 06 Taper 100pcs/box)

#15	PP06	20615	
#20	PP06	20620	
#25	PP06	20625	
#30	PP06	20630	
#35	PP06	20635	
#40	PP06	20640	
#15 - #40	PP06	10601	
#45	PP06	20645	
#50	PP06	20650	
#55	PP06	20655	
#60	PP06	20660	
#70	PP06	20670	
#80	PP06	20680	
#45 - #80	PP06	10602	

AF SEALER SERIES

- Induct bone regeneration
- Non-Cytotoxicity
- Optimal for cold obturation
- Perfect image presented on X-ray
- Improve the rate of success in root canal therapy

1. Wash out root canal for preparation radically before using it.

2. Take off syringe cap, and screw needle.

3. Put the needle into the deepest position in root canal, and push lightly till to the apical, check by X-ray to confirm obturation, but you should start it again if there is lack of enough dose to obturate.

4. Obturate root canal, and extract needle slightly simultaneous. Remember to avoid to generate bubble.

5. Clean spare sealer in root canal with wet cotton ball.

6. Insert Gutta percha cone in root canal according to normal steps.

7. Take off needle in root canal from sealer syringe, tighten syringe cap and obturate in tin foil, then store in dry room.

AF SEALER BP

Product Introduction

1. Root canal sealant is a premixed bioceramic root canal sealant, which can be used for permanent filling and sealing of root canals
2. Paste can effectively fill the gap between root canal wall and Peri apical tissues in root canal therapy, residual bacteria in root canals and irregular structure of root canal filling system
3. X-ray radioactivity higher than dentin, It can be identified on X-ray film and be favorable for follow-up observation of treatment process and post-operation
4. It is composed of homogeneous nanoparticles with good fluidity. Dentinal tubule and collateral root canals permeable into root canals, Solid physical and chemical bonding with dentin.
5. During setting, the volume does not shrink and is not absorbed by tissues, It can mediate the regeneration of dental pulp and periodontal tissue and has certain osteogenesis properties
6. The release of hydroxide ions during solidification and penetration into dentin increase the PH value of the surrounding environment
7. Setting and hardening need to absorb water from periapical tissues and dentinal tubules to participate in the response, and are not affected by humid environment
8. The paste can be directly injected into the root canal without modulation. It is easy to operate, time-saving and easy to use

Ingredients: calcium silicate, calcium hydroxide, zirconia and filler

AF SEALER BP

Product Advantage

- Good liquidity, good display of root tip divergence, played an effective role in sealing
- Setting time in physiological environment is 3-4 hours to ensure adequate clinical operation time
- Curing process does not shrink
- Strong bacteriostasis and antimicrobial activity
- X-ray visualization performance is good, can be perfectly imaged, easy to observe post operatively
- The compressive strength is 40-60 Mpa. It can improve the strength of root canals after treatment and is not easy to cause root fracture.

Applied Range

- Permanent root canal filling after pulpectomy
- Single cone or cold lateral obturation
- Repair of Root Absorption
- Apexification
- Repair of lateral perforation of root canal

Usage

1. Direct pulp capping and pulpotomy are the main methods to preserve vital pulp. AF Sealer BP has higher ability of biomineralization and dentin differentiation. Covering the exposed pulp wound can induce calcium bridge formation at the exposed pulp interface and effectively seal the exposed pulp.

1. Rubber dam isolation

2. Using a high-speed drill to remove the infected pulp, prepare the cavity, and then use a low-speed drill to remove the deeper caries

3. Sufficient hemostasis, moisture insulation, with sterile dry cotton pallet wipe dry caves

4.Gently apply the sealer on the exposed pulp for a thickness of 1 mm.

5. Wet cotton pallet erase excess material

6. Cover the sealer with a flowable resin composite and the cure, to protect the sealer.

7. Fill the canal with a permanent restoration

Take a dental film during subsequent follow-up visits, and then go back every three to six months or as needed

AF SEALER SP

Product Introduction

1. This product is a paste-like bioceramic root canal repair material, which can be used for permanent root canal filling and perforation repair
2. It is composed of homogeneous nanoparticles with a diameter of 10-50 mm. It contains calcium silicate, calcium phosphate and other bioactive raw materials. It has excellent physical, chemical and biological properties
3. The X-ray resistance of dentin is higher, so it can be identified by X-ray film, which is helpful for the follow-up observation of treatment process and post-operatively
4. During the setting process, the volume does not shrink and is not absorbed by tissues. It can mediate the regeneration of dental pulp and periodontal tissues with certain osteogenesis
5. Hydrophilic material, with good adhesion, can closely adhere to the medullary cavity wall, no displacement under external force
6. The initial pH value is 12.4-12.8. During solidification, hydroxide ions are released and penetrated into dentin, which increases the pH value of the surrounding environment, thus producing strong antimicrobial activity against common pathogenic bacteria in infected root canals
7. The setting reaction requires the participation of water, so a wet or bloody environment will not affect the curing of the material

Product Advantage

. Good seal and morphological stability
. The setting time is 3-4 h, the compressive strength is 40-60 MPa after setting, and the volume does not shrink
. It has strong bacteriostatic and antimicrobial properties and significant inductive effect on bone repair
. Premixed white paste, independently packaged, can be directly injected into the root canal, easy to use
. X-ray obstruction performance is good, can be perfectly imaged, easy to observe post operatively

Applied Range

This product has certain advantages in pulp capping, filling lateral perforation and apical barrier. It can be used in conjunction with AF Sealer SP. First, AF Sealer SP is injected into the inverted cavity, and then AF Sealer BP is covered in the hole. The former has good fluidity and can penetrate into the dentinal tubules and collateral root canals in the root canal. The latter has more advantages in resisting the erosion of blood and tissue fluid.

Pulp Capping

. Pulpotomy, direct or indirect pulp capping
. Perforation of medullary floor and repair of medullary cavity wall
. Root canal lateral wall repair
. Apical barrier

Applied Diseases and Usage

Routine root canal filling

It can be used alone or in conjunction with gutta-percha. with single cone gutta percha alone or with accessory cones if needed.

1. Prepare and rinse and disinfect root canals according to root canal therapy
2. Choose the appropriate delivery needle, place the needle in the deepest part of the root canal, gently and continuously inject the needle to the apex and slowly extract the needle while filling; during filling process, ensure that the root canal is completely filled to avoid bubble formation and excessive filling
3. Insert the corresponding gutta percha cone to full working length.
4. After filling, use moist cotton balls to clean the excess paste at the root canal orifice
5. Take X-ray photographs to check the effect of apical filling. If the filling is not tight, rinse the paste out of the root canal and repeat the above procedures
6. Sealing wet cotton balls in root canals with temporary sealing materials for at least 4 hours
7. Four hours later or another appointment for follow-up, check whether it is hard, if not, repeat the above process; if it is hard, fill the remaining root canals, AF Sealer SP can be retained in the root canal as a permanent filling part

AF - MTA

· Enhances formation of mineralized tissues; provides the biological seal of perforations and total repair of damaged periradicular tissues

· Capable of inducing neoformation of periradicular cementum

· Does not lose properties due to moisture of oral tissues

· Low inflammatory response

· Easy radiograph visibility

There is an innovation on our MTA, in the early stage, the main components of AF MTA were dicalcium silicate, tricalcium silicate, tricalcium aluminate, and tricalcium aluminate, etc. Its disadvantages were low compressive strength and not suitable for the repair of mastication and other functional areas. The dry environment would reduce its compressive strength. AF MTA is optimized based on the original AF MTA to make its compressive strength higher and reduce the content of aluminum, iron, manganese and other elements, to avoid discoloration in the later stage, which is more safe and effective.

Instruction

1. Open a pouch of MTA root repair material and dispense the powder onto a mixing pad.

2. Pull off the end of an MTA liquid micro-dose ampoule and squeeze out contents onto the mixing pad next to the root repair material.

3. Incorporate the liquid into the cement gradually using the MTA mixing stick.

4. Mix the material with the liquid for about one minute to ensure all the powder particles are hydrated.

5. One extra ampoule is provided or if needed, USP purified water or betters can also be used. Discard the remaining liquid.

AF PLUGGER

- Stainless steel plugger with length markings
- Flexible Ni-Ti hand plugger for narrow and curved canals
- ISO color marking
- Specialty for Both NITI and Stainless Steel Tips
- Double tip for two different sizes

Wipe with alcohol.

Tips:

1. Instruments be cleaned and sterilized complying to the rules of relative department and country
2. Not use disinfectant contained chloride for metal material instruments, or it will severely damage a lot for instruments
3. Disinfectant should add to several corrosion inhibitor before instruments be disinfected

AF SPREADER

Available in stainless steel

Conical Tip Used for Lateral Filling

A. Put the Master gutta percha cone into root canal, with X-ray film, the master cone should reach the full working length and tu-back upon removal (if the working length is no reached, the smaller gutta-percha should be replaced). When there is still tug back, you can reduce the main gutta-percha by about 0.5mm and try again until there is friction. After the modification, the master cone should be disinfected with Sodium Hypochlorite and ready for use.

B. Insert the AF spreader to 2mm less than working length to make a space for accessory cones.

C. Insert accessory cone and insert the AF Spreader again to make a space for additional accessory cones. Repeat the above steps until the lateral compressure instrument can only enter the orifice 2-3mm. During this period, the matching of stainless steel and nickel-titanium lateral compressure instruments and the matching of conventional 2% taper and large taper lateral compressure instruments were used according to the dentist's own knowledge of the instrument and his own experience.

D. The root canal filling was completed, and the lateral compressure filling was completed. Remove excess gutta-percha, vertical pressurization and heat pressurization, clean the residual gutta-percha and root filler in the pulp chamber, dry, pad 4 small cotton pallets, fill the gutta-percha, and seal orifice with permanent restoration.

Lateral compressure

Pay attention to the upper 1/3 of the crown, conform to the shape of the root canal, and fit the Master gutta percha cone in the root canal to perform the lateral pressure, pay attention to the pressure intensity and way, after the pressure is applied, a certain degree of positive and negative clock position rotation can be held to create lateral compressure.

FANTA DENTAL MATERIALS

4

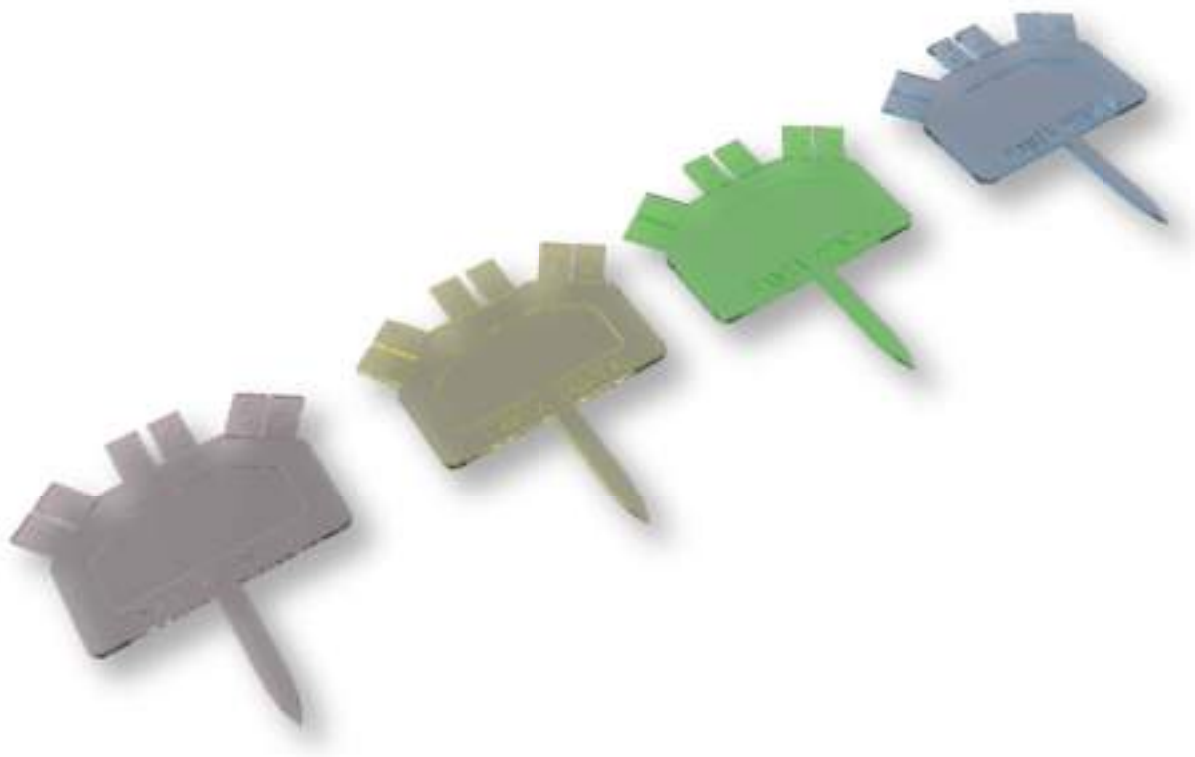
OTHERS

MARKING TABS

FIBER POST

MARKING TABS

- 4 Colors for Choice
- Autoclavable
- 6 Numbered Tabs
- Easy Insert to File Organizer or Endo Rings



The user can track how many times a set of files has been used by easily removing one of the six numbered tabs located on the top edge of the file organizer.

AF POST

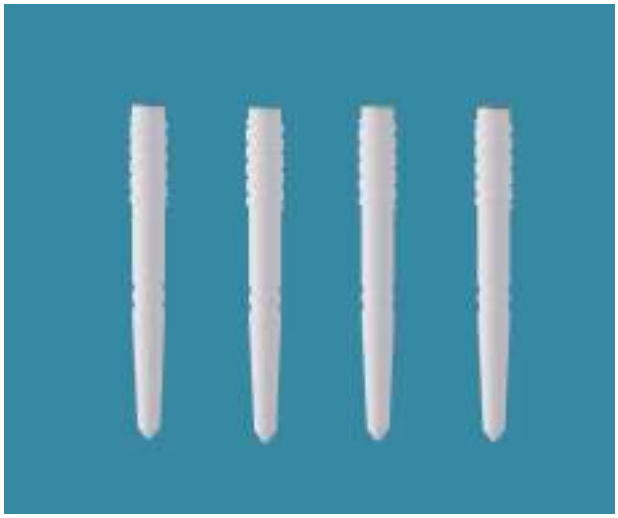
Material: Translucency, refractive natural luster of dental tissue, maxim to reduce shadows, natural aesthetic effect will occur combined with all-ceramic crown

	ΦTop	ΦMedium	ΦBottom	Taper	Length	
1#	1.60	1.20	0.75	0.025	15mm	
2#	1.80	1.40	1.00	0.025	15mm	
3#	2.00	1.60	1.05	0.025	17mm	
4#	2.20	1.80	1.30	0.025	17mm	

Top: The bonding point is designed with an oblique heave, relieve muti-directional cross-change stress, to increase bonding area, improve lock-in strength, prevent twisting loose, enhance the further reliability to use

Middle: Annular screw retention groove, increase axial solidity strength and effective bond area

Bottom: Cone shaped design, suitable for root canal anatomy, enhance the consistency between the pile and the root canal, accurate positioning, help to reduce root canal reserves, prevent the occurrence of root canal perforation



Radiopacity: 1.6mmAL
Modulus of elasticity (Et): 20-30Gpa

There are no defects such as burrs, cracks, scratches, powders, obviously exposed fibers, and fibers that are not immersed in the fiber pile surface.

Scanning electron microscopy showed that the fiber content was more than 65%, the fiber arrangement was uniform, and there was no deformation, which provided a reliable horizontal fracture resistance to the pile.

FANTA DENTAL MATERIALS

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