



PERFECT



Root Canal Product Series

- ⊙ Dental Burs
- ⊙ Endodontics
- ⊙ Orthodontics

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Shenzhen PERFECT Medical Instruments Co., Ltd



3009431661

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Company Profile

Shenzhen Perfect Medical Instruments Co.,Ltd, located in Shenzhen, Guangdong Province, is an integrated professional dental supplier in developing, manufacturing, and marketing. It set up in 2008 which committing to the innovation of products.

Dental Repair Products: Diamond Burs, Tungsten Carbide Burs.

Dental Pulp Products: Stainless Steel / Nickel Titanium Endo Files(Hand/Engine), Multiple Taper Files, Gates Drills, Peeso Reamers, Barbed Broaches, Paste Carriers and so on.

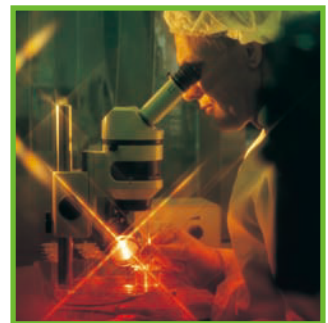
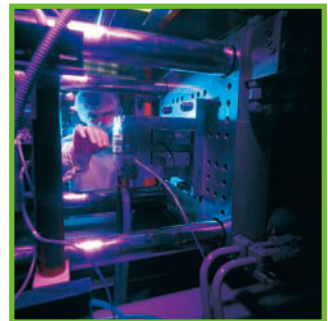
Dental Orthodontics Products: NITI Round Archwires / Rectangular Archwires, Reserve Curve Archwires, Open / Closed Springs.

Pulp Washing Products: Ultrasonic Wave Files (U-Files)

RCT Equipment: Portable Motors, Two in one Motors, Four in one Motors, Heat gutta-percha Instruments, Ultrasonic Vibration Instruments.

After years of development, production equipment completed fully automated basically, greatly improved the production efficiency. Perfect is adhering to the business philosophy of "Quality First, Customer First, Service First" and insists on innovation, quality, service. We have got ISO13485, CE Certificate and FDA Certificate. Our products are now being sold to all over the world and have been obtained a good reputation from customers.

We sincerely welcome all the friends to visit us!



Certificate

The Certification Body of
TÜV Rheinland LGA Products GmbH

hereby certifies that the organization
**Shenzhen Perfect Medical
Instruments Co., Ltd.**
No. 502, Building E, No. 8 East,
Shangxue Technology Park, Bantian
518129 Longgang, Shenzhen,
China

has established and applies a quality management system for medical devices
for the following scope:

**Manufacture and Distribution of
Orthodontic Wires and Dental Root-Canal Instruments**

Proof has been furnished that the requirements specified in

**EN ISO 13485:2012
EN ISO 13485:2012/AC:2012**

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date: 2015-03-18
Certificate Registration No.: SX 60098927 0001
An audit was performed. Report No.: 17044106 001
This Certificate is valid until: 2018-02-20

Certification Body

TÜV Rheinland LGA Products GmbH · Tillystraße 2 · 90431 Nürnberg
Tel. +49 201 808-1377 Fax. +49 201 808-3035 e-mail cert@tdg.tu-rheinland.de www.tu-rheinland.de

EC Certificate

Directive 93/42/EEC Annex V
Production Quality Assurance
Medical Devices

Registration No.: DD 60107523 0001
Report No.: 17044106 002

Manufacturer: Shenzhen Perfect Medical
Instruments Co., Ltd.
1st Floor, Building C
No. 3 Jishi Zao He Keng Industrial Zone
Nanwan Road, Longgang District
Shenzhen
518100 Guangdong
China

Products:
- Orthodontic Wires
- Dental Root-Canal Instruments
- Dental Burs

Regulace Approval, Registration No.: CD 60098926 0001

Expiry Date: 2020-02-20

The Notified Body hereby declares that the requirements of Annex V of the directive 93/42/EEC have been met for the listed products. The above named manufacturer has established and applies a quality assurance system, which is subject to periodic surveillance, defined by Annex V, section 4 of the aforementioned directive. For placing on the market of class IIb and class III devices covered by this certificate an EC type-examination certificate according to Annex III is required.

Effective Date: 2016-04-08
Date: 2016-04-08

TÜV Rheinland LGA Products GmbH · Tillystraße 2 · 90431 Nürnberg
TÜV Rheinland LGA Products GmbH is a Notified Body according to Directive 93/42/EEC concerning medical devices with the identification number 0197.

2015-41E

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Establishment:
SHENZHEN PERFECT MEDICAL INSTRUMENTS CO., LTD.
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Shangxue Tech Park, Bantian, Longgang
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Registration Number: 20150318
State: Active
Date of Registration Status: 2015

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第一类医疗器械生产备案凭证

备案号：粤深食药监械生产备 20150005 号

企业名称	深圳市葆丰医疗器械有限公司			
住所	深圳市龙岗区南湾街道吉厦早禾坑工业区 3 号 C 栋厂房一楼。			
生产场所	深圳市龙岗区南湾街道吉厦早禾坑工业区 3 号 C 栋厂房一楼。			
法定代表人	施权章	企业负责人	施权章	
生产范围	6806 口腔科手术器械			
生产产品 列表	产品名称	产品备案号	登记日期	备注
	根管锉	粤深械备 20150023 号	20150130	—
	牙用输送器	粤深械备 20150025 号	20150202	—
	拔髓针	粤深械备 20150024 号	20150202	—
	—	—	—	—

备案日期：2015年02月26日
(1)

Material: {
 Nickel Titanium: Stronger toughness and fracture resistance
 Stainless Steel : Stronger cutting force

Root Canal Files

Feature:

- ◆ ISO color coded plastic handle with ISO tip size
- ◆ Extremely strong, flexible and durable
- ◆ Silicon stopper
- ◆ Sterilizable. Max: 150°C

ISO Size and Color

SIZE / PACKING

x6				
008	010	015	020	025
030	035	040	045	050
055	060	070	080	



Hand use Files:

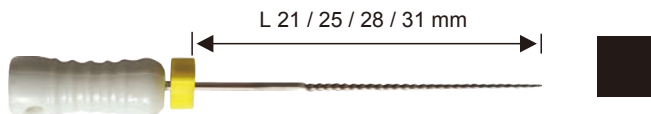
- **Materials:** Imported raw materials--dental high quality raw materials.
- **Silican Stopper:** Dental high quality raw materials, to confirm the position when root canal treatment
- **Handle :** Each file with clear sign for a ISO size accordingly

K Files H Files Reamers	}	Length: 21mm, 25mm, 28mm, 31mm Assorted Package: #15-40/ #45-80 Taper: .02 Packing: 6 pcs/box
---------------------------------------	---	------------------------------------------------------------------------------------------------------------------------------------

SIZE / PACKING	
x6	ISO 015-040
008 010 015 020 025	015 020 025 030 035 040
030 035 040 045 050	x1 ISO 045-080
055 060 070 080	045 050 055 060 070 080

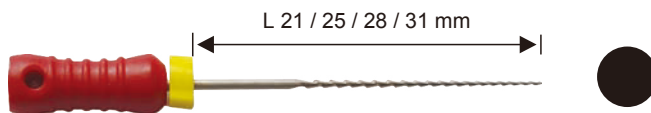
Stainless Steel / NITI K Files (Hand)

- Strong and stable instruments for searching root canal, cleaning and shaping the canal walls.
- Taper: .02
- Packing: 6pcs/box



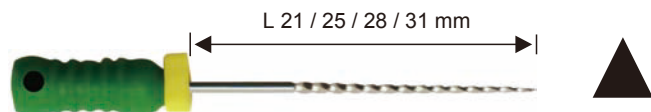
Stainless Steel / NITI H Files (Hand)

- Fast cutting instruments for fast removal of debris.
- Taper: .02
- Packing: 6pcs/box



Stainless Steel / NITI Reamers (Hand)

- Instruments for smooth preparation of the canal walls.
- Taper: .02
- Packing: 6pcs/box



Material {

- Nickel Titanium: Good flexibility and fracture resistance
- Stainless steel: Stronger toughness and cutting force



Engine Use Files:

K Files

H Files

Reamers

Length: 21mm, 25mm, 28mm, 31mm

Assorted Package: #15-40/ #45-80

Taper: .02

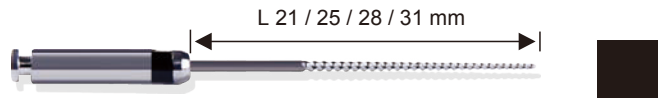
Packing: 6 pcs/box

SIZE / PACKING



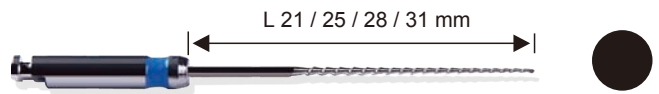
Stainless Steel / NITI K Files (Engine)

- Strong and stable instruments for searching root canal, cleaning and shaping the canal walls.
- Taper: .02
- Recommended Rotary Speed: 250-350 rpm
- 6 pcs/box



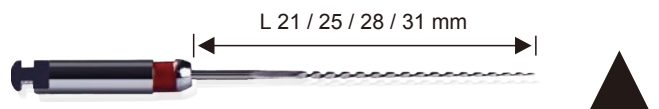
Stainless Steel / NITI H Files (Engine)

- Fast cutting instruments for fast removal of debris.
- Taper: .02
- Recommended Rotary Speed: 250-350 rpm
- 6 pcs/box



Stainless Steel / NITI Reamers (Engine)

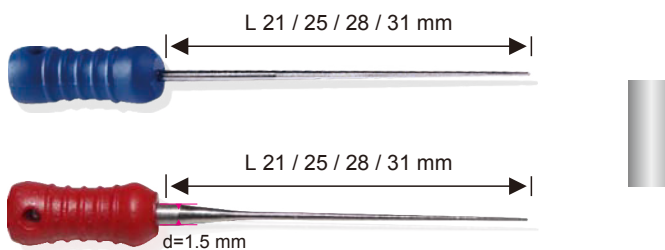
- Instruments for smooth preparation of the canal walls.
- Taper: .02
- Recommended Rotary Speed: 250-350 rpm
- 6 pcs/box



Stainless Steel / NITI Pluggers

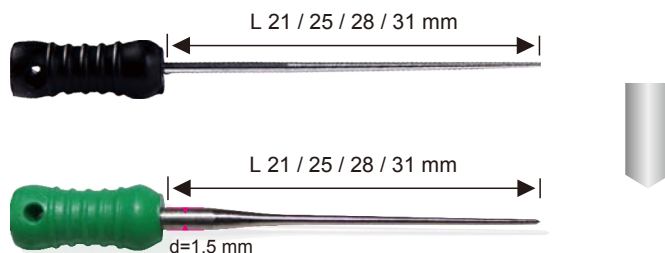
- Smooth conical shape with flat tip. Used for both vertical and lateral compacting of gutta-percha and other filling materials.
- Taper: .02
- Packing: 6 pcs/box

SIZE / PACKING	
x6	x1 ISO 015-040
015 020 025 030 035	015 020 025 030 035 040
040	



Stainless Steel / NITI Spreaders

- Smooth conical shape with pointed tip. Used for measuring the space between gutta-percha or other filling materials, so as to increase the density of canal fillings.
- Taper: .02
- Packing: 6 pcs/box



Stainless Steel / NITI Spreaders, Pluggers

Stainless Steel / NITI Spreaders, Pluggers

- Imported raw materials, advanced technology to make the surface smooth, not stick the fillings when pressing.
- The process of heat gutta-percha can effectively prevent over-filling. To prevent the force too large when the diameter of the root tip narrow place not confirmed.
- Each instrument has two working side, large working side for stainless steel materials, while small working side for nickel titanium materials. Both side is for pressure.
- New design concept, aluminum alloy handle, lightweight and stronger oxidation resistance.
- Pluggers and Spreaders can be used for cold and hot gutta-percha. The application of filling technology, such as cold gutta-percha spreaders filling technology, hot gutta-percha pluggers filling technology and heat gutta-percha continuous wave filling technology can make root canal filling more closed and enriched.



SIZE / PACKING	
x4	ISO 015-060
015	020 025 030 035
040	045 050 055 060
070	080 090 100 110
120	130 140
x1	ISO 015-060
015-045	020-050
025-055	030-060
x1	ISO 035-100
035-070	040-080
045-090	050-100
x1	ISO 055-140
055-110	060-120
070-130	080-140



U-FILE

- Materials: Imported raw materials-dental high quality medical raw materials.
- Tip with excellent tenacity is used for root canal cleaning. The usage of cleaning tooth machine into the canal, the default power is set automatically but it can adjust according to actual situation.
- Material: Stainless Steel / NITI
- Diameter: 0.8
- Taper: .02
- 6 pcs/box

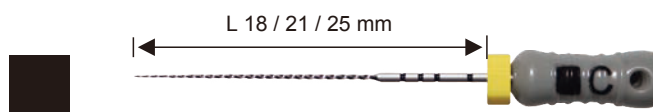
SIZE / PACKING	
x6	ISO 015-040
015	020 025 030 035
040	
x1	ISO 015-040
015	020 025 030 035 040



Stainless Steel / C FILES

- Materials: Imported raw materials-dental high quality raw materials.
- Silicon Stopper: Dental high quality raw materials, to confirm the position when root canal treatment
- Handle : Each file with clear sign for ISO size accordingly Used to dredge difficult or calcified root canals, cutting tip which engages dentine.
- Taper: .02
- Packing: 6 pcs/box

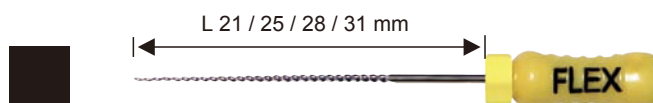
SIZE / PACKING	
x6	006 008 010 015 020
x2	008 010 015



Stainless Steel / K-FLEX FILES

- Materials: Imported raw materials--dental high quality raw materials.
- Silicon Stopper: Dental high quality raw materials, to confirm the position when root canal treatment
- Handle: Each file with clear sign for ISO size accordingly
- Length: L21/25/28/31mm
- Taper: .02
- Packing: 6 pcs/box

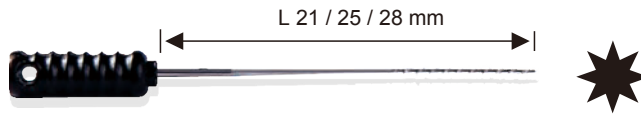
SIZE / PACKING	
x6	015 020 025 030 035
x1	ISO 015-040
	015 020 025 030 035 040
	040



Stainless Steel/ Barbed Broaches

- Designed for fast removal of pulpal tissue
- Materials: Imported raw materials-dental high quality raw stainless steel materials.
- Handle : Each file with clear sign for ISO size accordingly
- Packing: 10 pcs/blister

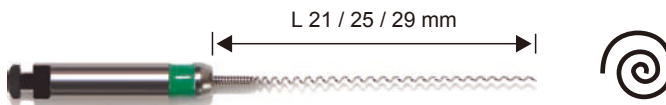
SIZE / PACKING		ISO 000-006	
x10		x1	x2
000	001	000	001
002	003	005	006
004	005	002	003
	006	004	



Paste Carriers (Engine)

- Not easy to break used the special shape and material, spiral spring to absorb vibration of handle, turning out slowly after inserting into the root canal. Intended for opened pulp canals filling and dental processing.
- Recommended rotary speed: 250-350 rpm
- 4 pcs/box

SIZE / PACKING		ISO 025-040	
x4		x1	
025	030	025	030
035	040	035	040



Peeso Reamers (Engine)

- Material: Imported high quality raw materials, high corrosion resistance, by the refining production, has the equilibrium and stability of hardness.
- Head: Circular cutting edge is good to prevent the steps and impalement.
- Special process: specially designed, if broken, broken parts is closed to handle, which is easy to remove from the root canal.
- Handle: Each has a ring logo to distinguish, used for preparation of upper 1/3 root canal crown; to bring out the filled material in the root canal; to prepare the post path.
- Recommended Rotary Speed: 800~1200 rpm
- 6 pcs/box (single size & assortment)

SIZE / PACKING

x6		x1			ISO 1-6
N°1 Ø0.50mm,	N°2 Ø0.70mm,	N°1	N°2	N°3	
N°3 Ø0.90mm,	N°4 Ø1.10mm,	N°4	N°5	N°6	
N°5 Ø1.30mm,	N°6 Ø1.50mm.				

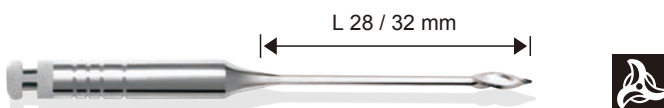


Gates Drills (Engine)

- Material: Imported high quality raw materials, high corrosion resistance, by the refining production, has the equilibrium and stability of hardness.
- Head: Circular cutting edge is good to prevent the steps and impalement.
- Special process: specially designed, if broken, broken parts is closed to handle, which is easy to remove from the root canal.
- Handle: Each has a ring logo to distinguish, to be applied in pulp canal protective, to establish the access to root canal's entrance; to enlarge the opening of the teeth root canal's crown part; to prepare the upper 2/3 part of molar root canal crown.
- Recommended Rotary Speed: 800~1200 rpm
- 6 pcs/box (single size & assortment)

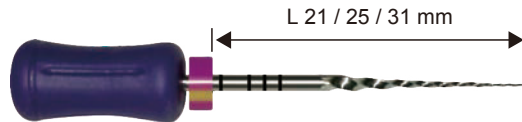
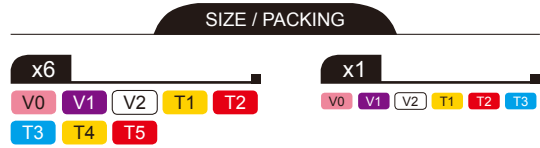
SIZE / PACKING

x6		x1			ISO 1-6
N°1 Ø0.70mm,	N°2 Ø0.90mm,	N°1	N°2	N°3	
N°3 Ø1.10mm,	N°4 Ø1.30mm,	N°4	N°5	N°6	
N°5 Ø1.50mm,	N°6 Ø1.70mm.				



NiTi MTF (Hand)

- Materials: Imported raw materials--dental high quality NITI raw materials.
- Silicon Stopper: Dental high quality raw materials, to confirm the position when root canal treatment.
- Handle: Each file with clear sign for ISO size accordingly
- MTF is the multiple tapered instrument. With exclusive multiple taper design which is different from normal Endo Files. MTF make canal shaping easier, safer, faster, and more efficient.

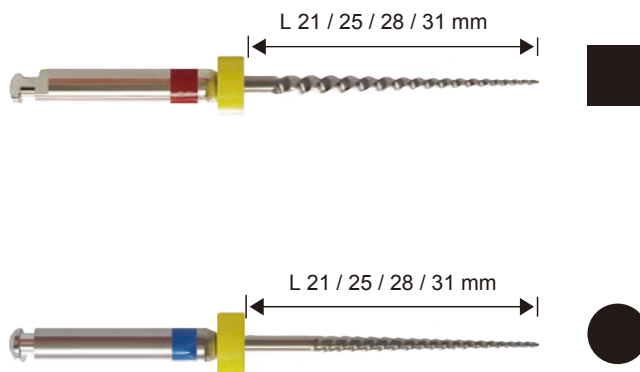


ISO Color	V0	V1	V2	T1	T2	T3	T4	T5	V0-T3
Apical Diameter	0.19mm	0.18mm	0.20mm	0.20mm	0.25mm	0.30mm	0.40mm	0.50mm	
Description	<p>Composition:</p> <p>1. Shaping Files (V0, V1, V2): Using V0 to make the formation of crown and short root canal, preparation the upper 1/3 root canal with V1, V2 for middle 1/3 root canal preparation.</p> <p>2. Finishing Files (T1, T2, T3): All used for the formation of 1/3 root canal apical .</p> <p>Taper: 0.6</p> <p>Packing: 6 pcs/box (single size & assortment)</p>								

NITI DK/DH Files (Engine)

- DK: Strong and stable instruments for cleaning and shaping the canal walls.
- DH: Fast cutting instruments for fast removal of debris.
- Taper: .04 .06
- Recommended Rotary Speed: 250~350 rpm
- 6 pcs/box (single size & assortment)

SIZE / PACKING	
x6	x1 ISO 015-040
015 020 025 030 035	015 020 025 030 035 040
040	

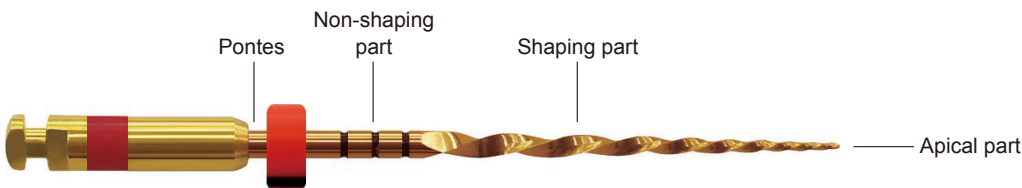
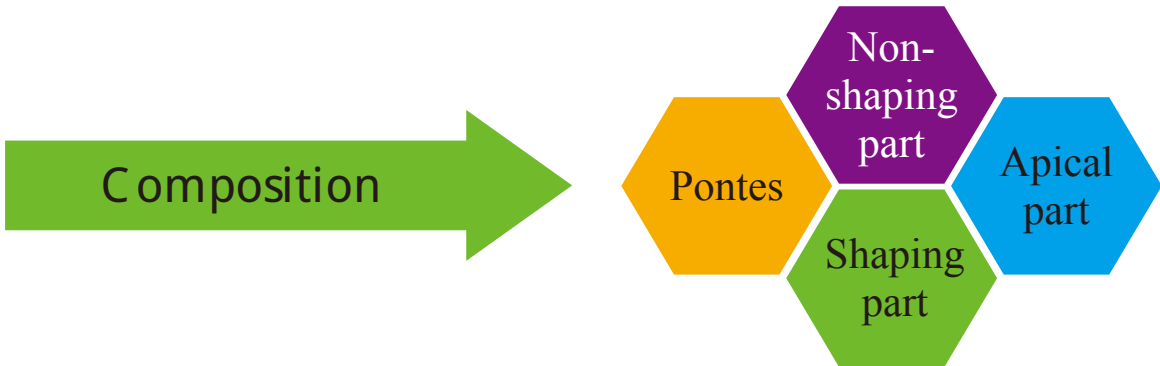


Feature: Blade portion design with the Multi-taper, which makes the good flexibility and better cutting force, which can be used in the narrow and curved root canal.

1. NITI material is the best material in root canal treatment, the flexibility is better than Stainless Steel material.
2. Designed for going thorough crown, do not need to lift repeatedly ,which can achieve consistent standards.
3. Greatly improved the quality of preparation, more popular.
4. Simple operation, do not need to change the files when preparation.

Nickel- Titanium Instruments (Engine)

- NITI: Good toughness and fracture resistance
- Be made up 56%nickel and 45% titanium. Some of them use Cobalt(less 2%) to replace Nickel for changing its flexibility.
- NITI strain is up to 6%-8%, quickly outdistanced stainless steel.



Pontes and non-shaping part is mainly reveals instrument's element (different circular mark) and provide reference to working length, it is not used to cut root canal wall.

Two types of instrument tip design:

One is cutting apical.

The other is non-cutting apical.

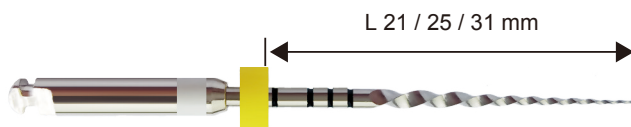
Most people are considered that non-cutting apical is safety, greatly reduced impale risk.

Material Improvement :

NITI Instrument's performance improvement have been the most active part in biological materials research in the past few years. Varieties of methods are applied to NiTi instrument's performance improvement, which include electrochemical polishing, surface treatment and heat activation.

NITI MTF (Engine)

- Materials: Imported raw materials-dental high quality NITI raw materials.
- Silicon Stopper: Dental high quality raw materials, to confirm the position when root canal treatment.
- MTF is the multiple tapered instrument. With exclusive multiple taper design which is different from normal Endo Files. MTF make canal shaping easier, safer, faster, and more efficient.
- Taper: .06
- Recommended rotary speed: 250-350 rpm
- 6pcs/box



ISO Color	V0	V1	V2	T1	T2	T3	T4	T5	V0-T3
Diameter	0.19mm	0.18mm	0.20mm	0.20mm	0.25mm	0.30mm	0.40mm	0.50mm	
Torque	3.0	3.0	1.0	1.6	2.0	2.0	2.0	2.0	

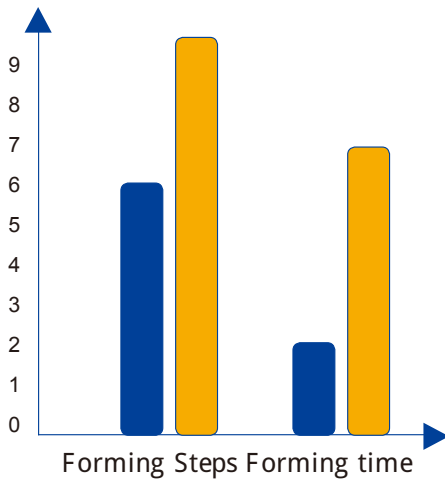
Shaping Files (V0, V1, V2): Using V0 to make the formation of crown and short root canal, preparation the upper 1/3 root canal with V1, V2 for middle 1/3 root canal preparation.

Finishing Files (T1, T2, T3): All used for the formation of 1/3 root canal tip.

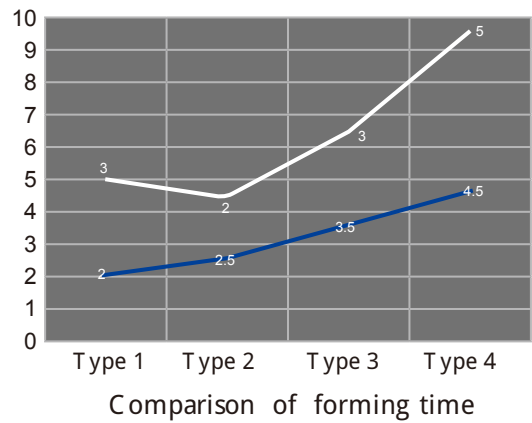
The disadvantage of Taper .02 Hand Files and the advantages and Multi-taper Files

- Taper .02 Hand Files are adopt step-by-step retreat in root preparation.
- Disadvantages: Be hard to enter into and control; easy to get stuck, break off, debris are easy to push to root tip, hard to flush, clean debris, give rise to root tip symptom. Time-consuming and replace frequency.

Blue: Multi-taper Files
 Orange: Taper .02 Hand Files



Comparison
 Blue: Multi-taper Files



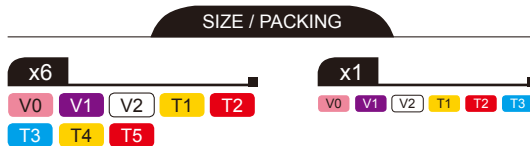
The advantages of MTF:

Root canal preparation is one of the most important factor in RCT. Flexibility and shape memory of NiTi instrument, to improve preparation efficiency and reduce fatigue.

To know NiTi feature and cross section design well ,which can get a better understanding about instrument performance and do the best choice.

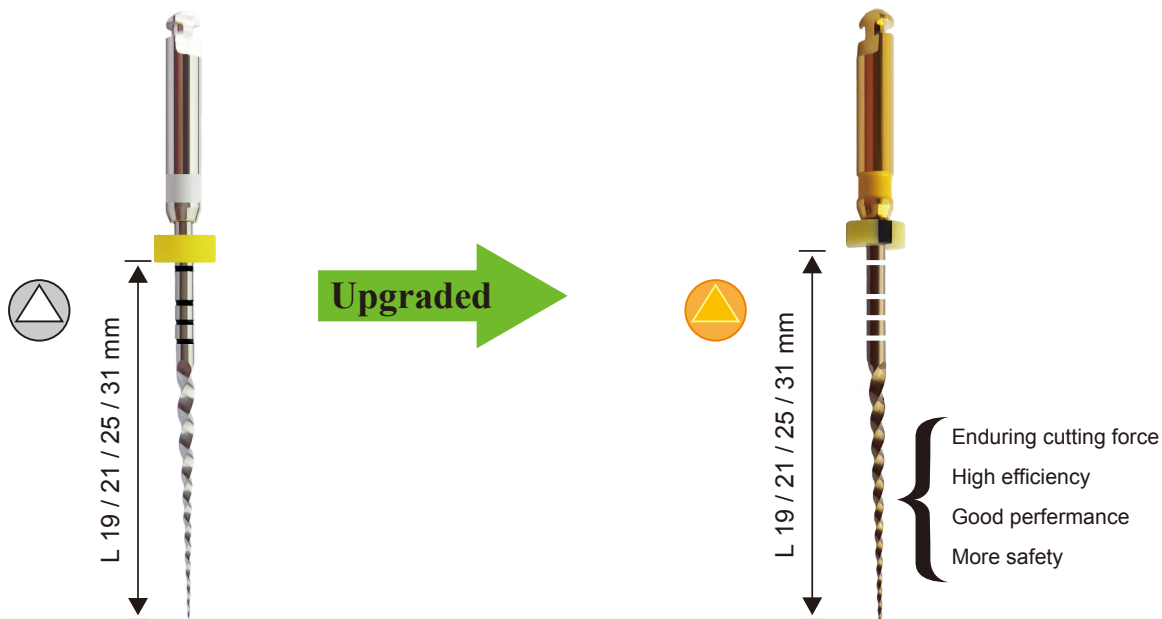
TG-6 / Topmost Gold (Engine)

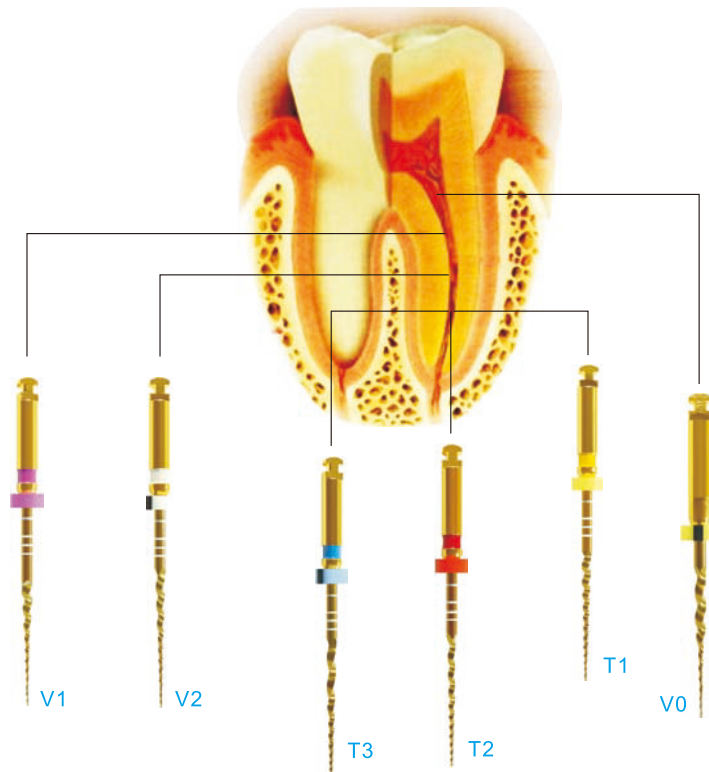
- New generation material, advanced Heat-treatment technical process, shocked toughness, 200%-500% fracture resistance improved.
- Materials: Imported raw materials-dental high quality raw materials.
- Taper: .06
- Recommended Rotary Speed: 300~375 rpm
- 6 pcs/box



ISO Color	V0	V1	V2	T1	T2	T3	T4	T5	V0-T3
Apical diameter	0.19mm	0.18mm	0.20mm	0.20mm	0.25mm	0.30mm	0.40mm	0.50mm	
Torque	3.0	3.0	1.0	1.6	2.0	2.0	2.0	2.0	

Topmost Gold is your best choice! New material, different technology





① **Shaping Files (V0, V1, V2)** : Using V0 to make the formation of crown and short root canal, preparation the upper 1/3 root canal with V1, V2 for middle 1/3 root canal preparation.

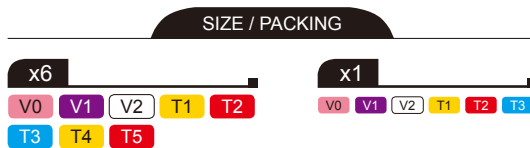
② **Finishing Files (T1, T2, T3)** : All used for the formation of 1/3 root canal tip.

Usage

1. Establishing linear channel , cleaning the canal with sodium hypochlorite
2. Detect the root canal Using #10, #15 SSK file
3. Makes the formation of crown with V0 and create the canal path (cleaning with Sodium Hypochlorite)
4. Preparation the upper 1/3 crown with V1, flush canal with sodium hypochlorite solution (STDN) after getting it out
5. Using the same rotary method to the working length with V2 , and flush canal with sodium hypochlorite solution (STDN)
6. Using T1 to the working length, which could make a smooth connect between the 1/3 canal tip and middle 1/3 canal
7. T2 to the working length and using #25 K files to measure the diameter of apical foramina, which indicating finished the preparation and it could be filled if it is loose
8. Using the T3 to the working length if you didn't feel loose when using the #25 K files.

HA-6 / Heat Activation (Engine)

- Eliminating Root Canal perforation, improving 300%-500% fracture resistance, optimizing recovery of unique Monel Alloy.
- Packing: Single size & Assortment
- Taper: .06
- Torque: 2.0~3.0 N/cm
- Recommended Rotary Speed: 300~375 rpm
- 6 pcs/box



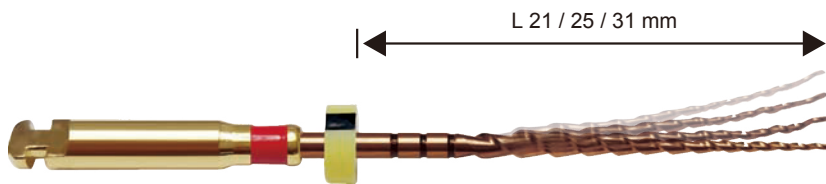
Mono File (Engine)

- Mono file has a gradient cross-section, work in the different area of root canal with the best cutting effect. To complete the operation only with single file, more convenient and cost effective .
- Taper: .04, .06, .08
- Recommended Rotary Speed: 250-350 rpm
- 6 pcs/box

SIZE / PACKING

x6

sole



Operation Guide:

1. Open the crown: Taking X-ray film before operation, dissecting shape of root canal , evaluating working length, open the crown to establish straight pathway for dental treatment.
2. Smooth the root canal: Using 10 # K file directly determination the root length if it could, and then preparation to WL smoothly with hand file 15 # .
3. Root canal preparation: Flushing the canal with sodium hypochlorite then use EDTA to preparation:
 - (1) Using Mono file preparation of 2/3 canal apical narrow area, slightly pull up and down. After that exploration by using 10 # K file .
 - (2) Using Mono file preparation of 3mm part apical narrow area , preparation without pressure,then exploration by using of 10 # file.

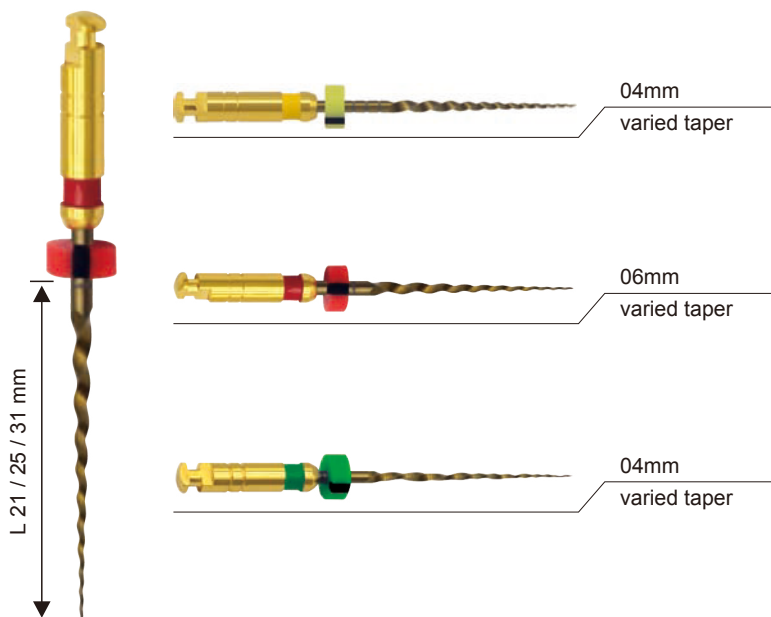


MTF-G3 (Engine)

- MTF-G3, multivariable tapered instrument based on MTF, only need three files, which makes it work efficiently and safely. What is more, it can clean debris faster due to high-quality material and international complex processing technology and multivariable taper technology.
- Recommended Rotary Speed: 250~350 rpm
- 4pcs/box / 6pcs/box



Size	starter	G1 / 20#	G2 / 25#	G3 / 35#	P1 / 16#	P2 / 19#
Taper	12	4	6	4	2	2
Picture						
Recommended Rotary Speed/ Torque	350rpm/3.0	350rpm/2.0	350rpm/2.0	350rpm/2.0	350rpm/2.0	350rpm/2.0



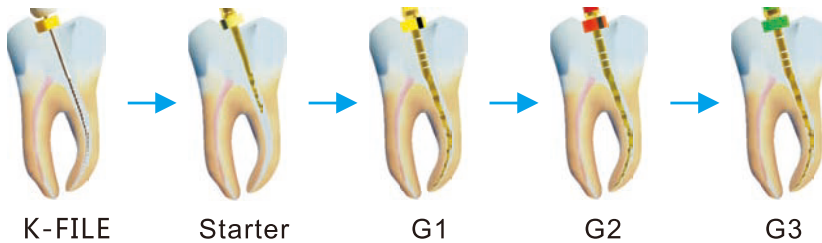


It is not easy to break compared with other files because of the advance heat-activation technique and NM gold-plating technic to eliminate slight cracking. After gold plating, its body can maintain cutting effectively and increasing using times.

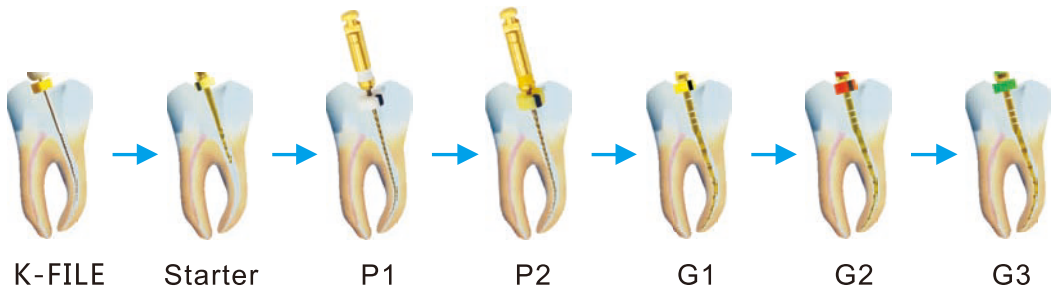
1. The advantages of cross section
 Improve keenness efficiently, which gets better and faster shaping. Be easier to operate in curve root canal. Removal of debris more completely.

2. The advantages of material
 New generation of durable material and processing technique
 High-efficiency clinic operation
 Lasting flexibility and cutting
 300%-500% fracture resistance improved.

Operating Instruction For Simple Root Canals



Operating Instruction For Complex Root Canals



TF-3 (TO&Fro) (Engine)

- Reciprocating system for root canal , unique double-edge design ,strongly increase operating safety and life time . Reverse cutting design improves the flexibility and safety of the device.
- Recommended Rotary Speed and torque: default the reciprocating system motor
- 3 pcs / box

SIZE / PACKING					
x3				x1	ISO 020-040
T020	T025	T040		T020	T025 T040



Double-edged design?

In the clinical operation of medical the usage of TF-3 reciprocating system, which will be carried out by clockwise rotation rotation with obtuse angle blade , followed by counter-clockwise rotation with the blade of sharp cutting angle.



The concept of balance force?

In the reciprocating movement, the usage of TF-3 clockwise rotation with obtuse angle blade, followed by counter-clockwise rotation with the blade of sharp cutting angle, alternating like this, the angle of rotation determines the amplitude of the reciprocating motion. When CW rotation angle greater than the CCW, instruments move to the depth of root canal. According to the concept of balance force, this mode is designed for evolving forward into the root canal in the CW movement, which can reduce effectively the possibility of files fracture by metal fatigue, longer the life time!

TF-3 Operation Guide:

X-ray film is needed for apical root canal before preparation, which could display the thickness, length, quantity and curved situation of root canals. The usage of K file help to select the appropriate size of TF-3 as follows.

1.Using the 10 # K file to the apical of root canal if feel slight friction sense, please choose T20 # when preparation .



2.Using the 10 # K file could easily to the apical of root canal without any sense of friction, please choose T25 # when preparation .



3.Using 20 # K file to the apical of root canal if any slight friction sense, please choose T40 # when preparation.



TF-3 Gold (Engine)

- Reciprocating root canal file, unique double-edged design, improved the security and life time in clinical operation . Reverse cutting design improved the flexibility and safety of the instruments .
- Recommended Rotary Speed and torque: default the reciprocating system motor.
- Length: L21 / 25 / 31mm
- 3 pcs / box



TF-3 Gold Reciprocating system

**Improvements of Material and Performance :**

In recent years, the performance improvement of nickel-titanium instruments has become one of the most active fields in biomaterials research. Several methods have been applied to the improvement of nickel-titanium instruments, including electrochemical polishing, surface treatment and heat treatment.

Profundity can be found in triviality ?

The micro-cracks and debris will be produced on the surface of instrument during the cutting process, and the surface micro-cracks is one of the main reasons for the fracture of NiTi instruments. To create a functional coating in the instrument surface by using physical and chemical processes in the gas phase. The primary purpose of the surface treatment is to increase the nitrogen atoms on the metal surface to form a nitrided surface. With better surface hardness, anti-wear and anti-corrosion ability , high cutting efficiency , it will not easy to produce micro-cracks after reusing .

TF-3 Gold Operation Guide:

X-ray film is needed for apical root canal before preparation, which could display the thickness, length, quantity and curved situation of root canals. The usage of K file help to select the appropriate size of TF-3 as follows:

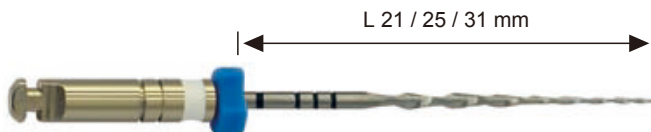
1. Using the 10 # K file to the apical of root canal if u could feel slight friction sense, please choose T20 # when preparation.
2. Using the 10 # K file could easily to the apical of root canal without any sense of friction, please choose T25 # when preparation.
3. Using 20 # K file to the apical of root canal if any slight friction sense, please choose T40 # when preparation.

MT (Engine)

- S-type design, cutting efficiency, high chip removal ability, high flexibility, and suitable for small root canal preparation. Four files to complete the dental treatment, cost effective. Be better to maintain the original shape of the root canal. Single-length preparation, simple operation. Strong in anti-fracture.
- Taper: .04, .05, .06
- Recommended Rotary Speed: 250-350rpm best in 280rpm
- 4pcs/pack, 6pcs/pack, blister and pack

SIZE / PACKING

x4	Size / Taper	x6	Size / Taper	x1	Size / Taper	x1	Size / Taper				
10/.04	15/.05	20/.06	30/.05	35/.04	40/.04	10/.04	15/.05	20/.06	30/.05	35/.04	40/.04
25/.06			45/.04	50/.04	60/.04	25/.06			45/.04	50/.04	60/.04



MT File	10#/.04	15#/.05	20#/.06	25#/.06	30#/.05	35#/.04	40#/.04	25#/.07
Recommended Rotary Speed	280-300	280-300	280-300	280-300	280-300	280-300	280-300	280-300
Recommended Torque	1.5-2.0 N/cm							

Physical performance

Ni-Ti instrument fabrication technology. the main technology of traditional Ni-Ti instrument by using cutting, which usually bring about defect areas in the surface, such as cave, metal streaks. This defective equipment has potential weaknesses, which will lead to the unexpected fracture in dental instrument.



Benefits after surface treatment ?

Advanced technology, makes file surface more smooth, strong in anti-fracture. Advanced heat treatment technology makes file surface more smooth, strong in anti-fracture, maintain a better shape of root canal. More smoothly when cutting , better ability to resistant corrosion of Sodium hypochlorite and EDTA.

Operation Guide:

Operating sequences of MT file :10 #, 15 #, 20 #, 25 #; (for the simple root canal)

Speed : 280-300rpm, Recommended : 280rpm

1. Open pulp, determine the root canal length with hand use C file 10# ,15# .
2. If it couldn't reach the WL , open the 1/3 upper root canal to 1/3 middle root canal with starter (If it could reach the WL , please use stainless steel C file 10 # and 15 # to the working length and flush)
- 2.10 # taper 0.4 ready to work length, flushing
- 3.15 # taper 0.5 ready to the working length, flushing
- 4.20 # taper 0.6 ready to the working length, flushing
- 5.25 # taper 0.6 ready to the working length, flushing

ET file

- ET file: flexible, anti-resistant to rotation fatigue. Compared with hand instruments, this new file has more advantages. A new method for crown expanding and canal smooth.
- Recommended speed: 300rpm torque: 2.0-3.0 N/cm
- Length: L21, 25, 31mm
- Taper: .02
- 6 pcs/ box

SIZE / PACKING					
x3				x1	ISO 13-19
13#	16#	19#	13#	16#	19#



Operation sequence :

Using hand K file 10 # to search and clear the root canal, until the file can move smoothly in the root canal, determine the working length.

Using ET file 13 # to the working length

Using ET file 16 # to the working length

Using ET file 19 # to the working length

Then could use any nickel-titanium instruments to make the root canal .

Performance and Advantages of ET file

Test Methods:

- Engine pre-expansion: Using ET file 13 #, 16 #, 19 # to the working length.
- Hand pre-expansion: Using hand K file 8 #, 10 #, 15 #, 20 # to the working length.

Group	Operator	Instruments
1	specialist	Engine use ET file
2	specialist	Hand use K file
3	non-specialist	Engine use ET file
4	non-specialist	Hand use K file

First, After analysing the image of overlap root canal and curved situation, results are as follows:

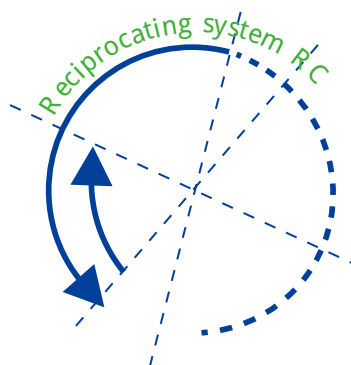
1. Compared with the stainless steel hand use K file, ET file can better maintain the original anatomic situation of the root canal.
2. Whether the specialist or non - specialist in endodontics, ET file would be more effective than the hand use file.

Second, the results from non-specialist dentist are as following:

1. Obtain the better ideal smooth path than the specialist who uses the hand K file, also lower the rate of offset canal.
2. Compare with specialist , both could obtain the similar result when creating the smooth path . Reduce the operation time.




RC File (Engine)

Reciprocating system of RC file also known as single file, which processed by new nickel-titanium material, non blade of the safety circular apical, file needle with flexibility, better anti-fatigue ability for cyclical use, more safety in clinical operation



Reciprocating movement pattern

- Preparation the root canal with single file, convenient and quick
- Less working steps, more efficient and less time-consuming
- Suitable for curved and narrow root canal preparation
- New NiTi material enhances the flexibility and ability of anti-fracture
- Three sizes are available for different types of root canals

Size	Apical Taper	Picture	Length
R25	.08		L21 / 25 / 31mm
R40	.06		
R50	.05		

What files should be used accordingly?

1. Hand K file 10 # reach the apical and feel sense of tightness, please choose R25 #
 2. Hand K file 20 # reach the apical and feel sense of tightness, please choose R40 #
 3. Hand K file 30 # reach the apical and feel sense of tightness, please choose R50 #
- The RC file moves alternative in the pattern of 150° CCW and 30° CW. Mainly on counter-clockwise rotation , first do CCW rotation by a large margin and then CW rotation by small margin. Time-saving, efficient, high ability of anti-fatigue , not easy to break, safe, better cleaning and forming ability in root canal .

EX File

- U-shaped cross-section of the instruments, which helps to remove tooth debris in the root canal. The cutting edge touch the root wall with a radial plane, which prevents the instrument from embedding in the root canal wall. Guiding effect for the round apical without cutting force .
- Taper: .04, .06
- Recommended speed: 200~3500 rpm
- 6pcs/box

SIZE / PACKING	
x6	x1 ISO 015-040
015 020 025 030 035	015 020 025 030 035 040
040	



Compositions and features:

EX file .06 taper, there are two color rings in the handle, mainly for the middle of the root canal preparation, also for preparing to apical in curved and thick root canal.

EX file .04 taper, there are one color ring in handle, mainly for the apical preparation.

Forming device of canal orifice, there are three color rings in the handle, mainly for the preparation of the crown.

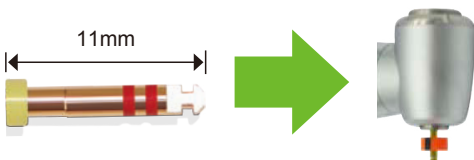
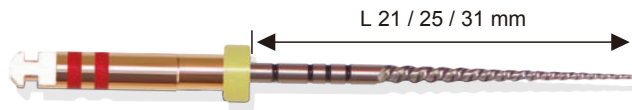
Keen file (Engine)

- Safety: nickel titanium instruments, good flexibility, less prone to broken and form steps.
- Simple: Easy to control the equipment into depth when cutting root canal without inhalation.
- Efficient: positive knife angle, cutting efficiency.
- Economy: Cost saving in per treatment.
- Taper: .02, .04, .06, .08, .10, .12
- Recommended speed: 250-350rpm
- 6pcs / box

SIZE / PACKING					
x6			x1		
25/.02	25/.04	25/.06	25/.02	25/.04	25/.06
25/.08	25/.10	25/.12	25/.08	25/.10	25/.12

ISO 015-040

Keen file have six different tapers, from 0.02 to 0.12, and each taper has different length. There are two color rings and two numbers in the handle, which indicate the taper and apical diameter of the file respectively. Taper 0.08, 0.10, 0.12 apical diameter is 0.25mm, mainly for preparation the upper middle root canal; Taper 0.02, 0.04, 0.06 have different of apical diameter, mainly for the lower middle root canal preparation.



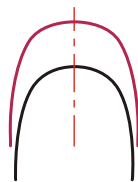
Shorter handle, increased operating range; security apical design, reducing the apical root canal offset.

NiTi Archwires

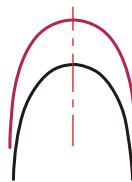
Super Elastic NiTi Archwires

	Size (inch)	Square Form		Ovoid Form		Natural Form	
		上鄂 Upper	下鄂 Lower	上鄂 Upper	下鄂 Lower	上鄂 Upper	下鄂 Lower
○ Round	0.012	NS0112U	NS0112L	NS0212U	NS0212L	NS0312U	NS0312L
	0.014	NS0114U	NS0114L	NS0214U	NS0214L	NS0314U	NS0314L
	0.016	NS0116U	NS0116L	NS0216U	NS0216L	NS0316U	NS0316L
	0.018	NS0118U	NS0118L	NS0218U	NS0218L	NS0318U	NS0318L
	0.020	NS0120U	NS0120L	NS0220U	NS0220L	NS0320U	NS0320L
□ Rectangular	0.016x0.016	NS011616U	NS011616L	NS021616U	NS021616L	NS031616U	NS031616L
	0.016x0.022	NS011622U	NS011622L	NS021622U	NS021622L	NS031622U	NS031622L
	0.017x0.022	NS011722U	NS011722L	NS021722U	NS021722L	NS031722U	NS031722L
	0.017x0.025	NS011725U	NS011725L	NS021725U	NS021725L	NS031725U	NS031725L
	0.018x0.022	NS011822U	NS011822L	NS021822U	NS021822L	NS031822U	NS031822L
	0.018x0.025	NS011825U	NS011825L	NS021825U	NS021825L	NS031825U	NS031825L
	0.019x0.025	NS011925U	NS011925L	NS021925U	NS021925L	NS031925U	NS031925L
	0.021x0.025	NS012125U	NS012125L	NS022125U	NS022125L	NS032125U	NS032125L

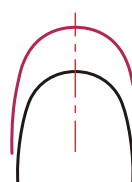
10pcs / bag



Square



Ovoid



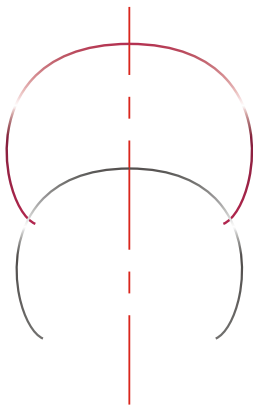
Natural



NiTi Reverse Curve Archwires

	尺寸(英寸) Size (inch)	上鄂 Upper	下鄂 Lower
○ Round	0.012	NR12U	NR12L
	0.014	NR14U	NR14L
	0.016	NR16U	NR16L
	0.018	NR18U	NR18L
	0.020	NR20U	NR20L
□ Rectangular	0.016x0.016	NR1616U	NR1616L
	0.016x0.022	NR1622U	NR1622L
	0.017x0.022	NR1722U	NR1722L
	0.017x0.025	NR1725U	NR1725L
	0.018x0.022	NR1822U	NR1822L
	0.018x0.025	NR1825U	NR1825L
	0.019x0.025	NR1925U	NR1925L
	0.021x0.025	NR2125U	NR2125L

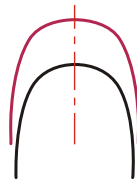
2pcs / bag



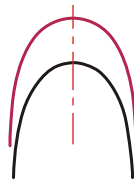
Heat-activated NiTi Archwires

	Size (inch)	Square Form		Ovoid Form		Natural Form	
		上鄂 Upper	下鄂 Lower	上鄂 Upper	下鄂 Lower	上鄂 Upper	下鄂 Lower
○ Round	0.012	NH0112U	NH0112L	NH0212U	NH0212L	NH0312U	NH0312L
	0.014	NH0114U	NH0114L	NH0214U	NH0214L	NH0314U	NH0314L
	0.016	NH0116U	NH0116L	NH0216U	NH0216L	NH0316U	NH0316L
	0.018	NH0118U	NH0118L	NH0218U	NH0218L	NH0318U	NH0318L
	0.020	NH0120U	NH0120L	NH0220U	NH0220L	NH0320U	NH0320L
□ Rectangular	0.016x0.016	NH011616U	NH011616L	NH021616U	NH021616L	NH031616U	NH031616L
	0.016x0.022	NH011622U	NH011622L	NH021622U	NH021622L	NH031622U	NH031622L
	0.017x0.022	NH011722U	NH011722L	NH021722U	NH021722L	NH031722U	NH031722L
	0.017x0.025	NH011725U	NH011725L	NH021725U	NH021725L	NH031725U	NH031725L
	0.018x0.022	NH011822U	NH011822L	NH021822U	NH021822L	NH031822U	NH031822L
	0.018x0.025	NH011825U	NH011825L	NH021825U	NH021825L	NH031825U	NH031825L
	0.019x0.025	NH011925U	NH011925L	NH021925U	NH021925L	NH031925U	NH031925L
	0.021x0.025	NH012125U	NH012125L	NH022125U	NH022125L	NH032125U	NH032125L

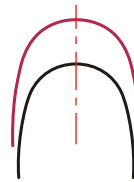
5pcs/bag



Square



Ovoid



Natural



NiTi Springs

Closed Spring

Length (mm)	Wire Diametre (inch)	
	0.010	0.012
6	CS1006	CS1206
9	CS1009	CS1209
12	CS1012	CS1212



Closed

10pcs/bag

Open Spring

Length (mm)	Wire Diametre (inch)	
	0.010	0.012
170	OS10170	OS12170

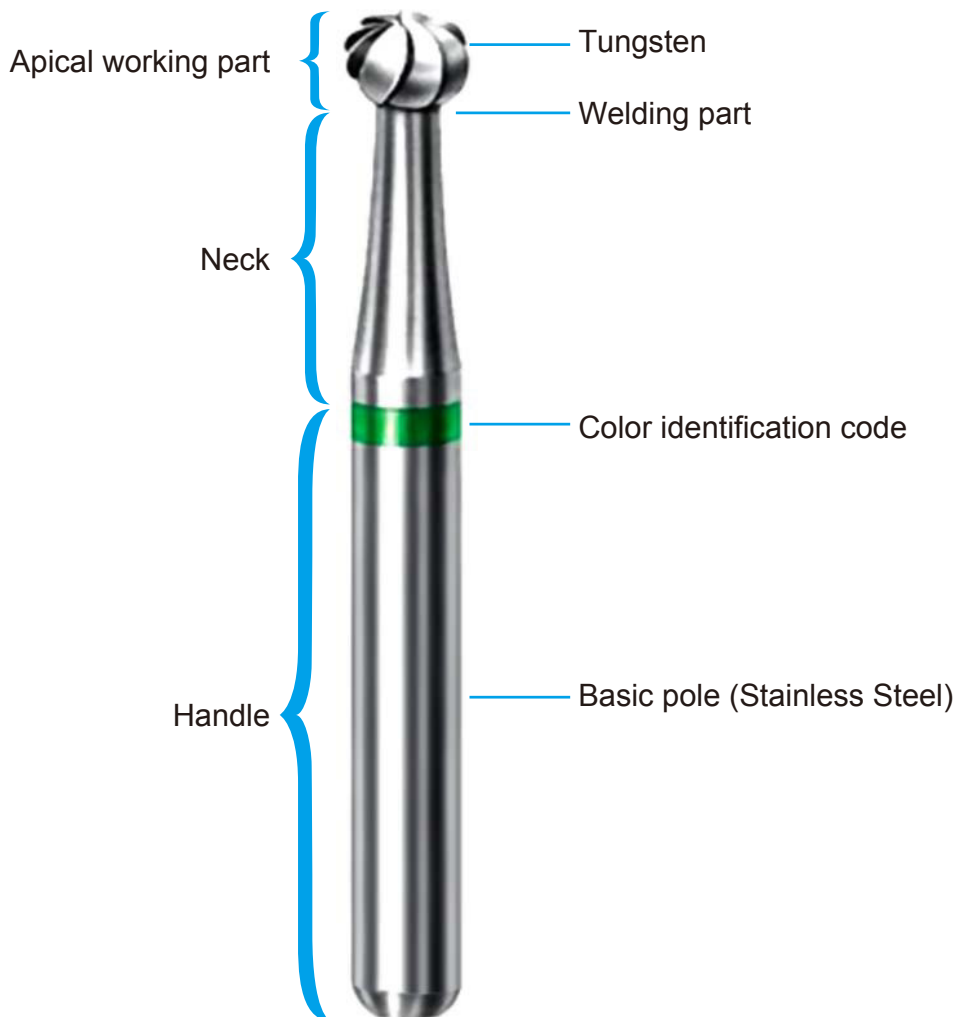


Open

2pcs/bag



Tungsten burs



Tungsten burs

According to clinical needs and international standards, working part generally includes the flat edge, saw blade edge and cross cutting edge. The flat cutting edge has low cutting effect but long service life. The surface keeps smooth after cutting. The saw cutting edge has high cutting effect but short life time, worse fineness than previous one. Cross-cutting edge stable is for cutting metal, extremely sharp, durable.



Tungsten burs features: Process with the high toughness, fine tungsten and the international advanced CNC machine, precision tooth profile, high concentricity, strict quality testing, combined with the actual needs of clinical .Use safety, high hardness, which twice the hardness compared with diamond burs, six times hardness compared with (dental) enamel. Tungsten burs are more smooth than diamond burs, less heat generation as it is cutting rather than grinding. The debris better to remove, higher wear-resistant and durable.

5pcs / blister



5pcs / blister

Fig.31
柱形裂钻十字刃

US NO.	556	556L	557	558	559	560	562	563L
HP(44.5mm)	008		010	012	014	016	021	023
FG(19mm)		009	010	012				
RA(22.5mm)			•	•				

OB正畸车针 12刃
适用于去除托槽粘
结剂及抛光

GIG NO.	H379-023ALGK	H22-016ALGK	7664 375R
DIAMETER(1/10mm)	023	016	014

FIG.33
锥形裂钻十字刃

US NO.	698	699	700	701	702	703	704	699L	700L	701L
HP(44.5mm)	008	009	010	012	016	021	023	009	010	012
FG(19mm)	008	009	010	012	016				010	012
RA(22.5mm)			•	•	•	•				

Gig.31R
圆头裂钻 十字刃

US NO.	1557	1558
FG(19mm)	010	012
RA(22.5mm)	•	•

Fig.2
倒锥钻

US NO.	33½	34	35	36	37	38	39	40	41
HP(44.5mm)	006	008	010	012	014	016	018	021	023
FG(19mm)	006	008	010	012	014	016			
RA(22.5mm)	•	•	•	•	•	•	•		

Gig.21R
圆头裂钻 斜刃

US NO.	1157	1158
FG(19mm)	010	012
RA(22.5mm)	•	•

Fig.1
球钻

US NO.	¼	½	1	2	3	4	5	6	7	8
HP(44.5mm)	005	006	008	010	012	014	016	018	021	023
FG(19mm)	005	006	008	010	012	014	016	018		
RA(22.5mm)		•	•	•	•	•	•	•	•	•

Gig.23
锥形裂0钻 斜刃

US NO.	169L	170	171
FG(19mm)	009	010	012



3009431661

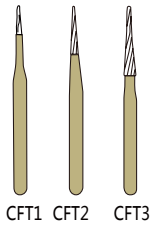
FINISHING BURS

US NO.

- Round: polished trimming restorations, smooth the root surface, polish tooth surface
- Egg-shaped: repaired polished surface , tongue surface and the filling material surface
- Needle shape: repaired adjoining tooth surface, occlusal surface, lip-cheek surface and filling material surface
Head 12 blade (7000 series) Head 30 blade (9000 series)
- 7000 Series: ideal tools for shaping and polishing , tooth adhesive removal, tooth surface smooth, bone repair and a variety of repair materials.
- 9000 Series: for refine and fine polishing to achieve the effect of satin.



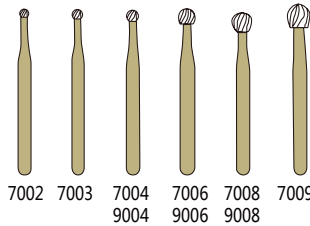
COMPOSITE F&T



CFT1 CFT2 CFT3



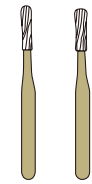
ROUND



7002 7003 7004 7006 7008 7009 9004 9006 9008



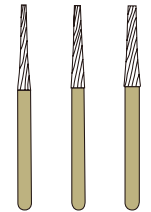
INVERTED TAPER



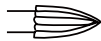
7303 7304



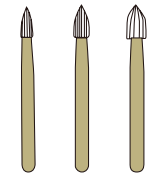
CONE



7204 7205 7206



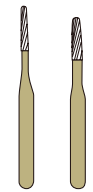
FLAME



7104 7106 7018



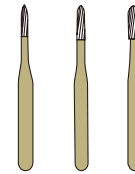
TAPER



7702 7713 9713



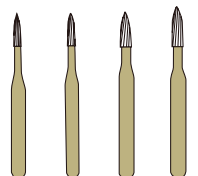
BULLET



7801 7802 7803 9803



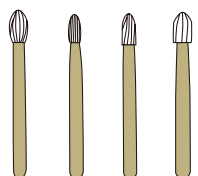
NEEDLE



7901 7902 7903 9904 9903



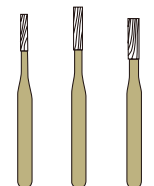
EGG SHAPE



7379 7404 7406 9406 7408



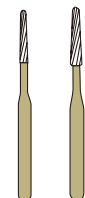
STRAIGHT



9561 7572 9572 7583



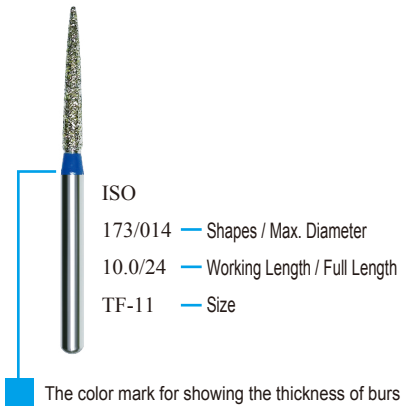
EXTRA LONG TAPER



7642 7664 9642

Diamond Burs

Graphic diamond burs

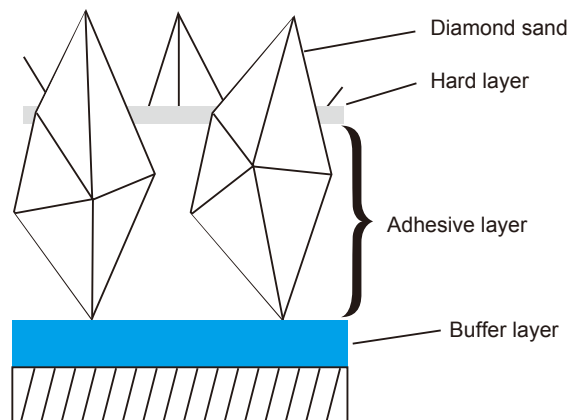


Apical diameter (1/10mm)	Rotary speed (turn / per minute)	Maximum speed (turn / per minute)
008-010	75.000-150.000	450.000
012-014	60.000-110.000	450.000
016-018	45.00-88.000	450.000
021-023	40.000-75.000	300.000
025-027	30.000-65.000	160.000
029-031	25.000-56.000	140.000
033-040	22.000-45.000	120.000
042-050	20.000-37.000	95.000
055-060	17.000-32.000	80.000
065-080	13.000-26.000	60.000

Color standard from fine to coarse : white, yellow, red, blue, green, black:

General blue marked ring or unmarked commonly taken as standard size of the burs, size medium in higher cutting effective. The coarse burs strong in cutting but rough in cutting surface with obvious texture, poor adhesion between the crown and the prefabricated tissue surface. Fine particles burs can be used to refine .

The usage of natural diamond powder, which makes diamond has a very high hardness excellent physical and chemical features. It made as diamond burs finally with certain cutting tissue adhesion or plating them with a certain angle of diamond particles, according to a certain direction, distance to the center of the stainless steel burs.





5pcs / blister

