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CHAP. 10 PRODUCTS LIST

Our History

1956 ▶▶▶ <p>Mr. Masao Matsutani began manufacturing and sales of surgical eyed needles</p>  <p>Around 1956</p>	1959 ▶▶▶ <p>Received subsidization for innovating surgical eyed needles made of 18-8 stainless steel (SS) from the Ministry of Health and Welfare Reorganized into a joint-stock corporation with 1 million yen in capital Mr. Masao Matsutani appointed the Representative Executive Officer and President</p>	1961 ▶▶▶ <p>First ever production of 18-8 SS surgical needles</p>  <p>Around 1961</p>	1962 ▶▶▶ <p>Awarded export subsidy by the Ministry of International Trade and Industry</p>	1966 ▶▶▶ <p>Concluded research contract with Japan Atomic Institute and started Japan's first ever research on Co 60 γ-ray sterilization of surgical needles Reached 4 million yen in capital</p>
1979 ▶▶▶ <p>Awarded the Excellent Enterprise Prize for prevention of public pollution at the Public Hygienic Convention Patented manufacturing techniques for dental reamers and files (Japan, U.S., and Great Britain).</p>	1980 ▶▶▶ <p>Established export division and began exporting dental Reamers and Files</p>  <p>Around 1980</p>	1982 ▶▶▶ <p>Started construction of Point of Production System (POPS) by LAN (Local Area Network)</p>	1983 ▶▶▶ <p>Awarded Scientific and Technological Agency Prize for excellent manufacturing technique of dental products Began domestic sales of dental Reamers and Files at FDI Dental Show in Tokyo</p>	1984 ▶▶▶ <p>Awarded Patent Agency prize for the invention of dental instruments Reached 48 million yen capital</p>
1991 ▶▶▶ <p>Released Cross Lapped Edge Optical Needle Manufactured the world's smallest drilled eyeless needle (27 micron) for trial Developed Skin Stapler and Micro Needle Attaching Machine</p>	1992 ▶▶▶ <p>Awarded Patent Agency prize for excellent invention for Manipler at Invention exhibition of the Kanto district Reached 96 million yen in capital</p>	1993 ▶▶▶ <p>Established Kiyohara Factory in Kiyohara Industrial Park Began selling Manipler and Sterilized Reamer Files, Peeso Reamers and Ophthalmic Sutures</p>	1995 ▶▶▶ <p>Built a new LAN Began building new Kiyohara Factory Started selling Gates Drills</p>  <p>Kiyohara Factory building complete</p>	1996 ▶▶▶ <p>Changed company name to MANI, INC. Launched MANI website Established overseas joint venture, MANI MEINFA in Hanoi, Vietnam President Matsutani received the Medal with Yellow Ribbon from the Japanese emperor for his dedication to the development of medical devices Received certificate for ISO9001 and CE Marking</p>
2002 ▶▶▶ <p>Built an annex to Kiyohara Factory</p>  <p>Expanded Kiyohara Factory</p>	2003 ▶▶▶ <p>Built an annex to MANI-MEINFA CO., LTD. Established MANI HANOI CO., LTD. near Hanoi, VIETNAM</p>  <p>Expanded Vietnam Factory</p>	2004 ▶▶▶ <p>Adopted committee governance structure Achieved ISO 14001 & OHSAS18001 certification Completed and started operating MANI HANOI CO., LTD., Hanoi(Vietnam) Released Manipler AZ</p>	2006 ▶▶▶ <p>Headquarters moved from the Takanezawa Factory to the Kiyohara Factory</p>	2007 ▶▶▶ <p>Completed Kiyohara Factory expansion MANI HANOI CO., LTD. expansion. Mr. Masaaki Matsutani appointed Representative Executive Officer and President</p>  <p>Kiyohara Factory</p>  <p>MANI HANOI CO.,LTD.</p>

1967 ▶▶▶ <p>Started manufacturing and sales of surgical eyeless needles of 18-8 SS drilled-end type Reached 6 million yen in capital</p>	1971 ▶▶▶ <p>Started research on production and performance of dental root canal instruments Started research on Laser Drilling technique</p>	1975 ▶▶▶ <p>Awarded Excellence Prize from the Secretary of Small Business at the 14th All-Japan Small Business Trade Fair Reached 20 million yen in capital per year</p>	1976 ▶▶▶ <p>Started manufacturing and sales of dental Barbed & Square Broaches made of stainless steel</p>	1978 ▶▶▶ <p>Development and sales of patented Needle Attaching Machine in Japan, U.S., England, West Germany and Brazil Reached 30 million yen of capital</p>
1985 ▶▶▶ <p>Opened visual presentation room at Takanezawa Factory Completed production technology of dental Dia-Burs (patent pending)</p>	1986 ▶▶▶ <p>Mr. Kanji Matsutani appointed Representative Director and President</p>	1988 ▶▶▶ <p>Began selling dental Dia-Burs President Matsutani awarded for distinguished service by the Scientific and Technological Agency The patent of a dental product selected as "noteworthy invention" from Japanese Patent Agency</p>	1989 ▶▶▶ <p>Awarded Prize from the Small Business Research Institute</p>	 <p>Newly built Takanezawa Factory</p>
1997 ▶▶▶ <p>Began selling dental Carbide Burs. Built an annex to Kiyohara Factory</p>	1998 ▶▶▶ <p>Began sales of Ophthalmic Knife and Menicepts (Ligo-sutura Instrument) Completed Myanmar Factory</p>	1999 ▶▶▶ <p>Established MANI YANGON LTD. in Yangon, Myanmar</p> 	2000 ▶▶▶ <p>Won patent suit for infringement of MANI surgical needles patent Began selling Titanium wires with needles, Dental RT Files & D Finders Reached over 323 million yen in capital</p>	2001 ▶▶▶ <p>Started sales of Dental Stereoscopic Microscopes, Developed Grinding & Polishing Points, and Post-pins for base Reached more than 665.5 million yen in capital Registered stocks with the Japan Securities Dealers Association (JASDAQ) Market Released OEM-based Skin Stapler</p>
2008 ▶▶▶ <p>Received Porter Prize, 2008 (section of small and medium-sized companies)</p>	2009 ▶▶▶ <p>MANI HANOI CO., LTD. merged and consolidated its subsidiary, MANI-MEINFA CO., LTD. Established MANI VIENTIANE CO., LTD. in Vientiane, Laos</p>  <p>Completed Laos Factory</p>	2010 ▶▶▶ <p>Established MANI MEDICAL HANOI CO., LTD. in Hanoi, Vietnam Established MANI RESOURCES CO., LTD. in Utsunomiya, Tochigi Prefecture</p>	2011 ▶▶▶ <p>Listed in Second Section of Tokyo Stock Exchange</p>	2012 ▶▶▶ <p>Listed in First Section of Tokyo Stock Exchange Established MANI MEDICAL BEIJING CO., LTD. in Beijing, China</p>

MANI has been contributing to global welfare through development, production and distribution of its products. Bringing benefits to both patients and doctors.

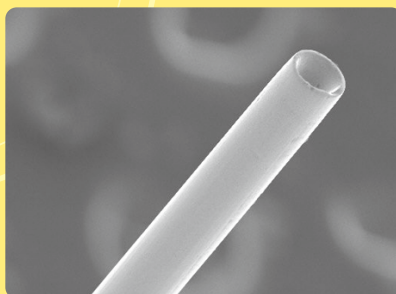
Evolution of MANI

Our corporate structure has grown into a bright green tree for over 60years. Our tree is sowing many new seeds into the world medical field.

We have contributed to the world healthcare industry for 60 years, always keeping peoples' health as our priority. Our reliable instruments can be found in many healthcare fields, and in more than 120 countries worldwide.

Our 60year history is based on continual research and development.
Our original micro-processing technology and quality management system have led to highly reliable products. That is why MANI products are used all around the world.

■ MANI's patent strategy
MANI possesses 271 patents at home and abroad as of February 2013, and also has several pending patents.



Micro hole processing technology
Magnified photo of hole part of suture
Outer diameter of needle: 70 μm , Hole diameter: 40 μm

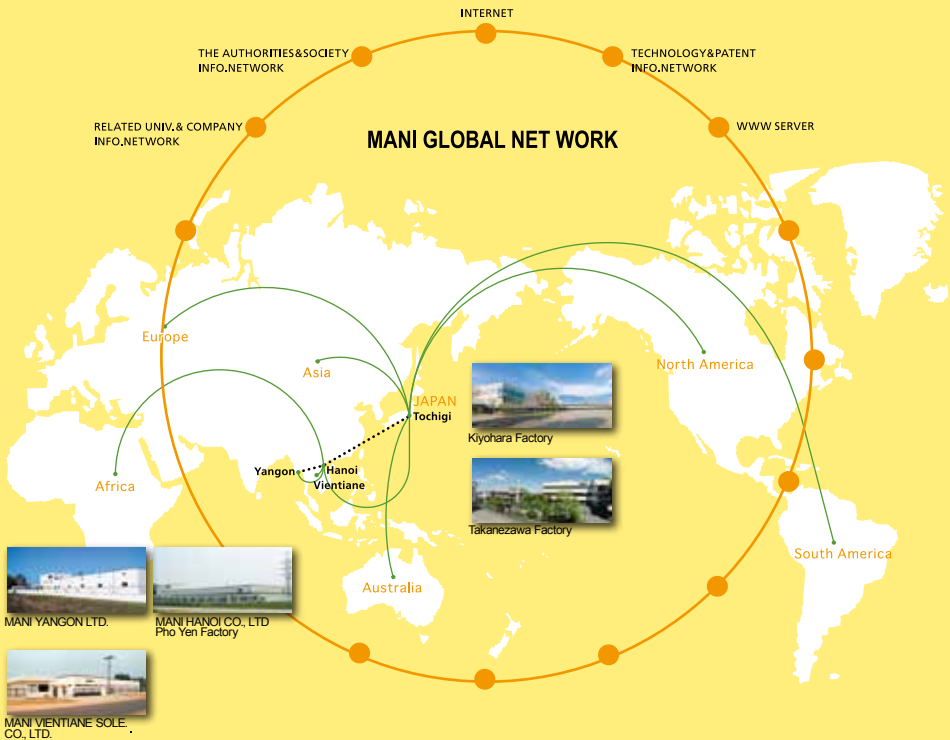


Micro sharpening technology
Magnified photo of ophthalmic knife MSL30
Micro sharpening technology

■ **This is another point of pride for our company**

Our suture needles for surgery account for more than 70% all suture needle production in Japan and more than 90% of all suture needles exported from Japan. Our dental reamers and files account for more than 35% of the world market.

One of our deepest commitments is to understand the needs of our customers and to deliver high quality products at a reasonable cost. We manufacture products in Southeast Asian countries, including Vietnam, Laos, and Myanmar, so human resources are available where required. Overseas production achieves high quality through abundant human resources.



We have established our own technologies and patents around the world. We fully adopted many global standards, including ISO13485. Our interest sits at the intersection between technology and everyday life. At MANI, this interest will never change.



We are accredited by:



ISO 14001

OHSAS 18001

ISO 13485

- ISO9001 (Quality Management System)
- ISO13485 (Medical Devices: Quality Management System)
- CE marking (MDD 93/42/EEC EC Medical Devices Directive)
- Canadian Medical Devices Conformity Assessment System (CMDCAS)
- ISO14001 (Environmental Management System)
- OHSAS18001 (Occupational Health and Safety Management Systems)

Reamers and K and H files series

MANI's deep knowledge of reamers has developed over a long history of

■ Using MANI hard-fiber Stainless steel

Dental treatment tools used inside the mouth require high corrosion resistance and durability. Above all, they must have a reliable cutting edge that meets the practical needs of the dentist. We chose 18-8 Stainless steel, because of its high corrosion resistance and ductility. We could find a material that can provide both flexibility and hardness through fine processing.



(MANI hard-fiber stainless steel)



(typical stainless steel)

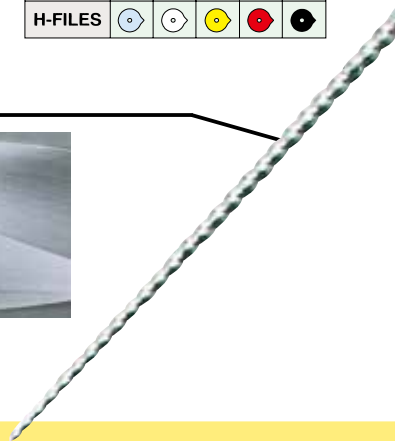
Rubber stopper

A suitable rubber stopper for each shape and length is fitted initially.

	Blue 18mm	White 21mm	Yellow 25mm	Red 28mm	Black 31mm
REAMERS					
K-FILES					
H-FILES					

Sharp edge and mirror finish

Wrap grinding process gives the surface a mirror finish.



and K and H files series manufacturing surgical needles.

Thread hole to prevent dropping

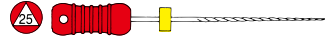
A thread allows a chain or string to pass through it to prevent the reamer from dropping when during use

Icons and numbers allow easy identification

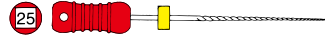
The top of the grip is marked with an easy-to-identify icon with a number.



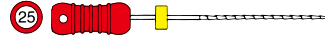
Reamers



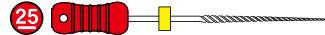
K-Files



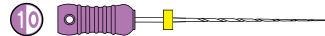
H-Files



RT Files



D Finders



Curved design for better holding

Easy-to-hold shape that fits the fingers

Anti-slip molded rings

The grip is molded to have anti-slip rings

Colors allow easy identification

The grips are grouped into different colors according to their thicknesses

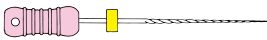

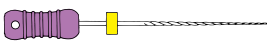
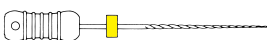
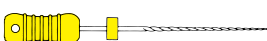
















Accurate dimensional machining

.02 taper meets ISO standards

*Except for the flare files

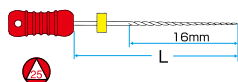
Reamers

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80, #90-140 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
06	0.06	
08	0.08	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	
90	0.90	
100	1.00	
110	1.10	
120	1.20	
130	1.30	
140	1.40	

Rubber Stoppers: 18 mm  21 mm  25 mm  28 mm  31 mm 

Length of operative part(L)

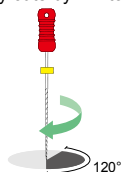


L = 18 mm (#15-40),
21 mm, 25 mm, 28 mm, 31 mm

Usage

Reaming

Rotary cuts by 1/4 to 1/3 turn



Magnified view of the cutting flute



Cross-section shape

#06-40

#45-140



Intended use





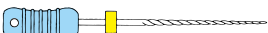
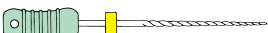
Root canal enlargement or
debridement



18 mm file

The length of the root canal differs depending on the individual and patient's growth process. The 18 mm file is effective for a short root canal, such as in a child patient.

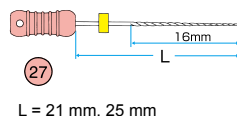
Medium reamers

■ Smallest available unit: 6 pcs per pack ■ Assortment: #12-37 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	

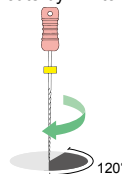
Rubber Stoppers: 21 mm  25 mm 

Length of operative part(L)



Usage

Reaming
Rotary cuts by 1/4 to 1/3 turn



Magnified view of the cutting flute



Cross-section shape

#12-37

Intended use

Root canal enlargement or
debridement

Related products

For greater penetration force
than a reamer:

D Finders

 ...P21

For engine type:

Engine Reamers

 ...P23

Reaming

This is an operation to enlarge a root canal by cutting its wall through repeated rotations (1/4 to 1/3 turn).

Role of medium size

The reamers are manufactured in accordance with ISO standard. Of our files that meet ISO standards, the widest section has 50% transition rate between each file. In order to reduce the load on the file, use an medium-size ISO-compliant file. This enables more efficient enlargement of a root canal.

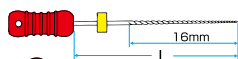
K-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80, #90-140 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
06	0.06	
08	0.08	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	
90	0.90	
100	1.00	
110	1.10	
120	1.20	
130	1.30	
140	1.40	

Rubber Stoppers: 18 mm 21 mm 25 mm 28 mm 31 mm 35 mm

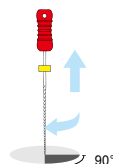
Length of operative part(L)



L = 18 mm (#15-40),
21 mm, 25 mm, 28 mm, 31 mm

Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#06-40



#45-140



Intended use

Root canal enlargement.

18 mm file

The length of the root canal differs depending on the individual and his/her growth process. The 18 mm file is effective for a short root canal, such as in a child patient.

Medium K-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #12-37 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	

Rubber Stoppers: 21 mm 25 mm

Role of medium size

K-Files is manufactured in accordance with ISO standards. Of our files that meet ISO standards, the thinnest sections are half as thick as the widest sections. In order to reduce the load on the file, use an medium-size ISO-compliant file. This enables more efficient enlargement of a root canal.

Turn and pull

Rotate the file about 1/4 turn to cut into the dentine, then pull it out to continue cutting.

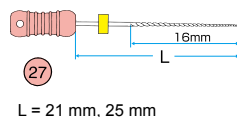
Watch-winding

Rotate the file about 30 to 60 degrees clockwise, and again to the same degree counterclockwise. Repeat this step to cut the dentine.

Balanced force technique

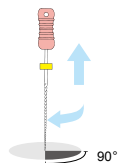
This is one of the techniques to enlarge a root canal while taking the displacement of root canal shape into consideration. To do this, cut the root canal using the file while maintaining uniform force to all of its walls. Insert the file into the root canal, gently apply force in the apical direction and rotate the file clockwise. Next, rotate the file counterclockwise while applying force in the apical direction. Finally, remove the file while rotating it clockwise. Repeat this step up to the working length.

Length of operative part(L)



Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#12-37



Related products

For better flexibility and cutting force than the K-Files:

Flexile Files

...P18

RT Files

...P20





















For better penetration force than the K-Files:

D Finders

...P21

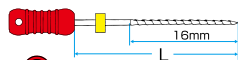
H-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80, #90-140 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
08	0.08	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	
90	0.90	
100	1.00	
110	1.10	
120	1.20	
130	1.30	
140	1.40	

Rubber Stoppers: 18 mm  21 mm  25 mm  28 mm  31 mm  35 mm 

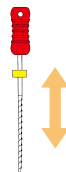
Length of operative part(L)



L = 18 mm (#15-40),
21 mm, 25 mm, 28 mm, 31 mm

Usage

Filing



Magnified view of the cutting flute



Cross-section shape

#08-140



Intended use



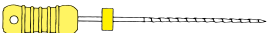



Root canal enlargement.



18 mm file

The length of the root canal differs depending on the individual and his/her growth process. The 18 mm file is effective for a short root canal, such as in a child patient.

Medium H-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #12-37 ■ Material: Stainless steel ■ Taper: .02

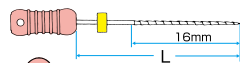
Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	

Rubber Stoppers: 21 mm  25 mm 

Role of medium size

The H-files are manufactured in accordance with ISO standards. Of our files that meet ISO standards, the thinnest sections are half as thick as the widest sections. In order to reduce the load on the file, use a medium-size ISO-compliant file. This enables more efficient enlargement of a root canal.

Length of operative part(L)



L = 21 mm, 25 mm




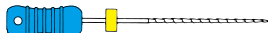

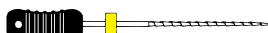
Cross-section shape



#12-37



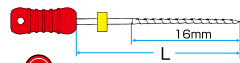
NiTi H-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40 ■ Material: Nickel titanium ■ Taper: .02

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

Rubber Stoppers: 21 mm  25 mm 

Length of working portion (L)



L = 21 mm, 25 mm

Cross-section shape

#15-40



Filing

Also called rasping, one technique to enlarge a root canal. File the entire wall of the root canal continuously in 1-mm increments.

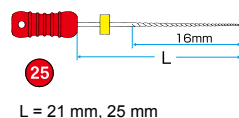
SEC O-Files K

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
08	0.08	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	

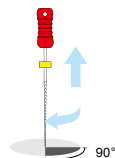
Rubber Stoppers: □ 21 mm ■ 25 mm

Length of operative part(L)



Usage

turn and pull



Cross-section shape

#08-40
#45-80



Intended use

Root canal enlargement.

Magnified view of the cutting flute



The rounded end is less likely to cause a ridge or perforation, allowing the file to be smoothly led along a root canal.

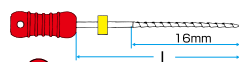
SEC O-Files H

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, 45-80 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	

Rubber Stoppers: 21 mm ○ 25 mm ●

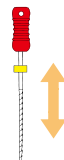
Length of operative part(L)



L = 21 mm, 25 mm

Usage

Filing



Cross-section shape

#10-80



Intended use

Root canal enlargement.

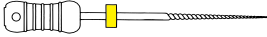
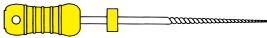
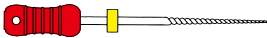
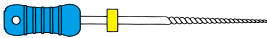
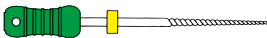
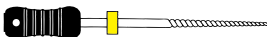




Magnified view of the cutting flute





The rounded end is less likely to cause a ridge or perforation, allowing the file to be smoothly led along a root canal.

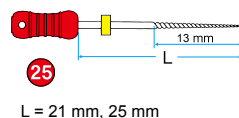
Flare Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15 -40 ■ Material: Stainless steel ■ Taper: .05

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	

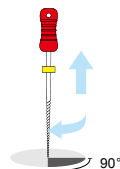
Rubber Stoppers: 21 mm  25 mm 

Length of operative part(L)



Usage

turn and pull



Magnified view of the cutting flute



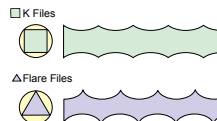
Cross-section shape

#12-60



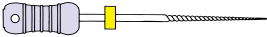
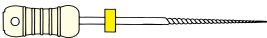
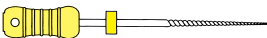
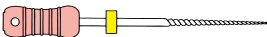
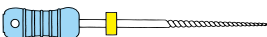

Intended use



Root canal enlargement.



Medium Flare Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #12-37
■ Material: Stainless steel ■ Taper: .05

Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	







Rubber Stoppers: 21 mm  25 mm 



Role of medium size

In order to reduce the load on the files, use an medium size. This enables more efficient enlargement of a root canal.

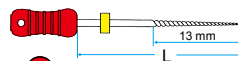
NiTi Flare Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40 ■ Material: Nickel titanium: ■ Taper: .05

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

Rubber Stoppers: 21 mm  25 mm 

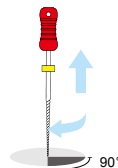
Length of operative part(L)



L = 21 mm, 25 mm

Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#15-40

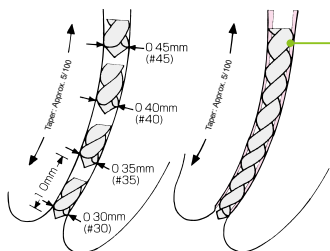


Intended use

Root canal enlargement.

Fewer Steps

This procedure is typically complicated due to the need for several files. The use of **fewer flare files** enables more efficient flaring from the root canal orifice to the apical foramen.



Ideal taper: .05 to .07

Although these files have a large taper, their triangular cross-sectional shapes are designed to improve flexibility and cutting efficiency.

Role of medium size

In order to reduce the load on the files, use an medium size. This enables more efficient enlargement of a root canal.

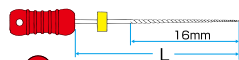
Flexile Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15 -40 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

Rubber Stoppers: 21 mm 25 mm

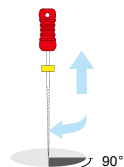
Length of operative part(L)



L = 21 mm, 25 mm

Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#15-40



Intended use

Root canal enlargement.

Related products

For engine type:

Super Files

...P24

Improved flexibility

MANI K-files with small diameters have a rectangular cross-section to improve torsional strength and fracture resistance. However, their flexibility is quite limited. The Flexile files have a triangular cross-section. This decreases cross-sectional two dimensional moment (Fig. 2) to provide better flexibility than files with a rectangular cross-section.

Fig.1:Cross-section of Flexile and MANI K-Files

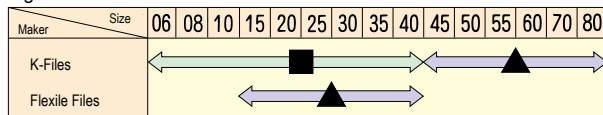
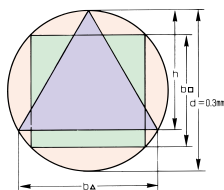


Fig.2:The secondary moment(I)of the cross section of #30 K-Files is—



● When the cross-section is :

$$I_{\Delta} = 1.68 \times 10^{-4} \text{Mm}^4$$







● When the cross-section is :



$$I_{\Delta} = 0.82 \times 10^{-4} \text{Mm}^4$$

The flexibility of the triangular cross-section type is about two times that of the square cross-section type.

Medium Flexile Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #12-37 ■ Material: Stainless steel ■ Taper: .02

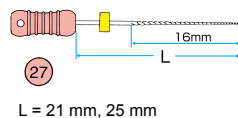
Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	

Rubber Stoppers: 21 mm  25 mm 

Role of medium size

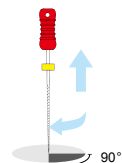
In order to reduce the load on the file, use an medium size. This enables more efficient enlargement of a root canal.

Length of operative part(L)



Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#12-37



Intended use

Root canal enlargement.

● ● ● Related products ● ● ●

For engine type:

Super Files

 ...P24

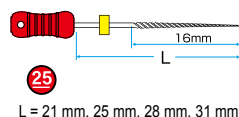
RT Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	

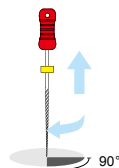
Rubber Stoppers: 21 mm 25 mm 28 mm 31 mm

Length of operative part(L)



Usage

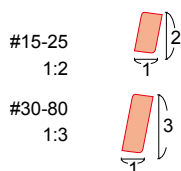
turn and pull



Magnified view of the cutting flute



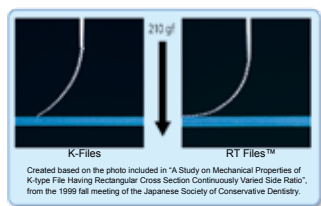
Cross-section shape



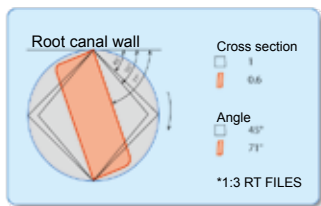
Intended use

Root canal enlargement.

Effective file for treatment of a curved root canal



Comparison of flexibility



Cross-section and edge angle

Flexibility

The RT files is more flexible than MANI K-files, effective, in particular, for the treatment of curved root canals.

Cutting force





The RT files has about 1.5 times the strength in cutting force of MANI K-files. (based on comparison of our products)



Fracture resistance

The angle to fracture is large, reducing the possibilities of file breakage.

D Finders

■ Smallest available unit: 6 pcs per pack ■ Material: Stainless steel ■ Taper: .02

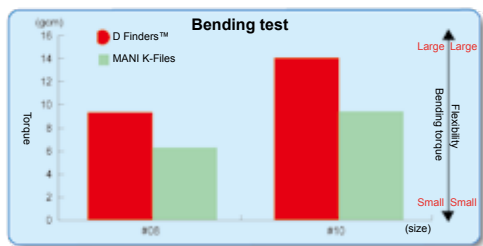
Size	Tip diameter (mm)	
08	0.08	
10	0.10	
12	0.12	
15	0.15	

Rubber Stoppers: 21 mm  25 mm 

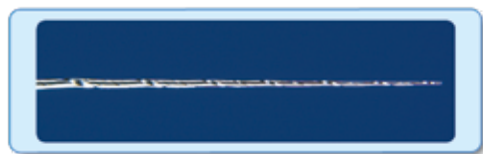
Designed for calcified canal access

Features

D Finders has a D-shaped cross-section, thereby increasing their strength and resilience. This increased resilience improves the penetration force, making the files effective for a root canal narrowed by calcification. The cutting flutes are shaped to prevent cutting in [screwing effect].

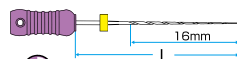


(Table 1)



Magnified view of cutting flute

Length of operative part(L)



L = 21 mm, 25 mm

Usage

Reaming

Rotary cuts by 1/4 to 1/3 turn



Magnified view of the cutting flute



Cross-section shape

#08-15



Intended use

Root canal enlargement or penetration of a narrowed and calcified root canal

Barbed Broaches

■ 12 pcs per pack ■ Smallest available unit: 6 packs (Total 72 pcs) per box ■ Material: Stainless steel

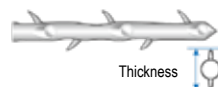
Size		
000	XXX Fine	
00	XX Fine	
0	X Fine	
1	Fine	
2	Medium	
3	Coarse	

■ Length of operative part(L)



L = 52 mm

■ Magnified view of the cutting flute



Thickness

■ Intended use

Size	000	00	0	1	2	3
Thickness	0.30	0.36	0.42	0.50	0.58	0.66

Square Broaches

■ 12 pcs per pack ■ Smallest available unit: 6 packs (Total 72 pcs) per box ■ Material: Stainless steel

Size		
000	XXX Fine	
00	XX Fine	
0	X Fine	
1	Fine	
2	Medium	
3	Coarse	

■ Length of operative part(L)



L = 52 mm

■ Magnified view of the cutting flute



Thickness














■ Intended use

To locate a root canal, to remove moisture in a root canal by wrapping the square broach with cotton or to investigate the length and thickness of the root canal.

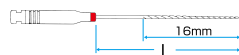
Size	000	00	0	1	2	3
Thickness	0.15	0.18	0.21	0.24	0.27	0.30

Engine Reamers

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40, #45-80 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	
70	0.70	
80	0.80	

Length of operative part(L)



L = 18 mm, 21 mm, 25 mm, 28 mm

Usage

Use the Engine Reamer at max. allowable speed of 800 min⁻¹ for rotary contrahead.



Applicable to rotational motion

Magnified view of the cutting flute



Cross-section shape

#10-40



#45-80



Intended use

Enlargement or cleaning of a root canal.

Working length types

In addition to 21 and 25 mm, 18 mm (for infants, molar teeth, etc.) and 28 mm (for cuspid teeth, etc.) working lengths are also available.

Related products






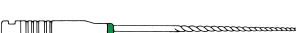





For manual type:

Reamers

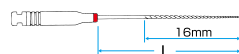
...P 8

Super Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	
55	0.55	
60	0.60	

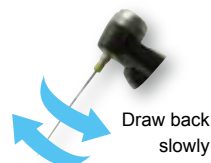
Length of operative part(L)



L = 18 mm, 21 mm, 25 mm

Usage

Use Super Files at max. allowable speed of 800 min⁻¹.



Magnified view of the cutting flute



Cross-section shape

#10
#15-60



Intended use

Root canal enlargement.

Pulse cutting method

Insert the Super Files with the Twist Contra in a slow and gentle vertical insertion and withdrawal. If you feel that the tip of the file begins to lock, slowly draw back the file and enter the canal again. Repeat this step to enlarge the root canal.

If you try to enlarge the root canal by applying the entire cutting flute, a large area will be cut at one time, requiring careful cleaning of the root canal.

Appropriate for curved root canal

Because the Super Files is very flexible, it is more appropriate to use in curved root canals than our K-Files.

● ● ● Related products ● ● ●










For manual type:

Flexile Files

...P 18

U-Files

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
10	0.10	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	
45	0.45	
50	0.50	

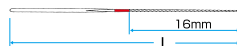
Use a device that has the following shank diameter:

#10-40 ϕ 0.8 mm

#45-50 ϕ 1.0 mm

Note: Depending on which ultrasonic device is used, the tip attachment and power required will differ. For proper use, follow the instructions provided by the manufacturer.

Length of operative part(L)



L = 33 mm

Usage

Use U-Files by attaching it to an active device (e.g. scaler or plaque remover)



Magnified view of the cutting flute



Cross-section shape

#10-40



#45-50







Intended use

Root canal enlargement.

GPR

- Smallest available unit: 4 pcs per pack
- Assortment: 1S (#70), 2S (#50), 3N (#40), 4N (#30) (2 Stainless steel files, 2 NiTi files)
- Taper: .04 Material: Stainless steel, Nickel Titanium

Size	Tip diameter (mm)	
1S (#70)	0.70	
2S (#50)	0.50	
3N (#40)	0.40	
4N (#30)	0.30	

S = Stainless steel, N = Nickel Titanium

Superior Results!

Two simple steps

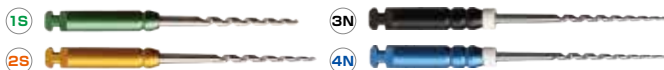
Faster, easier,
and more efficient

STEP 1

Remove gutta-percha from the root canal orifice up to the middle part of the root canal.

STEP 2

Remove gutta-percha from the middle part of the root canal up to 1-2 mm below the apex.



Cases

* Photos provided by Dr. Yasuhisa Tsujimoto, Nihon Univ. School of Dentistry at Matsudo, Dept. of Dentistry, JAPAN.



NOTE:

- Stress-free
- Easy to use
- Fast & dynamic removal
- No need for solvents! removal

Max. allowable speed
1000±500/min-1

Length of operative part(L)



1S : L = 16 mm
2S : L = 18 mm
3N : L = 21 mm
4N : L = 21 mm

Usage

Reaming



Max. allowable speed
1000±500 min⁻¹

Magnified view of the cutting flute



Cross-section shape



Intended use







To remove gutta-percha.

Four combinations

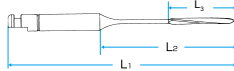
1S → 3N
1S → 4N
2S → 3N
2S → 4N

Peeso Reamers

■ Smallest available unit: 6 pcs per pack ■ Assortment: #1-6 ■ Material: Stainless steel

Size	Maximum diameter of working portion (mm)	
1	0.70	
2	0.90	
3	1.10	
4	1.30	
5	1.50	
6	1.70	

Length of operative part(L)



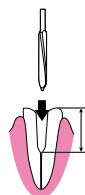
L ₁	L ₂	L ₃
28 mm	15 mm	6.5 mm
32 mm	19 mm	8.5 mm
38 mm	25 mm	8.5 mm

Magnified view of the cutting flute



Intended use







Max. allowable speed: 1200 min⁻¹
Rotary cutting instruments attached to a micro-motor



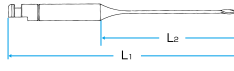
The Peeso Reamer is used to flare a root canal orifice into a funnel shape. It cuts more linearly than the Gates Drill.

Gates Drills

■ Smallest available unit: 6 pcs per pack ■ Assortment: #1-6 ■ Material: Stainless steel

Size	Maximum diameter of working portion (mm)	
1	0.50	
2	0.70	
3	0.90	
4	1.10	
5	1.30	
6	1.50	

Length of operative part(L)



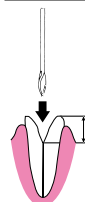
L ₁	L ₂
28 mm	15 mm
32 mm	19 mm
38 mm	25 mm

Magnified view of the cutting flute



Intended use

Max. allowable speed: 800 min⁻¹
Rotary cutting device attached to a micro-motor

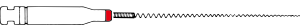
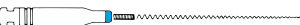
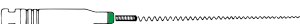
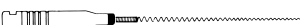


The Gates Drills are used to flare a root canal orifice into a funnel shape or flare one-third of the coronal side of a root canal.

Mainly used to flare a root canal orifice into a funnel shape or to flare one third of the coronal side of a root canal.

Paste Carriers

■ Smallest available unit: 4 pcs per case ■ Assortment: #25-40 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

The base of the working portion is shaped like a spring to properly absorb vibration.

Paste Carriers is also called lentulo or filler.

Length of operative part(L)



L = 21 mm, 25 mm, 29 mm

Magnified view of the cutting flute









Max. allowable speed: 800 min⁻¹

Intended use

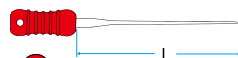
To fill a root canal with filling material or to apply agent to a root canal.

Spreaders

■ Smallest available unit: 6 pcs per pack ■ Assortment: #15-40 ■ Material: Stainless steel ■ Taper: .02

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

■ Length of operative part(L)



L = 21 mm, 25 mm

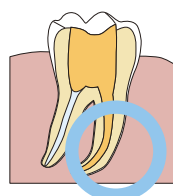
■ Magnified view of the cutting flute



■ Intended use

To fill a root canal.

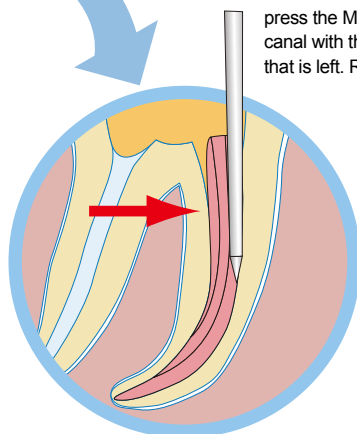
Usage



After enlarging the root canal







Lateral condensation of root canal filling

This is the process of filling root canal with a Master Point and sealer after enlarging and cleaning of the root canal space is completed. Insert the Master Point, coated with sealer, into the root canal. Now press the Master Point coronally and laterally into the walls of the root canal with the Spreader. Now insert an Accessory Point into the gap that is left. Repeat this process to tightly fill the root canal space.



Flare Finger Spreaders

■ Smallest available unit: 6 pcs per case ■ Assortment: #15-40 ■ Material: Stainless steel ■ Taper: .05

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

■ Length of operative part(L)



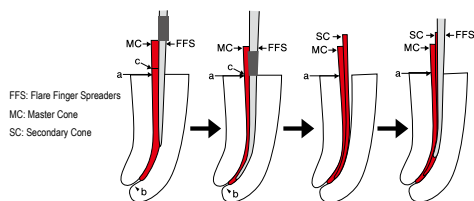
L = 21 mm, 25 mm

■ Magnified view of the cutting flute



■ Intended use







To fill a root canal.



Because of .05 taper, apply light pressure to secure the necessary gap for the Accessory Point.

Pluggers

■ Smallest available unit: 6 pcs per case ■ Assortment: #15-40 ■ Material: Stainless steel ■ Taper: 0.35

Size	Tip diameter (mm)	
15	0.15	
20	0.20	
25	0.25	
30	0.30	
35	0.35	
40	0.40	

■ Length of operative part(L)



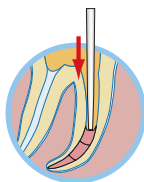
L = 21 mm, 25 mm

■ Magnified view of the cutting flute



■ Intended use

To fill a root canal.

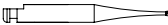
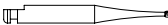



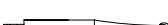

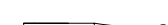
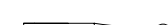


Vertical condensation technique of root canal filling

This is the filling of a root canal by applying sealer to the root canal, heating the appropriate Master Point, and then vertically applying pressure with a Plugger.

MI Stainless Burs

■ Smallest available unit: 6 pcs per pack ■ Assortment: #1-6 (22 mm, 28 mm) ■ Material: Stainless steel

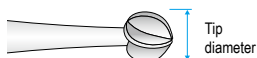
Size	Tip diameter (mm)	Length of working portion: 22 mm
1/2	0.6	
1	0.8	
2	1.0	
3	1.2	
4	1.4	
5	1.6	
6	1.8	
7	2.1	
8	2.3	

■ Length of operative part(L)



L = 22 mm, 28 mm, 34 mm

■ Magnified view of the cutting flute








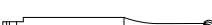



Max. allowable speed:

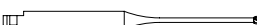
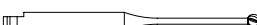
Maximum rotation of 1200 min⁻¹ (22 mm, 28 mm)

Maximum rotation of 800 min⁻¹ (34 mm)

■ Intended use

To cut softened dentine

Size	Tip diameter (mm)	Length of working portion: 28 mm
1/2	0.6	
1	0.8	
2	1.0	
3	1.2	
4	1.4	
5	1.6	
6	1.8	
7	2.1	
8	2.3	

Size	Tip diameter (mm)	Length of working portion: 34 mm
2	1.0	
6	1.8	

Features

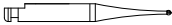




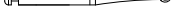
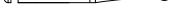


- (1) Highly resistant against rust.
- (2) Can be autoclaved.
- (3) **Selectively removes caries dentine.**

Since the material used is softer than enamel, MI Stainless Bur selectively removes softened dentine, preventing excessive cutting.

MI(Minimal Intervention)

Hard Stainless Burs

■ Smallest available unit: 6 pcs per pack ■ Assortment: #1-6 (22 mm, 28 mm) ■ Material: Stainless steel

Size	Tip diameter (mm)	Length of working portion: 22 mm
1/2	0.6	
1	0.8	
2	1.0	
3	1.2	
4	1.4	
5	1.6	
6	1.8	
7	2.1	
8	2.3	

Length of operative part(L)



L = 22 mm, 28 mm

Magnified view of the cutting flute



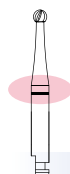
Max. allowable speed
Maximum rotation of 4000 min⁻¹

Intended use

To cut caries dentine

Features


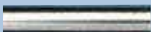






- ① Highly resistant against rust.
- ② Can be autoclaved.
- ③ Highly durable against cutting.



The hard type is identified by its groove

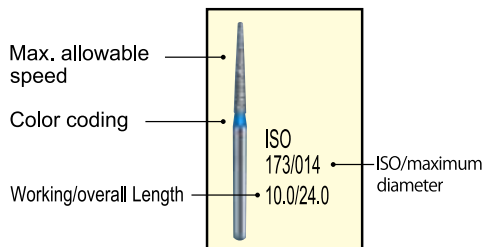
Persistent cutting durability

Autoclaved steam sterilization comparison

	Before sterilization	5 cycles	10 cycles	20 cycles
MANI Hard Stainless Burs				
Conventional Steel				

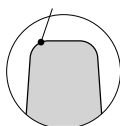
Dia-Burs®

Dia-Burs® identification guide










	450,000 min ⁻¹
	300,000 min ⁻¹
	160,000 min ⁻¹
Super coarse (SC)	/180-212 µm
Coarse (C)	/125-150 µm
Standard (S)	/106-125 µm
Fine (F)	/53-63 µm
Extra fine (EF)	/20-30 µm








★ mark: Shoulder R













Super Coarse	<p>ISO 001/020 1.8/19.2</p> <p>BR - 31SC</p>	<p>ISO 001/018 1.6/19.0</p> <p>BR - 40SC</p>	<p>ISO 001/016 1.4/20.3</p> <p>BR - 41SC</p>	<p>ISO 001/012 1.1/19.2</p> <p>BR - 45SC</p>	<p>ISO 001/014 1.2/19.2</p> <p>BR - 46SC</p>	<p>ISO 039/034 5.1/19.2</p> <p>EX - 11SC</p>
	<p>ISO 237/023 5.3/19.1</p> <p>EX - 21SC</p>	<p>ISO 237/034 5.1/19.1</p> <p>EX - 26SC</p>	<p>ISO 297/016 7.3/21.2</p> <p>FO - 21SC</p>	<p>ISO 297/018 7.3/21.2</p> <p>FO - 22SC</p>	<p>ISO 257/034 5.2/19.2</p> <p>FO - 27SC</p>	<p>ISO 257/020 4.0/19.8</p> <p>FO - 32SC</p>
	<p>ISO 111/016 8.3/22.1</p> <p>SF - 12SC</p>	<p>ISO 111/018 8.3/22.2</p> <p>SF - 13SC</p>	<p>ISO 110/016 7.3/21.1</p> <p>SF - 21SC</p>	<p>ISO 109/015 4.8/19.2</p> <p>SF - 31SC</p>	<p>ISO 109/012 4.4/19.1</p> <p>SF - 41SC</p>	<p>ISO 010/014 1.5/19.1</p> <p>SI - 46SC</p>
	<p>ISO 010/016 1.9/19.1</p> <p>SI - 47SC</p>					








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ISO 010/018 2.0/19.1	ISO 289/016 8.3/21.9	ISO 141/014 8.3/22.3	ISO 141/016 8.3/22.3	ISO 141/018 8.3/22.3	ISO 166/018 10.3/22.1	ISO 173/016 10.3/24.1
SI - 48SC	SO - 21SC	SR - 11SC	SR - 12SC	SR - 13SC	TC - 11SC	TF - 11SC





						
ISO 173/018 10.3/21.9	ISO 173/020 10.3/21.9	ISO 170/023 5.6/19.1	ISO 170/018 4.3/19.1	ISO 199/018 10.3/21.9	ISO 198/020 9.3/21.9	ISO 198/024 9.4/22.1
TF - 12SC	TF - 13SC	TF - 22SC	TF - 31SC	TR - 12SC	TR - 13SC	TR - 14SC

			
ISO 199/024 11.5/23.9	ISO 199/026 11.5/23.9	ISO 197/018 7.3/21.2	ISO 068/044 2.0/19.2
TR - 15SC	TR - 19SC	TR - 21SC	WR - 13SC




































Coarse						
	ISO 002/019 1.5/19.0	ISO 002/014 2.4/19.1	ISO 002/013 2.6/19.1	ISO 001/018 1.6/19.1	ISO 001/019 1.8/21.1	ISO 001/017 1.6/20.2
	BC - 31C	BC - 42C	BC - 43C	BR - 31C	BR - 32C	BR - 40C

						
ISO 001/015 1.3/19.1	ISO 001/011 1.0/19.1	ISO 001/013 1.2/19.1	ISO 001/008 0.8/19.0	ISO 190/011 2.4/19.1	ISO 190/015 3.3/19.1	ISO 039/033 5.0/19.1
BR - 41C	BR - 45C	BR - 46C	BR - 49C	DI - 41C	DI - 42C	EX - 11C
































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 ISO 039/035 7.2/20.1 EX - 12C	 ISO 237/018 5.1/19.1 EX - 20C	 ISO 237/022 5.1/19.0 EX - 21C	 ISO 238/016 5.0/19.2 EX - 22C	 ISO 220/017 10.0/24.0 EX - 24C	 ISO 237/032 5.0/19.0 EX - 26C	 ISO 234/015 4.2/19.1 EX - 31C
 ISO 237/010 3.0/19.1 EX - 41C	 ISO 299/014 10.1/24.1 FO - 11C	 ISO 297/015 7.0/21.0 FO - 21C	 ISO 298/017 7.1/21.1 FO - 22C	 ISO 257/029 5.1/19.1 FO - 25C	 ISO 257/033 5.0/19.1 FO - 27C	 ISO 257/018 3.7/19.6 FO - 32C
 ISO 190/018 9.5/21.0 FO - 54C	 ISO 257/024 5.3/19.2 FO - 100C	 ISO 257/013 7.9/22.0 FO - 101C	 ISO 553/019 10.2/23.2 RS - 11C	 ISO 545/019 7.1/21.2 RS - 21C	 ISO 544/019 4.2/19.2 RS - 31C	 ISO 111/013 8.1/22.1 SF - 11C
 ISO 111/014 8.0/21.9 SF - 12C	 ISO 111/016 8.1/22.1 SF - 13C	 ISO 110/015 7.1/21.0 SF - 21C	 ISO 110/012 6.0/20.1 SF - 24C	 ISO 109/014 4.6/19.1 SF - 31C	 ISO 109/011 4.2/19.0 SF - 41C	 ISO 109/014 4.4/19.1 SF - 79C
 ISO 109/012 4.4/19.1 SF - 80C	 ISO 010/014 1.3/19.0 SI - 46C	 ISO 010/014 1.6/18.9 SI - 47C	 ISO 010/017 1.8/19.0 SI - 48C	 ISO 297/013 6.1/19.0 SO - 20C	 ISO 298/015 8.1/19.1 SO - 21C	 ISO 289/010 6.0/20.2 SO - 22C




















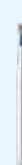















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 ISO 289/012 8.0/22.2	 ISO 141/013 8.1/22.2	 ISO 141/015 8.1/22.2	 ISO 141/017 8.1/22.2	 ISO 160/016 10.1/22.0	 ISO 165/015 8.1/22.0	 ISO 164/011 8.1/22.0
SO - 23C	SR - 11C	SR - 12C	SR - 13C	TC - 11C	TC - 21C	TC - 26C
 ISO 165/011 7.6/21.6	 ISO 166/014 9.7/23.7	 ISO 173/015 10.1/24.0	 ISO 173/017 10.1/21.8	 ISO 173/018 10.1/21.8	 ISO 172/023 9.1/21.8	 ISO 171/015 7.1/21.0
TC - 72C	TC - 74C	TF - 11C	TF - 12C	TF - 13C	TF - 14C	TF - 20C
 ISO 171/017 7.1/21.0	 ISO 170/022 5.4/19.0	 ISO 170/019 5.1/20.1	 ISO 170/017 4.1/19.0	 ISO 169/012 3.6/19.1	 ISO 170/013 4.1/19.0	 ISO 170/015 4.1/19.0
TF - 21C	TF - 22C	TF - 23C	TF - 31C	TF - 41C	TF - 42C	TF - 43C
 ISO 199/017 10.1/21.8	 ISO 199/017 10.1/21.8	 ISO 198/018 9.1/21.8	 ISO 198/023 9.2/22.0	 ISO 199/023 11.3/23.8	 ISO 199/017 10.1/24.1	 ISO 200/024 11.3/23.8
TR - 11C	TR - 12C	TR - 13C	TR - 14C	TR - 15C	TR - 17C	TR - 19C
 ISO 197/015 7.1/21.0	 ISO 197/017 7.1/21.1	 ISO 197/019 7.1/21.2	 ISO 199/017 10.0/21.6	 ISO 198/019 9.1/21.8	 ISO 198/012 8.0/21.2	 ISO 198/016 8.0/21.2
TR - 20C	TR - 21C	TR - 24C	TR - 25C	TR - 26C	TR - 28C	TR - 29C



































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 ISO 197/018 7.1/20.0	 ISO 199/012 10.2/24.2	 ISO 198/015 8.3/22.2	 ISO 198/014 8.1/22.2	 ISO 197/026 7.4/21.3	 ISO 198/012 8.3/22.2	 ISO 297/014 6.0/21.2
TR - 62C	TR - 224C	TR - 256C	TR - 257C	TR - 258C	TR - 259C	TO - 58C
 ISO 068/042 1.9/19.1	Short Shank		 ISO 002/015 2.3/16.6	 ISO 001/013 1.2/16.5	 ISO 257/015 7.1/18.2	 ISO 297/013 6.1/18.8
WR - 13C			BC - S42C	BR - S46C	FO - S21C	SO - S20C
 ISO 171/015 7.1/18.8	 ISO 171/015 7.1/18.8	 ISO 298/019 9.5/20.9	 ISO 197/017 7.1/18.8	 ISO 197/017 7.1/17.7	Standard	
TF - S20C	TF - S21C	TR - S13C	TR - S21C	TR - SS21C		
 ISO 002/016 3.5/19.0	 ISO 002/014 2.3/19.0	 ISO 002/012 2.5/19.0	 ISO 001/018 1.5/19.0	 ISO 001/014 1.2/19.0	 ISO 001/010 0.9/19.0	 ISO 001/012 1.1/19.0
BC - 32	BC - 42	BC - 43	BR - 31	BR - 41	BR - 45	BR - 46
 ISO 001/008 0.7/19.0	 ISO 019/010 2.3/19.0	 ISO 019/014 3.2/19.0	 ISO 039/032 4.9/19.0	 ISO 039/034 7.1/20.0	 ISO 553/019 10.1/23.1	 ISO 237/018 5.0/19.0
BR - 49	DI - 41	DI - 42	EX - 11	EX - 12	RS - 11	EX - 20


































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 ISO 237/021 5.0/18.9 EX - 21	 ISO 220/017 10.0/24.0 EX - 24	 ISO 237/032 4.9/18.9 EX - 26	 ISO 545/018 7.0/21.1 RS - 21	 ISO 234/014 4.1/19.0 EX - 31	 ISO 544/018 4.2/19.1 RS - 31	 ISO 237/010 2.9/19.0 EX - 41
 ISO 299/013 10.0/24.0 FO - 11	 ISO 298/014 7.0/21.0 FO - 21	 ISO 298/016 7.0/21.0 FO - 22	 ISO 257/028 5.0/19.0 FO - 25	 ISO 257/032 4.9/19.0 FO - 27	 ISO 257/018 3.7/19.6 FO - 32	 ISO 111/012 8.0/22.0 SF - 11
 ISO 111/014 8.0/21.9 SF - 12	 ISO 111/016 8.0/22.0 SF - 13	 ISO 110/014 7.0/20.9 SF - 21	 ISO 109/013 4.5/19.0 SF - 31	 ISO 109/010 4.1/18.9 SF - 41	 ISO 010/013 1.2/18.9 SI - 46	 ISO 010/014 1.6/18.9 SI - 47
 ISO 010/016 1.7/18.9 SI - 48	 ISO 288/012 6.0/20.9 SO - 20	 ISO 289/014 8.0/21.7 SO - 21	 ISO 141/012 8.0/22.1 SR - 11	 ISO 141/014 8.0/22.1 SR - 12	 ISO 141/016 8.0/22.1 SR - 13	 ISO 160/016 10.0/21.9 TC - 11
 ISO 166/018 10.1/23.1 TC - 16	 ISO 160/014 8.0/21.9 TC - 21	 ISO 160/010 5.9/21.1 TC - 26	 ISO 173/014 10.0/24.0 TF - 11	 ISO 173/016 10.0/21.7 TF - 12	 ISO 173/018 10.0/21.7 TF - 13	 ISO 172/023 9.0/21.7 TF - 14

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 ISO 171/014 7.0/20.9	 ISO 171/016 7.0/20.9	 ISO 170/021 5.3/18.9	 ISO 170/018 5.0/20.0	 ISO 170/016 4.0/18.9	 ISO 169/011 3.5/19.0	 ISO 170/012 4.0/18.9
TF-20	TF-21	TF-22	TF-23	TF-31	TF-41	TF-42
 ISO 170/014 4.0/18.9	 ISO 199/016 10.0/21.7	 ISO 199/016 10.0/21.7	 ISO 198/018 9.0/21.7	 ISO 198/022 9.1/21.9	 ISO 200/022 11.2/23.7	 ISO 200/023 11.2/23.7
TF-43	TR-11	TR-12	TR-13	TR-14	TR-15	TR-19
 ISO 197/013 7.0/20.9	 ISO 197/016 7.0/21.0	 ISO 197/018 7.0/21.1	 ISO 199/016 10.0/21.6	 ISO 199/018 9.0/21.7	 ISO 041/024 0.5/19.1	 ISO 068/042 1.8/19.0
TR-20	TR-21	TR-24	TR-25	TR-26	WF-30	WR-13
Short Shank	 ISO 002/014 2.3/16.6	 ISO 002/012 2.5/16.6	 ISO 001/010 0.9/16.6	 ISO 001/012 1.1/16.6	 ISO 019/010 2.3/17.1	 ISO 298/014 7.0/18.1
	BC-S42	BC-S43	BR-S45	BR-S46	DI-S41	FO-S21
 ISO 190/017 9.5/20.0	 ISO 001/010 0.9/17.0	 ISO 277/023 4.7/17.0	 ISO 109/010 3.6/16.6	 ISO 010/013 1.2/16.5	 ISO 010/016 1.7/16.5	 ISO 288/012 6.0/18.7
FO-S54	MI-S45	Pro-S3	SF-S41	SI-S46	SI-S48	SO-S20

Dia-Burs®

 ISO 160/014 8.0/19.9 TC-S21	 ISO 173/016 10.1/21.1 TF-S12	 ISO 171/014 7.0/18.7 TF-S20	 ISO 171/016 7.0/18.7 TF-S21	 ISO 170/021 5.3/16.8 TF-S22	 ISO 170/018 5.0/17.0 TF-S23	 ISO 170/016 4.0/16.7 TF-S31	
 ISO 169/011 3.5/16.8 TF-S41	 ISO 198/018 9.4/20.8 TR-S13	 ISO 198/022 9.1/20.0 TR-S14	 ISO 197/016 7.0/18.7 TR-S21	<div>Super Short Shank</div>		 ISO 138/008 2.2/16.0 CD-SS51	 ISO 019/010 2.3/14.4 DI-SS41
 ISO 197/014 6.0/16.0 EX-SS13	 ISO 197/014 6.0/16.0 EX-SS14	 ISO 170/016 4.0/14.2 EX-SS33 ★	 ISO 544/018 4.2/16.0 RS-SS31 ★	 ISO 160/014 8.0/17.0 TC-SS21	 ISO 170/016 4.0/14.2 TF-SS31	 ISO 197/016 7.0/17.6 TR-SS21	
<div>Fine</div>	 ISO 001/006 0.5/19.0 BR-48F	 ISO 001/007 0.6/16.7 CD-50F ☆	 ISO 138/007 2.1/16.7 CD-51F ☆	 ISO 138/007 3.7/16.7 CD-52F ☆	 ISO 161/007 2.1/16.7 CD-53F ☆	 ISO 246/007 2.1/16.7 CD-54F ☆	
	 ISO 254/008 1.2/16.7 CD-55F ☆	 ISO 246/007 2.1/16.7 CD-56F ☆	 ISO 247/007 3.5/16.7 CD-57F ☆	 ISO 108/009 3.1/16.2 CD-58F ☆	 ISO 171/013 6.8/16.7 CD-59F ☆	 ISO 138/007 2.1/19.0 CD-60F ☆	 ISO 138/007 3.7/19.0 CD-61F ☆

































☆ for Chriden use.

Dia-Burs®









  ISO 108/009 3.1/19.0 CD-62F	 ISO 546/021 9.0/21.7 CE-12F	 ISO 544/020 5.2/18.9 CE-13F	 ISO 254/027 4.7/20.6 CE-15F	 ISO 198/017 9.0/21.7 CE-16F	 ISO 172/011 8.0/21.9 CE-17F	 ISO 196/020 5.0/19.0 CR-11F
 ISO 196/015 4.0/19.0 CR-12F	 ISO 197/012 7.0/21.5 CR-21F	 ISO 289/013 8.0/21.5 CR-22F	 ISO 150/009 0.1/21.0 EX-18F	 ISO 150/011 0.1/21.1 EX-19F	 ISO 237/020 5.0/18.9 EX-21F	 ISO 234/013 4.1/19.0 EX-31F
 ISO 298/013 7.0/21.0 FO-21F	 ISO 298/015 7.0/21.0 FO-22F	 ISO 254/015 3.2/19.0 FO-30F	 ISO 001/010 0.9/19.2 MI-45F	 ISO 161/007 2.1/19.2 MI-53F	 ISO 138/007 3.7/19.2 MI-61F	 ISO 108/009 3.1/19.2 MI-62F
 ISO 198/020 8.0/22.1 Pro-1f	 ISO 198/017 8.1/22.1 Pro-2f	 ISO 277/023 4.7/20.6 Pro-3f	 ISO 237/019 5.0/19.1 Pro-4f	 ISO 041/039 0.7/19.1 Pro-5f	 ISO 160/015 10.0/21.9 TC-11F	 ISO 160/013 8.0/21.9 TC-21F
 ISO 173/015 10.0/21.7 TF-12F	 ISO 171/015 7.0/20.9 TF-21F	 ISO 199/015 10.0/21.7 TR-11F	 ISO 198/016 9.0/21.7 TR-13F	 ISO 197/015 7.0/21.0 TR-21F	 ISO 199/015 10.0/21.6 TR-25F	 ISO 199/017 9.0/21.7 TR-26F

☆ for Chriden use.

Dia-Burs®

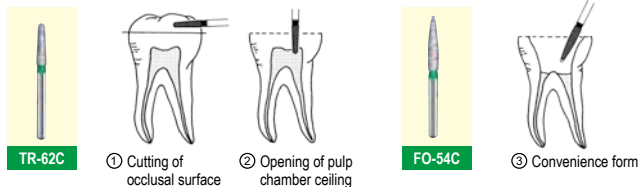
 <p>ISO 304/015 0.5/19.1</p> <p>WR-31F</p>	<p>Short Shank</p>	 <p>ISO 304/015 0.5/16.6</p> <p>WR-S31F</p>	<p>Super Short Shank</p>	 <p>ISO 298/013 7.6/18.1</p> <p>FO-SS21F</p>	 <p>ISO 160/012 8.1/18.1</p> <p>TC-SS21F</p>	<p>Extra Fine</p>
 <p>ISO 001/016 1.5/19.0</p> <p>BR-40EF</p>	 <p>ISO 546/020 9.0/21.7</p> <p>CE-12EF</p>	 <p>ISO 544/019 5.3/18.9</p> <p>CE-13EF</p>	 <p>ISO 254/026 4.7/20.6</p> <p>CE-15EF</p>	 <p>ISO 198/016 9.0/21.7</p> <p>CE-16EF</p>	 <p>ISO 196/019 5.0/19.0</p> <p>CR-11EF</p>	 <p>ISO 196/014 4.0/19.0</p> <p>CR-12EF</p>
 <p>ISO 237/019 5.0/18.9</p> <p>EX-21EF</p>	 <p>ISO 218/012 7.1/21.0</p> <p>EX-27EF</p>	 <p>ISO 545/018 7.0/21.1</p> <p>EX-29EF</p>	 <p>ISO 284/016 3.4/19.1</p> <p>EX-36EF</p>	 <p>ISO 254/024 2.0/19.1</p> <p>EX-37EF</p>	 <p>ISO 544/018 4.2/19.0</p> <p>RS-31EF ★</p>	 <p>ISO 248/013 6.1/20.0</p> <p>FO-20EF</p>
 <p>ISO 298/012 7.0/21.0</p> <p>FO-21EF</p>	 <p>ISO 298/014 7.0/21.0</p> <p>FO-22EF</p>	 <p>ISO 254/014 3.2/19.0</p> <p>FO-30EF</p>	 <p>ISO 243/009 4.3/23.5</p> <p>FO-40EF</p>	 <p>ISO 248/009 6.0/18.5</p> <p>FO-41EF</p>	 <p>ISO 248/011 7.7/22.0</p> <p>FO-42EF</p>	 <p>ISO 198/021 9.0/22.1</p> <p>Pro-1EF</p>
 <p>ISO 198/018 8.0/22.1</p> <p>Pro-2EF</p>	 <p>ISO 160/014 10.0/21.9</p> <p>TC-11EF</p>	 <p>ISO 160/012 8.0/21.9</p> <p>TC-21EF</p>	 <p>ISO 173/014 10.0/21.7</p> <p>TF-12EF</p>	 <p>ISO 171/014 7.0/20.9</p> <p>TF-21EF</p>	 <p>ISO 199/014 10.0/21.7</p> <p>TR-11EF</p>	 <p>ISO 198/015 9.0/21.7</p> <p>TR-13EF</p>

Dia-Burs®

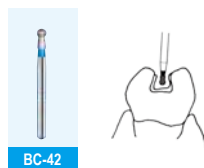
 <p>ISO 197/013 7.0/21.0</p> <p>TR-21EF</p>	 <p>ISO 199/014 10.0/21.6</p> <p>TR-25EF</p>	 <p>ISO 199/016 9.0/21.7</p> <p>TR-26EF</p>	<p>Short Shank</p>	 <p>ISO 198/020 9.0/19.9</p> <p>TR-S14EF</p>	<p>Super Short Shank</p>	 <p>ISO 197/012 5.9/15.9</p> <p>EX-SS13EF</p>
 <p>ISO 197/012 5.9/15.9</p> <p>EX-SS14EF</p>	<p>★</p>  <p>ISO 170/016 4.0/14.2</p> <p>EX-SS33EF</p>	<p>★</p>  <p>ISO 544/018 4.2/16.0</p> <p>RS-SS31EF</p>				

* Product illustrations show the general forms.

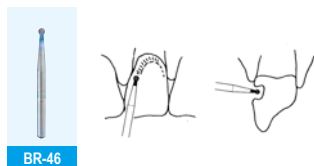
Access Opening DIA-BURS



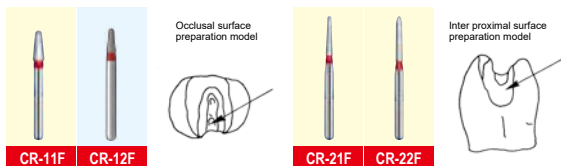
BC Series (Ball Collar)



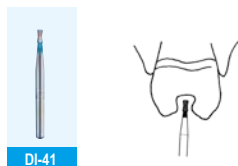
BR Series (Ball Round)



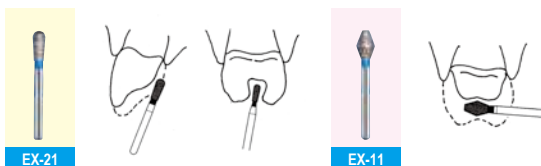
CR Series (CR Inlay Preparation)



DI Series (Double Inverted Cone)



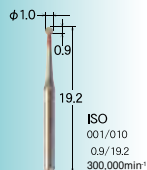
EX Series (Extra Shape)



MI Dia-Burs®

MI-45F

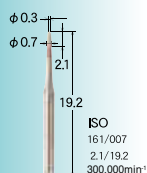
Smallest available unit: 5 pcs/sheet



- | | |
|--------------|--|
| Features | Spherical bur with 1.0 mm diameter |
| Intended use | General-purpose spherical bur |
| 1 | Proximal caries to an anterior tooth (class III or IV cavity) |
| 2 | Caries in tooth cervix (class V cavity or cavity in cervical area) |



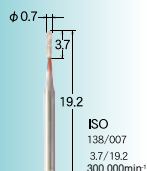
MI-53F



- | | |
|--------------|---|
| Features | Small pointed bur |
| Intended use | Since this bur has a thin tip it can help avoid damage to an adjacent tooth. The use of this bur enables the user to form a narrower pit-and-fissure. |
| 1 | Pit-and-fissure caries (class I cavity) |
| 2 | Proximal caries to a premolar tooth (class II, III, or IV cavity) |
| 3 | Conditioning of cavity margin (class III or IV cavity margin or class II cavity margin on the buccolingual side) |
| 4 | Beveling |



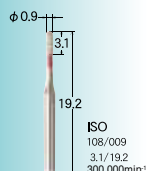
MI-61F



- | | |
|--------------|---|
| Features | Round-tipped cylindrical bur with 0.7 mm diameter |
| Intended use | Used to form an occlusal or proximal surface with the thin, round-tipped cylindrical bur. |
| 1 | Pit-and-fissure caries (class I cavity) |
| 2 | Proximal caries to a premolar tooth (class II, III, or IV cavity) |



MI-62F



- | | |
|--------------|---|
| Features | Cylindrical bur with 0.9 mm diameter |
| Intended use | Used for a relatively large cavity |
| 1 | Pit and fissure caries (class I cavity) |
| 2 | Proximal caries to a premolar tooth (class II, III, or IV cavity) |



Photos provided by:
Dr. Shigehisa Inokoshi,
Inokoshi Dental Clinic,
Tokyo JAPAN



Set of MI Dia-Burs (each 1 piece included for 4 forms)

CR Inlay Filling Dia-Bur Kit

Characterized by spherical cavity

Shortened procedure time

It is recommended that a CR inlay cavity be circular in shape.

Size: 38 (H) x 75 (W) x 60 (L) mm
Smallest available unit: 6 pcs/pack



Bur for occlusal surface preparation				Bur for proximal surface preparation			
	ISO 196/020 5.0/19.0 CR-11F	ISO 196/019 5.0/19.0 CR-11EF	ISO 196/015 4.0/19.0 CR-12F	ISO 196/014 4.0/19.0 CR-12EF		ISO 197/012 7.0/21.5 CR-21F	ISO 289/013 8.0/21.5 CR-22F

Composite Resin Polishing Kit

Size: 38 (H) x 75 (W) x 60 (L) mm
Smallest available unit: 8 pcs/pack



Intended use <ul style="list-style-type: none"> Contouring occlusal surface Detailed contouring of lingual surface 	Model ISO 254/015 3.2/19.0 FO-30F	Intended use <ul style="list-style-type: none"> Contouring edged corner Contouring adjacent to labial surface and corner 	Model ISO 248/009 6.0/18.5 FO-41EF	Intended use <ul style="list-style-type: none"> Contouring occlusal surface Contouring of minor filling for lingual surface 	Model ISO 001/016 1.5/19.0 BR-40EF	Intended use <ul style="list-style-type: none"> Contouring cervical region 	Model ISO 243/009 4.3/23.5 FO-40EF
Intended use <ul style="list-style-type: none"> Contouring labial surface (buccal surface) 	Model ISO 248/011 7.7/22.0 FO-42EF	Intended use <ul style="list-style-type: none"> Removal of large protrusions from labial surface Forming flat, smooth filler surface filler for labial and buccal surfaces 	Model ISO 198/016 9.0/21.7 TR-13F	Intended use <ul style="list-style-type: none"> Contouring labial surface (buccal surface) 	Model ISO 248/013 6.1/20.0 FO-20EF	Intended use <ul style="list-style-type: none"> Removal of large protrusions from lingual surface Rough contouring of large filler for occlusal surface 	Model ISO 237/032 4.9/18.9 EX-26

CEREC-related Products

CE-12F



CE-12EF



- Used to form a margin of a slope shoulder by forming an axial wall of the crown and jacket.
- Used to finish the rough preparation with CE-12F (Use of a 5x contra-head recommended)

CE-13F



CE-13EF



- Used to form a narrow path or side wall of inlay or inlay (CE-13F)
- Used to finish the inlay preparation (CE-13EF) (Use of a 5x contra-head recommended)

CE-15F



CE-15EF



- Used to form the lingual surface of a front tooth jacket (CE-15F)
- Used to form the lingual surface of a front tooth jacket (CE-15EF)

CE-16F

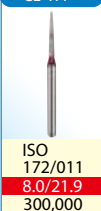


CE-16EF



- Used to form a veneer or give an opening angle to class inlay
- Used for finishing after rough preparation with CE-16F (Use of a 5x contra-head recommended)

CE-17F



- Used to condition the edge on the axial side during inlay preparation

M14CF



CE4CF



- Used to remove resin cement on the cervical area or proximal surface

Carbide Burs

Features

Integrated cutting flute and shank

Through integration of its cutting flute and shank, the MANI Carbide Bur minimizes the number of fractures during cutting.

Main use

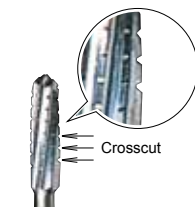
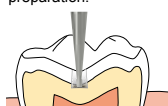
■ ROUND

Effective for enlarging a carious cavity.



■ INVERTED CONE

Suitable for undercut preparation.



* The large number of crosscuts improves cutting efficiency

Material

Working part: tungsten carbide, Shank: Stainless steel

■ Smallest available unit: 10 pcs per pack










Identification guide





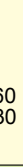
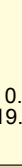

Length of working portion
2.00
Overall length
19.00










330 Ordering No.
232/008 ISO maximum diameter









Max. allowable speed








300,000 min ⁻¹
200,000 min ⁻¹
150,000 min ⁻¹









ROUND								
								
	0.50 19.30	0.60 19.30	0.08 19.30	1.00 19.30	1.20 19.30	1.40 19.30	1.60 19.30	1.80 19.30
Order NO.	1/4	1/2	1	2	3	4	5	6
ISO NO.	001/005	001/006	001/008	0001/010	001/012	001/014	001/016	001/018





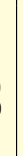

ROUND		INVERTED CONE				
						
2.10 19.30	2.30 19.30	0.60 19.30	0.80 19.30	1.00 19.30	1.20 19.30	1.40 19.30
7	8	Order NO. 33 1/2	34	35	36	37
001/021	001/023	ISO NO. 010/006	010/008	010/010	010/012	010/014






TAPER FISHER								
								
	5.00 21.00	4.00 19.30	4.00 19.30	4.00 19.30	9.00 21.00	6.00 21.00	4.00 19.30	4.00 19.30
Order NO.	169L	170	171	172	M15EZ	M14CF	699 ⁻¹	700 ⁻¹
ISO NO.	171/009	168/010	168/012	168/016	198/015	164/014	168/009	168/010

TAPER FISHER					PEAR			
								
4.00 19.30	4.00 19.30	7.00 21.00	4.00 19.30	4.70 19.30		3.00 19.30	2.00 19.30	2.00 19.30
701^{*1}	701X^{*2}	701L^{*1}	702^{*1}	703^{*1}	Order NO.	245	330	331
168/012	168/012	171/012	168/016	168/021	ISO NO.	237/009	232/008	232/010

PEAR			STRAIGHT FISHER					
								
2.00 19.30	2.00 19.30	2.00 19.30		4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30
332	330P^{*1}	1931^{*1}	Order NO.	57	58	557^{*1}	558^{*1}	559^{*1}
232/012	232/008	237/010	ISO NO.	107/010	107/012	107/010	107/012	107/014

STRAIGHT FISHER		ROUND END STRAIGHT FISHER					
							
4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30
560^{*1}	1957^{*1}	Order NO.	1157	1158	1159	1557^{*1}	1558^{*1}
107/016	137/010	ISO NO.	137/010	137/012	137/014	137/010	137/012

ROUND END STRAIGHT FISHER		OGIVAL FISHER			
					
4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 19.30	4.00 20.00
1958^{*1}	M21DC^{*2}	Order NO.	7901	7902	7903
137/012	137/010	ISO NO.	496/009	496/010	496/012

ROUND END TAPER FISHER					
					
	4.00 19.30	11.00 23.00	5.50 21.00	4.00 19.30	8.90 23.40
Order NO.	1970^{*1}	M15ZB	M16DB	M23DC	CE/4CF
ISO NO.	194/010	199/015	196/016	168/012	166/014

※1…Cross-cuts ※2…Dia-cuts

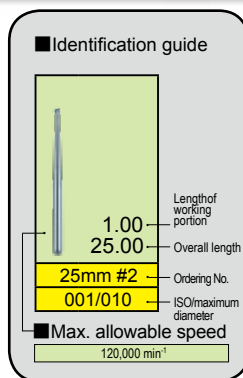
Surgical Burs

	
11.00 25.00	11.00 28.00
25mm MZB+	28mm MZB+
199/015	199/015

	
1.00 25.00	1.00 28.00
25mm #2	28mm #2
001/010	001/010

	
2.00 25.00	2.00 28.00
25mm #330	28mm #330
232/008	232/008

	
4.00 25.00	4.00 28.00
25mm #1557	28mm #1557
137/010	137/010



Take Note

Use a 5x speed
(micro-motor) at
120,000 min⁻¹ maximum.

Enables effective removal of
Metal Posts, Fiber Cores, and Canal Orifice Calcifications.

The long taper permits
unobstructed vision of working field.

Eliminates concerns of
turbine damage by halfway chucking.

Images provided by Dr. Norihiro
Sawada - Sawada Dental Office,
Yotsuya, Tokyo.



① A removal performed with regular-length carbide burs.



② Remaining pieces of metal in deep pockets are extremely difficult to remove with regular-length carbide burs.



③ Surgical burs allow a clear field of view for easy removal, and eliminate the need for potentially damaging halfway chucking.

Sutures

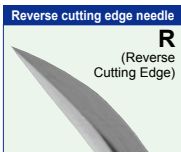
Classification of needles

Example: RH-18mm

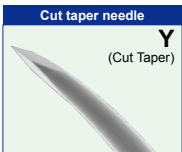
The needle types are classified according to the combinations of ① needle shape ② curvature type and ③ length (overall)

① ② ③

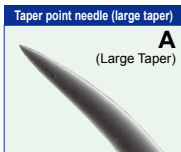
① Needle shape



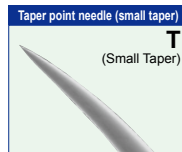
The cross-section of the needle is V-shaped. The cutting edge is located on the curved outside, and the inside corresponds to the base of the triangle. This type is primarily suitable for hard tissue that is difficult to puncture.



The tip of the taper point needle has a sharp triangular-shaped cutting edge, making it suitable for suturing hard tissue.



The tip is thick and highly resistant to bending, making this type suitable for suturing hard tissue.



The tip is thin and sharp, making this type primarily suitable for suturing soft tissue.

② Curvature type

Code	Curvature	Shape
S	Straight	
E	Slightly curved (3/8 circle)	
H	Heavily curved (1/2 circle)	
J	Hooked (4/5 curved)	
L	Hooked (1/2 curved)	

③ Length (overall)



























Comparison of sutures

Sutures	Tensile strength against knot	Tissue reactivity	Aging property	Resistance to infection	Usability
Silk braided	○	△	△	×	◎
Polyester braided	◎	◎	◎	△	○
Nylon braided	◎	◎	△	△	△
Nylon monofilament	◎	◎	△	△	△

























Sutures

■ Smallest available unit: 12 pcs per box ■ Material: Needle (Stainless steel) and thread (silk, nylon, and polyester)

Ordering No.	Suture needles				Sutures		
	Type	Needle shape	Curvature	Needle length Needle diameter	USP size	Smallest/Largest (diameter: mm)	Material/ Overall length
1	Reverse Cutting		Heavily curved 	RH-18 mm D-0.43 mm	4-0	0.15/0.199	Silk Black braided 45 cm
2	Reverse Cutting		Heavily curved 	RH-25 mm D-0.73 mm	3-0	0.20/0.249	Silk Black braided 45 cm
3	Reverse Cutting		Slightly curved 	RH-18 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
4	Cut Taper		Heavily curved 	YH-18 mm D-0.38 mm	5-0	0.10/0.149	Polyester Green braided 45 cm
5	Cut Taper		Heavily curved 	YH-18 mm D-0.53 mm	3-0	0.20/0.249	Silk Black braided 45 cm
6	Taper Point (small taper)		Straight 	TS-20 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
7	Reverse Cutting		Slightly curved 	RE-13 mm D-0.53 mm	4-0	0.15/0.199	Nylon Black braided 45 cm
8	Reverse Cutting		Slightly curved 	RH-18 mm D-0.58 mm	4-0	0.15/0.199	Polyester Green braided 45 cm
9	Taper Point (small taper)		Heavily curved 	TH-18 mm D-0.43 mm	5-0	0.10/0.149	Polyester Green braided 45 cm
10	Taper Point (small taper)		Heavily curved 	TH-18 mm D-0.53 mm	3-0	0.20/0.249	Silk Black braided 45 cm
11	Taper Point (small taper)		Heavily curved 	TH-16 mm D-0.73 mm	2-0	0.30/0.339	Silk Black braided 45 cm
12	Taper Point (large taper)		Hooked needle 	AJ-16 mm D-0.53 mm	4-0	0.15/0.199	Nylon Black braided 45 cm









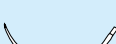

Sutures

■ Smallest available unit: 12 pcs per box ■ Material: Needle (Stainless steel) and thread (silk, nylon, and polyester)

Ordering No.	Suture needles				Sutures		
	Type	Needle shape	Curvature	Needle length Needle diameter	USP size	Smallest/Largest (diameter: mm)	Material/ Overall length
13	Taper Point (large taper)		Hooked needle 	AJ-16 mm D-0.63 mm	3-0	0.20/0.249	Nylon Black braided 45 cm
14	Taper Point (large taper)		Heavily curved 	AH-13 mm D-0.53 mm	4-0	0.15/0.199	Silk Black braided 45 cm
15	Taper Point (large taper)		Heavily curved 	AH-16 mm D-0.53 mm	4-0	0.15/0.199	Nylon Black braided 45 cm
16	Taper Point (large taper)		Heavily curved 	AH-16 mm D-0.63 mm	3-0	0.20/0.249	Nylon Black braided 45 cm
17	Taper Point (large taper)		Heavily curved 	AH-20 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
18	Reverse Cutting		Slightly curved 	RE-11 mm D-0.43 mm	4-0	0.15/0.199	Nylon Black monofilament 45 cm
19	Reverse Cutting		Slightly curved 	RE-13 mm D-0.38 mm	5-0	0.10/0.149	Nylon Black monofilament 45 cm
20	Reverse Cutting		Slightly curved 	RE-13 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
21	Reverse Cutting		Heavily curved 	RH-16 mm D-0.58 mm	4-0	0.15/0.199	Nylon Black monofilament 45 cm
22	Reverse Cutting		Heavily curved 	RH-16 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
23	Reverse Cutting		Slightly curved 	RH-18 mm D-0.58 mm	4-0	0.15/0.199	Nylon Black monofilament 45 cm
24	Reverse Cutting		Slightly curved 	RH-18 mm D-0.58 mm	3-0	0.20/0.249	Silk Black braided 45 cm

Sutures

■ Smallest available unit: 12 pcs per box ■ Material: Needle (Stainless steel) and thread (silk, nylon, and polyester)

Ordering No.	Suture needles				Sutures		
	Type	Needle shape	Curvature	Needle length Needle diameter	USP size	Smallest/Largest (diameter: mm)	Material/ Overall length
25	Taper Point (small taper)		Slightly curved 	TE-13 mm D-0.43 mm	4-0	0.15/0.199	Silk Black braided 45 cm
26	Taper Point (small taper)		Slightly curved 	TE-18 mm D-0.58 mm	4-0	0.15/0.199	Silk Black braided 45 cm
27	Cut Taper		Slightly curved 	YE-13 mm D-0.43 mm	4-0	0.15/0.199	Silk Black braided 45 cm
28	Cut Taper		Heavily curved 	YH-16 mm D-0.48 mm	4-0	0.15/0.199	Silk Black braided 45 cm
29	Cut Taper		Slightly curved 	YE-18 mm D-0.53 mm	4-0	0.15/0.199	Silk Black braided 45 cm



Caution:

If the joint between the suture and needle or tip is held by needle forceps, the needle or suture may be broken. Instead, place the forceps on about 1/3–1/2 the portion from the joint to the tip.

Holding the needle

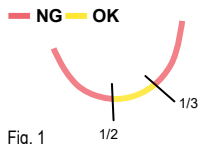


Fig. 1

Hold about 1/3–1/2-way up from the joint between the suture and needle.

Knot types

[Square knot]

Suture is closed with the first and second knots in parallel



[Double knot]

Repeat the same knot twice
This is a quicker knot

























[Surgical knot]

Suture is closed by crossing the thread twice to form the first knot.



Sutures for Micro Use

■ Smallest available unit: 12 pcs per box

Ordering No.	Suture needles				Sutures		
	Type	Needle shape	Curvature	Needle length Needle diameter	USP size	Smallest/Largest (diameter: mm)	Material/ Overall length
30	Lancet		Slightly curved 	PE-11 mm D-0.38 mm	5-0	0.10/0.149	Silk Black braided 45 cm
31	Reverse cutting		Slightly curved 	RE-11 mm D-0.38 mm	5-0	0.10/0.149	Nylon Black monofilament 45 cm
32	Lancet		Heavily curved 	PH-8 mm D-0.33 mm	6-0	0.070/0.099	Nylon Black monofilament 45 cm
33	Lancet		Heavily curved 	PH-11 mm D-0.33 mm	6-0	0.070/0.099	Nylon Black monofilament 45 cm
34	Reverse cutting		Slightly curved 	RE-11 mm D-0.33 mm	6-0	0.070/0.099	Silk Black braided 45 cm
35	Lancet		Slightly curved 	PE-11 mm D-0.33 mm	6-0	0.070/0.099	Nylon Black monofilament 45 cm
36	Reverse cutting		Slightly curved 	RE-7 mm D-0.24 mm	7-0	0.050/0.069	Nylon Black monofilament 45 cm
37	Lancet		Slightly curved 	PE-7 mm D-0.28 mm	7-0	0.050/0.069	Silk Black braided 45 cm
38	Lancet		Slightly curved 	PE-8 mm D-0.33 mm	7-0	0.050/0.069	Nylon Black monofilament 45 cm
39	Reverse cutting		Slightly curved 	RE-9 mm D-0.24 mm	7-0	0.050/0.069	Nylon Black monofilament 45 cm
40	Lancet		Slightly curved 	PE-11 mm D-0.33 mm	7-0	0.050/0.069	Nylon Black monofilament 45 cm

Micro Files

Features of each file type

Type K

- Material: Stainless steel
- Taper: .02

Substitute for normal K-Files

Magnified view of the cutting flute



Type H

- Material: Stainless steel
- Taper: .02.04

For enlarging a root canal or removing cement, gutta-percha, and cut pieces

Magnified view of the cutting flute



Type F

- Material: Stainless steel
- Taper: .05

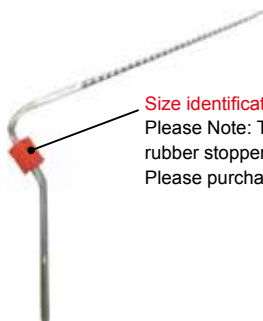
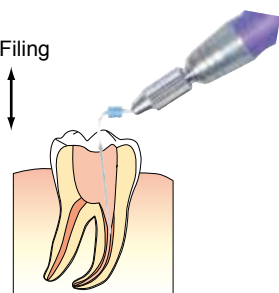
For checking flare preparation or root canal enlargement using taper of 0.05

Magnified view of the cutting flute



Usage

Filing

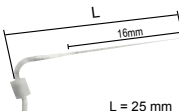
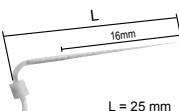
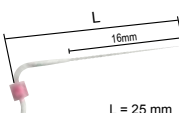
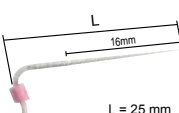
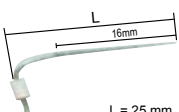
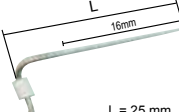
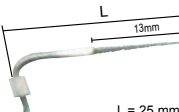
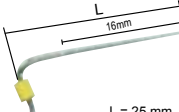
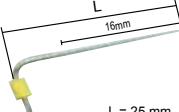
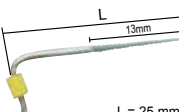
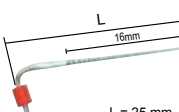
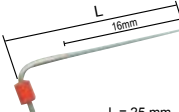
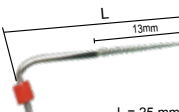
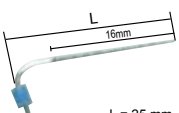
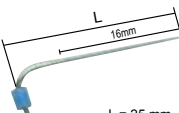
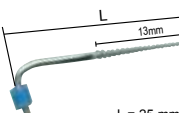
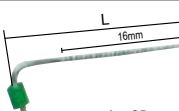
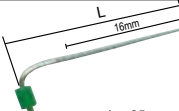
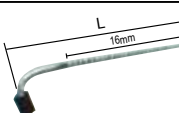
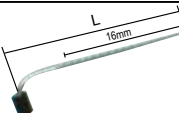


Size identification by color tubes

Please Note: The color tube cannot be used as a rubber stopper.

Please purchase a rubber stopper separately.

Micro Files Type K, H, and F

Type	Type K	Type H	Type F
Size	Normal K-Files .02 taper	Normal H-Files .02/.04 taper	Normal Flare Files K-Files with .05 taper
#8	 L = 25 mm	★  L = 25 mm	
#10	 L = 25 mm	★  L = 25 mm	
#15	 L = 25 mm	★  L = 25 mm	 L = 25 mm
#20	 L = 25 mm	★  L = 25 mm	 L = 25 mm
#25	 L = 25 mm	★  L = 25 mm	 L = 25 mm
#30	 L = 25 mm	★  L = 25 mm	 L = 25 mm
#35	 L = 25 mm	★  L = 25 mm	
#40	 L = 25 mm	★  L = 25 mm	

Smallest available unit: 6 pcs per pack ★ 4/100 Taper ★ 2/100 Taper

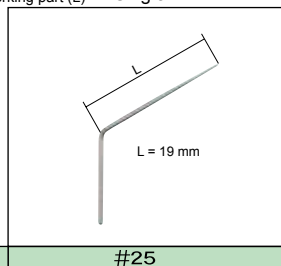
Ultrasonic Endo Files

Attach to an ultrasonic scaler

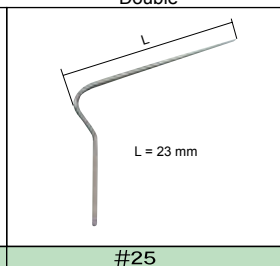


■ Diameter = $\phi 0.8$

■ Length of working part (L) Single



Double



■ Smallest available unit: 6 pcs per pack ■ Material: Stainless steel ■ Taper: .05

Ultrasonic Dia-Files

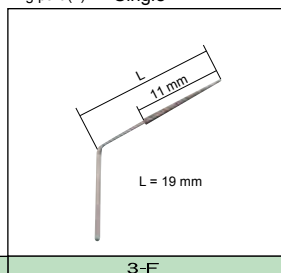
Usage

Attach to an ultrasonic device

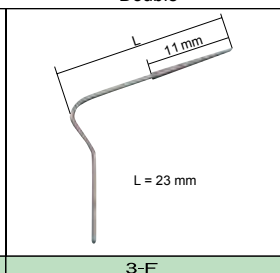


■ Diameter = $\phi 0.8$
■ Diamond grain: fine (F)
*3 = #25

■ Length of working part (L) Single



Double



■ Smallest available unit: 6 pcs per pack ■ Materials: Diamond and Stainless steel ■ Taper: .05

NOTE:

Ultrasonic Endo Files and Ultrasonic Dia-Files

- Ultrasonic devices have different power settings depending on the manufacturer, so use the lowest setting to start with
- For enlarging a root canal or removing previous root filling material that is difficult to locate
- The taper is indicated on each product

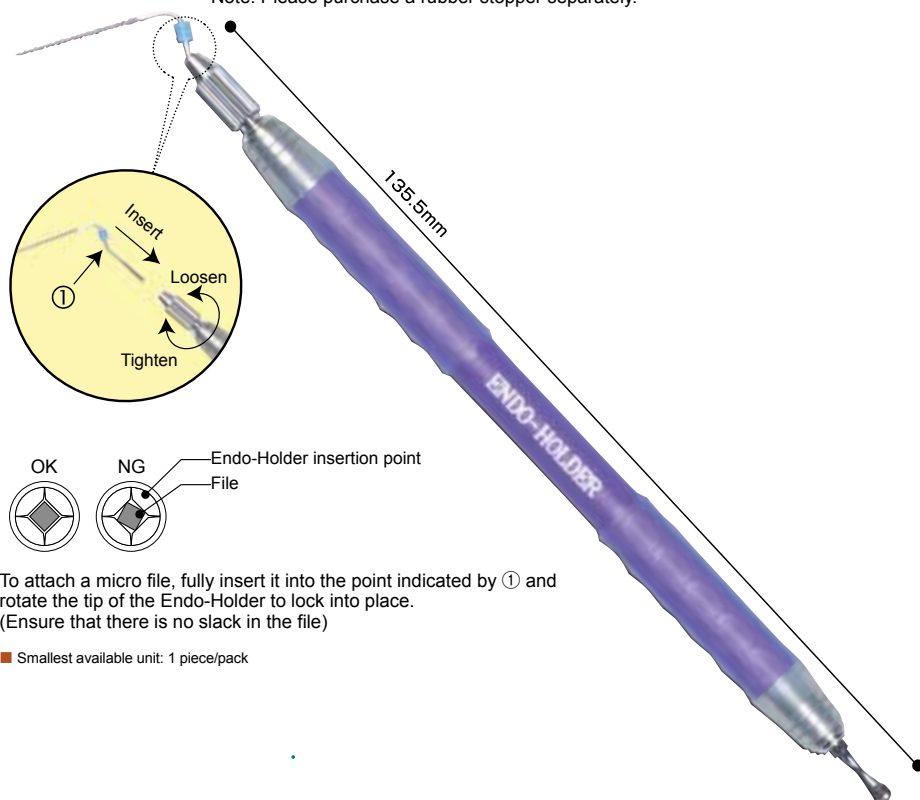
Caution: Using with high power may result in a fracture.

Use with a device that can hold a shank diameter of $\phi 0.8$ mm.

Endo-Holders

**For finding and maintaining a visual field under a stereoscopic microscope or a magnifying glass.
For molar teeth and other regions where instruments are difficult to manipulate.**

The tube color identifies the file standard.
This tube cannot be used as a rubber stopper.
Note: Please purchase a rubber stopper separately.



Accessories

Endo Stands



- Endo Stands has silicone caps with six different colors for easy management
- Endo Stands can be autoclaved with their caps in place
- Silicone caps allow you to manage the files without damaging their cutting flutes

Size: 39 (H) x 50 (W) x 62 (L) mm / Smallest available unit: 2 pcs/box
Holds 30 files/box (includes color caps, available in white, yellow, red, blue, green, and black; 10 of each color)

* Files in the photo are not included. May be autoclaved (avoid drying).

File Stands



- File Stands has silicone caps with six different colors for easy management
- File Stands can be autoclaved with their caps in place
- A cover is provided to protect the products from dust

Size: 70 (H) x 50 (W) x 53.5 (L) (33.5 without cover) mm / Smallest available unit: 1 piece/box

Silicone caps available in white, yellow, red, blue, green, and black (5 pcs/pack)

* The cover can be sterilized; avoid drying.

File Cleaners



- Allows you to quickly remove contaminants from files
- Protects your hands from contamination

Size: 30 (H) x 37 (W) x 46 (L) mm / Smallest available unit: 2 pcs/pack
With 2 sponges

* Files in the photo are not included. May be autoclaved (avoid drying).

The sponge is disposable.

Accessories

Steri-Endo Guards



- Contaminants can be quickly removed. Only the sponge is disposable
- The files can be autoclaved in place
- A rubber stopper can be fitted to the working length of a file

Size: 52 (H) x 35 (W) x 136 (L) mm / Smallest available unit: 1 piece/pack
Available in white, yellow, and blue. Holds up to 16 files (replaceable sponge included)

* Files in the photo are not included. May be autoclaved (avoid drying).
The sponge is disposable.

Steri-Bur Guards



- The burs can be autoclaved in place
- Use with CA(RA) and FG burs
- Adjustable size for different bur lengths (two sizes)

Size: 32 (H) x 12 (W) x 72 (L) mm / Smallest available unit: 1 piece/pack
Available in white, yellow, and blue. Holds up to 12 files.

*Burs in the photo are not included. May be autoclaved (avoid drying).

Steri-Bur Guards 22



- The burs can be autoclaved in place
- Use with CA (RA) and FG burs
- Adjustable size for different bur lengths (two sizes)

Size: 44 (H) x 20 (W) x 122 (L) mm / Smallest available unit: 1 piece/pack
Available in yellow, blue, and green. Holds up to 22 files.

*Burs in the photo are not included. May be autoclaved (avoid drying).

Accessories

Magnetic Bur-Blocks



■ The burs can be autoclaved in place

Size: 35 (H) x 41 (W) x 79 (L) mm / Smallest available unit: 1 piece/pack
Available in white and blue. Holds up to 14 pieces.

*Burs in the photo are not included

*Can be autoclaved (avoid drying). **Avoid sterilizing the cover.**

Dia-Burs Stands



Size: 38 (H) x 75 (W) x 60 (L) mm / Smallest available unit: 1 piece/box
Holds up to 24 pieces.

*Files in the photo are not included. **Avoid sterilization.**

Management Kits



■ This drawer- type case is useful for managing files and burs in different cases.

Size: 63 (H) x 125 (W) x 175 (L) mm / Smallest available unit: 1 piece/box

Accessories

Silicone cap for Endo Stand



Available in white, yellow, red, blue, green, and black. Smallest available unit: 60 pcs/pack (10 caps of each color)

* The caps may be autoclaved on the Endo Stand (avoid drying)

Sponge for File Cleaner



Size: 5 (H) x 60 (W) x 70 (L) mm

Smallest available unit: 100 pcs/pack

The sponge is disposable.

Rubber stoppers



	18 mm	21 mm	25 mm	28 mm	31 mm
Reamers					
K-files					
H-files					

Thickness: 1.5mm

Smallest available unit: 100 pcs of each type per pack

*Rubber stopper may be autoclaved while positioned on files.
(avoid drying)

Cleaning, Sterilization, and Storage Methods

MANI® products, including reamers, files, Dia-Burs®, and carbide burs, are **surgical instruments**.

Clean, sterilize, and store these instruments after each use.

* Sutures with a sterilized needle, surgical needles, are **single-use** products.

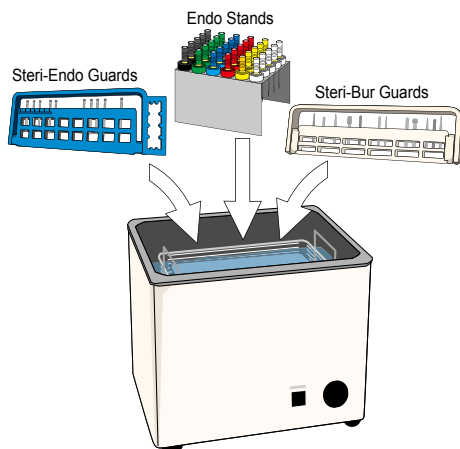
MANI® reamers, files, and Dia-Burs® are made of Stainless steel, which allows them to be autoclaved repeatedly.

STEP 1

Clean the used instruments with a brush and medical detergent to completely remove foreign matter, such as body fluid and tissue. Perform immersion cleaning, as necessary, using a sterilization cleaning solution prior to ultrasonic cleaning.

Note: Immersion in a corrosive solution, such as **EDTA solution** or **sodium chlorite**, for extended periods may cause corrosion.

During ultrasonic cleaning, place the instruments onto Endo-Stand, Steri Endo-Guard, or Steri Guard **in order to prevent dullness from contact with other cutting flutes**.

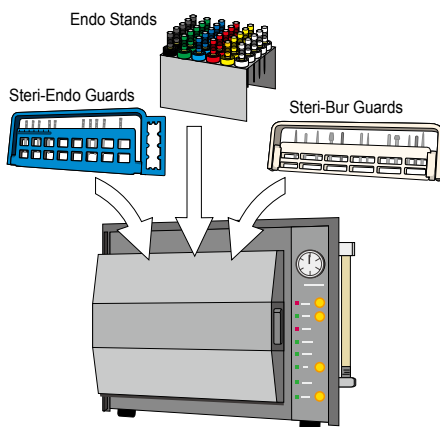


STEP 2

Sterilize the instruments while they are on the Endo-Stand, Steri Endo-Guard, etc.

* Avoid sterilizing the covers for Dia-Burs Stand and Magnetic Bur-Block.

Do not use any autoclave that is **heated up to 200°C (392°F) or higher** (including the drying process), because the grips for reamers and files and Steri-Endo Guard may melt.



STEP 3

Store the instruments at room temperature and avoid high humidity, direct sunlight, and contact with water.

Avoid storing products that are made partially of silicone or special plastics, such as reamers, files, and Steri- Endo Guard, **under a sterilization lamp, because the instruments may degrade**.



Avoid contact with water



Avoid direct sunlight

Products List

Smallest available unit	Product name	Standard
6 pcs/pack	Reamers	#10-40 [21 · 25 · 28 · 31 mm]
	K-Files	#06, #08, #45-80 [21 · 25 · 28 · 31 mm]
	H-Files (*H-Files: #08-#140)	#90-140 [21 · 25 · 28 · 31 mm]
	Medium-reamers, K-Files, H-Files	#12-37 [21 · 25 mm]
	18 mm Files (R, K, H)	#15-40
	NiTi H-Files	#15-40 [21 · 25 mm]
	SEC O-Files	#10-40 [21 · 25 mm]
	K Type (#08-#80)	#08, #45-80 [21 · 25 mm]
	H Type (#10-#80)	
	Flare Files	#15-60 [21 · 25 mm]
	Medium Flare Files	#12-37 [21 · 25 mm]
	NiTi Flare Files	#15-40 [21 · 25 mm]
	Flexile Files	#15-40 [21 · 25 mm]
	Medium Flexile Files	#12-37 [21 · 25 mm]
	RT Files	#15-40 [21 · 25 · 28 · 31 mm] #45-80 [21 · 25 · 28 · 31 mm]
	D Finders	#08 · #10 · #12 · #15 [21 · 25 mm]
6 dozen (72 pcs in total)	Barbed Broaches	#000, #00, #0, #1, #2, #3
	Square Broaches	#000, #00, #0, #1, #2, #3
6 pcs/pack	Engine reamers (* 18, 21, 25, and 28 mm)	#10-40
	Super Files	#10-60 [18 · 21 · 25 mm]
	U-Files	#10-50 [33 mm]
4 pcs/pack	GPR	1S, 2S (Stainless Steel)
		3N, 4N (NiTi)
		1S-4N (Assortment)
6 pcs/pack	Peeso Reamers	#1 to 6 (overall length: 28, 32, and 38 mm)
	Gates Drills	
4 pcs/pack	Paste Carriers	#25-40 [21 · 25 · 29 mm]
6 pcs/pack	Spreaders	#15-40 [25 mm]
	Flare Finger Spreaders	#15-40 [21 · 25 mm]
	Pluggers	#15-40 [25 mm]
6 pcs/pack	MI Stainless Burs	#1/2-8 (overall length: 22 and 28 mm), #2, #6 (overall length: 34 mm)
	Hard Stainless Burs	#1/2-8 (overall length: 22,28mm)
1 sheet (5 pcs/sheet)	Dia-Burs® (FG)	433 types
	MI Dia-Burs®	4 types
4 pcs/pack	Set of MI Dia-Burs®	4 types (1 piece of each/pack) with bur stand
6 pcs/pack	CR Inlay Filling Dia-Burs Set	6 types (1 piece of each/pack) with bur stand
8 pcs/pack	Composite Resin and Dia-Bur Kits	8 types (1 piece of each/pack) with bur stand
5 pcs/pack	Dia-Burs® FG(CEREC-related products)	9 types
5 pcs/pack	Carbide Burs FG(CEREC-related products)	2 types
10 pcs/pack	Carbide Burs(FG)	61 types
4 pcs/pack	Surgical Burs	#2, #330, #1557, #MZF+(25,28mm)

Products List

Smallest available unit	Product name	Standard
12 pcs/pack	Sutures	#1 - 29
12 pcs/pack	Sutures for micro use	#30-40
6 pcs/pack	Micro Files Type K	#08-40 .02taper
	Micro Files Type H	#08-40 .02taper / .04taper
	Micro Files Type F	#15-30 .05taper
	Ultrasonic Endo Files (Single and Double)	#25
	Ultrasonic Dia-Files (Single and Double)	3-F
1 piece/pack	Endo-Holders	Overall length:135.5mm
2 pcs/pack	Endo Stands (with silicone cap)	39 (H) x 50 (W) x 62 (L) mm; holds up to 30 files
1 piece/pack	File Stands	Holds up to 30 files
2 pcs/pack	File Cleaners (with sponge)	30 (H) x 37 (W) x 46 (L) mm
24 pcs/pack	Sponge (for Steri-Endo Guard)	18 (H) x 22 (W) x 46 (L) mm
1 Stand	Steri-Endo Guards(with sponge)	Holds up to 16 files. Available in white, yellow, blue, pink, green.
	Steri-Bur Guards	Holds up to 12 burs. Available in white, yellow, blue, pink.
	Steri-Bur Guards 22	Holds up to 22 burs. Available in white, yellow, blue, pink.
	Magnetic Bur-Block	Holds up to 14 burs. Available in white and blue.
	Dia-Bur Stands	Holds up to 24 burs [38 (H) x 75 (W) x 60 (L) mm]
1 box	Management Kits	63(H) x 125 (W) x 175 (L) mm
60 pcs/pack	Silicone cap for Endo Stand	White,yellow,red,blue,green,black
100 pcs/pack	Sponge (for File Cleaners)	5 (H) x 60 (W) x 70 (L) mm
100 pcs/pack	Rubber stoppers	Available in blue,white,yellow,red,or black(▷ □ ○)