

MANI

General Dental Catalogue

MANI



MANI website

<https://www.mani.co.jp/en/>



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MANI Products are subject to change
in their design and specifications without notice.

D06030



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<p>1956 ▶▶▶</p> <p>Mr. Masao Matsutani began manufacturing and sales of surgical eyed needles</p>  <p>Around 1956</p>	<p>1959 ▶▶▶</p> <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>	<p>1961 ▶▶▶</p> <p>First ever production of 18-8 SS surgical needles</p>  <p>Around 1961</p>	<p>1962 ▶▶▶</p> <p>Awarded export subsidy by the Ministry of International Trade and Industry</p>	<p>1966 ▶▶▶</p> <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>
<p>1979 ▶▶▶</p> <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>	<p>1980 ▶▶▶</p> <p>Established export division and began exporting dental Reamers and Files</p>  <p>Around 1980</p>	<p>1982 ▶▶▶</p> <p>Started construction of Point of Production System (POPS) by LAN (Local Area Network)</p>	<p>1983 ▶▶▶</p> <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>	<p>1984 ▶▶▶</p> <p>Awarded Patent Agency prize for the invention of dental instruments Reached 48 million yen capital</p>
<p>1991 ▶▶▶</p> <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>	<p>1992 ▶▶▶</p> <p>Awarded Patent Agency prize for excellent invention for Manipler at Invention exhibition of the Kanto district Reached 96 million yen in capital</p>	<p>1993 ▶▶▶</p> <p>Established Kiyohara Factory in Kiyohara Industrial Park Began selling Manipler and Sterilized Reamer Files, Peeso Reamers and Ophthalmic Sutures</p>	<p>1995 ▶▶▶</p> <p>Built a new LAN Began building new Kiyohara Factory Started selling Gates Drills</p>  <p>Kiyohara Factory building complete</p>	<p>1996 ▶▶▶</p> <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>
<p>2002 ▶▶▶</p> <p>Built an annex to Kiyohara Factory</p>  <p>Expanded Kiyohara Factory</p>	<p>2003 ▶▶▶</p> <p>Built an annex to MANI-MEINFA CO., LTD. Established MANI HANOI CO., LTD. near Hanoi, VIETNAM</p>  <p>Expanded Vietnam Factory</p>	<p>2004 ▶▶▶</p> <p>Adopted committee governance structure Achieved ISO 14001 & OHSAS18001 certification Completed and started operating MANI HANOI CO., LTD., Hanoi (Vietnam) Released Manipler AZ</p>	<p>2006 ▶▶▶</p> <p>Headquarters moved from the Takanezawa Factory to the Kiyohara Factory</p>	<p>2007 ▶▶▶</p> <p>Completed Kiyohara Factory expansion MANI HANOI CO., LTD. Mr. Masaaki Matsutani appointed Representative Executive Officer and President</p>  <p>Kiyohara Factory</p>  <p>MANI HANOI CO., LTD.</p>
<p>2015 ▶▶▶</p> <p>Acquired all shares and ownership of Schütz Dental Group (Schütz Dental GmbH and GDF Gesellschaft für dentale Forschung und Innovationen GmbH) (Germany)</p>	<p>2017 ▶▶▶</p> <p>Established MANI MEDICAL INDIA PRIVATE LIMITED in Delhi (India). Built a new factory (MHC-PY2) in Vietnam</p>	<p>2018 ▶▶▶</p> <p>Transferred all shares and ownership of Schütz Dental GmbH (Germany)</p>	<p>2022 ▶▶▶</p> <p>Transferred to prime market of the Tokyo Stock Exchange</p>	<p>2023 ▶▶▶</p> <p>Establishment of New Sales Subsidiary in Malaysia: MANI MEDICAL MALYASIA SDN. BHD</p>

1967 ▶▶▶	1971 ▶▶▶	1975 ▶▶▶	1976 ▶▶▶	1978 ▶▶▶
Started manufacturing and sales of surgical eyeless needles of 18-8 SS drilled-end type Reached 6 million yen in capital	Started research on production and performance of dental root canal instruments Started research on Laser Drilling technique	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	Started manufacturing and sales of dental Barbed & Square Broaches made of stainless steel	Development and sales of patented Needle Attaching Machine in Japan, U.S., England, West Germany and Brazil Reached 30 million yen of capital
1985 ▶▶▶	1986 ▶▶▶	1988 ▶▶▶	1989 ▶▶▶	▶▶▶▶▶▶▶▶
Opened visual presentation room at Takanezawa Factory Completed production technology of dental Dia-Burs(patent pending)	Mr. Kanji Matsutani appointed Representative Director and President	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	Awarded Prize from the Small Business Research Institute	 <p>Newly built Takanezawa Factory</p>
1997 ▶▶▶	1998 ▶▶▶	1999 ▶▶▶	2000 ▶▶▶	2001 ▶▶▶
Began selling dental Carbide Burs. Built an annex to Kiyohara Factory	Began sales of Ophthalmic Knife and Menisceps (Ligo-sutura Instrument) Completed Myanmar Factory	Established MANI YANGON LTD. in Yangon, Myanmar 	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	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
2008 ▶▶▶	2009 ▶▶▶	2010 ▶▶▶	2011 ▶▶▶	2012 ▶▶▶
Received Porter Prize, 2008 (section of small and medium-sized companies)	MANI HANOI CO., LTD. merged and consolidated its subsidiary, MANI-MEINFA CO., LTD. Established MANI VIENTIANE CO., LTD.in Vientiane, Laos  <p>Completed Laos Factory</p>	Established MANI MEDICAL HANOI CO., LTD. in Hanoi, Vietnam Established MANI RESOURCES CO., LTD. in Utsunomiya, Tochigi Prefecture	Listed in Second Section of Tokyo Stock Exchange	Listed in First Section of Tokyo Stock Exchange Established MANI MEDICAL BEIJING CO., LTD. in Beijing, China

Corporate Philosophy

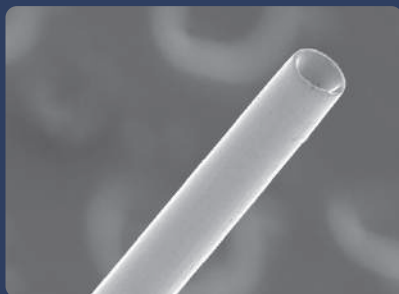
Contributing to the world welfare through development, production and distribution of its products beneficial to patients and doctors.

MANI Original Technologies

MANI's history has been dedicated to successful R&D activities. Our original micro-machining technology and the related unique control system contribute to improved reliability and have been widely adopted in the medical field across the globe.

Number of patents obtained (As of Aug. 2022)

464 (including 382 overseas patents)

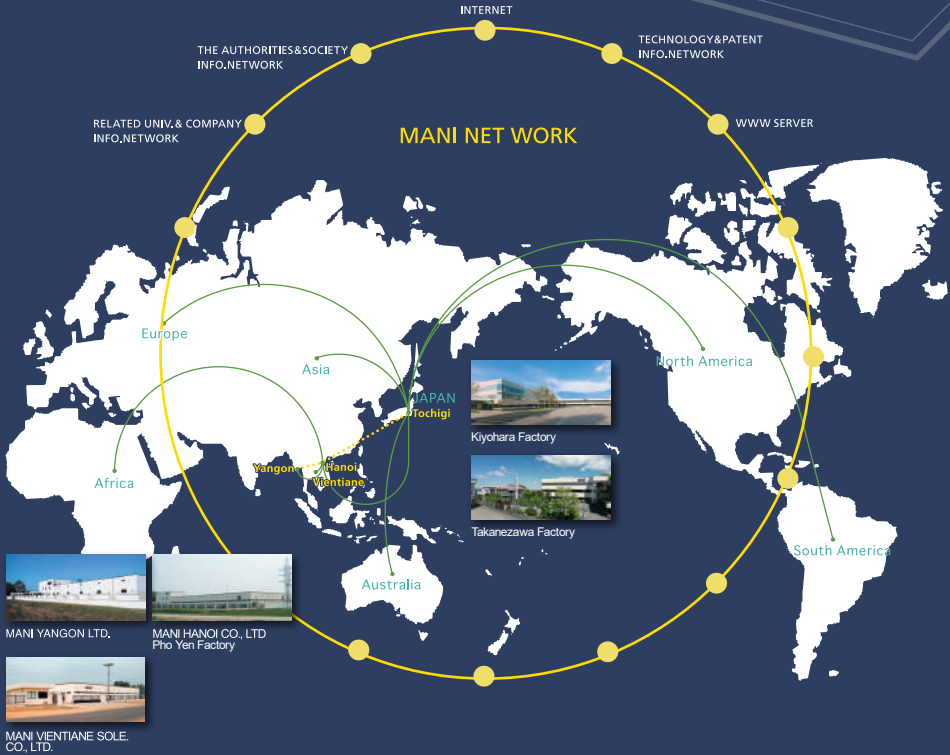


Micro hole processing technology
Magnified photo of Hole part of suture
Outer diameter of needle: 70 μm , Hole diameter: 40 μm

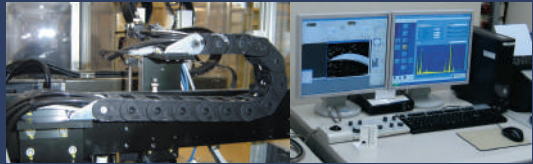


Micro sharpening technology
Magnified photo of ophthalmic knife MSL30
Micro sharpening technology

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:



ISO14001

OHSAS18001

ISO13485

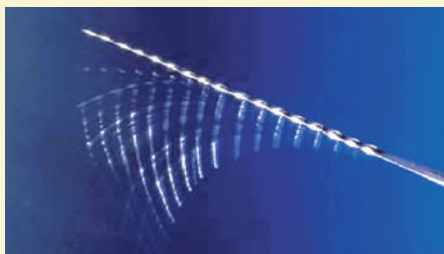
- ISO13485 (Medical Devices: Quality Management System)
- CE marking (MDD93/42/EEC EC Medical Devices Directive)
- MDSAP (The Medical Device Single Audit Program)
- ISO14001 (Environmental Management System)
- OHSAS18001 (Occupational Health and Safety Management Systems)

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)

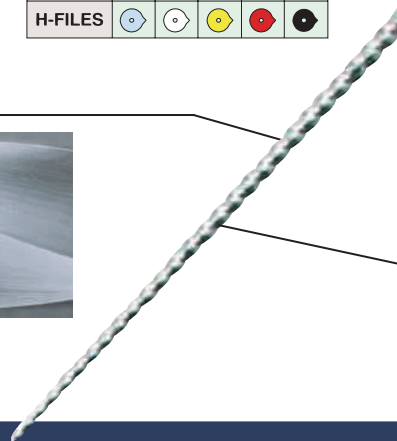
Rubber stopper

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

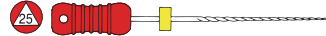
A thread allows a chain or string to pass through it to prevent the reamer from dropping when during use

Icons and numbers allow easy identification

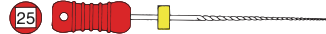
The top of the grip is marked with an easy-to-identify icon with a number.



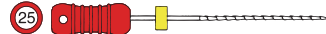
Reamers



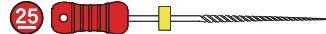
K-Files



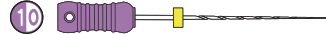
H-Files



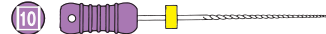
RT Files



D Finders



Glide 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

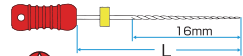
Reamers

■ 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)

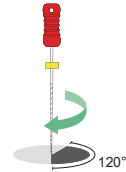


L = 18 mm (#15-40),
21 mm, 25 mm, 28 mm, 31 mm

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

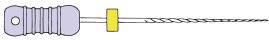
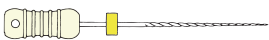

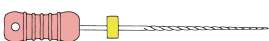
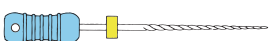
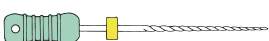
Root canal enlargement or
debridement



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.

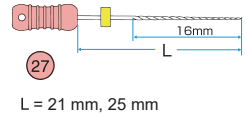
Medium Reamers

■ 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	

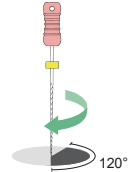
Rubber Stoppers: 21 mm  25 mm 

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

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.

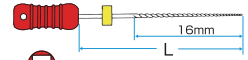
K-Files

■ 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

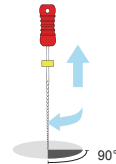
Length of operative part(L)



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.

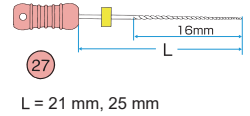
Medium K-Files

■ 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	

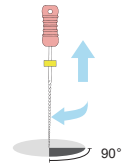
Rubber Stoppers: 21 mm 25 mm

Length of operative part(L)



Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#12-37

Role of medium size

K-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.

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.

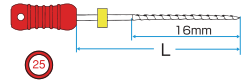
H-Files

■ 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 34 mm

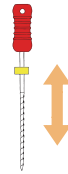
Length of operative part(L)



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

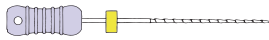
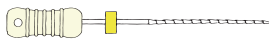
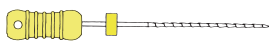
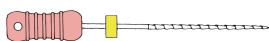
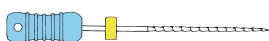
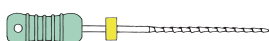
Root canal enlargement.



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

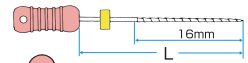
Size	Tip diameter (mm)	
12	0.12	
17	0.17	
22	0.22	
27	0.27	
32	0.32	
37	0.37	

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 an 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


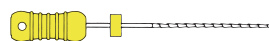
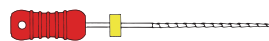
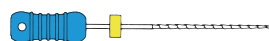
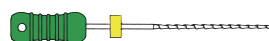

#12-37



NiTi H-Files

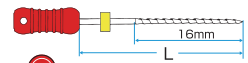
Not Available in EU

■ 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.

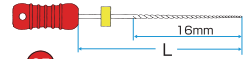
SEC O-Files K

■ 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

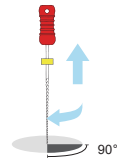
■ Length of operative part(L)



L = 21 mm, 25 mm

■ Usage

turn and pull



■ Cross-section shape

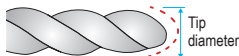
#08-40
#45-80



■ 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.

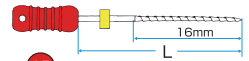
SEC O-Files H

■ 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 ●

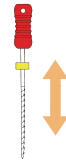
Length of operative part(L)



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.

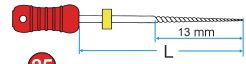
Flare Files

■ 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

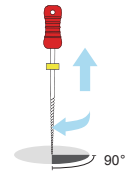
■ Length of operative part(L)



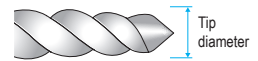
L = 21 mm, 25 mm

■ Usage

turn and pull



■ Magnified view of the cutting flute



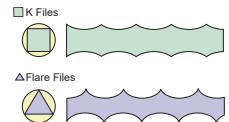
■ Cross-section shape

#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

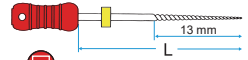
Not Available in EU

■ 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

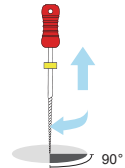
Length of operative part(L)



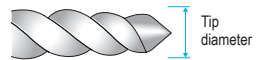
L = 21 mm, 25 mm

Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

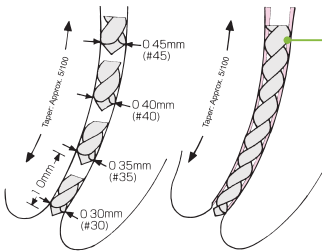
#15-40

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.

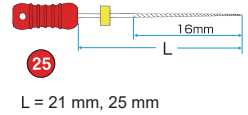
Flexile Files

■ 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	

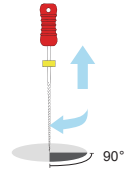
Rubber Stoppers: 21 mm 25 mm

Length of operative part(L)

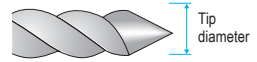


Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#15-40

Intended use

Root canal enlargement.

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

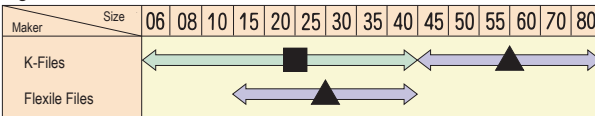
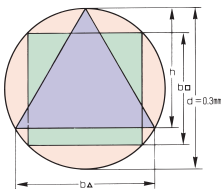


Fig.2: The secondary moment(I) of the cross section of #30 K-Files is –

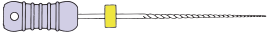
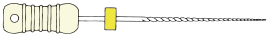
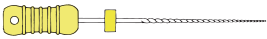
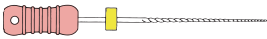
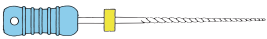
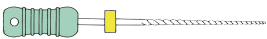




- When the cross-section is \square :
 $I_{\square} = 1.68 \times 10^{-4} \text{Mm}^4$
- When the cross-section is \triangle :
 $I_{\triangle} = 0.82 \times 10^{-4} \text{Mm}^4$

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

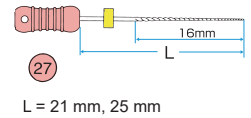
Medium Flexile Files

■ 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	

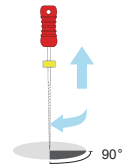
Rubber Stoppers: 21 mm  25 mm 

Length of operative part(L)

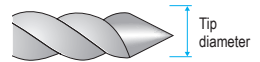


Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#12-37 ▲

Intended use

Root canal enlargement.

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.

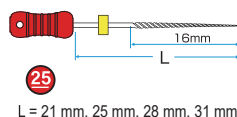
RT Files

■ 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	

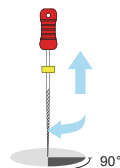
Rubber Stoppers: 21 mm 25 mm 28 mm 31 mm

Length of operative part(L)



Usage

turn and pull



Magnified view of the cutting flute



Cross-section shape

#15-25

1:2



#30-80

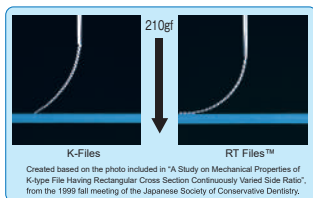
1:3



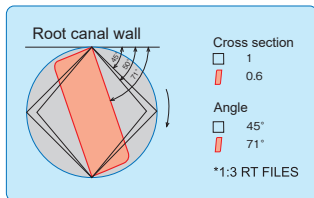
Intended use

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.

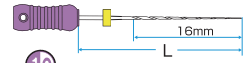
D Finders

■ 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 ▶

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 

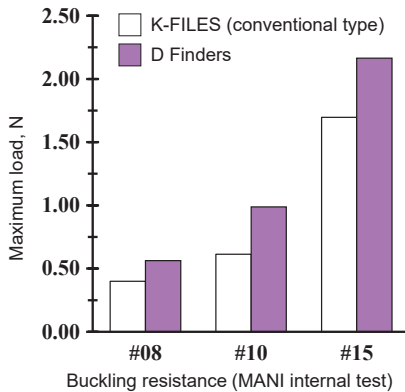
Intended use

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



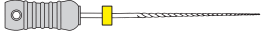
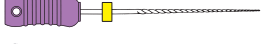

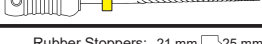
Designed for calcified canal access

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].



Glide Finders

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

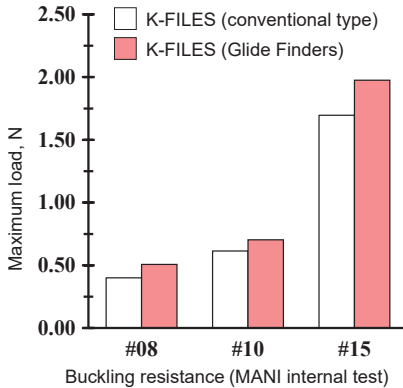
Size	Tip diameter (mm)	
08	0.08	
10	0.10	
12	0.12	
15	0.15	

Rubber Stoppers: 21 mm 25 mm

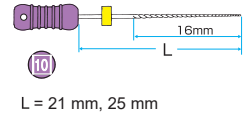


For negotiating & cutting

The Glide Finders feature a varying cross section with multiple-taper blade, providing optimal tip resilience and shank flexibility near the handle.

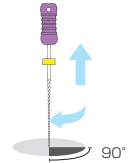


Length of operative part(L)



Usage

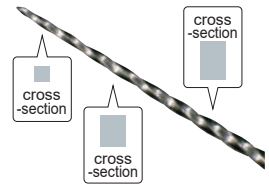
turn and pull



Magnified view of the cutting flute



Cross-section shape



Intended use

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

Barbed Broaches

Not Available in EU

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

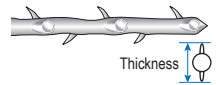
Size		
000	XXX Fine	
00	XX Fine	
0	X Fine	
1	Fine	
2	Medium	
3	Coarse	

■ Length of operative part(L)



L = 52 mm

■ Magnified view of the cutting flute



■ Intended use

Pulp removal

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

Short Barbed Broaches

■ Smallest available unit: 6 pcs per pack ■ Assortment: #2-4, #1-6 ■ Material: Stainless steel

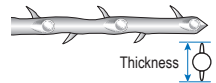
Size		
1	XXX Fine	
2	XX Fine	
3	X Fine	
4	Fine	
5	Medium	
6	Coarse	

■ Length of operative part(L)



L = 21 mm

■ Magnified view of the cutting flute



■ Intended use

Pulp removal







Size	1	2	3	4	5	6
Thickness	0.34	0.38	0.42	0.48	0.56	0.64

Thickness(mm) of 3mm part

Square Broaches

Not Available in EU

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

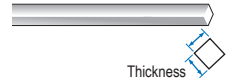
Size		
000	XXX Fine	
00	XX Fine	
0	X Fine	
1	Fine	
2	Medium	
3	Coarse	

■ 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 ■ 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	

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.

Length of operative part(L)



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

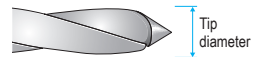
Usage

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



#45-50






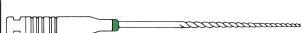

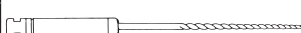



Intended use

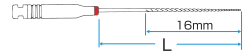
Enlargement or cleaning of a root canal.

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	

Length of operative part(L)



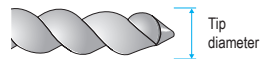
L = 18 mm, 21 mm, 25 mm

Usage

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



Magnified view of the cutting flute



Cross-section shape

#10
#15-50



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.

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	

Length of operative part(L)



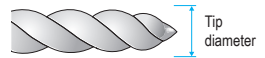
L = 33 mm

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.

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.

NiTi Rotary Files - JIZAI

Product Range For multiple use

Specifications	Size	Taper	Length	Quantity Per Unit
JIZAI Standard Kit	I  025	04	21mm 25mm 28mm 31mm	JIZAI I ×1pcs JIZAI II ×1pcs JIZAI III ×1pcs
	II  025	06		
	III  035	04		
JIZAI GLIDER	 013			×3pcs
JIZAI Individual Pack	025,030,035,040,045,050	04		
	025,030,035	06		
JIZAI Orifice Opener	025	14	18mm*	

JIZAI Glider

* Cyclic fatigue of file differs depending on the condition of root canals and usage of files. Please refer numbers of use as a reference, this is not guaranteed.

* Regardless of how many times use, change file if you find deformation or unbind on the files.

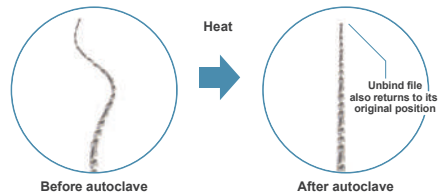
The file returns to its original position even if bent (super-elasticity)



Shape memory effect by heat treatment (Control memory)

JIZAI I (025 04) **II** (025 06) **III** (035 04)

▶ Time to change file when deformations, unbind are found.

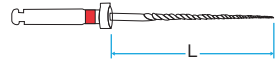


The three foundational concepts of JIZAI



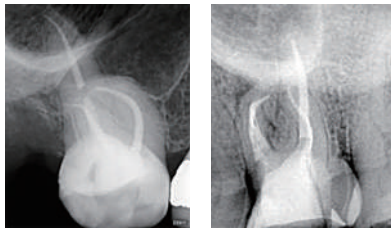
Smooth cutting with less screw-in effect

Length of operative part (L)



JIZAI flute designed to permit the treatment to respect the original anatomy

L=21mm, 25mm, 28mm, 31mm
* Only 025.14 for 18mm



Clinical Cases by Dr. Ralf Schlichting

Usage

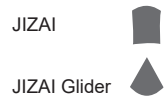
Use at Max. allowable setting with clock-wise full rotation.

JIZAI:
500rpm or less
3.0N·cm or less
JIZAI Glider:
300rpm or less
1.0N·cm or less



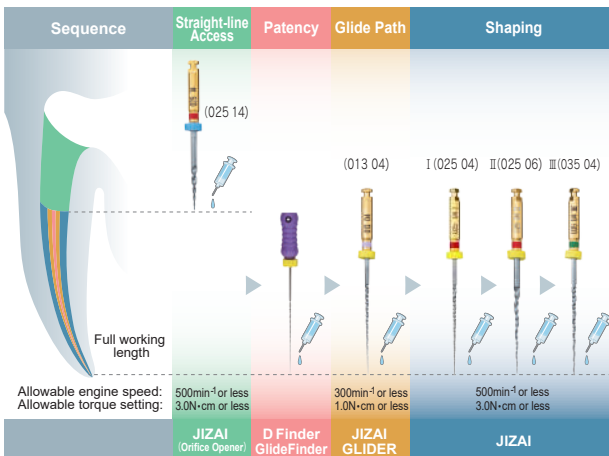
Procedural based sequencing
A single length technique along with sequence numbers

Cross-section shape



Intended use







JIZAI:
Root canal shaping
JIZAI Glider :
Creating a glide path



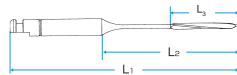
Irrigation & Recapitulation:
Make sure to irrigate and recapitulate the canal between each file to avoid canal blockage.

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

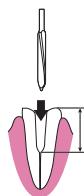
Magnified view of the cutting flute



Intended use

Mainly used to flare a root canal orifice into a funnel shape







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

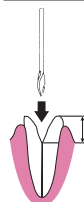
Magnified view of the cutting flute



Intended use

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.





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.

Paste Carriers

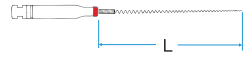
■ Smallest available unit: 4 pcs per case ■ Assortment: #25-40 ■ Material: Stainless steel ■ Taper: .02

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

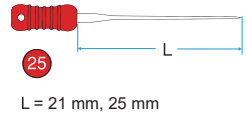
To fill a root canal with filling material or to apply agent to a root canal.

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)

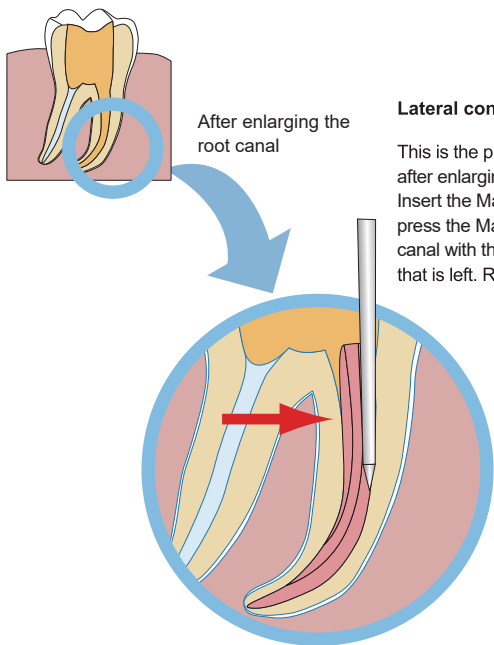


■ Magnified view of the cutting flute



■ Intended use

To fill a 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 not 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)



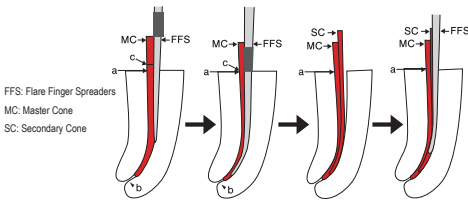
L = 21 mm, 25 mm

■ 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.

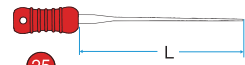
Pluggers

Not Available in EU

■ 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)



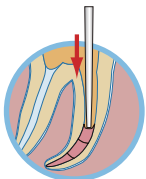
L = 21 mm, 25 mm

■ Magnified view of the cutting flute



■ Intended use

To fill a root canal.

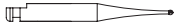

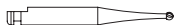

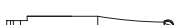















Vertical condensation technique of root canal filling



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	

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	

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

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.

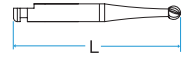
MI(Minimal Intervention)

Hard Stainless Burs

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

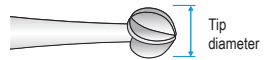
Size	Tip diameter (mm)	Length of working portion: 22 mm
1/2	0.6	
1	0.8	
2	1.0	
3	1.2	
4	1.4	
5	1.6	
6	1.8	
7	2.1	
8	2.3	

■ Length of operative part(L)



L = 22 mm, 28 mm

■ Magnified view of the cutting flute



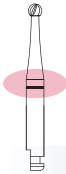
Max. allowable speed
Maximum rotation of 4000 min⁻¹

■ 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

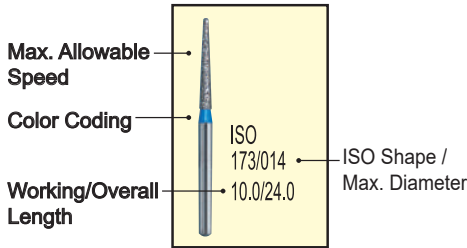
Autoclaved steam sterilization comparison

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

DIA-BURS

DIA-BURS Identification Guide

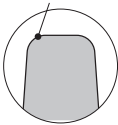
Product pictures are only for reference.






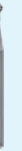
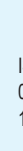
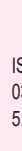



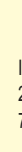
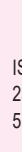
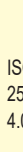
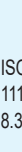



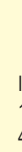
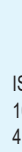
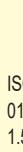
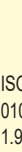
450,000 min ⁻¹
300,000 min ⁻¹
160,000 min ⁻¹
90,000 min ⁻¹

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
































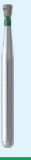





■ Smallest available unit : 5pcs./sheet

Super Coarse	 ISO 001/020 1.8/19.2 BR-31SC	 ISO 001/018 1.6/20.3 BR-40SC	 ISO 001/016 1.4/19.2 BR-41SC	 ISO 001/012 1.1/19.2 BR-45SC	 ISO 001/014 1.2/19.2 BR-46SC	 ISO 039/034 5.1/19.2 EX-11SC	
	 ISO 237/023 5.3/19.1 EX-21SC	 ISO 237/034 5.1/19.1 EX-26SC	 ISO 297/016 7.3/21.2 FO-21SC	 ISO 288/018 7.3/21.2 FO-22SC	 ISO 257/034 5.2/19.2 FO-27SC	 ISO 257/020 4.0/19.8 FO-32SC	 ISO 111/014 8.3/22.2 SF-11SC
	 ISO 111/016 8.3/22.1 SF-12SC	 ISO 111/018 8.3/22.2 SF-13SC	 ISO 110/016 7.3/21.1 SF-21SC	 ISO 109/015 4.8/19.2 SF-31SC	 ISO 109/013 4.4/19.1 SF-41SC	 ISO 010/015 1.5/19.1 SI-46SC	 ISO 010/017 1.9/19.1 SI-47SC

DIA-BURS




































 ISO 010/019 2.0/19.1	 ISO 298/016 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 199/025 11.5/23.9	 ISO 197/018 7.3/21.2	 ISO 197/027 7.5/21.4	 ISO 072/044 2.0/19.2		
TR-15SC	TR-19SC	TR-21SC	TR-258SC	WR-13SC		
Coarse	 ISO 002/019 2.4/19.1	 ISO 002/015 2.6/19.2	 ISO 002/013 2.6/19.1	 ISO 001/019 1.7/19.1	 ISO 001/019 1.7/21.1	 ISO 001/017 1.5/20.2
	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 1.1/19.1	 ISO 001/009 0.8/19.0	 ISO 032/011 2.4/19.1	 ISO 032/015 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

DIA-BURS

































 ISO 039/035 7.2/20.1	 ISO 237/019 5.2/19.1	 ISO 237/022 5.2/19.0	 ISO 237/017 5.0/19.2	 ISO 190/018 10.1/24.0	 ISO 239/033 5.0/19.0	 ISO 239/015 4.3/19.1
EX-12C	EX-20C	EX-21C	EX-22C	EX-24C	EX-26C	EX-31C
 ISO 237/011 3.1/19.1	 ISO 299/014 10.2/24.1	 ISO 297/015 7.2/21.1	 ISO 288/017 7.2/21.1	 ISO 257/029 5.0/19.1	 ISO 257/033 5.1/19.1	 ISO 257/019 3.9/19.7
EX-41C	FO-11C	FO-21C	FO-22C	FO-25C	FO-27C	FO-32C
 ISO 508/019 9.6/21.0	 ISO 257/024 5.3/19.2	 ISO 257/013 8.0/22.0	 ISO 553/020 10.5/23.3	 ISO 545/019 7.2/21.2	 ISO 544/019 4.4/19.2	 ISO 111/013 8.2/22.1
FO-54C	FO-100C	FO-101C	RS-11C ★	RS-21C ★	RS-31C ★	SF-11C
 ISO 111/015 8.2/22.0	 ISO 111/017 8.2/22.1	 ISO 110/015 7.2/21.0	 ISO 110/012 6.1/20.1	 ISO 109/014 4.7/19.1	 ISO 109/011 4.3/19.0	 ISO 109/015 4.5/19.1
SF-12C	SF-13C	SF-21C	SF-24C	SF-31C	SF-41C	SF-79C
 ISO 109/013 4.5/19.1	 ISO 010/014 1.4/19.0	 ISO 010/015 1.8/19.0	 ISO 010/017 1.9/19.0	 ISO 297/013 6.2/21.0	 ISO 298/015 8.2/21.8	 ISO 288/010 6.1/20.2
SF-80C	SI-46C	SI-47C	SI-48C	SO-20C	SO-21C	SO-22C

★ Round Shoulder




































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 ISO 289/012 8.1/22.2	 ISO 141/013 8.2/22.2	 ISO 141/015 8.2/22.2	 ISO 141/017 8.2/22.2	 ISO 166/017 10.2/22.0	 ISO 165/015 8.2/22.0	 ISO 164/011 6.1/21.2
SO-23C	SR-11C	SR-12C	SR-13C	TC-11C	TC-21C	TC-26C
 ISO 165/011 7.9/21.8	 ISO 166/012 9.8/23.7	 ISO 173/015 10.2/24.0	 ISO 173/017 10.2/21.8	 ISO 173/019 10.2/21.8	 ISO 172/024 9.4/21.9	 ISO 171/015 7.2/21.0
TC-72C	TC-74C	TF-11C	TF-12C	TF-13C	TF-14C	TF-20C
 ISO 171/017 7.2/21.0	 ISO 171/022 5.6/19.1	 ISO 170/019 5.2/20.1	 ISO 170/017 4.2/19.0	 ISO 170/012 3.7/19.1	 ISO 170/013 4.2/19.0	 ISO 170/015 4.2/19.0
TF-21C	TF-22C	TF-23C	TF-31C	TF-41C	TF-42C	TF-43C
 ISO 297/014 6.1/21.2	 ISO 199/017 10.2/21.8	 ISO 199/017 10.2/21.8	 ISO 198/019 9.2/21.8	 ISO 198/023 9.4/22.1	 ISO 199/023 11.5/23.9	 ISO 199/018 10.2/24.1
TO-58C	TR-11C	TR-12C	TR-13C	TR-14C	TR-15C	TR-17C
 ISO 199/024 11.5/23.9	 ISO 197/015 7.2/21.0	 ISO 197/017 7.2/21.1	 ISO 197/019 7.2/21.2	 ISO 199/017 10.2/21.7	 ISO 198/019 9.2/21.8	 ISO 198/012 8.1/21.2
TR-19C	TR-20C	TR-21C	TR-24C	TR-25C	TR-26C	TR-28C




































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 ISO 198/016 8.1/21.2	 ISO 197/018 7.2/20.0	 ISO 199/012 10.3/24.2	 ISO 198/015 8.4/22.2	 ISO 198/014 8.2/22.2	 ISO 197/026 7.5/21.4	 ISO 198/012 8.4/22.2
TR-29C	TR-62C	TR-224C	TR-256C	TR-257C	TR-258C	TR-259C
 ISO 072/043 2.0/19.2	Short Shank	 ISO 002/015 2.6/16.8	 ISO 001/013 1.1/16.7	 ISO 257/015 7.2/18.2	 ISO 297/013 6.2/18.8	 ISO 165/015 8.2/20.0
WR-13C		BC-S42C	BR-S46C	FO-S21C	SO-S20C	TC-S21C
 ISO 171/015 7.2/18.8	 ISO 171/017 7.2/18.8	 ISO 299/019 9.6/20.9	 ISO 197/017 7.2/18.8	 ISO 197/017 7.2/17.7	Standard	 ISO 002/018 2.4/19.1
TF-S20C	TF-S21C	TR-S13C	TR-S21C	TR-SS21C		BC-31
 ISO 002/016 3.6/19.1	 ISO 002/014 2.5/19.1	 ISO 002/012 2.6/19.1	 ISO 001/018 1.6/19.1	 ISO 001/028 2.6/20.1	 ISO 001/035 3.4/20.1	 ISO 001/016 1.5/20.2
BC-32	BC-42	BC-43	BR-31	BR-33	BR-34	BR-40
 ISO 001/014 1.3/19.1	 ISO 001/011 1.0/20.2	 ISO 001/013 1.2/21.0	 ISO 001/010 0.9/19.5	 ISO 001/010 0.9/19.1	 ISO 001/012 1.1/19.1	 ISO 001/008 0.7/19.0
BR-41	BR-42	BR-43	BR-44	BR-45	BR-46	BR-49

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 ISO 001/016 1.7/24.2	 ISO 156/010 3.3/16.3	 ISO 546/022 9.3/21.8	 ISO 544/021 5.5/19.0	 ISO 198/015 9.2/21.8	 ISO 172/012 8.2/22.0	 ISO 032/011 2.4/19.1
BR-154	CD-58	CE-12	CE-13	CE-16	CE-17	DI-41
 ISO 032/014 3.3/19.1	 ISO 039/032 5.0/19.1	 ISO 039/035 7.2/20.1	 ISO 140/013 6.2/21.1	 ISO 141/016 8.5/21.7	 ISO 141/021 8.4/22.1	 ISO 237/018 5.2/19.1
DI-42	EX-11	EX-12	EX-13	EX-14	EX-15	EX-20
 ISO 237/021 5.2/19.0	 ISO 190/017 10.1/24.0	 ISO 239/032 5.0/19.0	 ISO 237/014 4.3/19.1	 ISO 237/013 4.1/20.1	 ISO 237/015 4.9/19.6	 ISO 237/017 5.1/19.1
EX-21	EX-24	EX-26	EX-31	EX-32	EX-33	EX-34
 ISO 277/023 4.3/21.1	 ISO 277/018 3.9/19.2	 ISO 277/023 4.4/19.2	 ISO 237/011 3.1/19.1	 ISO 237/018 3.1/19.1	 ISO 237/014 3.1/19.1	 ISO 298/010 8.2/21.2
EX-35	EX-39	EX-40	EX-41	EX-42	EX-43	EX-58
 ISO 299/014 10.2/24.1	 ISO 299/016 10.8/23.7	 ISO 299/019 10.3/23.1	 ISO 299/023 10.4/22.1	 ISO 297/014 7.2/21.1	 ISO 288/016 7.2/21.1	 ISO 297/013 7.3/20.6
FO-11	FO-12	FO-13	FO-14	FO-21	FO-22	FO-23

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 ISO 298/013 8.2/22.1	 ISO 257/028 5.0/19.1	 ISO 257/032 5.0/19.1	 ISO 257/013 3.3/19.7	 ISO 257/018 3.9/19.7	 ISO 257/023 5.2/20.1	 ISO 198/021 8.3/22.2
FO-24	FO-25	FO-27	FO-31	FO-32	FO-33	Pro-1
 ISO 198/018 8.3/22.2	 ★ ISO 553/019 10.4/23.2	 ★ ISO 545/018 7.2/21.2	 ★ ISO 544/019 4.4/19.2	 ISO 544/016 4.2/17.8	 ISO 544/018 4.3/17.8	 ISO 111/012 8.2/22.1
Pro-2	RS-11	RS-21	RS-31	RS-32	RS-45	SF-11
 ISO 111/014 8.2/22.0	 ISO 111/016 8.2/22.1	 ISO 110/014 7.2/21.0	 ISO 110/013 7.2/21.1	 ISO 109/013 4.7/19.1	 ISO 109/013 5.2/19.2	 ISO 109/010 4.3/20.1
SF-12	SF-13	SF-21	SF-22	SF-31	SF-32	SF-40
 ISO 109/011 4.3/19.0	 ISO 109/013 4.3/19.1	 ISO 109/015 4.2/19.1	 ISO 109/014 4.5/19.1	 ISO 109/012 4.5/19.1	 ISO 109/008 4.5/19.1	 ISO 010/015 4.4/19.1
SF-41	SF-42	SF-43	SF-79	SF-80	SF-81	SI-33
 ISO 010/013 3.9/19.1	 ISO 010/017 4.4/19.1	 ISO 010/019 2.5/20.1	 ISO 010/017 1.9/20.1	 ISO 010/015 1.8/20.1	 ISO 010/013 1.4/20.1	 ISO 010/010 1.4/20.1
SI-34	SI-37	SI-41	SI-42	SI-43	SI-44	SI-45

★ Round Shoulder









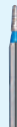









DIA-BURS

 ISO 010/013 1.4/19.0	 ISO 010/015 1.8/19.0	 ISO 010/017 1.9/19.0	 ISO 012/010 1.3/19.2	 ISO 010/011 1.1/19.1	 ISO 130/012 7.9/21.7	 ISO 290/015 10.0/24.1
SI-46	SI-47	SI-48	SI-61	SI-045	SO-11	SO-12
 ISO 131/016 9.7/24.1	 ISO 131/018 9.7/24.1	 ISO 297/012 6.2/21.0	 ISO 298/014 8.2/21.8	 ISO 289/017 8.2/22.1	 ISO 291/014 12.2/26.1	 ISO 141/012 8.2/22.2
SO-13	SO-14	SO-20	SO-21	SO-23	SO-67	SR-11
 ISO 141/014 8.2/22.2	 ISO 141/016 8.2/22.2	 ISO 139/012 4.2/19.3	 ISO 139/013 4.3/19.3	 ISO 139/009 4.2/19.3	 ISO 166/016 10.2/22.0	 ISO 167/011 11.7/26.1
SR-12	SR-13	SR-54	SR-55	SR-57	TC-11	TC-12
 ISO 167/014 11.3/25.1	 ISO 166/016 10.3/23.7	 ISO 166/019 10.2/24.1	 ISO 166/018 10.4/23.2	 ISO 165/014 8.2/22.0	 ISO 165/013 7.3/21.1	 ISO 165/015 7.2/21.1
TC-13	TC-14	TC-15	TC-16	TC-21	TC-23	TC-24
 ISO 164/011 6.1/21.2	 ISO 166/011 10.2/23.2	 ISO 165/010 7.9/21.8	 ISO 173/014 10.2/24.0	 ISO 173/016 10.2/21.8	 ISO 173/018 10.2/21.8	 ISO 172/023 9.3/21.8
TC-26	TC-28	TC-72	TF-11	TF-12	TF-13	TF-14

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 ISO 172/026 8.3/22.1	 ISO 171/014 7.2/21.0	 ISO 171/016 7.2/21.0	 ISO 170/021 5.5/19.0	 ISO 170/018 5.2/20.1	 ISO 170/016 4.2/19.0	 ISO 170/013 4.2/21.1
TF-15	TF-20	TF-21	TF-22	TF-23	TF-31	TF-33
 ISO 169/011 3.7/19.1	 ISO 170/012 4.2/19.0	 ISO 170/014 4.2/19.0	 ISO 199/016 10.2/21.8	 ISO 199/016 10.2/21.8	 ISO 198/018 9.2/21.8	 ISO 198/022 9.3/22.0
TF-41	TF-42	TF-43	TR-11	TR-12	TR-13	TR-14
 ISO 199/022 11.4/23.8	 ISO 199/023 11.4/23.8	 ISO 197/014 7.2/21.0	 ISO 197/016 7.2/21.1	 ISO 197/012 7.3/21.7	 ISO 198/016 8.2/21.7	 ISO 197/018 7.2/21.2
TR-15	TR-19	TR-20	TR-21	TR-22	TR-23	TR-24
 ISO 199/016 10.2/21.7	 ISO 198/018 9.2/21.8	 ISO 198/012 8.2/21.2	 ISO 198/012 8.2/21.3	 ISO 198/016 8.2/21.2	 ISO 199/011 10.3/24.2	 ISO 072/040 1.6/19.0
TR-25	TR-26	TR-27	TR-28	TR-29	TR-224	WR-12
 ISO 072/042 1.9/19.1	 ISO 072/042 2.1/19.1	 ISO 041/024 0.6/19.2	Short Shank	 ISO 002/014 2.5/16.7	 ISO 002/012 2.6/16.7	 ISO 001/010 0.9/16.7
WR-13	WR-14	WF-30		BC-S42	BC-S43	BR-S45

DIA-BURS

 ISO 001/012 1.1/16.7 BR-S46	 ISO 032/011 2.4/17.2 DI-S41	 ISO 297/014 7.2/18.2 FO-S21	 ISO 508/019 9.6/20.0 FO-S54	 ISO 001/008 1.0/17.1 MI-S45	 ISO 277/024 4.8/17.1 Pro-S3	 ISO 109/011 3.8/16.7 SF-S41
 ISO 010/013 1.4/16.6 SI-S46	 ISO 010/017 1.9/16.6 SI-S48	 ISO 297/012 6.2/18.8 SO-S20	 ISO 165/014 8.2/20.0 TC-S21	 ISO 173/016 10.3/21.2 TF-S12	 ISO 171/014 7.2/18.8 TF-S20	 ISO 171/016 7.2/18.8 TF-S21
 ISO 170/021 5.5/16.9 TF-S22	 ISO 170/018 5.2/17.1 TF-S23	 ISO 170/016 4.2/16.8 TF-S31	 ISO 169/011 3.7/16.8 TF-S41	 ISO 299/018 9.6/20.9 TR-S13	 ISO 198/022 9.3/20.1 TR-S14	 ISO 197/016 7.2/18.8 TR-S21
Super Short Shank	 ISO 138/009 2.3/16.1 CD-SS51	 ISO 032/011 2.4/14.5 DI-SS41	 ISO 297/014 6.1/16.1 EX-SS13	 ISO 197/015 6.1/16.1 EX-SS14	 ISO 544/016 4.2/14.3 EX-SS33	 ISO 277/023 4.4/16.7 EX-SS40
 ISO 544/019 4.5/16.1 RS-SS31	 ISO 165/014 8.2/17.1 TC-SS21	 ISO 170/016 4.2/14.3 TF-SS31	 ISO 197/016 7.2/17.7 TR-SS21	Fine	 ISO 001/006 0.5/19.0 BR-48F	 ISO 001/006 0.6/16.7 CD-50F

☆ For Children Use ★ Round Shoulder

DIA-BURS




































☆  ISO 138/007 2.2/16.7 CD-51F	☆  ISO 139/007 3.8/16.7 CD-52F	☆  ISO 539/007 2.2/16.7 CD-53F	☆  ISO 295/007 2.2/16.7 CD-54F	☆  ISO 277/008 1.2/16.7 CD-55F	☆  ISO 295/007 2.2/16.7 CD-56F	☆  ISO 295/007 3.6/16.7 CD-57F
☆  ISO 156/009 3.2/16.2 CD-58F	☆  ISO 197/013 6.9/16.7 CD-59F	☆  ISO 138/007 2.2/19.0 CD-60F	☆  ISO 139/007 3.8/19.0 CD-61F	☆  ISO 156/009 3.2/19.0 CD-62F	★  ISO 546/021 9.1/21.7 CE-12F	★  ISO 544/020 5.3/18.9 CE-13F
 ISO 254/027 4.8/20.6 CE-15F	 ISO 198/017 9.1/21.7 CE-16F	 ISO 546/011 8.1/21.9 CE-17F	 ISO 196/020 5.1/19.0 CR-11F	 ISO 196/015 4.1/19.0 CR-12F	 ISO 197/012 7.1/21.5 CR-21F	 ISO 298/013 8.1/21.5 CR-22F
 ISO 179/010 9.2/21.0 EX-18F	 ISO 237/020 5.1/18.9 EX-21F	 ISO 237/013 4.2/19.0 EX-31F	 ISO 277/023 4.3/19.1 EX-40F	 ISO 297/013 7.1/21.0 FO-21F	 ISO 288/015 7.1/21.0 FO-22F	
 ISO 288/011 7.0/20.6 FO-23F	 ISO 298/013 8.0/22.0 FO-24F	 ISO 257/015 3.2/19.0 FO-30F	 ISO 257/022 5.1/20.0 FO-33F	 ISO 001/010 0.9/19.2 MI-45F	 ISO 539/007 2.2/19.2 MI-53F	 ISO 139/007 3.8/19.2 MI-61F

☆ For Children Use ★ Round Shoulder

DIA-BURS


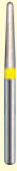


 ISO 156/009 3.2/19.2	 ISO 198/020 8.1/22.1	 ISO 198/017 8.2/22.1	 ISO 277/022 4.7/20.6	 ISO 237/019 5.1/19.1	 ISO 041/039 0.7/19.1	 ISO 544/014 4.1/17.7
MI-62F	Pro-1f	Pro-2f	Pro-3f	Pro-4f	Pro-5f	RS-32F
 ISO 544/017 4.1/17.7	 ISO 166/015 10.1/21.9	 ISO 166/015 10.2/23.6	 ISO 165/013 8.1/21.9	 ISO 165/013 7.2/21.0	 ISO 166/010 9.7/23.7	 ISO 173/015 10.1/21.7
RS-45F	TC-11F	TC-14F	TC-21F	TC-23F	TC-73F	TF-12F
 ISO 171/015 7.1/20.9	 ISO 199/015 10.1/21.7	 ISO 198/017 9.1/21.7	 ISO 197/015 7.1/21.0	 ISO 199/015 10.1/21.6	 ISO 198/017 9.1/21.7	 ISO 198/016 8.1/21.1
TF-21F	TR-11F	TR-13F	TR-21F	TR-25F	TR-26F	TR-29F
 ISO 072/015 0.6/19.1	Short Shank	 ISO 072/015 0.6/16.6	Super Short Shank	 ISO 298/013 7.7/18.1	 ISO 165/012 8.2/18.1	Extra Fine
WR-31F		WR-S31F		FO-SS21F	TC-SS21F	
 ISO 001/018 1.7/19.9	 ISO 001/015 1.4/18.9	 ISO 546/019 8.9/21.6	 ISO 544/019 5.1/18.8	 ISO 254/025 4.6/20.5	 ISO 198/015 8.9/21.6	 ISO 172/010 7.9/21.8
BR-32EF	BR-40EF	CE-12EF	CE-13EF	CE-15EF	CE-16EF	CE-17EF



DIA-BURS

 ISO 196/019 4.9/18.9	 ISO 196/013 3.9/18.9	 ISO 039/029 4.7/18.9	 ISO 237/018 4.9/18.8	 ISO 190/012 7.0/21.0	 ISO 545/018 6.9/21.0	 ISO 138/015 3.3/19.0
CR-11EF	CR-12EF	EX-11EF	EX-21EF	EX-27EF	EX-29EF	EX-36EF
 ISO 254/023 1.9/19.0	 ISO 277/018 3.5/19.0	 ISO 277/023 4.2/19.0	 ISO 257/012 6.0/19.9	 ISO 297/011 6.9/20.9	 ISO 288/013 6.9/20.9	 ISO 288/009 6.8/20.5
EX-37EF	EX-39EF	EX-40EF	FO-20EF	FO-21EF	FO-22EF	FO-23EF
 ISO 257/025 4.7/18.9	 ISO 257/014 3.1/18.9	 ISO 257/016 3.6/19.5	 ISO 257/020 4.9/19.9	 ISO 540/009 4.2/23.4	 ISO 297/009 5.9/18.4	 ISO 289/010 7.6/21.9
FO-25EF	FO-30EF	FO-32EF	FO-33EF	FO-40EF	FO-41EF	FO-42EF
 ISO 198/021 8.8/22.0	 ISO 198/018 7.9/22.0	 ISO 545/016 6.9/21.0	 ISO 544/018 4.2/18.9	 ISO 544/017 3.9/17.6	 ISO 166/013 9.9/21.8	 ISO 166/013 10.0/23.5
Pro-1EF	Pro-2EF	RS-21EF ★	RS-31EF ★	RS-45EF	TC-11EF	TC-14EF
 ISO 165/011 7.9/21.8	 ISO 173/013 9.9/21.6	 ISO 171/013 6.9/20.8	 ISO 199/013 9.9/21.6	 ISO 199/013 9.9/21.6	 ISO 198/015 8.9/21.6	 ISO 197/013 6.9/20.9
TC-21EF	TF-12EF	TF-21EF	TR-11EF	TR-12EF	TR-13EF	TR-21EF

★ Round Shoulder

DIA-BURS

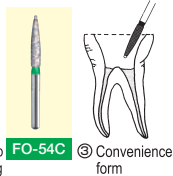
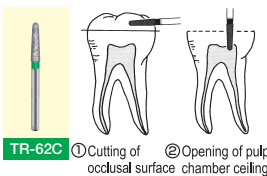
 ISO 199/013 9.9/21.5	 ISO 198/015 8.9/21.6	Short Shank	 ISO 198/019 8.9/19.9	Super Short Shank	 ISO 297/012 5.9/15.9	 ISO 197/012 5.9/15.9
TR-25EF	TR-26EF		TR-S14EF		EX-SS13EF	EX-SS14EF

★	★
 ISO 544/015 4.0/14.2	 ISO 544/018 4.2/15.9
EX-SS33EF	RS-SS31EF

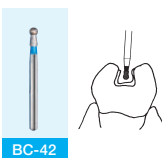
★ Round Shoulder

*These are examples of use for each shape. The item numbers listed are for reference only.

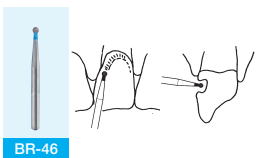
Access Opening DIA-BURS



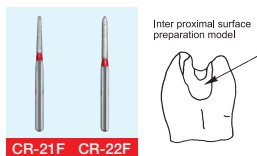
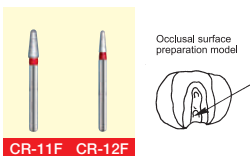
BC Series (Ball Collar)



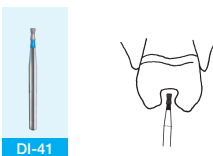
BR Series (Ball Round)



CR Series (CR Inlay Preparation)



DI Series (Double Inverted Cone)



DIA-BURS

*These are examples of use for each shape. The item numbers listed are for reference only.

EX Series (Extra Shape)



EX-21



EX-11



EX-24



EX-18F



FO Series (Flame Ogival End)



FO-25



SF-21



SI-47



SO Series (Straight Ogival End)



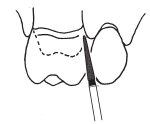
SO-21



TC Series (Taper Conical End)



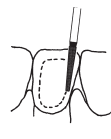
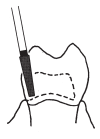
TC-11



TF Series (Taper Flat End)



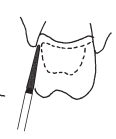
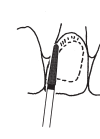
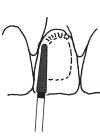
TF-12



TR Series (Taper Round End)



TR-13



WR Series (Wheel Round Edge)



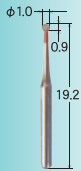
WR-13



MI DIA-BURS

MI-45F

Smallest available unit: 5 pcs/sheet



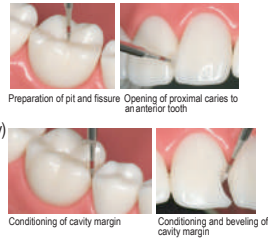
- Features** Spherical bur with 1.0 mm diameter
- Intended use** General-purpose spherical bur
- 1 Proximal caries to an anterior tooth (class III or IV cavity)
 - 2 Caries in tooth cervix (class V cavity or cavity in cervical area)



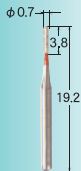
MI-53F



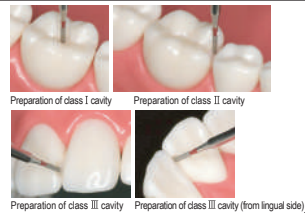
- Features** Small pointed bur
- Intended use** Since this bur has a thin tip it can help avoid damage to an adjacent tooth. The use of this bur enables the user to form a narrower pit and fissure.
- 1 Pit and fissure caries.(class I cavity)
 - 2 Proximal caries to a premolar tooth (class II, III, or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



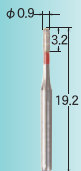
MI-61F



- 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. Shige-hisa Inokoshi,
Inokoshi Dental Clinic,
Tokyo JAPAN

IPR DIA-BURS

Features

Improved comfort for patients and practitioners.

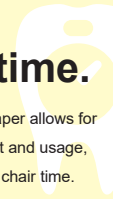
Reduced Vibration.

Extra fine grit diamonds create minimal vibration.



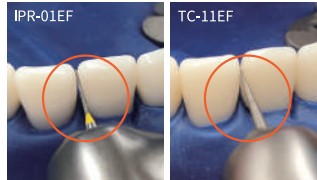
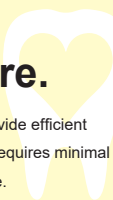
Reduced Chair time.

The unique thin taper allows for precise placement and usage, hence shortening chair time.



Reduced Pressure.

IPR DIA-BURS provide efficient cutting action that requires minimal handpiece pressure.



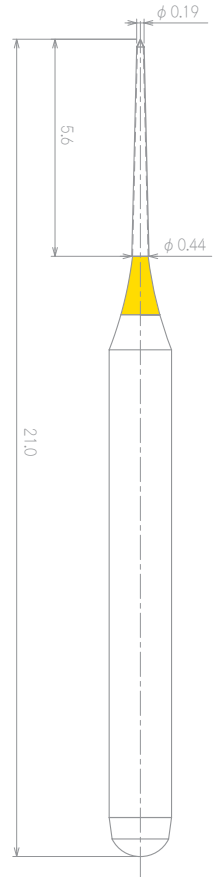
Take Note



- This product is for IPR only. Should not be used for any other purpose.
- Use with contra-angle hand piece(micro-motor) at x5 engine speed less than 160,000 min⁻¹.
- Do not use with excessive force. Handle with care due to its unique thin design.
- Use with a rubber dam and be careful not to drop or misplace the product.



Designed to be placed cervically and operated towards the incisal with either a buccal or lingual approach. The unique thin design enables optimal control over IPR. Allowable Engine Speed : 160,000 min⁻¹.







■ Smallest available unit: 5pcs./pack







Carbide Burs -Surgical Burs

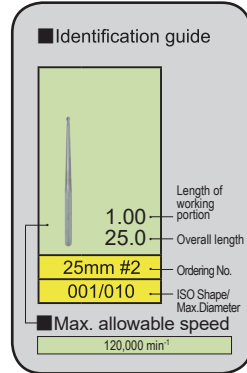
■ Smallest available unit: 4 pcs./pack

	
11.00 25.0	11.00 28.0
25mm MZB+	28mm MZB+
199/015	199/015

	
1.00 25.0	1.00 28.0
25mm #2	28mm #2
001/010	001/010

	
2.00 25.0	2.00 28.0
25mm #330	28mm #330
232/008	232/008

	
4.00 25.0	4.00 28.0
25mm #1557	28mm #1557
137/010	137/010



Take Note

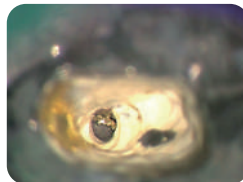
Use a 5x speed (micro-motor) at 120,000 min⁻¹ maximum.

- ☑ 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.

Carbide Burs

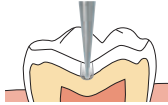
Features

- **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**

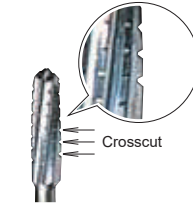
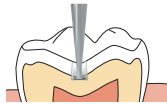
- **ROUND**

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



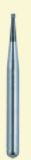






Identification guide





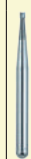


Length of working portion: 2.00
Overall length: 19.0










330 — Ordering No.
232/008 — ISO Shape/Max. Diameter






Max. allowable speed





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




ROUND								
								
	0.50 19.3	0.60 19.3	0.08 19.3	1.00 19.3	1.20 19.3	1.40 19.3	1.60 19.3	1.80 19.3
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 19.3	2.30 19.3	0.60 19.3	0.80 19.3	1.00 19.3	1.20 19.3	1.40 19.3	
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 FISSURE								
								
	5.00 21.0	4.00 19.3	4.00 19.3	4.00 19.3	9.00 21.0	6.00 21.0	4.00 19.3	4.00 19.3
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 FISSURE				
 4.00 19.3	 4.00 19.3	 7.00 21.0	 4.00 19.3	 4.70 19.3
701^{*1}	701X^{*2}	701L^{*1}	702^{*1}	703^{*1}
168/012	168/012	171/012	168/016	168/021



PEAR			
	 3.00 19.3	 2.00 19.3	 2.00 19.3
Order NO.	245	330	331
ISO NO.	237/009	232/008	232/010





PEAR		
 2.00 19.3	 2.00 19.3	 2.00 19.3
332	330P^{*1}	1931^{*1}
232/012	232/008	237/010



STRAIGHT FISSURE					
	 4.00 19.3	 4.00 19.3	 4.00 19.3	 4.00 19.3	 4.00 19.3
Order NO.	57	58	557^{*1}	558^{*1}	559^{*1}
ISO NO.	107/010	107/012	107/010	107/012	107/014







STRAIGHT FISSURE	
 4.00 19.3	 4.00 19.3
560^{*1}	1957^{*1}
107/016	137/010

ROUND END STRAIGHT FISSURE						
	 4.00 19.3	 4.00 19.3	 4.00 19.3	 4.00 19.3	 4.00 19.3	 4.00 19.3
Order NO.	1157	1158	1159	1557^{*1}	1558^{*1}	1559^{*1}
ISO NO.	137/010	137/012	137/014	137/010	137/012	137/014

ROUND END STRAIGHT FISSURE	
 4.00 19.3	 4.00 19.3
1958^{*1}	M21DC^{*2}
137/012	137/010

CONICAL OGIVAL END			
	 4.00 19.3	 4.00 19.3	 4.00 19.3
Order NO.	7901	7902	7903
ISO NO.	496/009	496/010	496/012

STRAIGHT OGIVAL END	
 4.00 20.0	 4.00 20.0
Order NO.	7408
ISO NO.	227/023

ROUND END TAPER FISSURE					
	 4.00 19.3	 11.00 23.0	 5.50 21.0	 4.00 19.3	 8.90 23.4
Order NO.	1970^{*1}	M15ZB	M16DB	M23DC^{*2}	CE/4CF
ISO NO.	194/010	199/015	196/016	168/012	166/014

※1...Cross-cuts ※2...Dia-cuts

Sutures

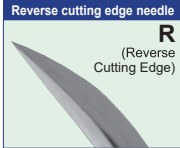
Classification of needles

Example: RH-18mm

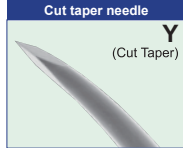
The needle types are classified according to the combinations of ① needle shape ② curvature type and ③ length (overall)

① ② ③

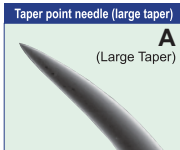
① Needle shape



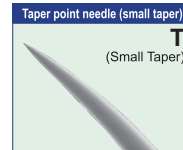
The cross-section of the needle is V-shaped. The cutting edge is located on the curved outside, and the inside corresponds to the base of the triangle. This type is primarily suitable for hard tissue that is difficult to puncture.



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.

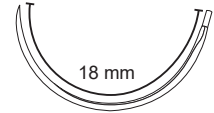


The tip is thin and sharp, making this type primarily suitable for suturing soft tissue.

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

■ Smallest available unit : 4pcs./pack

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









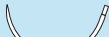













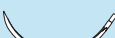

Sutures

■ 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 	RE-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 	RE-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

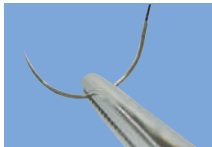
■ Smallest available unit: 12 pcs per box ■ Material: Needle (Stainless steel) and thread (silk, nylon, and polyester)

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 	RE-18 mm D-0.58 mm	4-0	0.15/0.199	Nylon Black monofilament 45 cm
24	Reverse Cutting		Slightly curved 	RE-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

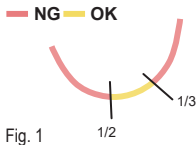


Fig. 1

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

Not Available in EU

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

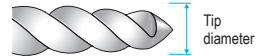


Type F

- Material: Stainless steel
- Taper: .05

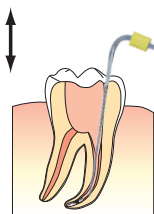
For checking flare preparation or root canal enlargement using taper of 0.05

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

Not Available in EU

Type	Type K	Type H	Type F
Size	K-Files .02 taper	H-Files .02/.04 taper	Flare Files .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

Not Available in EU

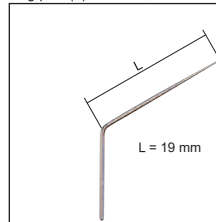
Usage

Attach to an ultrasonic scaler



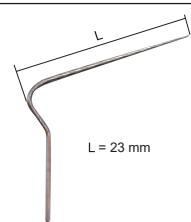
■ Diameter = $\phi 0.8$

■ Length of working part (L) Single



L = 19 mm

Double



L = 23 mm

Size #25

#25

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

Ultrasonic Dia-Files

Not Available in EU

Usage

Attach to an ultrasonic device

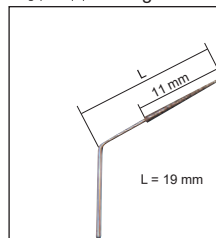


■ Diameter = $\phi 0.8$

■ Diamond grain: fine (F)

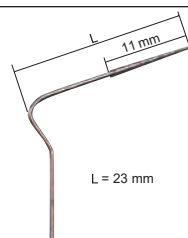
*3 = #25

■ Length of working part (L) Single



L = 19 mm

Double



L = 23 mm

Size 3-F

3-F

■ 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.

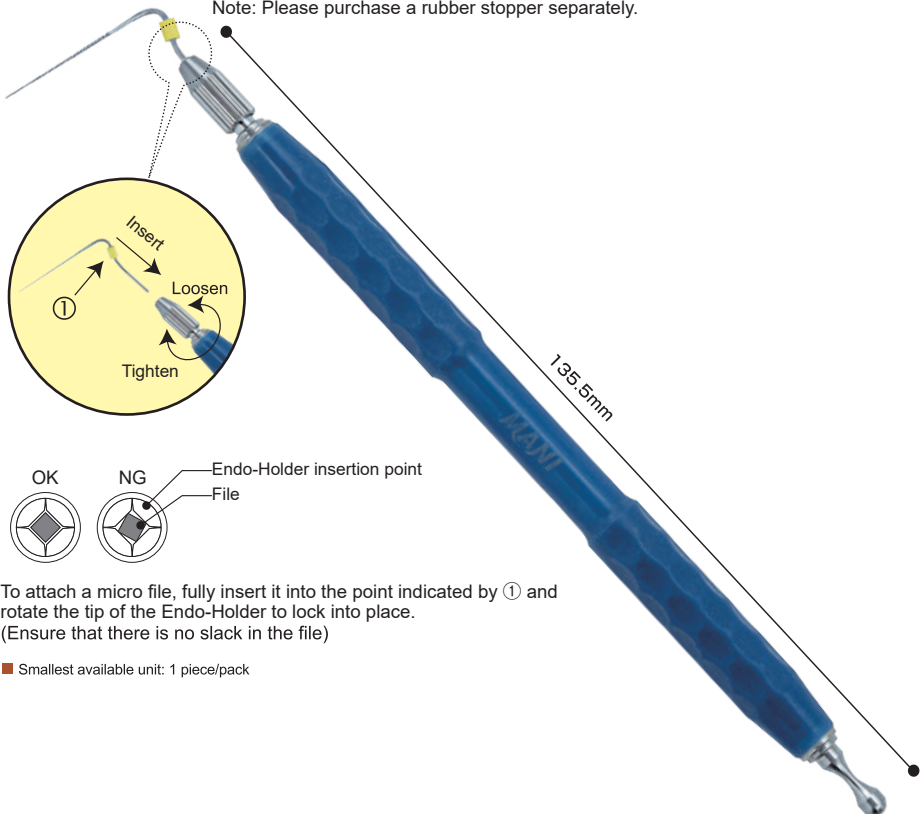
Use with a device that can hold a shank diameter of $\phi 0.8$ mm.

Endo-Holders

Not Available in EU

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.



To attach a micro file, fully insert it into the point indicated by ① and rotate the tip of the Endo-Holder to lock into place. (Ensure that there is no slack in the file)

■ Smallest available unit: 1 piece/pack

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/box
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

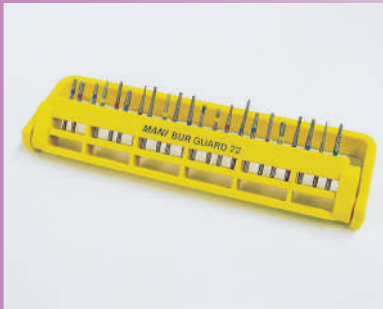


- The burs can be autoclaved in place
- Use with CA(RA) and FG burs
- Adjustable size for different bur lengths (two sizes)

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.**

Silicone caps for Endo Stands



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)

Accessories

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.

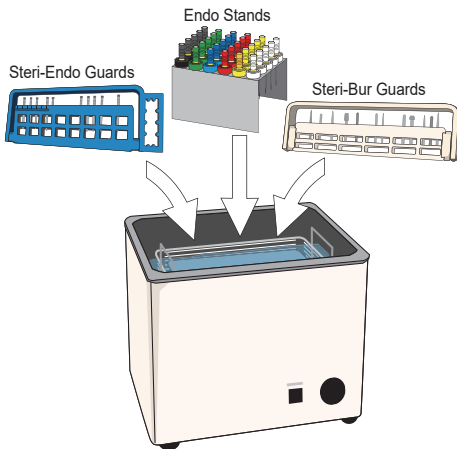
MANI reamers, files, and Dia-Burs are made of Stainless steel, which allows them to be autoclaved repeatedly.

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**.

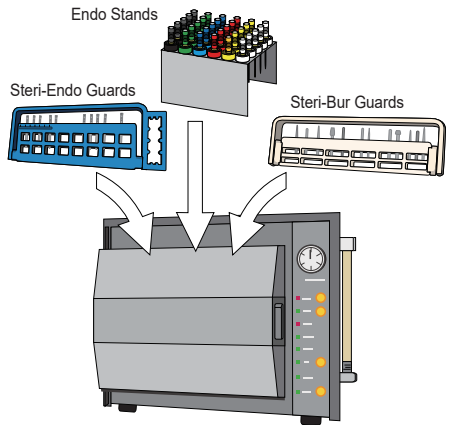


STEP 2

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 [21·25·28·31mm]
	K-Files	#06, #08, #45-80 [21·25·28·31mm]
	H-Files(*H-Files : #08-#140)	#90-140 [21·25·28·31mm]
	Medium-reamers, K-Files, H-Files	#12-37 [21·25mm]
	18mm Files(R, K, H)	#15-40
	NiTi H Files	#15-40 [21·25mm]
	SEC O-Files	#10-40 [21·25mm]
	K Type(#08-#80)	#08, #45-80 [21·25mm]
	H Type(#10-#80)	
	Flare Files	#15-60 [21·25mm]
	Medium Flare Files	#12-37 [21·25mm]
	NiTi Flare Files	#15-40 [21·25mm]
	Flexile Files	#15-40 [21·25mm]
	Medium Flexile Files	#12-37 [21·25mm]
	RT Files	#15-40 [21·25·28·31mm] #45-80 [21·25·28·31mm]
	D Finders	#08·#10·#12·#15 [21·25mm]
	Glide Finders	#08·#10·#12·#15 [21·25mm]
6 dozen (72 pcs in total)	Barbed Broaches	#000, #00, #0, #1, #2, #3 [52mm]
6 pcs/pack	Short Barbed Broaches	#1-6 [21mm]
6 dozen (72 pcs in total)	Square Broaches	#000, #00, #0, #1, #2, #3 [52mm]
6 pcs/pack	Engine Reamers	#10-50 [18·21·25·28mm]
	Super Files	#10-50 [18·21·25mm]
	U-Files	#10-50 [33mm]
3 pcs/pack	JIZAI Standard Kit	I·II·III (one each) [21·25·28·31mm]
	JIZAI GLIDER	#013 [21·25·28·31mm]
	JIZAI Individual Pack	#025·#030·#035·#040·#045·#050 [21·25·28·31mm] #025·#030·#035 [21·25·28·31mm]
	JIZAI Orifice Opener	#025 [18mm]
6 pcs/pack	Peeso Reamers	#1-6 [28·32·38mm]
	Gates Drills	
4 pcs/pack	Paste Carriers	#25-40 [21·25·29mm]
6 pcs/pack	Spreaders	#15-40 [21·25mm]
	Flare Finger Spreaders	#15-40 [21·25mm]
	Pluggers	#15-40 [21·25mm]
6 pcs/pack	MI Stainless Burs	#1/2-#8 (overall length: 22·28 mm)· #2, #6 (overall length: 34 mm)
	Hard Stainless Burs	#1/2-8 (overall length: 22·28 mm)
1 sheet (5 pcs/sheet)	Dia-Burs(FG)	445 types
	MI Dia-Burs	4 types
5 pcs/pack	IPR Dia-Burs	1 type
4 pcs/pack	Surgical Burs	#2, #330, #1557, #MZB+ [22·28 mm]
10 pcs/pack	Carbide Burs(FG)	61 types

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)×50(W)×62(L)mm; holds up to files
1 piece/pack	File Stands	Holds up to 30 files
2 pcs/pack	File Cleaners (with sponge)	30(H)×37(W)×46(L)mm
24 pcs/pack	Sponge (for Steri-Endo Guard)	18(H)×22(W)×46(L)mm
1 Stand	Steri-Endo Guards (with sponge)	Holds up to 16 files. Available in white, yellow, blue.
	Steri-Bur Guards	Holds up to 12 burs. Available in white, yellow, blue.
	Steri-Bur Guards 22	Holds up to 22 burs. Available in yellow, blue, Green.
	Magnetic Bur-Blocks	Holds up to 14 burs. Available in white and blue.
	Dia-Burs Stands	Holds up to 24 burs [38(H)×75(W)×60(L)mm]
60 pcs/pack	Silicone caps for Endo Stands	White, yellow, red, blue, green, black.
100 pcs/pack	Sponge (for File Cleaners)	5(H)×60(W)×70(L)mm
100 pcs/pack	Rubber stoppers	Available in blue, white, yellow, red, or black ▽ □ ○

