



# ENDODONTIC INSTRUMENTS

## HELIX™

## NICKEL TITANIUM ROTARY FILES

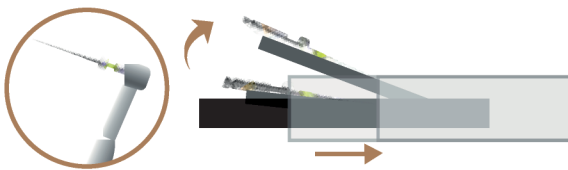
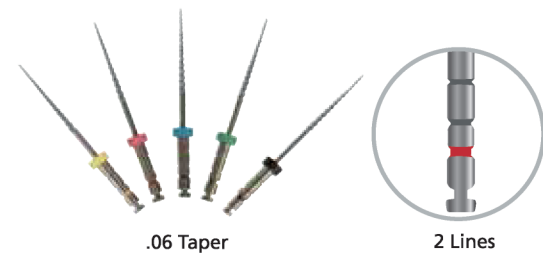
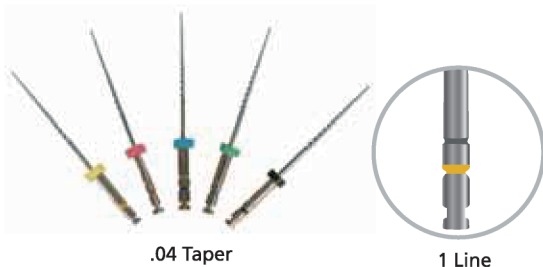


## Benefits

- Made of Superior Nickel Titanium Alloy for Engine Driven use.
- Specially designed for the crown-down technique.
- Offers a smooth and progressive enlargement of the canal.
- Helix NiTi Rotary Files help to ease around curved canals and make a tapered preparation.
- Helix NiTi Rotary Files use ISO Color identification and come in 21mm and 25mm lengths.
- With amazing flexibility, easily move through canals, especially severely curved canals.
- High resistance to cyclic fatigue and file separation.
- Offers outstanding flexibility, cutting ability and reduce user fatigue.
- Ergonomic handle provides comfort and excellent tactile feedback.
- Recommended Speed: 150~350r/min

## Direction

- ① Place #10 K-File to as far as it goes in the canal or to approximately Coronal 2/3rd. The file is preferably coated with Dia-Prep Pro (EDTA gel).
- ② Prepare Glide path with #15 K-file to the Level previously explored by #10 K- file.
- ③ Shape with Helix NiTi Rotary files #40 (Black ring) with 0.06 taper (2 lines) to Coronal 1/3rd to Coronal 2/3rd.
- ④ Additionally shape with Helix NiTi Rotary files #30 (Blue Ring) 0.06 taper to Coronal 2/3rd.
- ⑤ Explore with #8 K-File, #10 K-File to the Working Length determined with Apex Locator and X-ray.
- ⑥ Prepare Glide Path with #15 K-file to the Working Length.
- ⑦ Shape with Helix NiTi Rotary files #20 (Yellow ring) with 0.04 taper (1 line) to the Working Length.
- ⑧ Determine to what size Apical Shaping is needed.
- ⑨ Shape with Helix Rotary NiTi files #20, #25 or #30 with 0.04 or 0.06 Taper for final Apical Shaping.
- ⑩ Frequent irrigation with Sodium Hypochlorite solution and Lubrication with Dia-Prep Pro (EDTA Gel) throughout the Procedure is recommended.
- ⑪ Proceed to fit appropriate size of DiaDent Gutta Percha Points cones (Dia-ProT).



Size	21MM		25MM	
	.04	.06	.04	.06
#20	NT505-104	NT506-104	NT505-204	NT506-204
#25	NT505-105	NT506-105	NT505-205	NT506-205
#30	NT505-106	NT506-106	NT505-206	NT506-206
#35	NT505-107	NT506-107	NT505-207	NT506-207
#40	NT505-108	NT506-108	NT505-208	NT506-208
#20/35	NT505-193	NT506-193	NT505-293	NT506-293

(Pkg. of 6)

## HELIX ORGANIZER



## • ITEM #806-103 Red

## • ITEM #806-104 Blue

- Ideal for Organizing Helix Files
- Holds 10 Helix Files
- Removable insert for Cleaning
- Dimensions: 50 x 50 x 45mm(W x H x D)



## DIA-PT™ FILE &amp; DIA-X FILE

## NICKEL TITANIUM ROTARY FILES

- Superior Cutting Efficiency

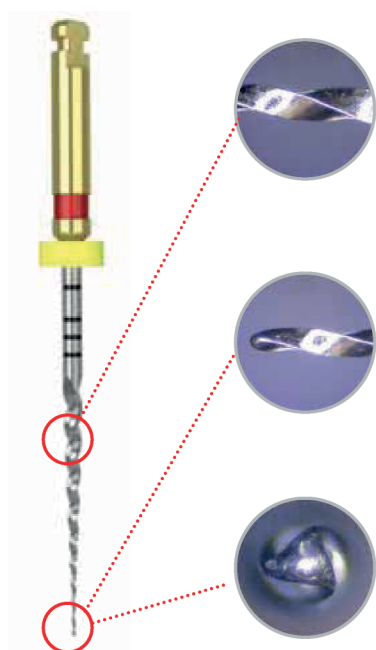
- Allows stronger and more sharp blades to more deeper in the canal
- A triangular cross section reduces contact with the canal wall

- High Flexibility

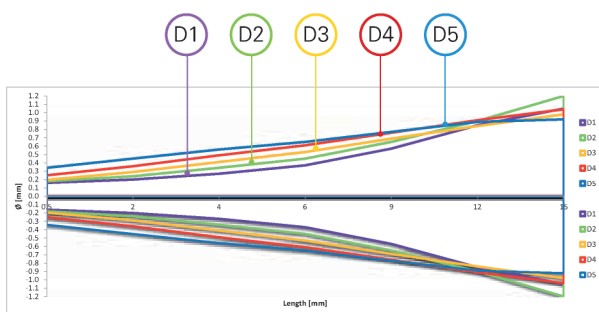
- Offers outstanding flexibility and reduces a user fatigue
- Has high corrosion resistance with a coated surface of files

- Short Shaping Time

- Decreases total shaping time versus a traditional rotary technique
- Easily shape in calcified or highly curved canals



## Rate of Taper

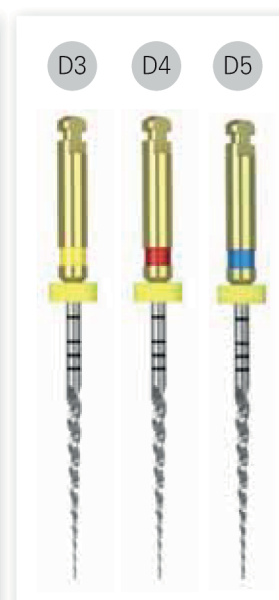


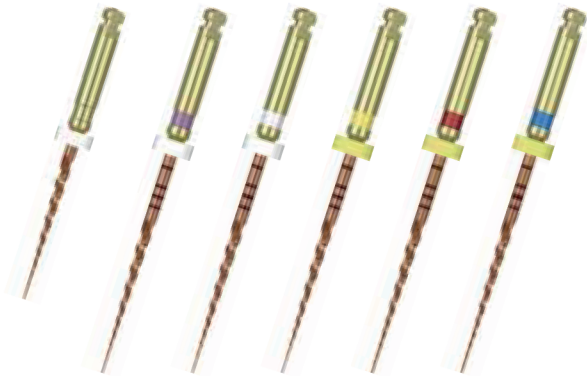
- Easy to confirm the size due to using Depth Markings and ISO color coded.
- Minimizes pressure to files with advanced stability.
- Improved performance for entering root canal and efficiently removable debris.
- Makes it excellent cutting.

## Shaping



## Finishing



**DIA-X FILE****NICKEL TITANIUM ROTARY FILES WITH GOLD HEAT TREATMENT****NEW****DX****D1****D2****D3****D4****D5**

Dia-X File is the nickel titanium rotary files with **Gold Heat Treatment** can be achieved greater flexibility than other Nickel Titanium Files and offer smoother and safer progression in the root canal.

The fracture resistance has been increased 143% after Gold Heat Treatment.

Size	19MM	21MM	25MM
#DX	571-100		
#D1		571-101	571-201
#D2		571-102	571-202
#D3		571-103	571-203
#D4		571-104	571-204
#D5		571-105	571-205
#Asst D1/D4		571-191	571-291

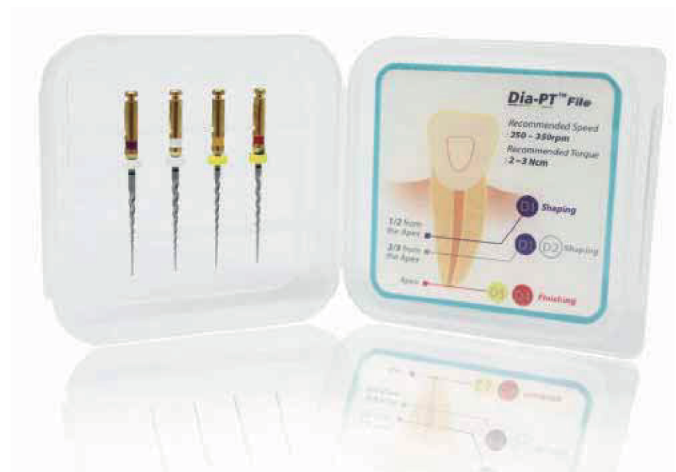
(Pkg. of 4)

**DIA-PT™ FILE****NICKEL TITANIUM ROTARY FILES**

Dia-PT™ File ensures rapid and high quality canal shaping with new cutting efficiency. The difference of Dia-PT™ File nickel-titanium rotary files with a uniform shape can be achieved superior flexibility and precision for successful procedures.

Size	19MM	21MM	25MM
#DX	561-100		
#D1		561-101	561-201
#D2		561-102	561-202
#D3		561-103	561-203
#D4		561-104	561-204
#D5		561-105	561-205
#Asst D1/D4		561-191	561-291

(Pkg. of 4)

**FILE HAND GRIP****NEW**• **ITEM #702-101**

- Designed to use Dia-PT™ File and Dia-X File for the Hand Use.
- Autoclavable
- Packed 4pcs





## DIA-PT™ FILE &amp; DIA-X FILE

## NICKEL TITANIUM ROTARY FILES

## INSTRUCTION

DX

- Check the working length with X-ray.
- Prepare the straight-line access to canal orifice.

D1

- The D1 expands the glide path and enlarges to widen the coronal portion of canal. Always irrigate the canal with NaOCl before engaging the file. Gently work D1 until a smooth glide path is confirmed.
- The D1 into the canal and follow the glide path and laterally brush before light resistance is appeared. And cut dentin on the outstroke to improve straight-line access and apical progression.
- Continue shaping and brushing with the D1 until the depth of the #15 hand file is reached.
- Check the working length with the #15 hand file and Apex locator.

D1

D2

- The D2 enlarges to the apical 2/3.
- Use D1 or D2 until working length is reached with a brushing action.
- Confirm working length frequently as shaping the severely curved canals.

D3

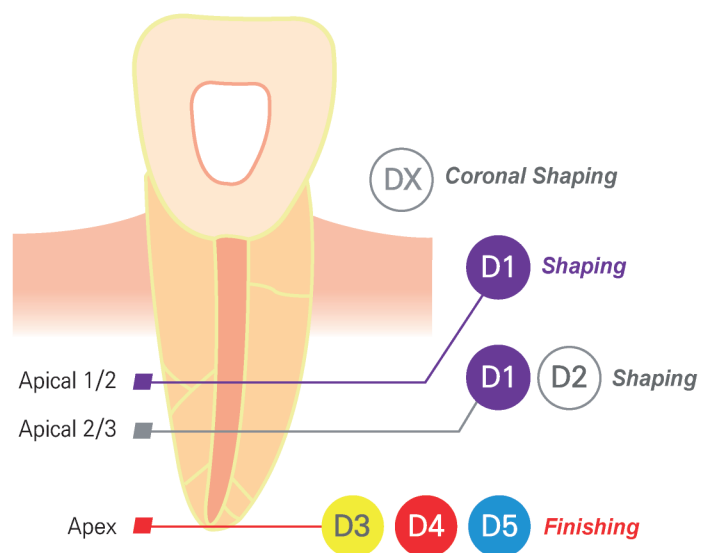
D4

D5

- Use D3 as an In-and-out Pecking Motion until the depth of the #20 hand file is reached.
- If the #20 hand file is loose at length, proceed to the D4 with corresponding the #25 hand file.
- If the #25 hand file is loose at length, proceed to the D5 with corresponding the #30 hand file.

***Dia-PT™ File & DIA-X File***

- RECOMMENDED SPEED : 250~350RPM
- RECOMMENDED TORQUE : 2~3 NCM

**TIP**

- Inspect files for distortion or wear, such as uneven flutes, dull spots or bending.
- Lubricate files generously with DIAPREP™ PRO
- Remove the debris from its flutes before continuing.
- Irrigate and re-irrigate after using each rotary file.
- Dia-PT™ file & Dia-X File should be used at a constant rotation and stable speed of 300 rpm to avoid the file fracture.
- Use very light pressure. Never force instruments to working length.
- Use the files for no more than one or two seconds in the canal.
- Autoclave files always after use.

## DIA-PT™ FILE &amp; DIA-X FILE

## NICKEL TITANIUM ROTARY FILES

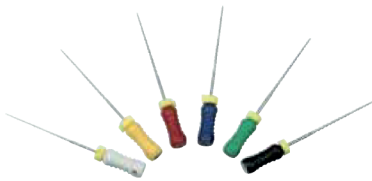
## CLINICAL PROCESS

## ACCESS/SHAPE

DX



HAND FILES



Shaping

D1



D2



## ENLARGE CANAL

DIA-PT™ FILE &amp; DIA-X FILE

Finishing

D3



D4



D5



## CLEANING/OBTURATION

DIA-PROT PAPER POINTS

Size : F1



Size : F2



Size : F3



DIA-PROT PLUS GUTTA PERCHA POINTS

Size : F1



Size : F2



Size : F3



## Radiographs

Precisely shaped and sealed root canals after the treatment with Dia-PT™ File & DIA-X File.

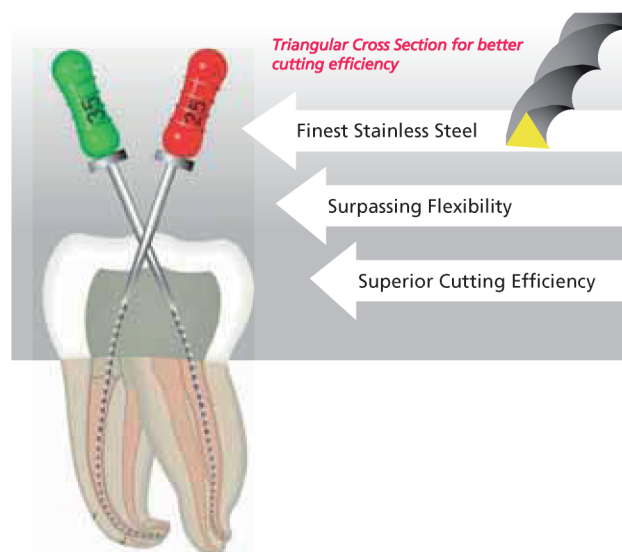


## DIA-FLEX FILE



- Made of high-quality Stainless Steel for creating a more fracture-resistant shape and edge
- Enables a complete preparation of even severely curved and narrow canals
- Offers better Cutting Power and Flexibility to shape any root canals easily, safely and very fast
- Available in Sizes 15 through 40 and 21mm, 25mm and 31mm lengths

## FLEXIBLE K-FILE



Size	21MM	25MM	31MM
#15	505-103	505-203	505-303
#20	505-104	505-204	505-304
#25	505-105	505-205	505-305
#30	505-106	505-206	505-306
#35	505-107	505-207	505-307
#40	505-108	505-208	505-308
#15/40	505-191	505-291	505-391

(Pkg. of 6)

## DIA-SPIRAL FILLER

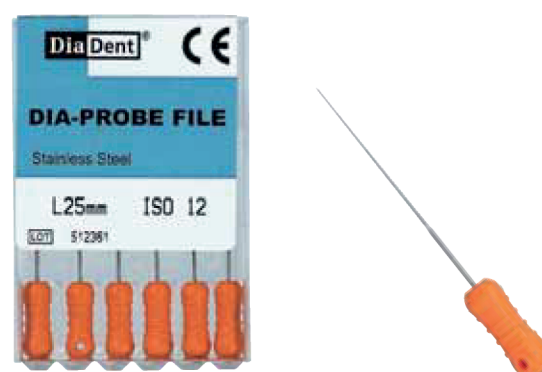


- Lentulo Paste filler used to evenly distribute root canal sealer and cement in the root canal system
- Conical shape made from grinded wire and made of high grade stainless steel with gradual spirals
- Rather stiff without the safety spiral
- Available in Sizes 25 to 40 and 21mm, 25mm lengths

Size	21MM	25MM
#25	507-105	507-205
#30	507-106	507-206
#35	507-107	507-207
#40	507-108	507-208
#25/40	507-191	507-291

(Pkg. of 4)

## DIA-PROBE FILE



- Canal Probe
- The minimal taper helps to perform intermediate steps in the calcified or curved canals
- Available in Size #12 and 21mm, 25mm lengths

Size	21MM	25MM
#12	506-101	506-201

(Pkg. of 6)

## GATE DRILLS

- Used for time-saving preparation of the upper and middle part of non-curved canal or the straight part of curved canal effectively and creating the excellent access for Reamers and Files.
- Enlarge the straight coronal portion of the canal with Gate Drills and then step down with Endodontic Files using the biggest size firstly as the Crown Down Technique.
- Superior Stainless Steel with the improved cutting capacity.
- Circle ring is coded on the shank.
- Recommended Speed: 800~1200r/min

Size	28mm	32mm
#1	531-101	531-201
#2	531-102	531-202
#3	531-103	531-203
#4	531-104	531-204
#5	531-105	531-205
#6	531-106	531-206
#Asst1/6	531-191	531-291

(Pkg. of 6)



## PEESO REAMERS

- Used for the preparation of coronal third and picking up the fillings inside the root canal.
- Often used for the post path.
- Excellent stainless steel with a sharper blade to provide the rapid enlargement.
- Circle ring is coded on the shank.
- Recommended speed: 800~1200r/min

Size	32mm
#1	541-201
#2	541-202
#3	541-203
#4	541-204
#5	541-205
#6	541-206
#Asst1/6	541-291

(Pkg. of 6)



## ENDODONTIC NICKEL TITANIUM HAND FILES/PLASTIC PACKAGE

### Increased Flexibility

: NiTi Shaft is made of premium Nickel-Titanium with 5 times the flexibility compared to Stainless Steel Files.

### Strength

: NiTi has 10 times the stress resistance compared to Stainless Steel Files.

### Convenience

: Produces smooth and progressive enlargement of root canal. NiTi follow existing canal path and has memory so there is no need to Pre-Bend the files.

### Efficiency

: Color Coded handles and pre-inserted silicone stops.

### Safety

: NiTi resists spontaneous breakage.  
Increased angular rotation reduces fracture.  
NiTi decreases zipping and stripping.



### NITI REAMERS



NICKEL-TITANIUM REAMERS(.02 TAPER)

size	21MM	25MM
#8	NT501-101	NT501-201
#10	NT501-102	NT501-202
#15	NT501-103	NT501-203
#20	NT501-104	NT501-204
#25	NT501-105	NT501-205
#30	NT501-106	NT501-206
#35	NT501-107	NT501-207
#40	NT501-108	NT501-208
#45	NT501-109	NT501-209
#50	NT501-110	NT501-210
#55	NT501-111	NT501-211
#60	NT501-112	NT501-212
#70	NT501-113	NT501-213
#80	NT501-114	NT501-214
#15/40	NT501-191	NT501-291
#45/80	NT501-192	NT501-292

(Pkg. of 6)



### NITI K-FILES



NICKEL-TITANIUM K-FILES(.02 TAPER)

size	21MM	25MM
#8	NT502-101	NT502-201
#10	NT502-102	NT502-202
#15	NT502-103	NT502-203
#20	NT502-104	NT502-204
#25	NT502-105	NT502-205
#30	NT502-106	NT502-206
#35	NT502-107	NT502-207
#40	NT502-108	NT502-208
#45	NT502-109	NT502-209
#50	NT502-110	NT502-210
#55	NT502-111	NT502-211
#60	NT502-112	NT502-212
#70	NT502-113	NT502-213
#80	NT502-114	NT502-214
#15/40	NT502-191	NT502-291
#45/80	NT502-192	NT502-292

(Pkg. of 6)



### NITI H-FILES



NICKEL-TITANIUM H-FILES(.02 TAPER)

size	21MM	25MM
#8	NT503-101	NT503-201
#10	NT503-102	NT503-202
#15	NT503-103	NT503-203
#20	NT503-104	NT503-204
#25	NT503-105	NT503-205
#30	NT503-106	NT503-206
#35	NT503-107	NT503-207
#40	NT503-108	NT503-208
#45	NT503-109	NT503-209
#50	NT503-110	NT503-210
#55	NT503-111	NT503-211
#60	NT503-112	NT503-212
#70	NT503-113	NT503-213
#80	NT503-114	NT503-214
#15/40	NT503-191	NT503-291
#45/80	NT503-192	NT503-292

(Pkg. of 6)

## ENDO STOPS



Available Round Type.  
100 Stops per poly bag.



WET-HEAT  
AUTOCLAVE



ALUMINIUM



STAINLESS  
STEEL



PLASTIC



SILICONE

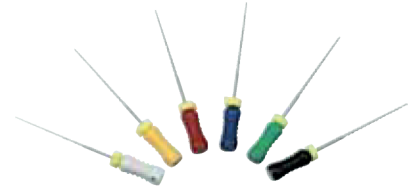


GLASS

White	701-101
Yellow	701-102
Red	701-103
Blue	701-104
Green	701-105
Black	701-106
Assorted	701-191

## ENDODONTIC STAINLESS STEEL HAND FILES

- Root canal cleaning and shaping instruments
- Offers superior cutting efficiency on insertion and withdrawal and procession handling
- Ergonomic color coded handle provides comfort and excellent tactile feedback
- Available in sizes 8 through 80 and 21mm, 25mm & 31mm lengths



### REAMERS



- Made from Stainless Steel wire that is ground to triangular shape and twisted

size	21MM	25MM	31MM
# 8	SS501-101	SS501-201	SS501-301
# 10	SS501-102	SS501-202	SS501-302
# 15	SS501-103	SS501-203	SS501-303
# 20	SS501-104	SS501-204	SS501-304
# 25	SS501-105	SS501-205	SS501-305
# 30	SS501-106	SS501-206	SS501-306
# 35	SS501-107	SS501-207	SS501-307
# 40	SS501-108	SS501-208	SS501-308
# 45	SS501-109	SS501-209	SS501-309
# 50	SS501-110	SS501-210	SS501-310
# 55	SS501-111	SS501-211	SS501-311
# 60	SS501-112	SS501-212	SS501-312
# 70	SS501-113	SS501-213	SS501-313
# 80	SS501-114	SS501-214	SS501-314
# 15/40	SS501-191	SS501-291	SS501-391
# 45/80	SS501-192	SS501-292	SS501-392

(Pkg. of 6)

### K-FILES



- Designed to clean and shape root canals
- Produced to give operators a smooth tactile sense inside the canal during instrument

size	21MM	25MM	31MM
# 8	SS502-101	SS502-201	SS502-301
# 10	SS502-102	SS502-202	SS502-302
# 15	SS502-103	SS502-203	SS502-303
# 20	SS502-104	SS502-204	SS502-304
# 25	SS502-105	SS502-205	SS502-305
# 30	SS502-106	SS502-206	SS502-306
# 35	SS502-107	SS502-207	SS502-307
# 40	SS502-108	SS502-208	SS502-308
# 45	SS502-109	SS502-209	SS502-309
# 50	SS502-110	SS502-210	SS502-310
# 55	SS502-111	SS502-211	SS502-311
# 60	SS502-112	SS502-212	SS502-312
# 70	SS502-113	SS502-213	SS502-313
# 80	SS502-114	SS502-214	SS502-314
# 15/40	SS502-191	SS502-291	SS502-391
# 45/80	SS502-192	SS502-292	SS502-392

(Pkg. of 6)

### H-FILES



- Ground from Stainless Steel wire
- The flute depth increases with the taper, creating a shaper, more flexible instrument

size	21MM	25MM	31MM
# 8	SS503-101	SS503-201	SS503-301
# 10	SS503-102	SS503-202	SS503-302
# 15	SS503-103	SS503-203	SS503-303
# 20	SS503-104	SS503-204	SS503-304
# 25	SS503-105	SS503-205	SS503-305
# 30	SS503-106	SS503-206	SS503-306
# 35	SS503-107	SS503-207	SS503-307
# 40	SS503-108	SS503-208	SS503-308
# 45	SS503-109	SS503-209	SS503-309
# 50	SS503-110	SS503-210	SS503-310
# 55	SS503-111	SS503-211	SS503-311
# 60	SS503-112	SS503-212	SS503-312
# 70	SS503-113	SS503-213	SS503-313
# 80	SS503-114	SS503-214	SS503-314
# 15/40	SS503-191	SS503-291	SS503-391
# 45/80	SS503-192	SS503-292	SS503-392

(Pkg. of 6)

### BARBED BROACHES



- Designed to remove pulp tissue
- Put it straight into the root canal, rotation at 180° and pull out



size	21MM	25MM
#20(XXXXF)	504-001	504-201
#25(XXF)	504-002	504-202
#30(XXF)	504-003	504-203
#35(XF)	504-004	504-204
#40(F)	504-005	504-205
#25/40(XXF/F)	504-092	504-292

(Pkg. of 6)



## SPREADER



- Used for the lateral condensation of root canal fillings.
- Made of Stainless Steel.
- High Resistance to wear and Excellent Cutting Efficiency.
- 6pcs in a blister package

size	21MM	25MM
#15	520-103	520-203
#20	520-104	520-204
#25	520-105	520-205
#30	520-106	520-206
#35	520-107	520-207
#40	520-108	520-208
#15/40	520-191	520-291

## PLUGGER



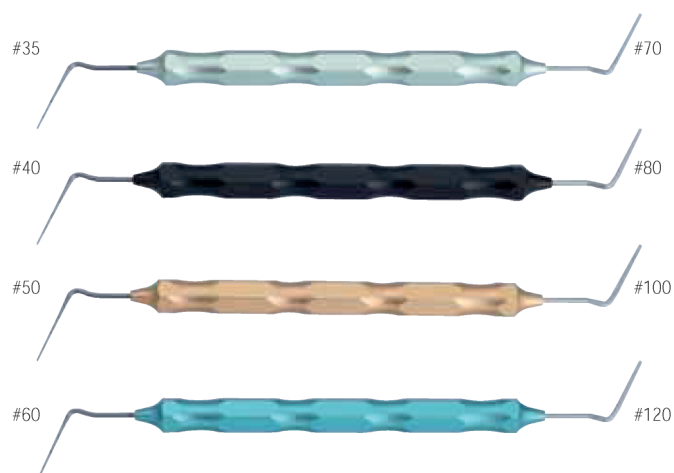
- Used for the vertical condensation of root canal fillings.
- Made of Stainless Steel.
- High Resistance to wear and Excellent Cutting Efficiency.
- 6pcs in a blister package

size	21MM	25MM
#15	521-103	521-203
#20	521-104	521-204
#25	521-105	521-205
#30	521-106	521-206
#35	521-107	521-207
#40	521-108	521-208
#15/40	521-191	521-291

## DIA-KONDENSOR

- Having both a nickel-titanium end and a stainless steel end, it can be used in any common endodontic obturation technique including warm and cold condensation.
- Excellent durability.
- Can be supplied 1 piece or a set included each 4 sizes.
- Convenient use with color-coding on the condensers.
- Lightweight and comfort design

size	ITEM No.
#35/70(Green)	551-101
#40/80(Black)	551-102
#50/100(Yellow)	551-103
#60/120(Blue)	551-104
Set (4pcs)	551-191



## DIA-ENDORING

## • ITEM #850-001



- A convenient ring for Hand & Rotary Files.
- Gauges from 1 to 30mm.
- A simple & practical design for measuring files.
- Gold plated ring prevents color change.
- Dimension: 45 × 25 × 15m/m (W × H × D)

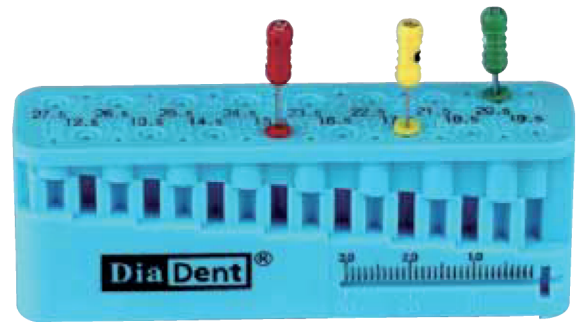


## FILE MEASURE SET(PLASTIC)

## • ITEM #780-001



- Holds 32 Measuring Grades.
- Gauge from 12 to 27.5m/m, Including half measurements.
- Dimensions: 87 × 31 × 20m/m (W × H × D)



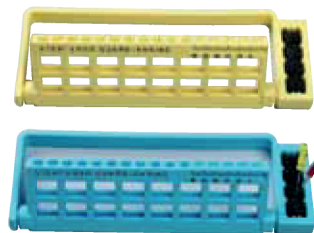
## STERI ENDO GUARD W/RULER(ENGINE FILE)

## • ITEM #716-203 Yellow

## • ITEM #716-206 Blue



- Holds 16 NiTi Rotary Files.
- Right or left hand use.
- Available to insert sponge to clean or hold files.
- Diameter: 75m/m, Height: 35m/m



## DIAFLEX™

## IRRIGATION SYRINGE FOR ROOT CANAL



- Flexible soft polypropylene tip syringe for root canal irrigation.
- Autoclavable and chemoclavable for multiple use up to 50 times.
- 1.3ml volume imprinted at intervals of 1mm.
- Provides maximum clinical effect in a minimum of time.
- DiaFlex is compatible with Luer Lock Syringes.

## DiaFlex - III

## • ITEM #1003-301

- Package of 3 color coded syringes, 20 changeable tips and silicone oil

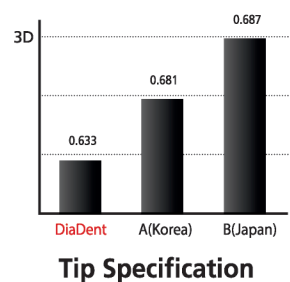
## DiaFlex - V

## • ITEM #1003-501

- Package of 5 color coded syringes, 20 changeable tips and silicone oil

## • ITEM #1001-320 (From 2019)

- 20 transparent disposable tips.



Tip Specification

WET-HEAT  
AUTOCLAVE

ALUMINIUM

STAINLESS  
STEEL

PLASTIC



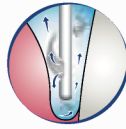
SILICONE



GLASS

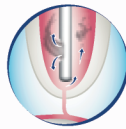
## STERI. IRRIGATION TIPS-SIDE OPEN TYPE

- Disposable Endodontic & Periodontal Irrigation Tips with Safety.
- Unique design with a side-port for superior effectiveness and patient comfort in irrigating root canals and periodontal pockets.
- Pre-sterilized by E.O Gas.
- Use with Luer Lock Syringes.
- Side-Port and Closed-end Irrigation tips.



### PERIODONTAL POCKETS

- Side-port design make an effective irrigate pockets and closed, rounded tip can reduce the risk of tissue damage.

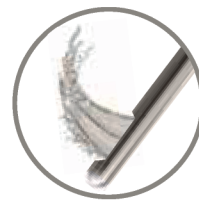
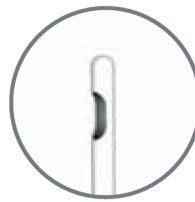


### ROOT CANALS

- Side-port dispersal can create an upward flushing motion for the complete root canal preparations and cleanse the gingival sulci fully without damaging tissue.

size	Color	ITEM No.
31G (0.25 x 25mm)	Clear White	951-101A
30G (0.30 x 25mm)	Yellow	951-102A
28G (0.36 x 25mm)	Blue Green	951-103A

(Pkg. of 50)



31G 30G 28G

## IRRIGATION TIPS-END OPEN TYPE



- Disposable Endodontic & Periodontal Irrigation tips
- Use with Luer Lock Syringes.
- Thoroughly irrigate root canal preparations.
- Round end tip can prevent the secondary injury during the use.
- Widest selection of tips: 6 sizes from 18G to 27G.

size	Color	ITEM No.
18G (1.2 x 25mm)	Pink	951-201A
19G (1.1 x 25mm)	Cream	951-202A
20G (0.9 x 25mm)	Yellow	951-203A
22G (0.7 x 25mm)	Black	951-204A
25G (0.5 x 25mm)	Orange	951-205A
27G (0.4 x 25mm)	Medium Grey	951-206A

(Pkg. of 100)

