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WOODPECKER®

DTE®

CE 0197

# Endodontic Tip Book



# Contents

## Root canal irrigation

Dimensions Unit: mm


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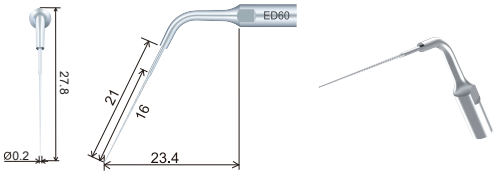
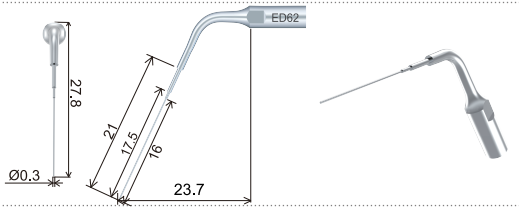
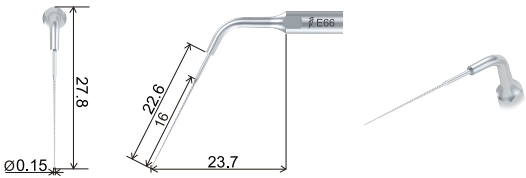
| ED60 |  | 1 |
| ED62 |  | 2 |
| E66 |  | 3 |
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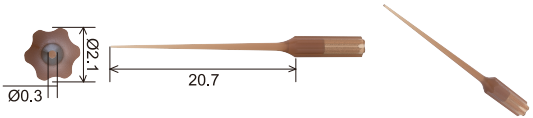
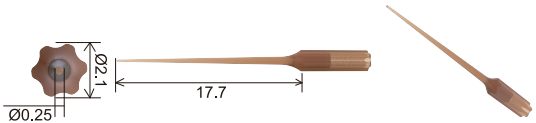
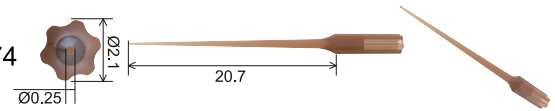
| E72 |  | 5 |
| E73 |  | 6 |
| E74 |  | 7 |

# Root canal foreign bodies removal

Dimensions Unit: mm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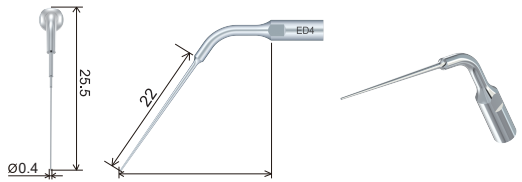
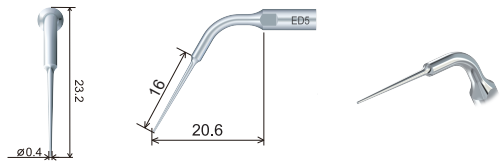
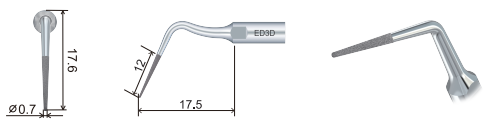
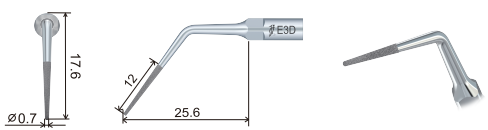
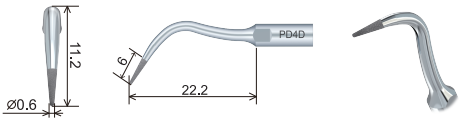
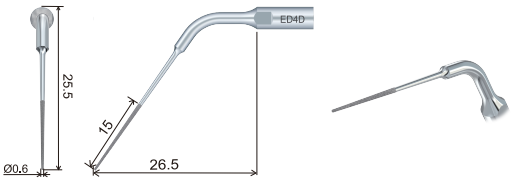
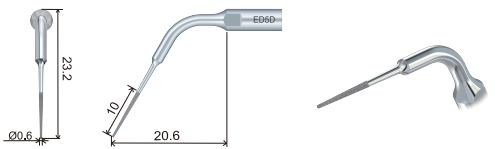
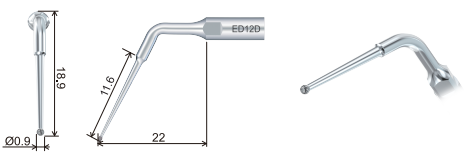
| ED4 |  | 8 |
| ED5 |  | 9 |
| ED3D |  | 10 |
| E3D |  | 11 |
| PD4D |  | 12 |
| ED4D |  | 13 |
| ED5D |  | 14 |
| ED12D |  | 15 |

# Root canal foreign bodies removal

Dimensions Unit: mm

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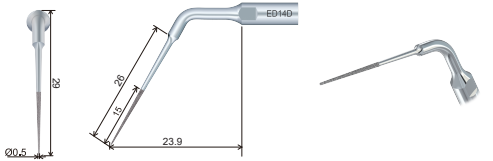
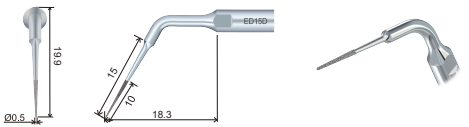
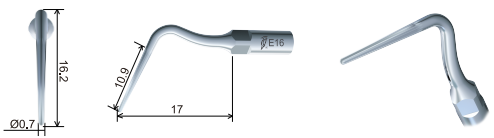
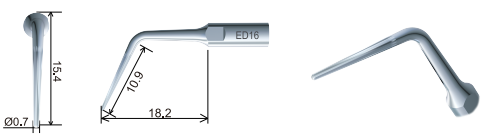
| ED14D |  | 16 |
| ED15D |  | 17 |
| E16 |  | 18 |
| ED16 |  | 19 |

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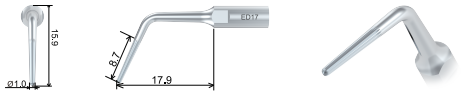
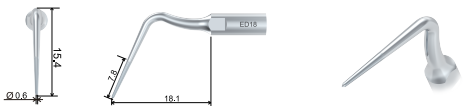
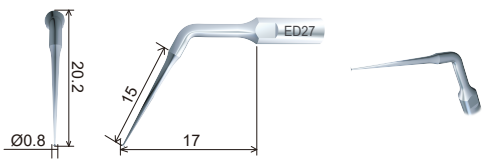
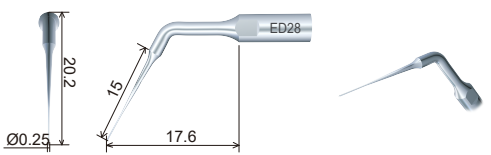
| ED17 |  | 20 |
| ED18 |  | 21 |
| ED27 |  | 22 |
| ED28 |  | 23 |

## Root canal filling

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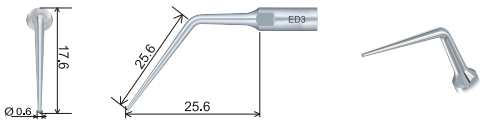
ED3 

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## Endo adapter

E1 

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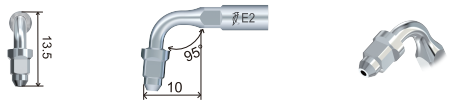
E2 

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## Endo adapter

Dimensions Unit: mm

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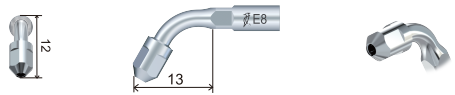
E8 

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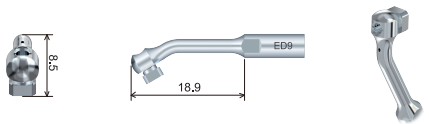
ED9 

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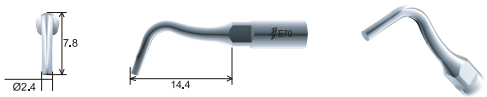
E70 

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# Broken instrument removal

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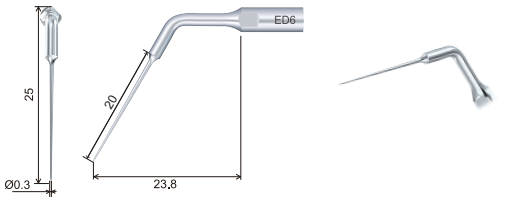
## ED6

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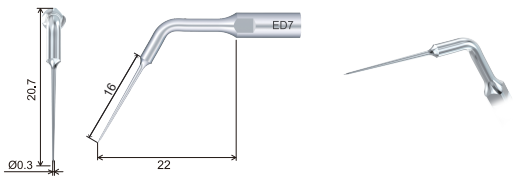
## ED7

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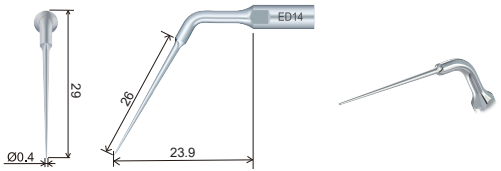
## ED14

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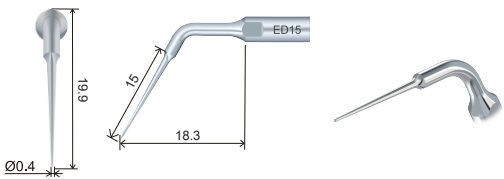
## ED15

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# Broken instrument removal

Dimensions Unit: mm

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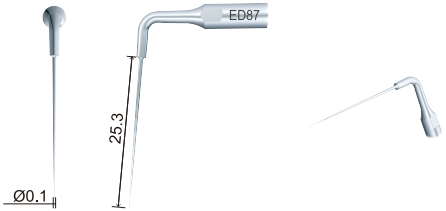
## ED87

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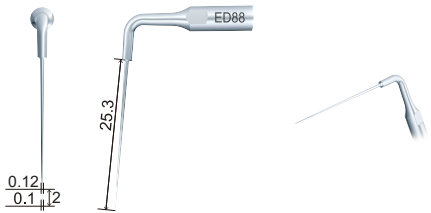
## ED88

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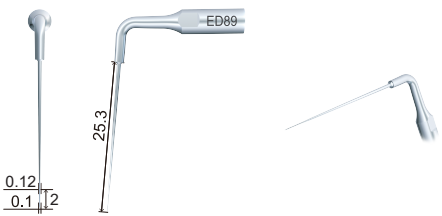
## ED89

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# Retropreparation

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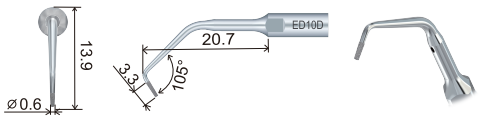


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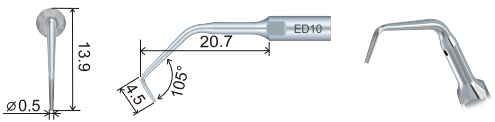
## ED10

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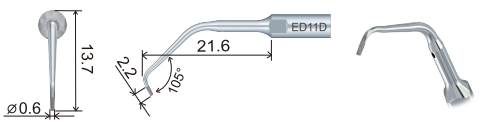


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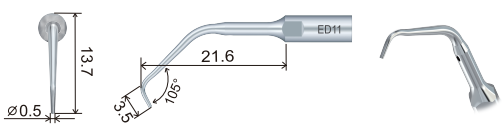


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# Retropreparation

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## ED19D




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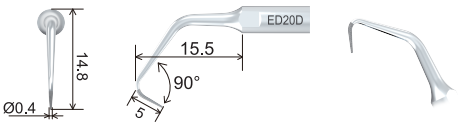
## ED20D

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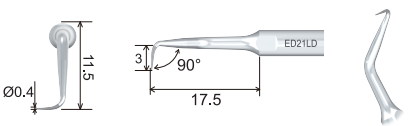
## ED21LD

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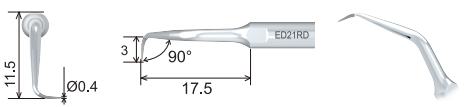


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## Retropreparation

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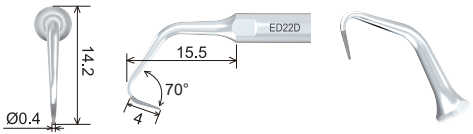
**ED22D** 

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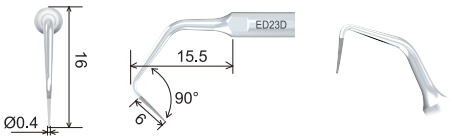
**ED23D** 

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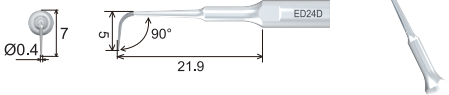
**ED24D** 

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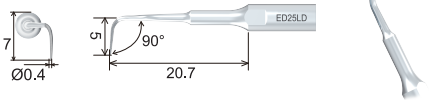
**ED25LD** 

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## Retropreparation

Dimensions Unit: mm

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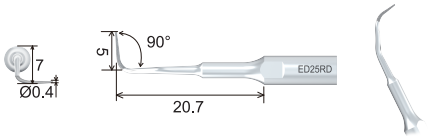
**ED25RD** 

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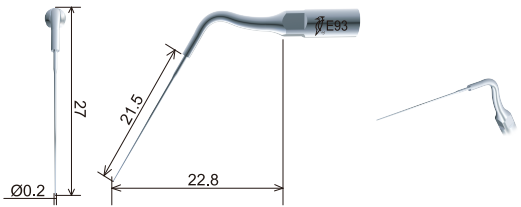
## Root canal irrigation

(Only suitable for Ultrasonic Endo Activate Device)

**E93** 

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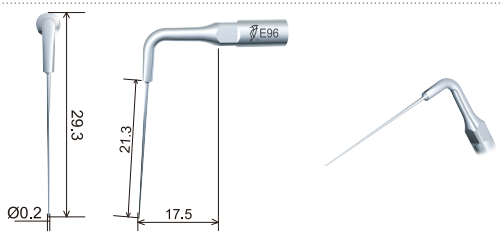
**E96** 

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# Root canal irrigation

(Only suitable for Ultrasonic Endo Activate Device)

Dimensions Unit: mm

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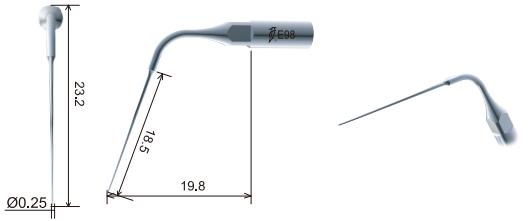
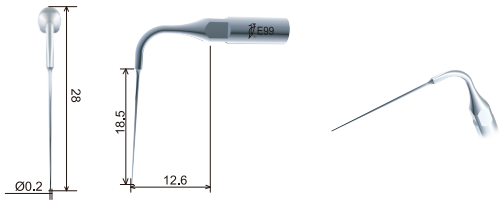
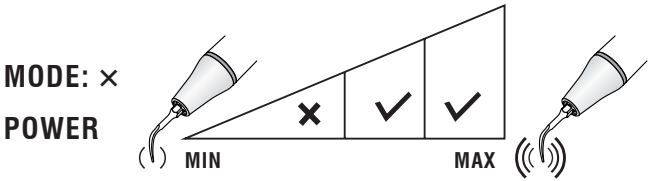
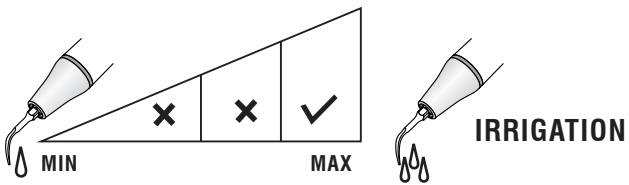
| E98 |  | 52 |
| E99 |  | 53 |




Meaning of the above symbols:
Mode X indicates that the tip should be used in X mode of the scaler.

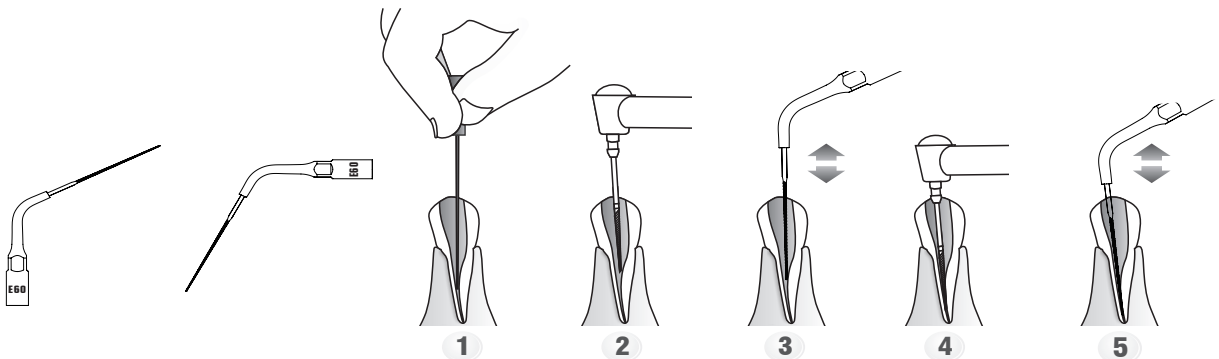
Power
The first grid indicates that the power is 0-30% of the power in the X mode of the scaler.
The second grid indicates that the power is 30% -60% of the power in the X mode of the scaler.
The third grid indicates that the power is 60% -100% of the power in the X mode of the scaler.




Meaning of the above symbols:
Water volume
The first grid indicates that the water volume is 0-30%.
The second grid indicates that the water volume is 30% -60%.
The third grid indicates that the water volume is 60% -100%.

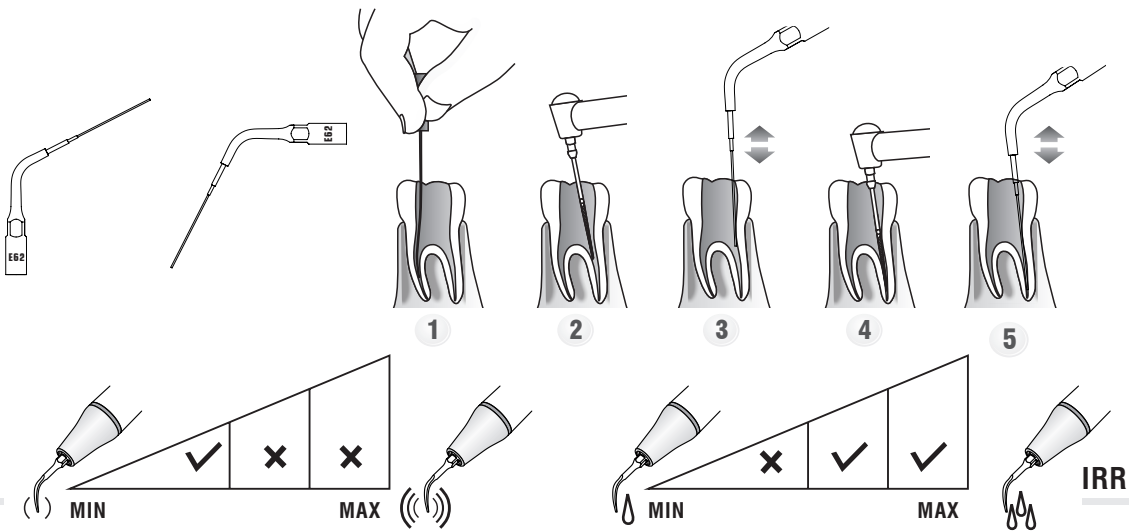
# **E60**(ED60)

Features: Minimally invasive irrigation; the working part is spiral but not sharp, with basically no cutting ability, effectively avoiding the root canal shape from being destroyed, bringing efficient and safe operation.
Irrigating operation: Put the irrigating tip into the root canal, try to keep the tip unstressed, start the device for 20 seconds and then stop to clean the root canal. Generally, a root canal needs to be irrigated 3×20 seconds.
Recommended service life: 30 ~ 50 root canals
Note: (1) In order to ensure the service life of the tip, it is recommended to use it according to the recommended method: first perform the external debugging, start the foot pedal under power level 1, ensure the water output is normal, and adjust the power within the power level limit (level 1~6) according to individual need to ensure that the water output can reach the tip end (the water can reach the tip end through adjusting water volume). After all the above steps, start root canal irrigation.
(2) During irrigation, in order to avoid instrument fracture, please prevent tip from getting stuck and vibrating in root canal.



## **E62**(ED62)

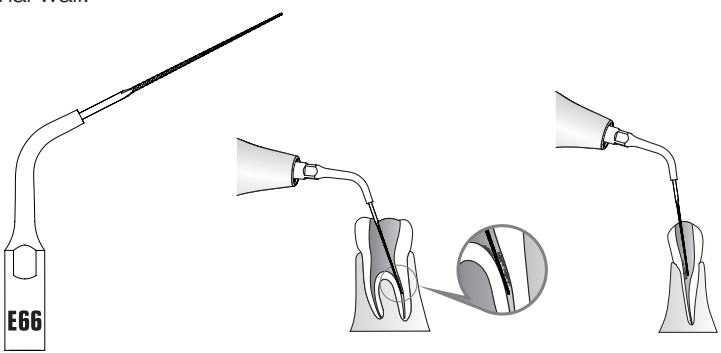
Function: Used for irrigation of root canal after root canal preparation.
Dimensions: Ô0.3mm; taper 0%. Working part length: 16mm
Features: Minimally invasive irrigation; the surface of working part is smooth, with cutting ability, effectively avoiding the root canal shape from being destroyed, bringing safer operation.
Irrigating operation: Put the irrigating tip into the root canal, try to keep the needle unstressed, start the device for 20 seconds and then stop to clean the root canal. Generally, a root canal needs to be irrigated 3×20 seconds.
Recommended service life: 30 ~ 50 root canals
Note: (1) In order to ensure the service life of the tip, it is recommended to use it according to the recommended method: first perform the external debugging, start the foot pedal under power level 1, ensure the water output is normal, and adjust the power within the power level limit (level 1~3) according to individual need to ensure that the water output can reach the tip end (the water can reach the tip end through adjusting water volume). After all the above steps, start root canal irrigation.
(2) During irrigation, in order to avoid instrument fracture, please prevent tip from getting stuck and vibrating in root canal.



# E66

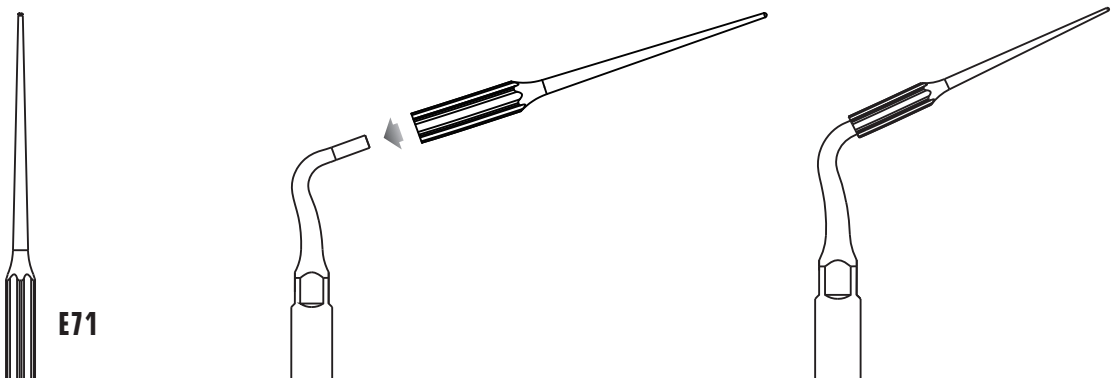
Function: Used for irrigation of root canal after root canal preparation, so as to rinse out the debris. Dimensions: Diameter of file tip: Ô0.15mm; taper 2%; length of thread working part: 16mm

Features: The working part has a sharp K-shaped spiral shape, which has strong cutting ability. It can effectively clean out the debris in root canal by using it under low power. Recommended service life: 30~50 root canals Note: (1) In order to ensure the service life of the tip, it is recommended to use it according to the recommended method: first perform the external debugging, start the foot pedal under power level 1, ensure the water output is normal, and adjust the power (level 1~3) according to individual need to ensure that the water output can reach the tip end (the water can reach the tip end through adjusting water volume). After all the above steps, start root canal irrigation. (2) During irrigation, in order to avoid instrument fracture, please prevent tip from getting stuck and vibrating in root canal. (3) The top edge of ED66 tip is sharp. Please pay special attention to the operation at high power during the irrigation. Otherwise it will cause non-therapeutic damage to the root canal wall.



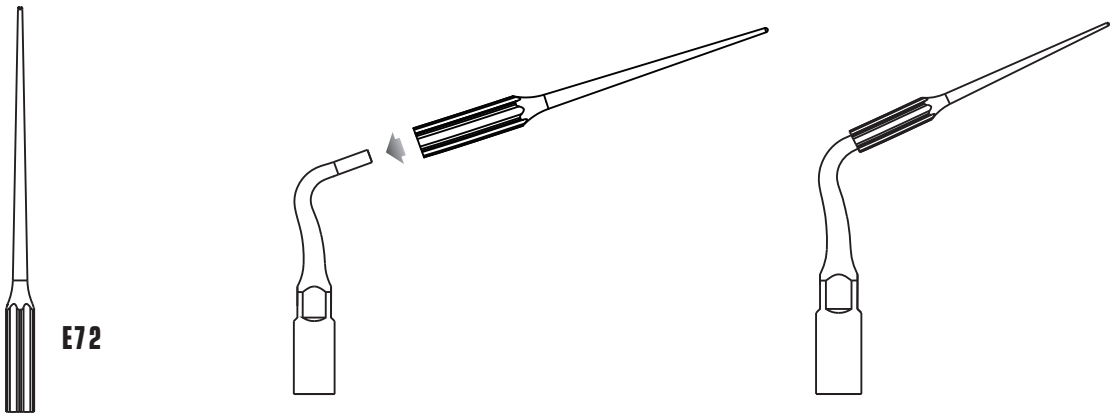
# E71

Used for root canal irrigation after the root canal preparation. Autoclavable. The working part is made of polymer material with no cutting ability, which effectively prevents the root canal morphology from being damaged. At the same time, the problem of instrument separation can be solved effectively and safely.Power level 1-3 in E mode of Ultrasonic Scaler. Put the irrigation tip into the root canal (make sure that there is solution in the root canal as much as possible), start the machine, and lift the tip up and down in a small range for irrigation (ensure that the tip end be located below the root canal orifice). After 20 seconds, stop for root canal cleaning. Generally, a root canal needs to be irrigated for 3 times, 20 seconds each time. One tip can be used for the treatment of maximum 6 root canals.



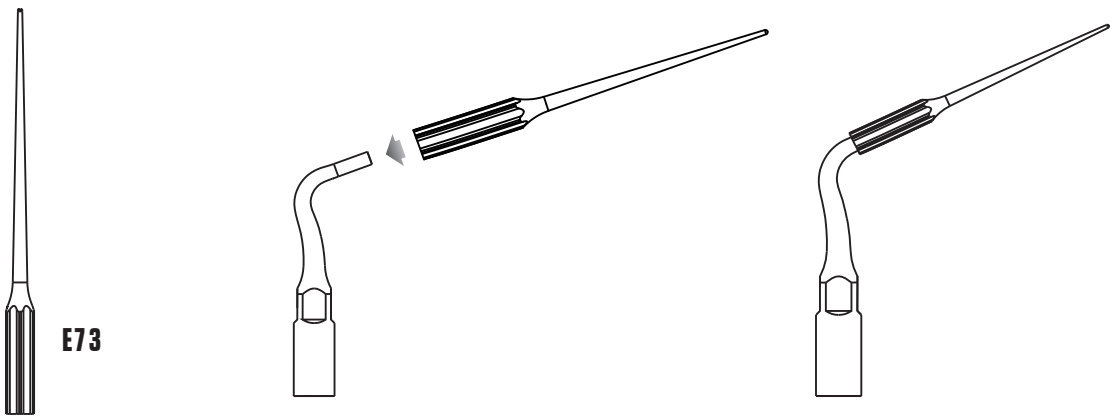
# E72

Used for root canal irrigation after the root canal preparation. Autoclavable. The working part is made of polymer material with no cutting ability, which effectively prevents the root canal morphology from being damaged. At the same time, the problem of instrument separation can be solved effectively and safely.Power level 1-3 in E mode of Ultrasonic Scaler. Put the irrigation tip into the root canal (make sure that there is solution in the root canal as much as possible), start the machine, and lift the tip up and down in a small range for irrigation (ensure that the tip end be located below the root canal orifice). After 20 seconds, stop for root canal cleaning. Generally, a root canal needs to be irrigated for 3 times, 20 seconds each time. One tip can be used for the treatment of maximum 6 root canals.



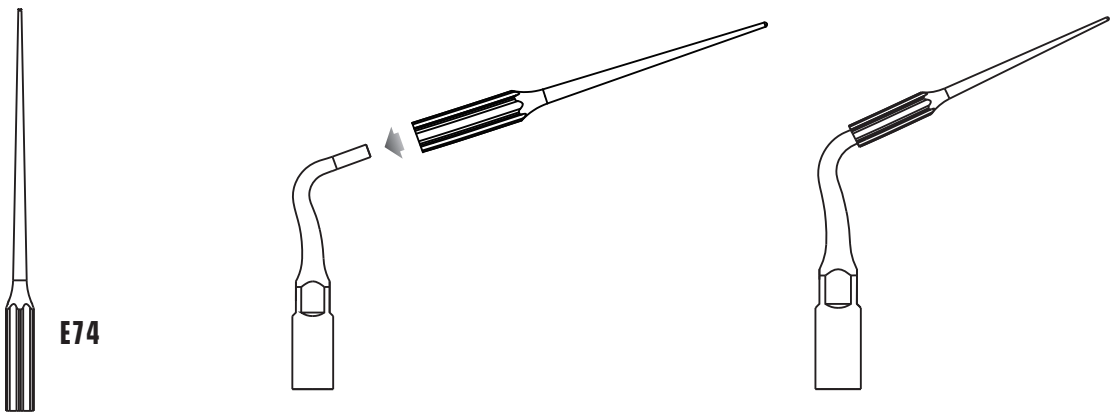
# E73

Used for root canal irrigation after the root canal preparation. Autoclavable. The working part is made of polymer material with no cutting ability, which effectively prevents the root canal morphology from being damaged. At the same time, the problem of instrument separation can be solved effectively and safely.Power level 1-3 in E mode of Ultrasonic Scaler.



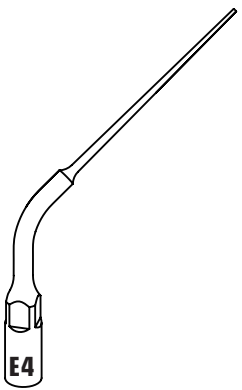
# E74

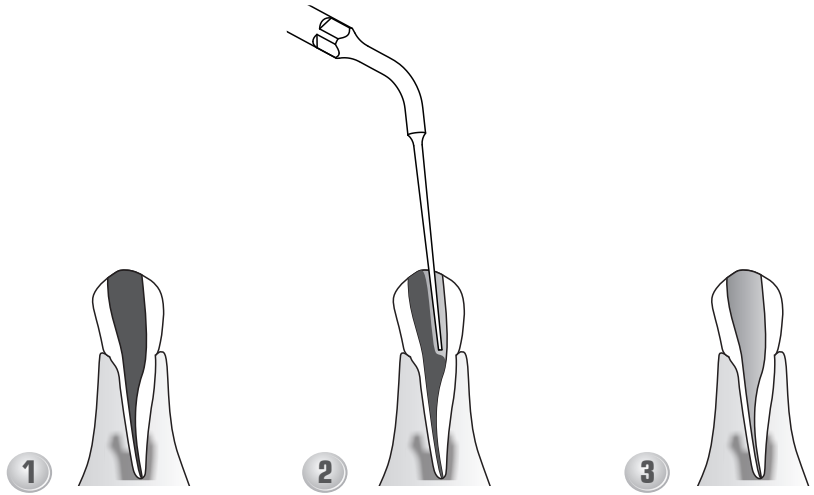
Used for root canal irrigation after the root canal preparation. Autoclavable. The working part is made of polymer material with no cutting ability, which effectively prevents the root canal morphology from being damaged. At the same time, the problem of instrument separation can be solved effectively and safely.Power level 1-3 in E mode of Ultrasonic Scaler. Put the irrigation tip into the root canal (make sure that there is solution in the root canal as much as possible), start the machine, and lift the tip up and down in a small range for irrigation (ensure that the tip end be located below the root canal orifice). After 20 seconds, stop for root canal cleaning. Generally, a root canal needs to be irrigated for 3 times, 20 seconds each time. One tip can be used for the treatment of maximum 6 root canals.



## **E4**(ED4/ES4)

Used to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is (22mm).

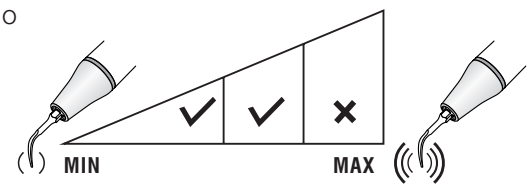


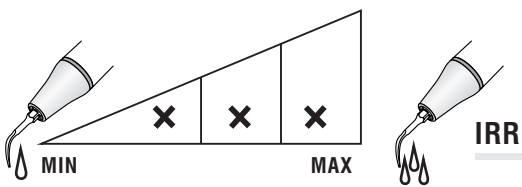




Demo Video

**MODE: E**

**POWER**

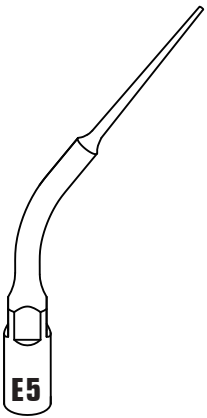


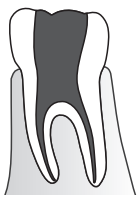



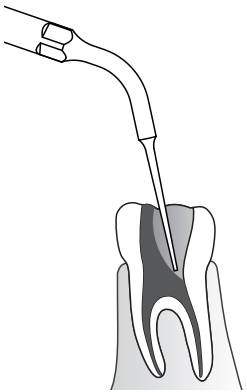

**IRRIGATION**

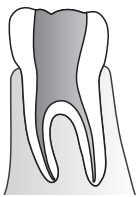
## **E5**(ED5/ES5)

Used to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is (16mm).





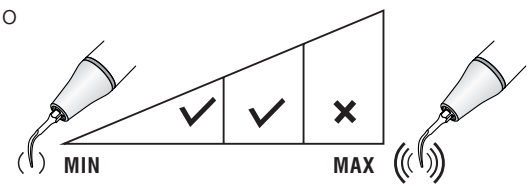


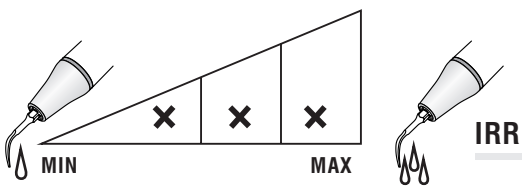
1 2 3

Demo Video

**MODE: E**

**POWER**

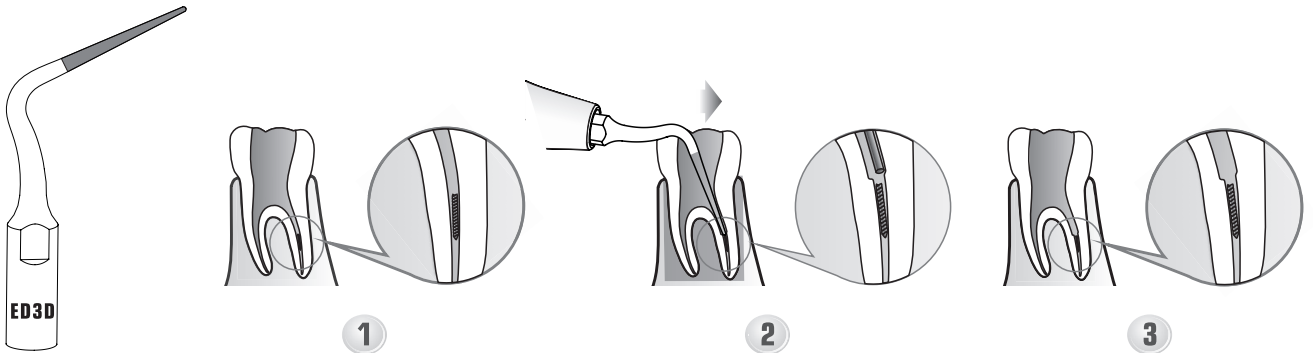



**IRRIGATION**

# ED3D

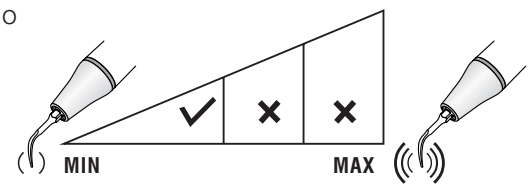
Diamond-coated(40μm) instrument for enlarging the root canal and access to files broken in the root canal.
Don't touch the broken file when enlarging the root canal in case putting it deeper in the canal.

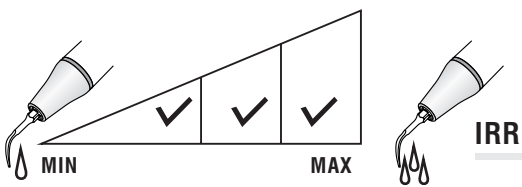



Demo Video

**MODE: E**

**POWER**

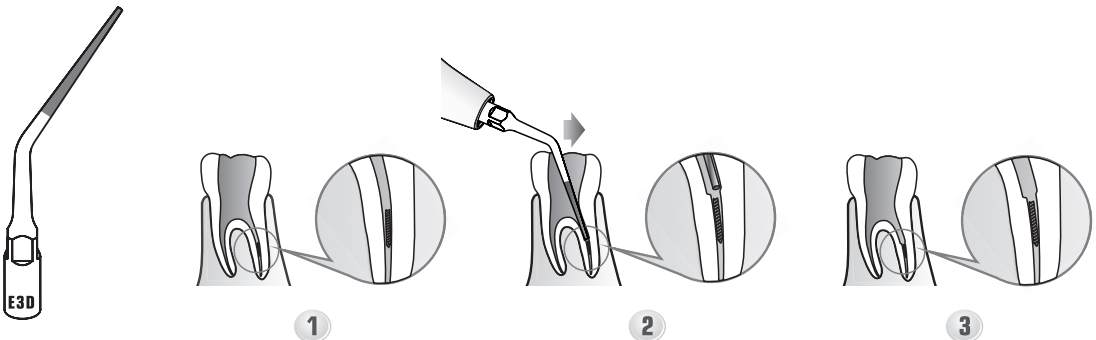



**IRRIGATION**

## **E3D**(ES3D)

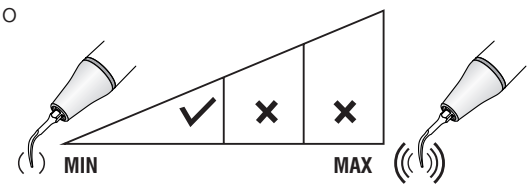
Recommended for melting gutta-percha.
Immerse the instrument in eugenol before inserting it in the canal.
Slightly press the instrument against the cone of gutta-percha and activate the scaler to condense until the canal is filled.

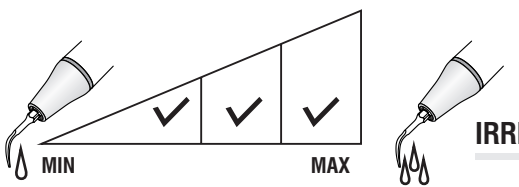



Demo Video

**MODE: E**

**POWER**

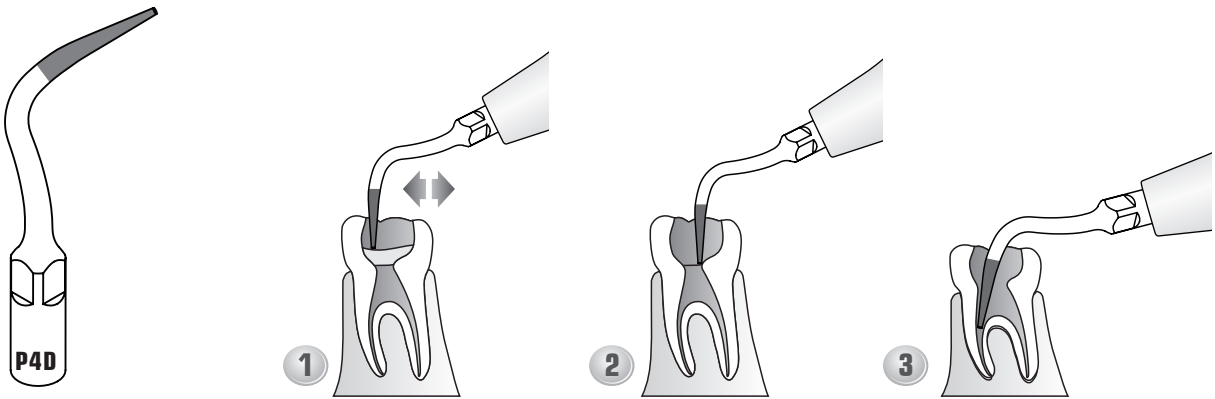



**IRRIGATION**

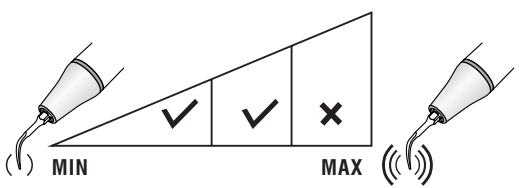
## **P4D**(PD4D/PS4D)

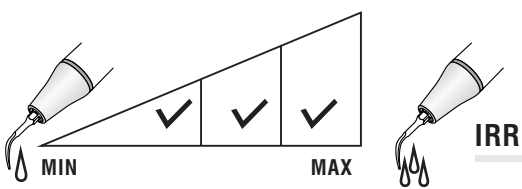
Diamond-coated(40μm) instrument for root canal orientation. It can also be applied to remove the calcifications located at the 1/3 part of root canal.
Don't press too much during the treatment to avoid hurting the root canal.




**MODE: E**

**POWER**

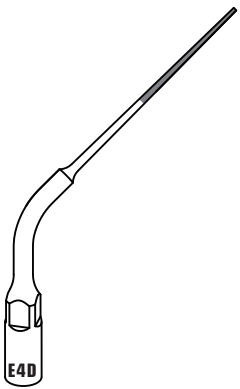


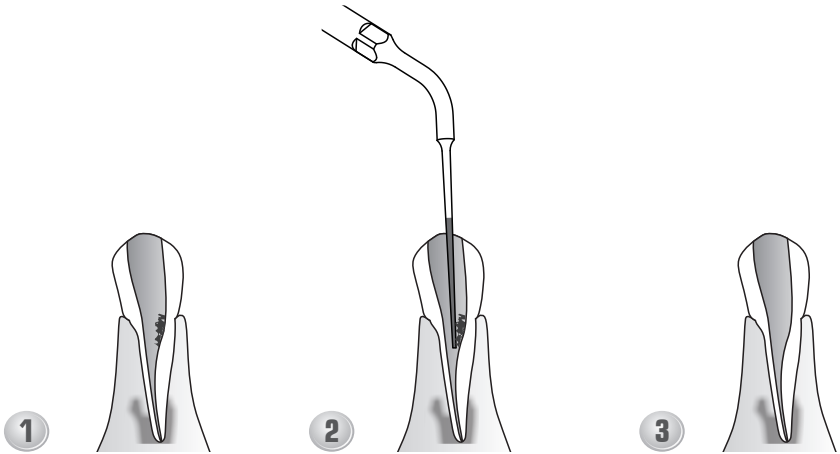




**IRRIGATION**

## **E4D**(ED4D/ES4D)

Diamond-coated(40μm) instrument for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of the diamond-coated on tip is (15mm).

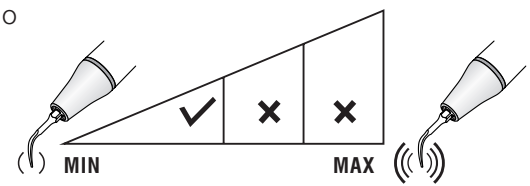


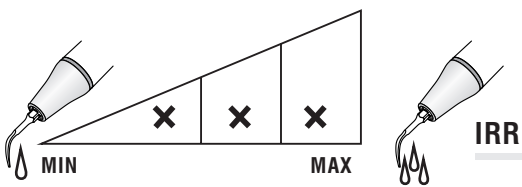




Demo Video

**MODE: E**

**POWER**

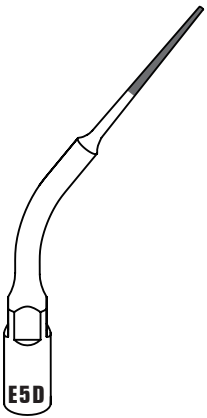


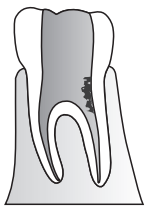

**IRRIGATION**

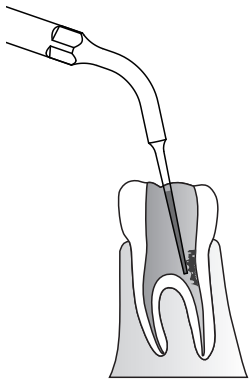
## **E5D**(ED5D/ES5D)

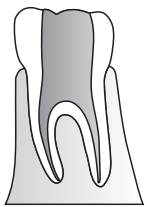
Diamond-coated(40μm) instrument for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of the diamond-coated on tip is (10mm).




Demo Video

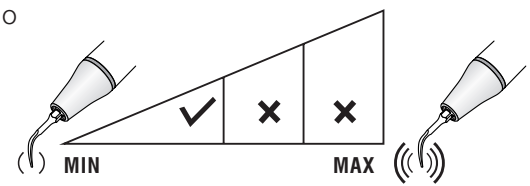


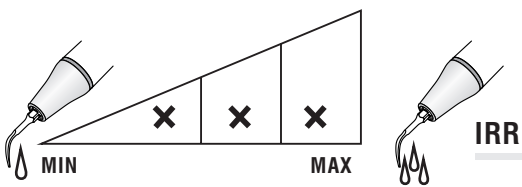




**MODE: E**

**POWER**

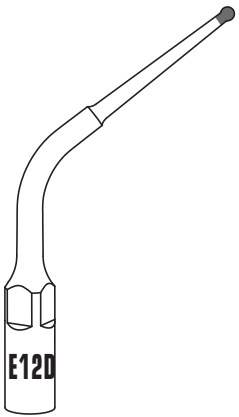


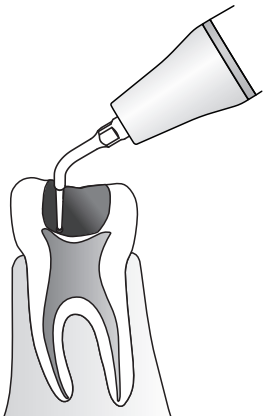




**IRRIGATION**

## **E12D**(ED12D)

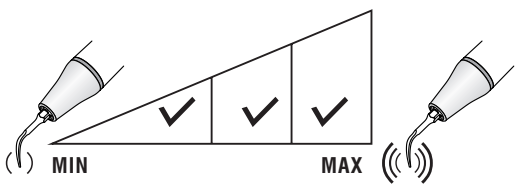
Diamond-coated(90um),used for removing the calcification and bad filling material of pulp cavity,exposing the root canal orifice.

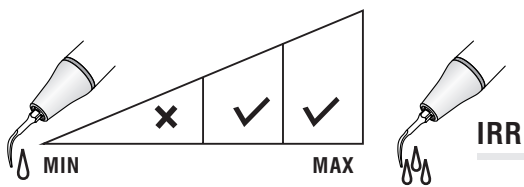


**MODE: E**

**POWER**

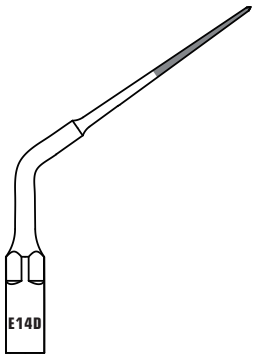


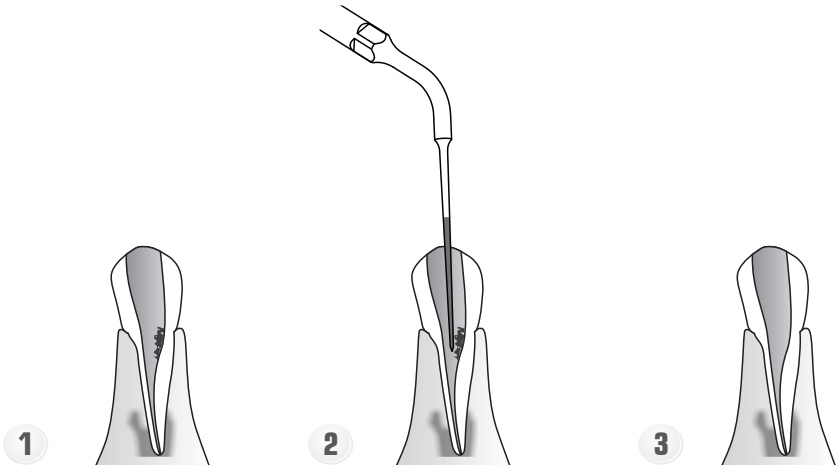




**IRRIGATION**

# **E14D**(ED14D)

Diamond-coated(40um) instrument for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of the diamond-coated on tip is (15mm). With irrigation.

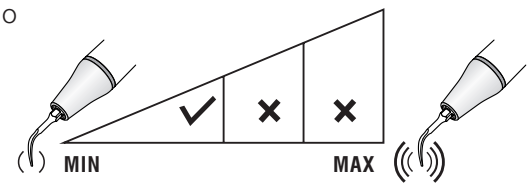


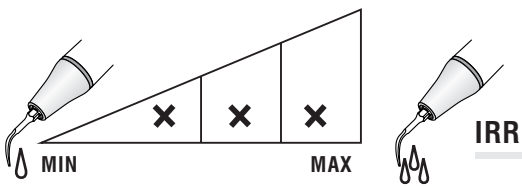




Demo Video

**MODE: E**

**POWER**

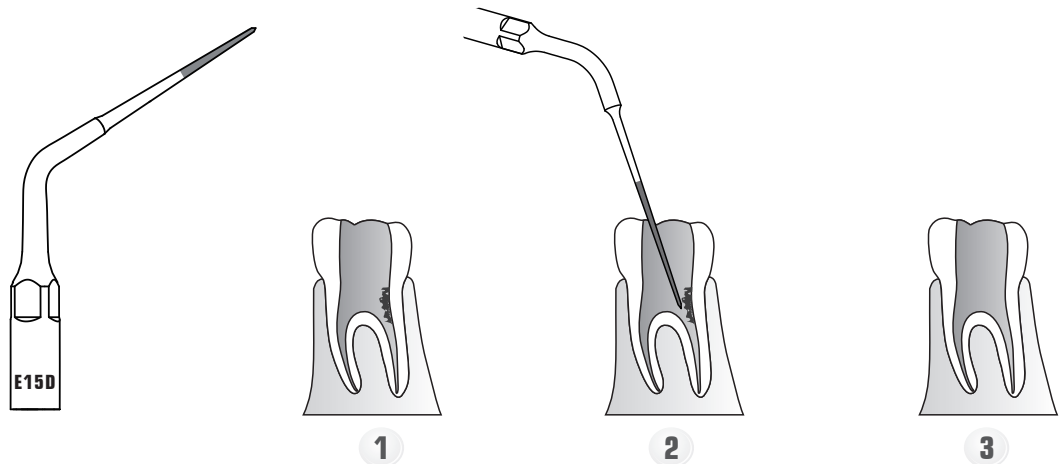



**IRRIGATION**

## **E15D**(ED15D)

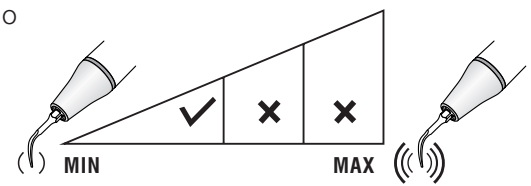
Diamond-coated(40um) instrument for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of the diamond-coated on tip is (10mm). With irrigation.

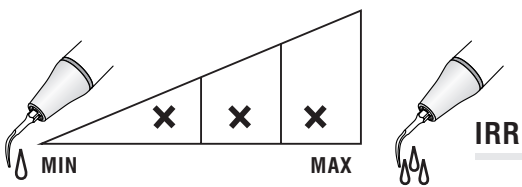



Demo Video

**MODE: E**

**POWER**




**IRRIGATION**

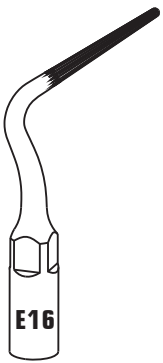
# E16

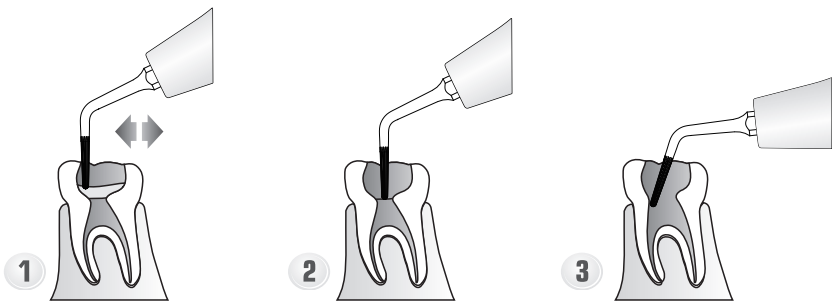
Used for locating root canal, cleaning pulp chamber and enlarging root canal orifice. The tip end has 15 micro grooves for good cutting performance, but the smooth tip extremity surface can reduce the risk of perforation of the pulp chamber floor.

The front and back direction operation of the tip is more efficient.

When operating without water, follow the mode of “Work for 5~10 seconds and then stop for 2 seconds”. Open water every 60 seconds for cooling and rinsing.

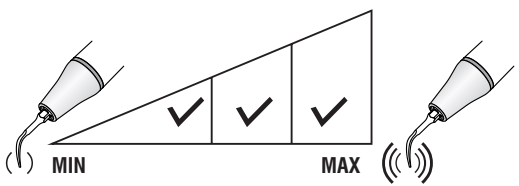
Note: Due to the strong cutting performance of this tip, it is recommended to use it with root canal microscope in order to prevent the perforation of the pulp chamber floor.

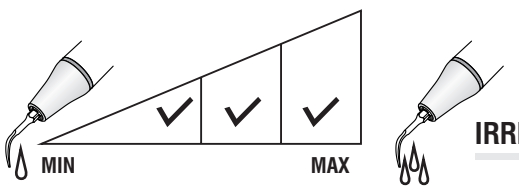



**MODE: E**

**POWER**




**IRRIGATION**

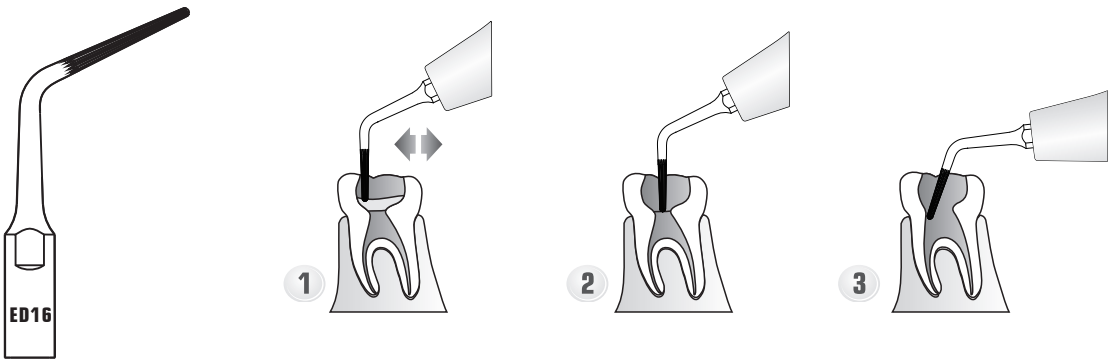
# ED16

Used for locating root canal, cleaning pulp chamber and enlarging root canal orifice. The tip end has 15 micro grooves for good cutting performance, but the smooth tip extremity surface can reduce the risk of perforation of the pulp chamber floor.

The front and back direction operation of the tip is more efficient.

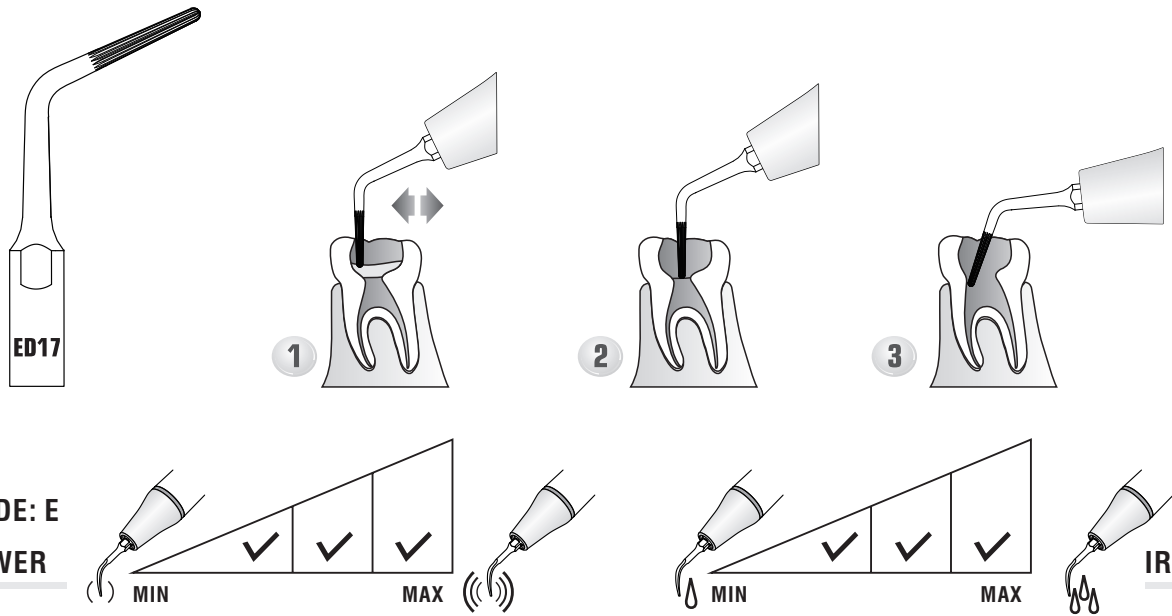
When operating without water, follow the mode of “Work for 5~10 seconds and then stop for 2 seconds”. Open water every 60 seconds for cooling and rinsing.

Note: Due to the strong cutting performance of this tip, it is recommended to use it with root canal microscope in order to prevent the perforation of the pulp chamber floor.



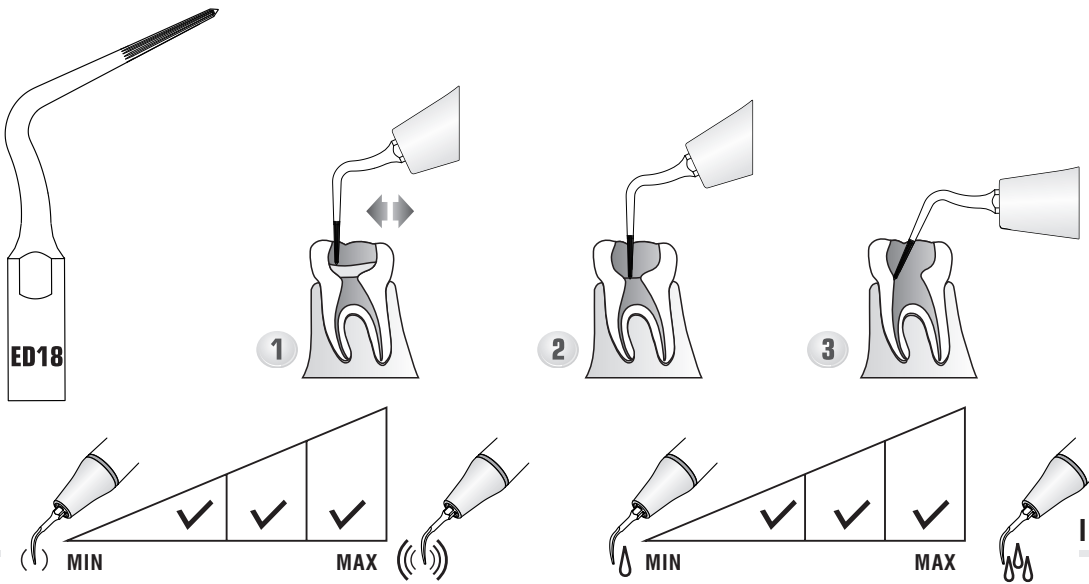
# ED17

Function: Used for root canal detection, pulp chamber cleaning, and orifice opening.
Features: The tip has 15 micro-washers, and it is of good cutting performance.
Back and forth motion of tip brings more efficient operation.
In the case of waterless operation, select the mode of “Work for 5~10 seconds and then stop for 2 seconds”, and open water every 60 seconds for cooling and rinsing.
Note:
(1) Due to the strong cutting performance of the tip, in order to prevent the penetration of the medullary cavity, it is recommended to use with a root canal microscope.



# ED18

Function: Used to determine the position of the root canal, remove the dentin, calcification and loose crown at the 1/3 crown of the root canal.
Features: The tip has 12 micro-washers, and it is of good cutting performance.
Back and forth motion of tip brings more efficient operation.
In the case of waterless operation, select the mode of “Work for 5~10 seconds and then stop for 2 seconds”, and open water every 60 seconds for cooling and rinsing.
Note:
(1) Due to the strong cutting performance of the tip, in order to prevent the penetration of the medullary cavity, it is recommended to use with a root canal microscope.

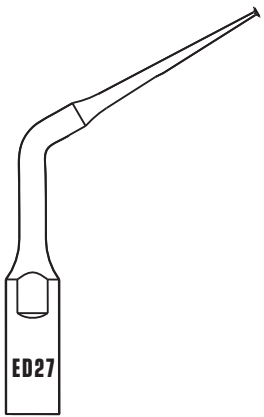


# ED27

Finishing the pulp cavity and removing the calcification at the pulp chamber floor. The tip extremity is in the shape of a round sucker and the cutting effect comes from the edge of the sucker. There is no cutting effect in the axial direction, which can avoid perforation of the pulp chamber floor.

Place the tip on the active part and move the tip back and forth or left and right to perform cutting operation.

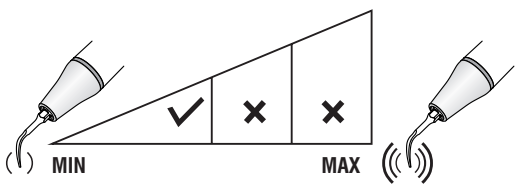
When operating without water, follow the mode of “Work for 5~10 seconds and then stop for 2 seconds”. Open water every 60 seconds for cooling and rinsing.

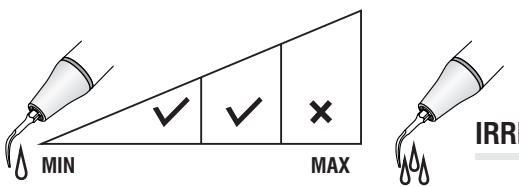





**MODE: E**

**POWER**

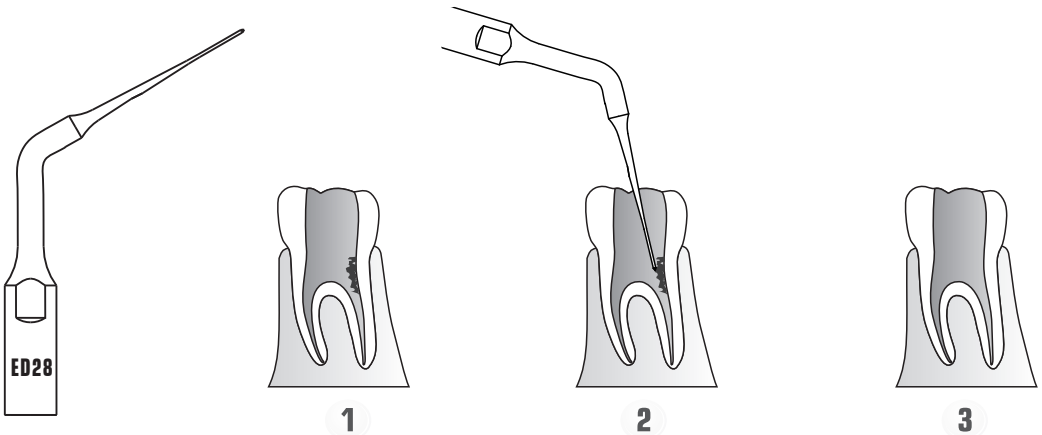



**IRRIGATION**

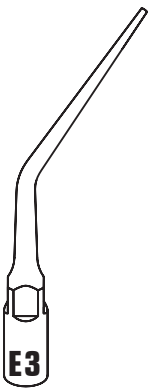
# ED28

To locate and negotiate the root canal orifice. Tip extremity is pointed and conical. The 5mm part away from the tip extremity is a cylinder of Ø0.25mm.
Power level 1 in root canal treatment mode (E mode)
Place the tip on the active part and apply a small force along the axial direction of the tip end. When operating without water, follow the mode of “Work for 5~10 seconds and then stop for 2 seconds”. Open water every 60 seconds for cooling and rinsing.

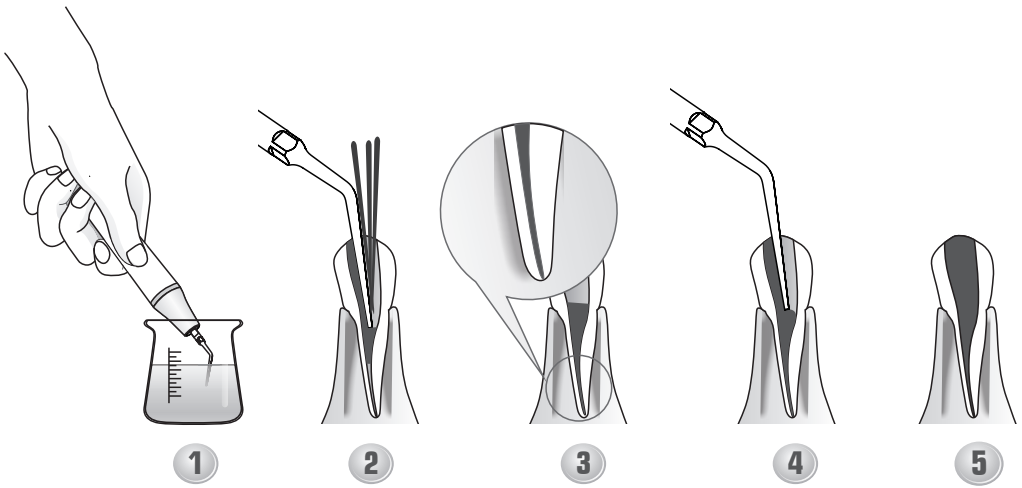


## **E3**(ED3/ES3)

Recommended for melting gutta-percha.
Immerse the instrument in eugenol before inserting it in the canal.
Slightly press the instrument against the cone of gutta-percha and activate the scaler to condense until the canal is filled.

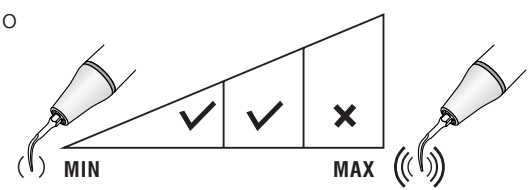


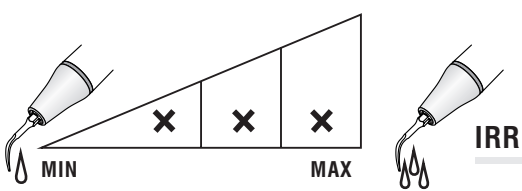

Demo Video




**MODE: E**

**POWER**

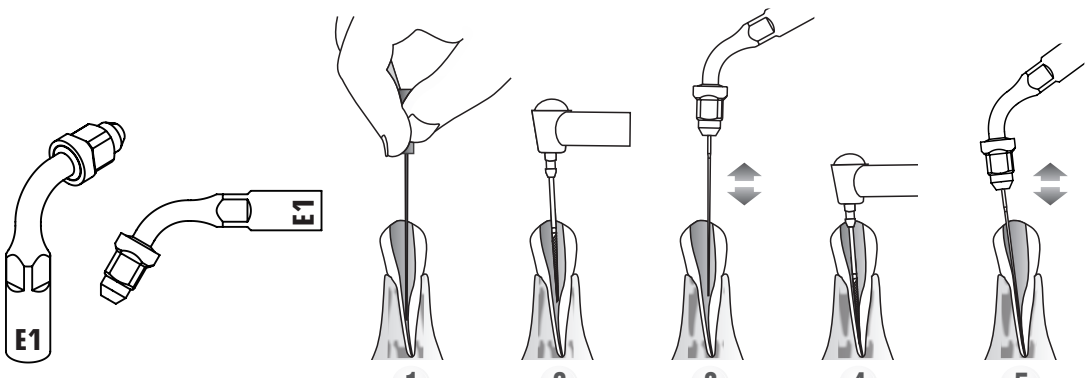



**IRRIGATION**

## **E1**(ED1/ES1)

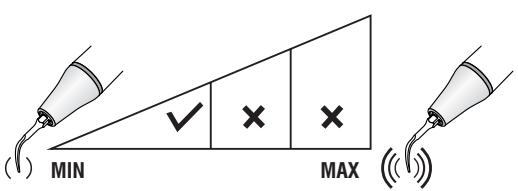
120° holder, used to hold the file diameter Φ0.7mm or Φ0.8mm.
Recommended for the cleaning and irrigating of the root canal, usually used for the anterior teeth.
Use only the provided flat wrench to tighten the file holders on the handpiece, as well as for gently tightening the files or instruments in the holder. Do not over tighten.
Do not tighten the holder nut when no file or instrument is installed as this may damage it.
Do not mix-install the holder with Φ0.7mm and Φ0.8mm file, the Φ0.8mm file will not be able to be installed after a Φ 0.7mm file installed on the holder. Each Endo file is recommended to be used not more than 10 times.

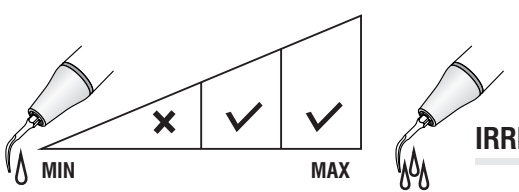



Demo Video

**MODE: E**

**POWER**

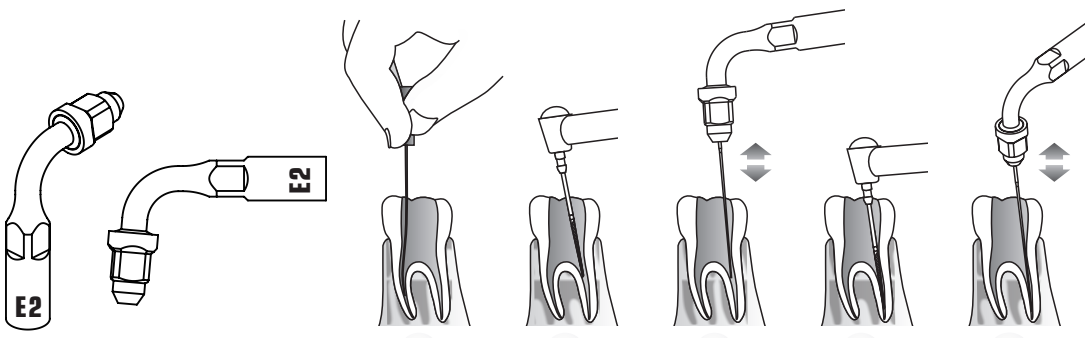



**IRRIGATION**

## **E2**(ED2/ES2)

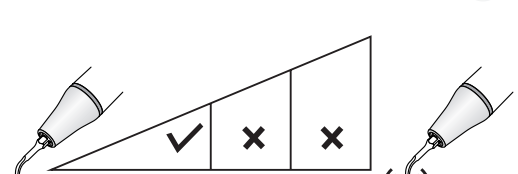
95° holder, used to hold the file diameter Φ0.7mm or Φ0.8mm.
Recommended for cleaning and irrigation of the root canal, usually used for the molar teeth.
Use only the provided flat wrench to tighten the file holders on the handpiece, as well as for gently tightening the files or instruments in the holder. Do not over tighten.
Do not tighten the holder nut when no file or instrument is installed as this may damage it.
Do not mix-install the holder with Φ0.7mm and Φ0.8mm file, the Φ0.8mm file will not be able to be installed after a Φ 0.7mm file installed on the holder. Each Endo file is recommended to be used not more than 10 times.

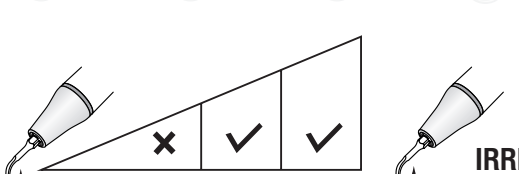



Demo Video

**MODE: E**

**POWER**



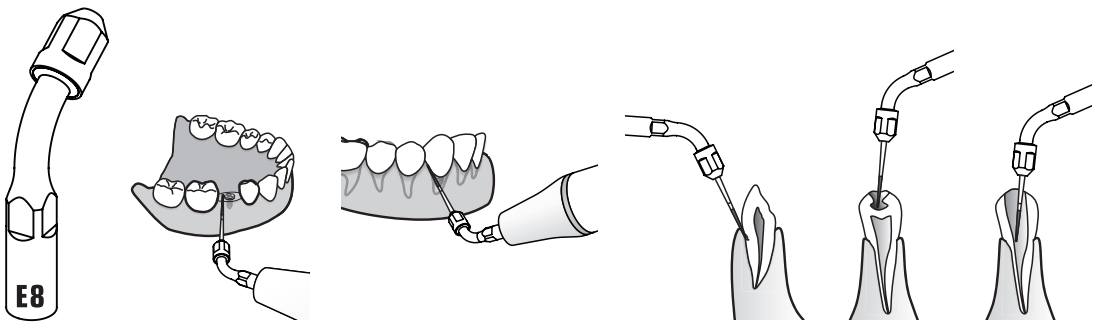




**IRRIGATION**

## **E8**(ED8/ES8/EK8)

Recommended for holding different types of dental bur to realize a variety of treatment on teeth. Usually used for the anterior teeth.

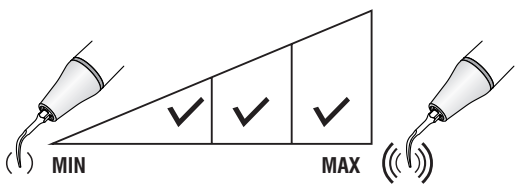
Special burs used for dental implant is applicable.

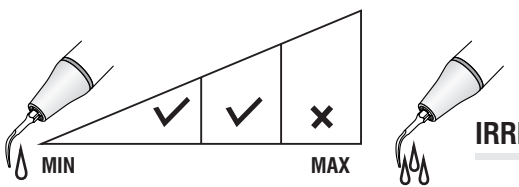



Demo Video

**MODE: E**

**POWER**



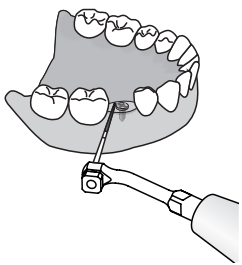



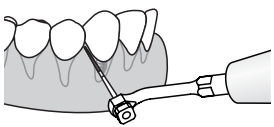

**IRRIGATION**

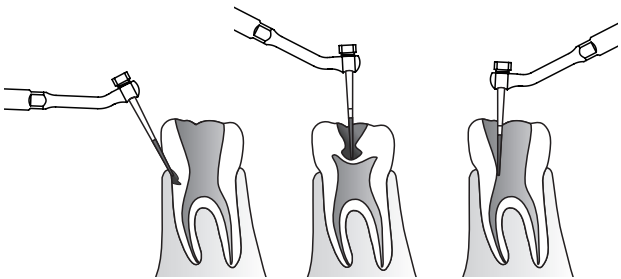
## **E9**(ED9)

Recommended for holding different types of dental bur to realize a variety of treatment on teeth.
Usually used for the molar teeth.
Special burs used for dental implant is applicable.



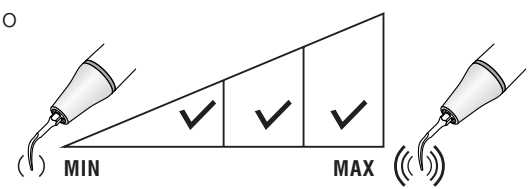


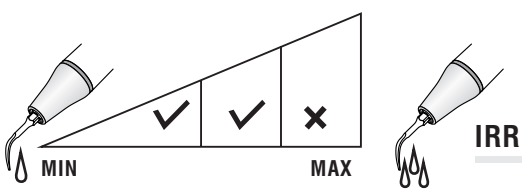


Demo Video

**MODE: E**

**POWER**




**IRRIGATION**

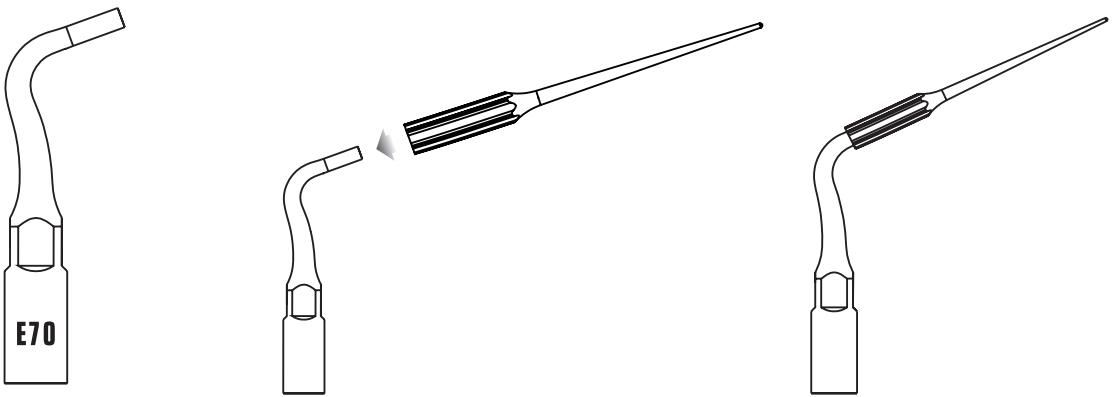
# **E70**(ED70/EK70)

Endochuck, used to install E71, E72, E73 or E74 for root canal cleaning or irrigation. Power level 1-3 in E mode of Ultrasonic Scaler. Used for root canal irrigation after the root canal preparation.

The working part is made of polymer material with no cutting ability, which effectively prevents the root canal morphology from being damaged. At the same time, the problem of instrument separation can be solved effectively and safely.

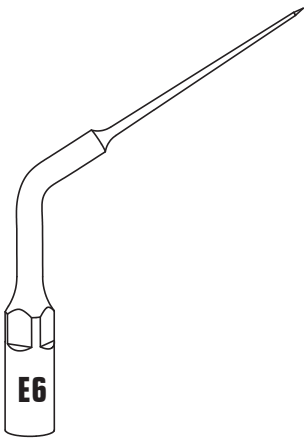
Put the irrigation tip into the root canal (make sure that there is solution in the root canal as much as possible), start the machine, and lift the tip up and down in a small range for irrigation (ensure that the tip end be located below the root canal orifice). After 20 seconds, stop for root canal cleaning.

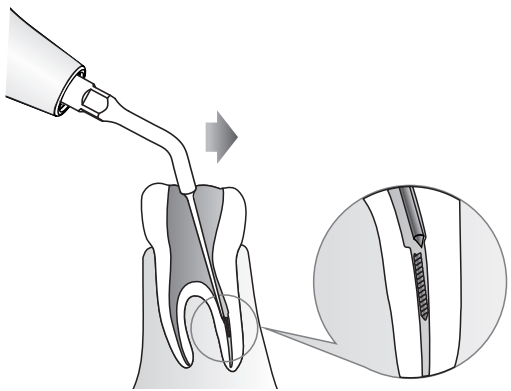
Generally, a root canal needs to be irrigated for 3 times, 20 seconds each time. One tip can be used for the treatment of maximum 6 root canals.



## **E6**(ED6)

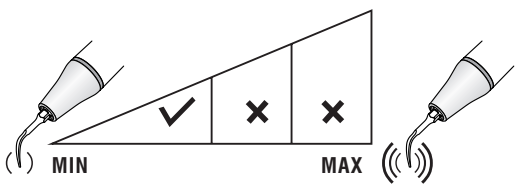
Thin and flexible, used for removing foreign body in deep canal.

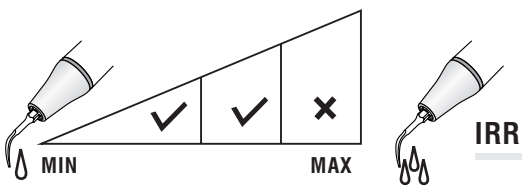


**MODE: E**

**POWER**

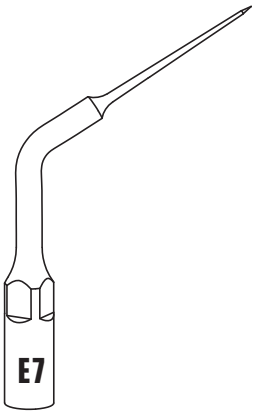


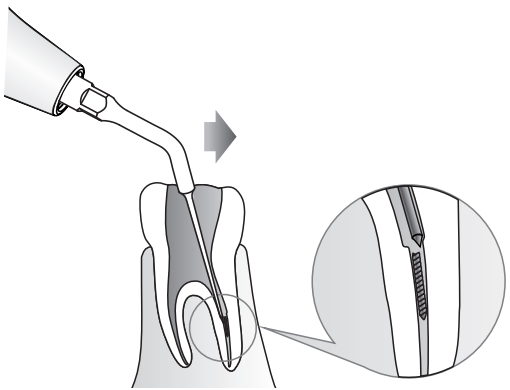




**IRRIGATION**

## **E7** (ED7)

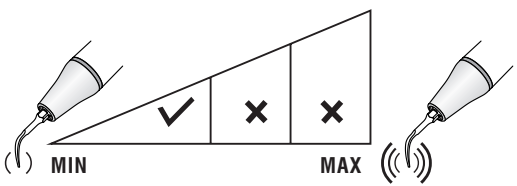
Thin and flexible, used for removing foreign body in 1/3 canal.

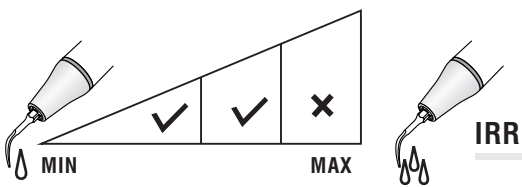


**MODE: E**

**POWER**



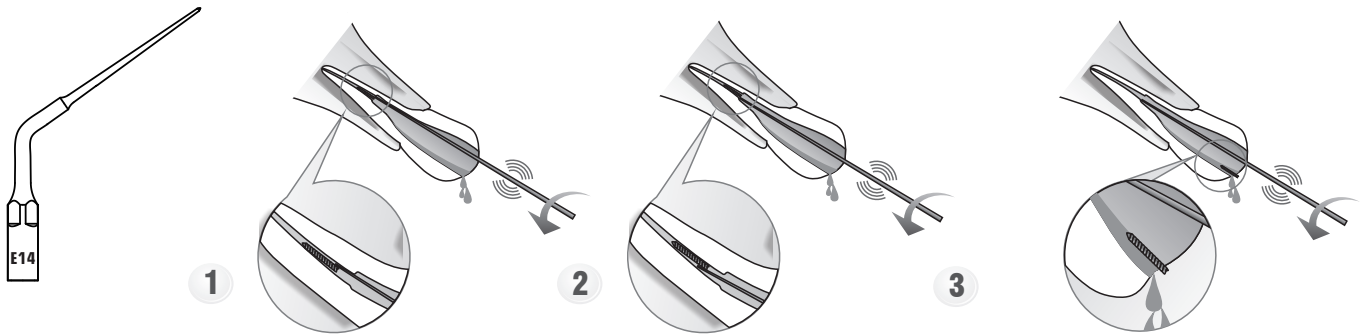

**IRRIGATION**

# **E14**(ED14/ES14)

Instrument for the removal of broken files inside the root canal. The length of tip slender part is (22mm). (ED14: 26mm)

If possible place the patient's head in a position where the root canal is horizontal with a downward inclination. Rotate the tip of the instrument counterclockwise around the broken part until it is picked out from the root canal.

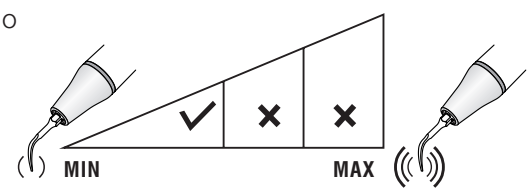
To avoid push the broken file deeper into the root canal, do not use pressure to the instrument in the axial direction.

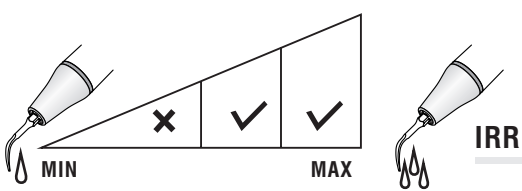



Demo Video

**MODE: E**

**POWER**



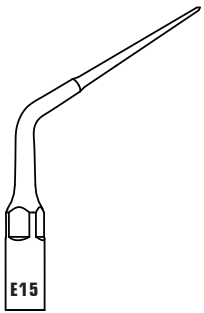

**IRRIGATION**

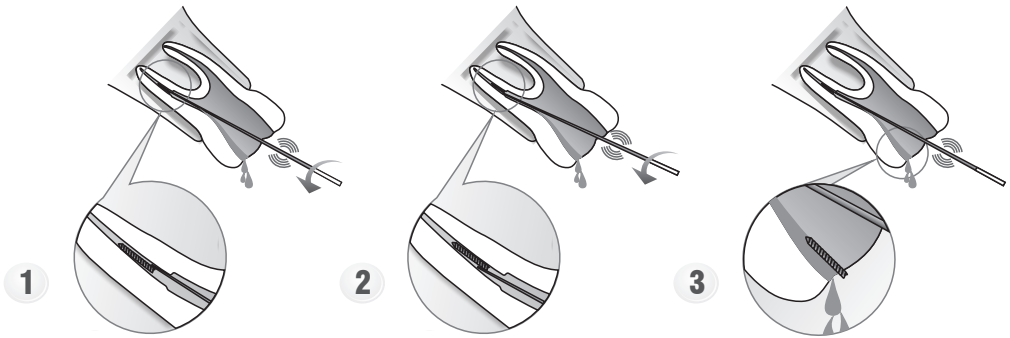
## **E15**(ED15/ES15)

Instrument for the removal of broken files inside the root canal. The length of tip slender part is (16mm). (ED15:15mm)

If possible place the patient's head in a position where the root canal is horizontal with a downward inclination. Rotate the tip of the instrument counterclockwise around the broken part until it is picked out from the root canal.

To avoid push the broken file deeper into the root canal, do not use pressure to the instrument in the axial direction.

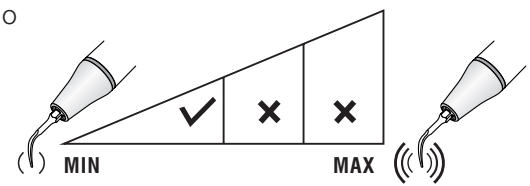


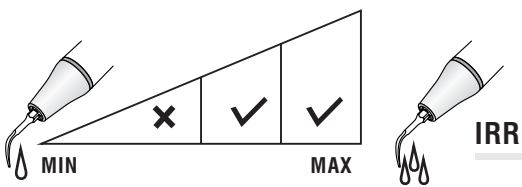




Demo Video

**MODE: E**

**POWER**

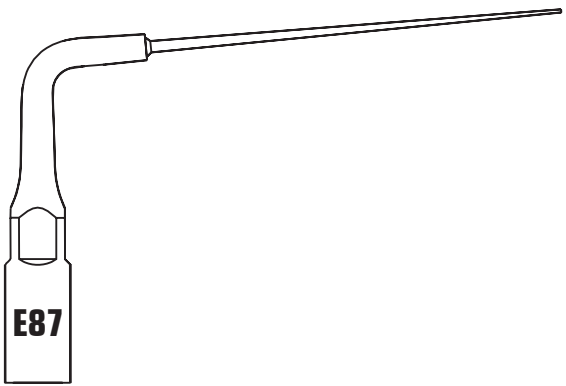


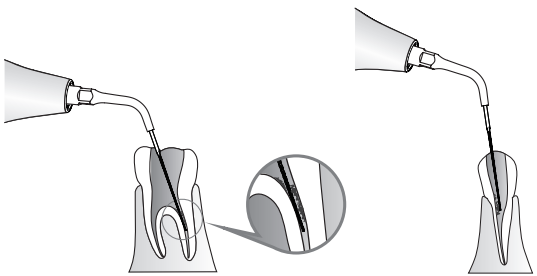




**IRRIGATION**

## **E87** (Jointly Developed with Dr. Yoshi Terauchi)

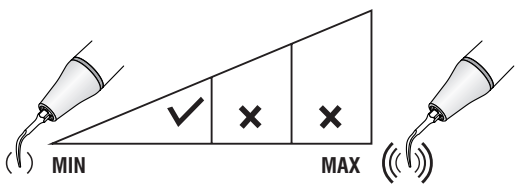
Tip for broken file removal. Φ0.1mm tip head, extremely thin and conical, used to remove dentin around the broken file.

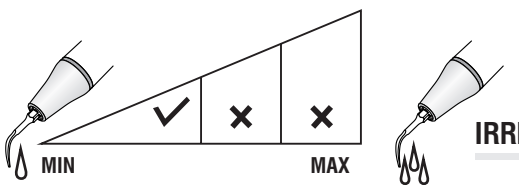


**MODE: E**

**POWER**

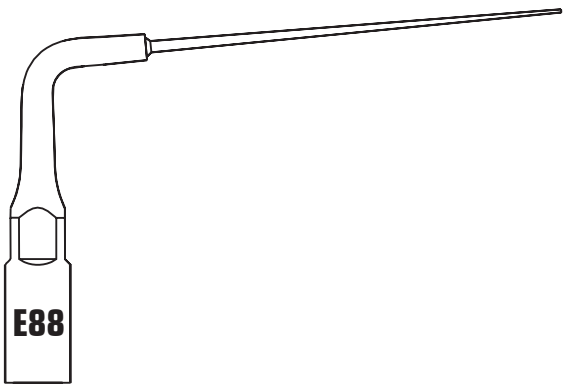


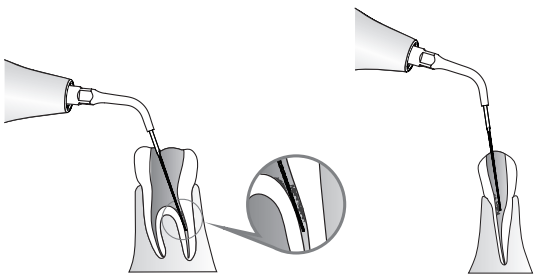




**IRRIGATION**

## E88 (Jointly Developed with Dr. Yoshi Terauchi)

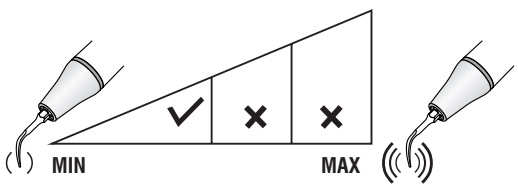
Tip for broken file removal. Φ0.1mm tip head, extremely thin and conical, used to remove dentin around the broken file.

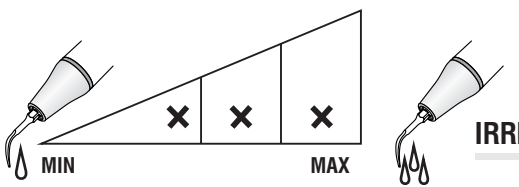


**MODE: E**

**POWER**

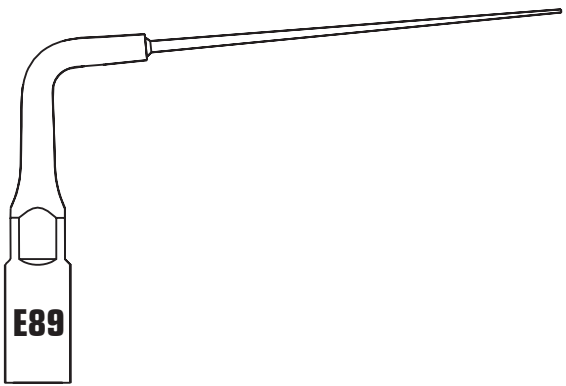


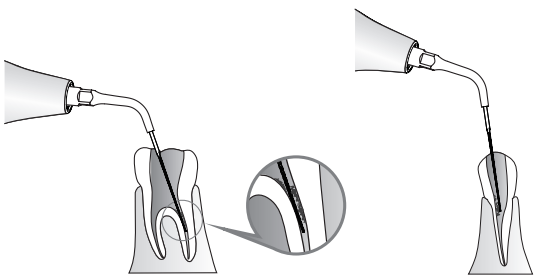




**IRRIGATION**

## **E89**(Jointly Developed with Dr. Yoshi Terauchi)

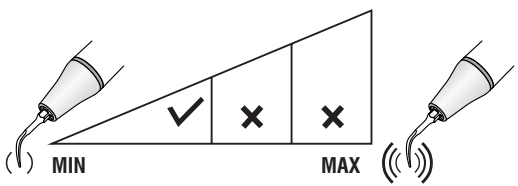
Tip for broken file removal. 0.1mm thickness tip head, extremely-thin sword shaped, left and right directed, used to remove dentin around the broken file.

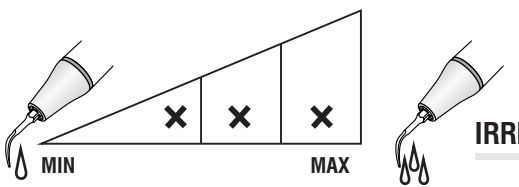


**MODE: E**

**POWER**

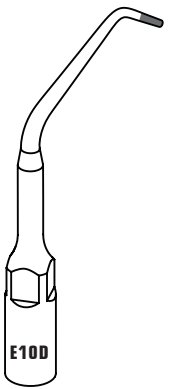


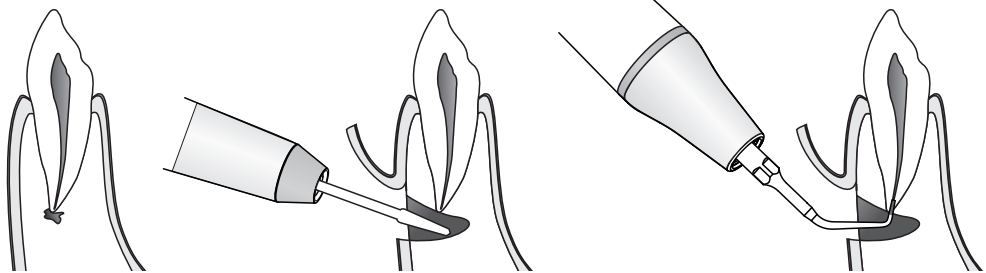




**IRRIGATION**

## **E10D**(ED10D/ES10D)

Diamond-coated(40μm) instrument for high efficiency root planning in the retrograde preparation of root canals. The length of the diamond-coated on tip is (3.3mm).

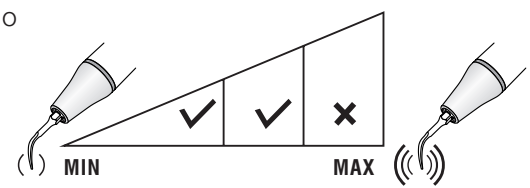


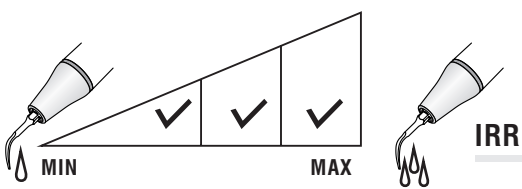




Demo Video

**MODE: E**

**POWER**

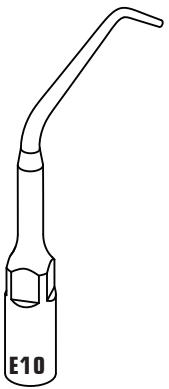


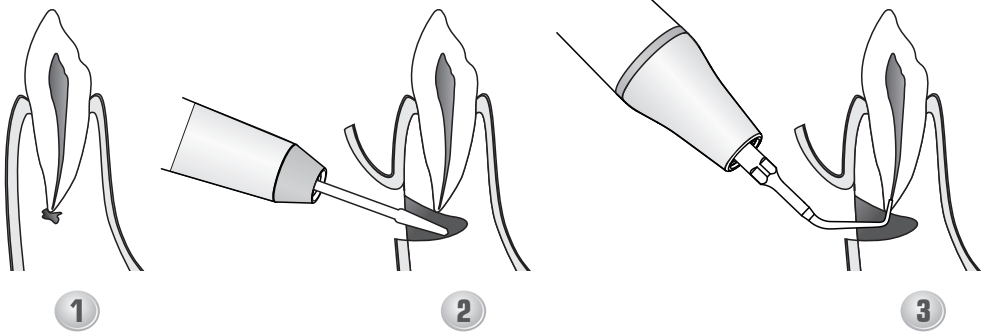




**IRRIGATION**

# **E10**(ED10/ES10)

Used to polish the root canal in the retrograde preparation of root canals. The length of tip slender part is (4.5mm).

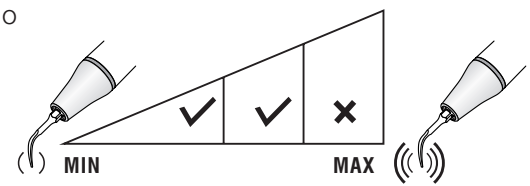


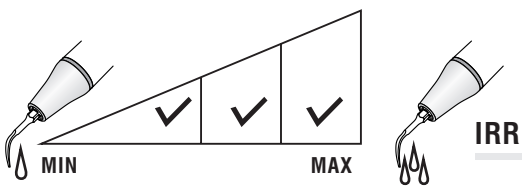




Demo Video

**MODE: E**

**POWER**

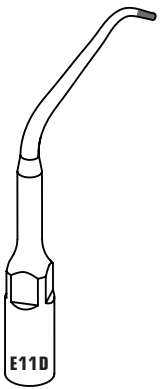


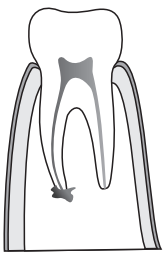



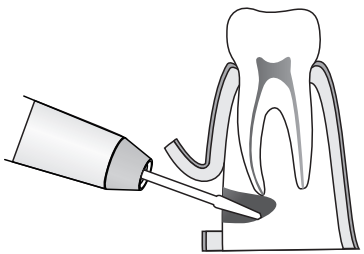

**IRRIGATION**

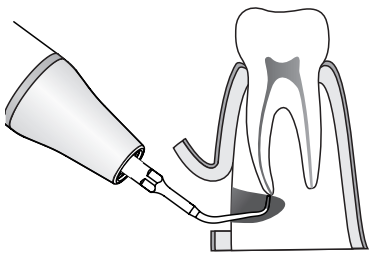
## **E11D**(ED11D/ES11D)

Diamond-coated(40μm) instrument for high efficiency root planning in the retrograde preparation of root canals. The length of the diamond-coated on tip is (2.2mm).



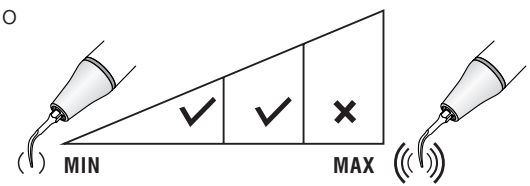



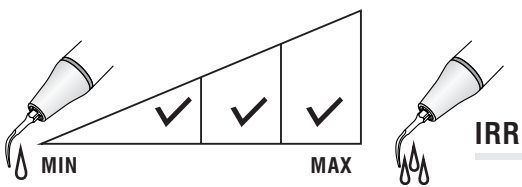




Demo Video

**MODE: E**

**POWER**

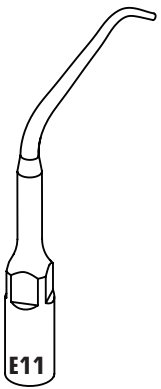


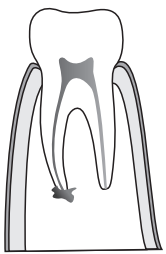



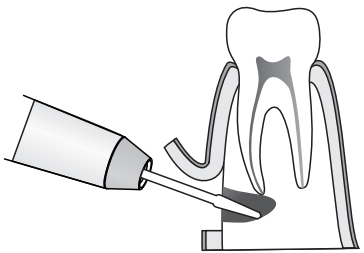

**IRRIGATION**

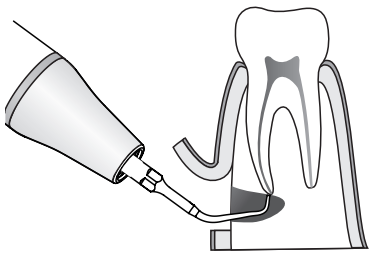
## **E11**(ED11/ES11)

Used to polish the root canal in the retrograde preparation of root canals. The length of tip slender part is (3.5mm).



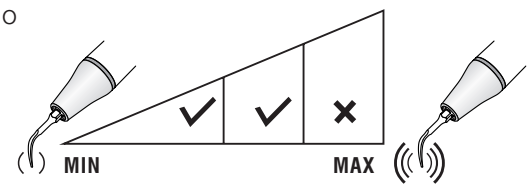



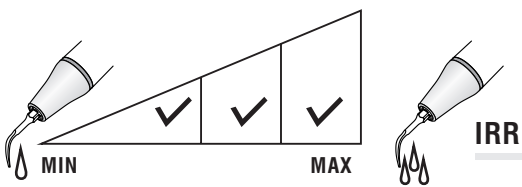




Demo Video

**MODE: E**

**POWER**

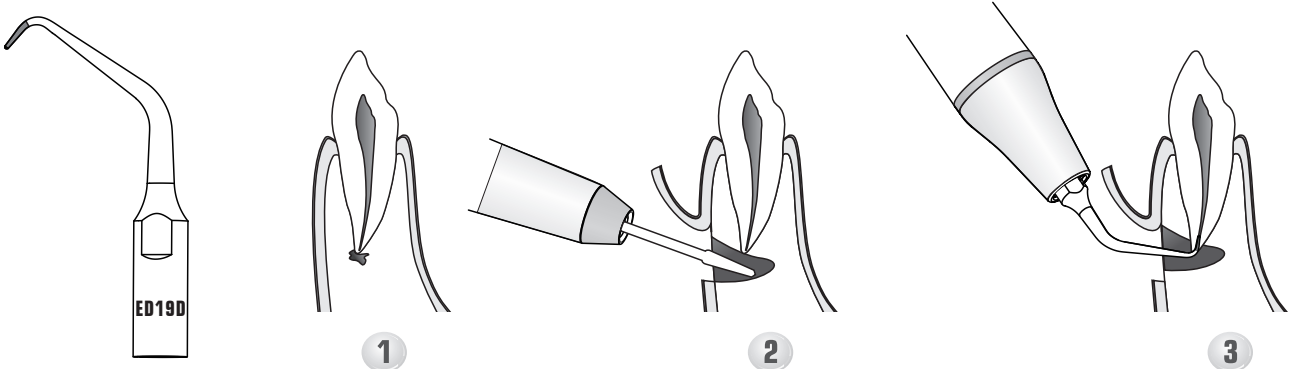


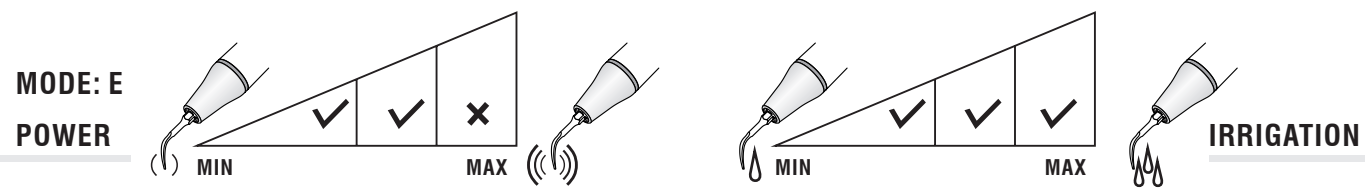




**IRRIGATION**

## **ED19D**(E19D)

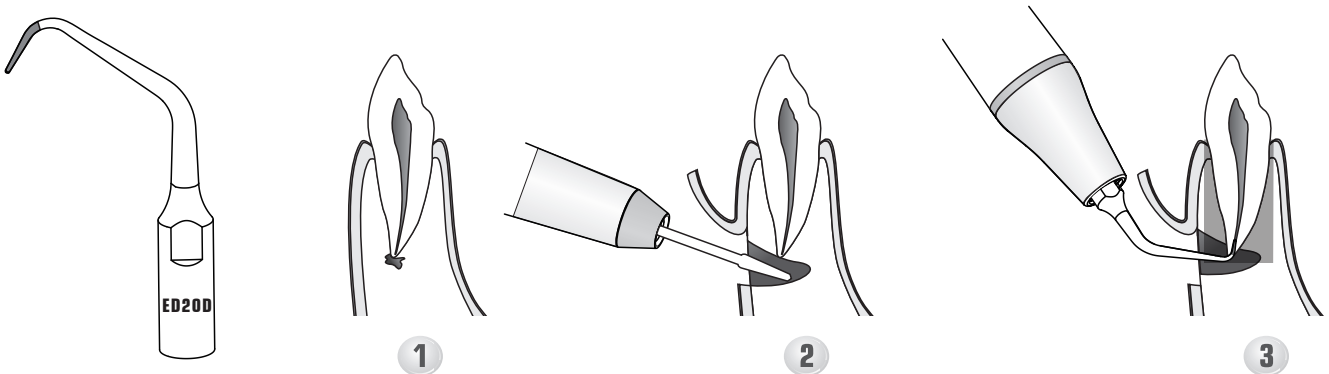
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 3mm, and the diameter of sand is 30μm.Normally used for retropreparation of front teeth.
Use:
Used in E mode of D600; recommended power level: level 1~7;
Used in E mode of S6; recommended power level: level 1~10.

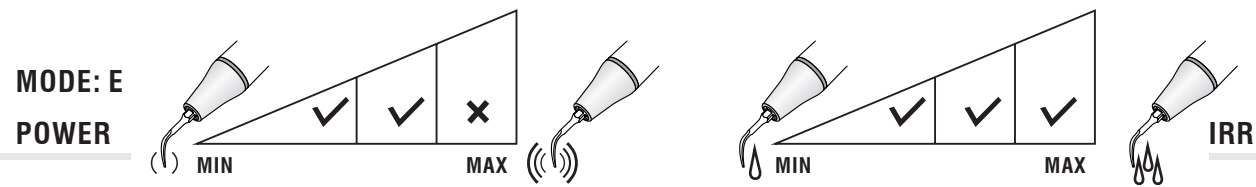


## **ED20D**(E20D)

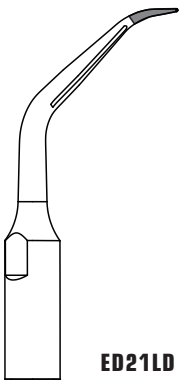
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 6mm, and the diameter of sand is 30μm.Normally used for retropreparation of front teeth.
Use:
Used in E mode of D600; recommended power level: level 1~7;
Used in E mode of S6; recommended power level: level 1~10.

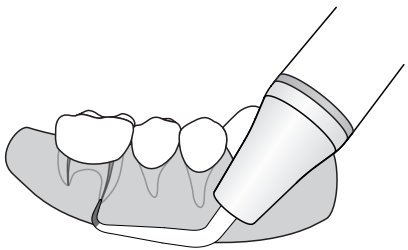


## **ED21LD**(E21LD)

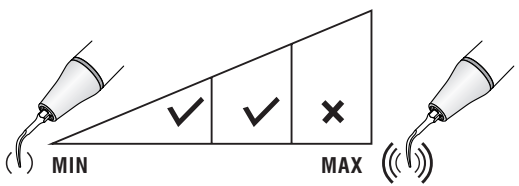
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 3mm, and the diameter of sand is 30μm. Bent to left. Used in premolars and molars.
Use:
Used in E mode of D600; recommended power level: level 1~6;
Used in E mode of S6; recommended power level: level 1~9.

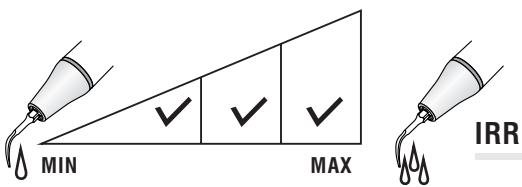


**MODE: E**

**POWER**

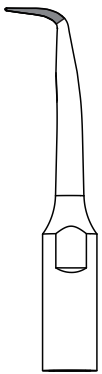


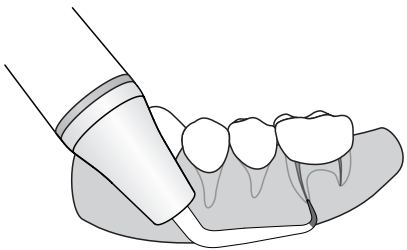

**IRRIGATION**

## **ED21RD**(E21RD)

Used for efficient apex modification in retropreparation. The length of diamond-coated part is 3mm, and the diameter of sand is 30μm. Bent to right. Used in premolars and molars.
Use:
Used in E mode of D600; recommended power level: level 1~7;
Used in E mode of S6; recommended power level: level 1~10.

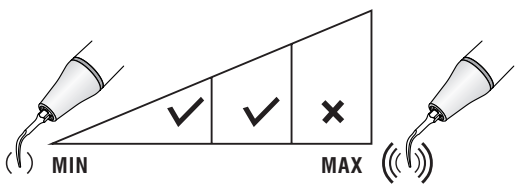


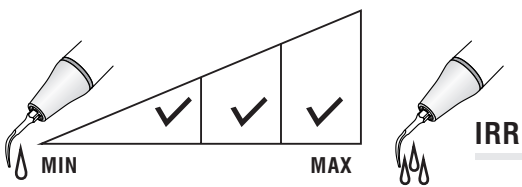
**ED21RD**



**MODE: E**

**POWER**




**IRRIGATION**

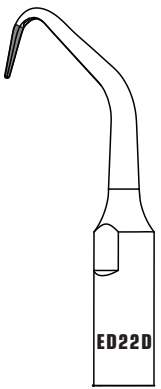
## **ED22D**(E22D)

Used for efficient apex modification in retropreparation. The length of diamond-coated part is 4mm, and the diameter of sand is 30μm. Used in molar teeth.

Use:

Used in E mode of D600; recommended power level: level 1~7;

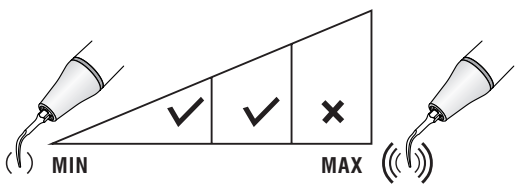
Used in E mode of S6; recommended power level: level 1~10.

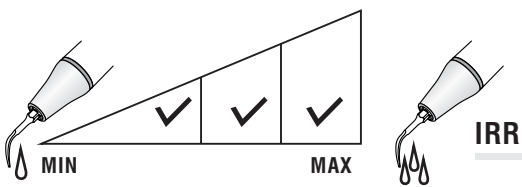





**MODE: E**

**POWER**




**IRRIGATION**

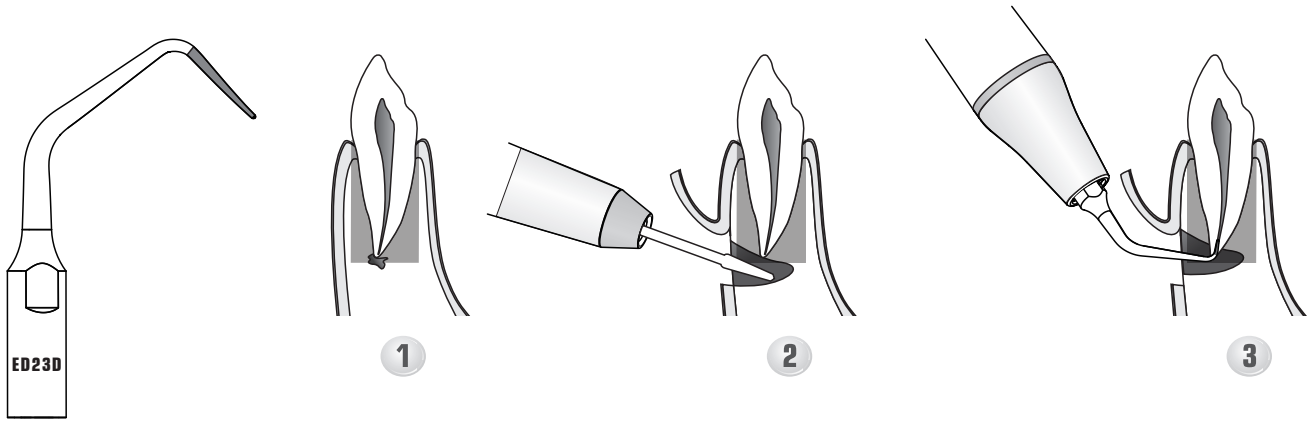
## **ED23D**(E23D)

Used for efficient apex modification in retropreparation. The length of diamond-coated part is 9mm, and the diameter of sand is 30μm. Mainly used in front teeth. Used for complicated case, and it can prepared to 9mm in retropreparation operation.

Use:

Used in E mode of D600; recommended power level: level 1~7;

Used in E mode of S6; recommended power level: level 1~10.



## **ED24D**(E24D)

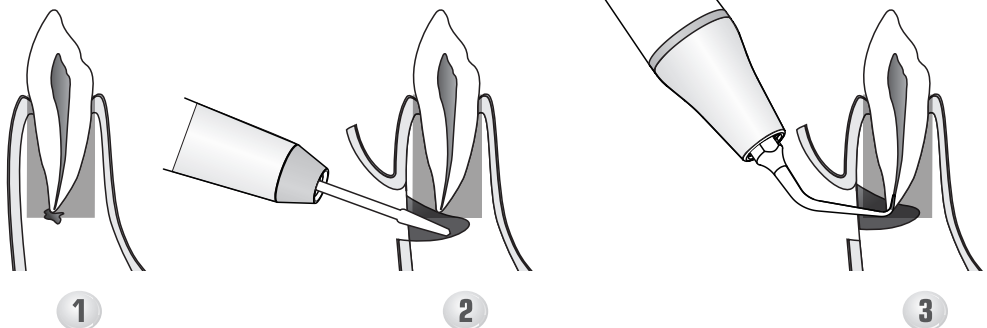
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 5mm, and the diameter of sand is 30μm. Mainly used in front teeth.

Use:

Used in E mode of D600; recommended power level: level 1~7;

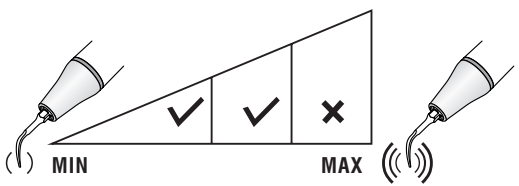
Used in E mode of S6; recommended power level: level 1~10.

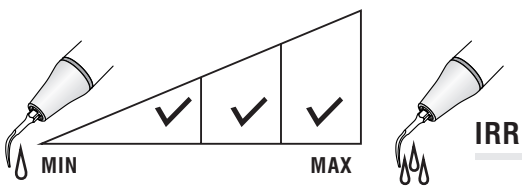



**MODE: E**

**POWER**

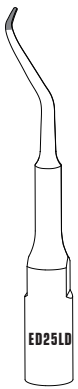


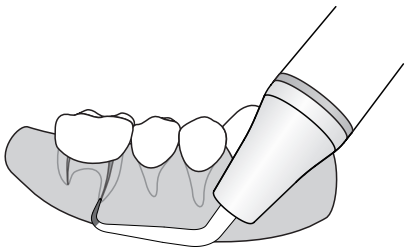




**IRRIGATION**

## **ED25LD**(E25LD)

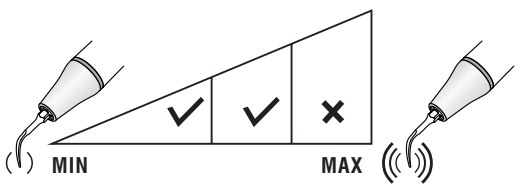
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 5mm, and the diameter of sand is 30μm. Bent to left. Used in premolars and molars.
Use:
Used in E mode of D600; recommended power level: level 1~7;
Used in E mode of S6; recommended power level: level 1~10.

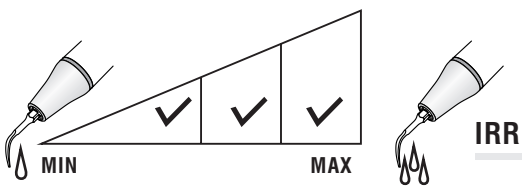


**MODE: E**

**POWER**

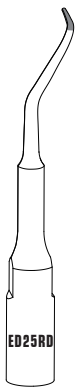


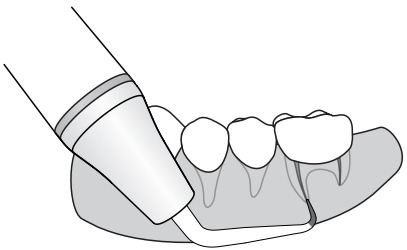




**IRRIGATION**

## **ED25RD**(E25RD)

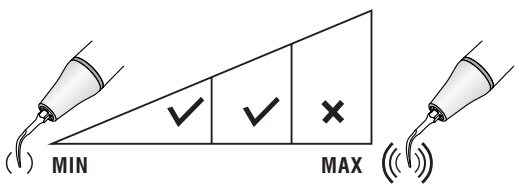
Used for efficient apex modification in retropreparation. The length of diamond-coated part is 5mm, and the diameter of sand is 30μm. Bent to right. Used in premolars and molars.
Use:
Used in E mode of D600; recommended power level: level 1~7;
Used in E mode of S6; recommended power level: level 1~10.

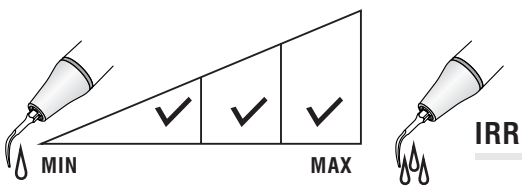


**MODE: E**

**POWER**

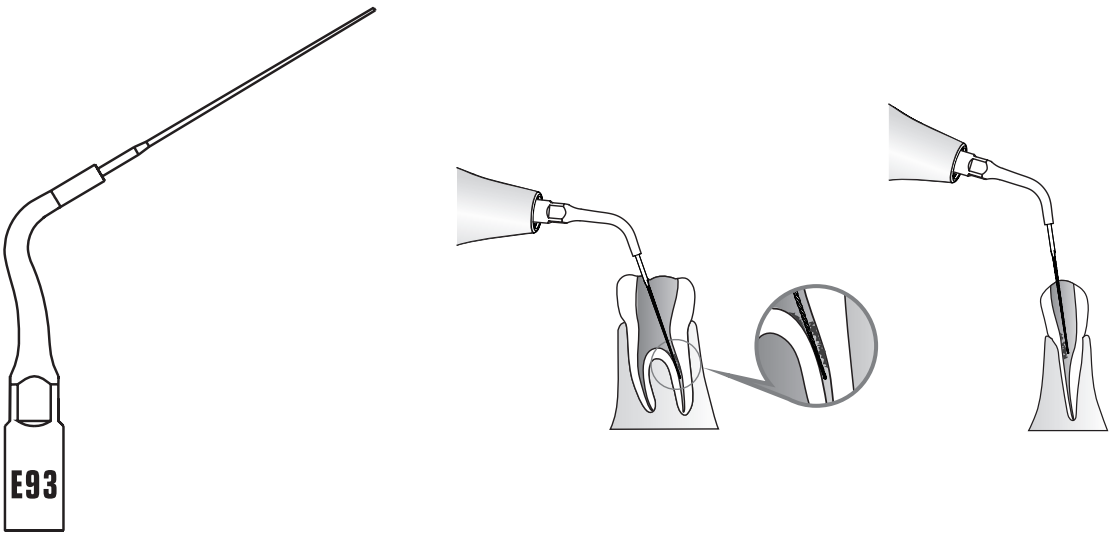



**IRRIGATION**

# E93

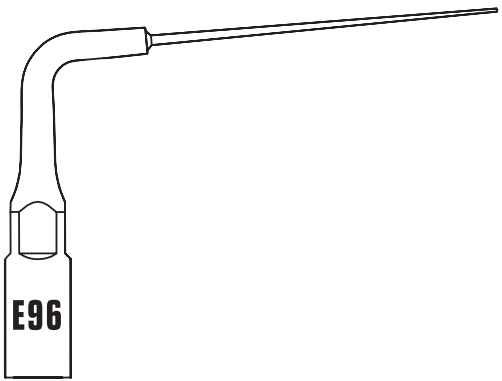
Function: Used for root canal irrigation after the root canal preparation. Dimensions: Smooth tip, 20#, taper 1%, tip end length 21.5mm.
Material: Ni-Ti

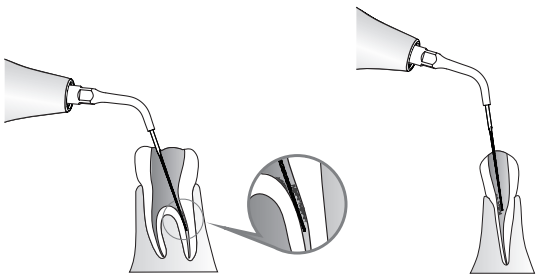



**(Only suitable for Ultrasonic Endo Activator)**

# E96

Function: Used for root canal irrigation after the root canal preparation. Dimensions: Smooth tip, 20#, taper 2%, tip end length 21mm.
Material: Stainless steel

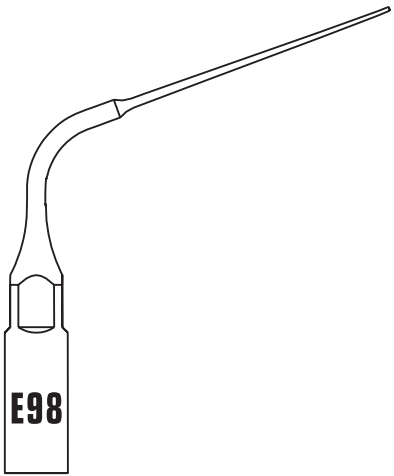


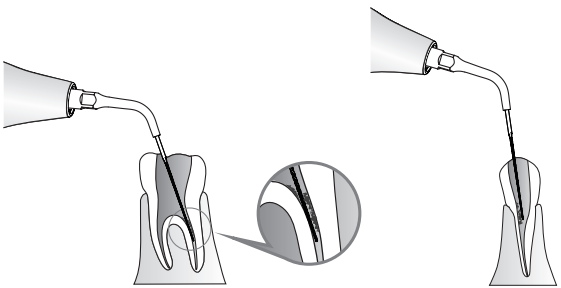



**(Only suitable for Ultrasonic Endo Activator)**

# E98

Function: Used for root canal irrigation after the root canal preparation. Dimensions: Smooth tip, 25#, taper 2%, tip end length 18mm.
Material: Ni-Ti

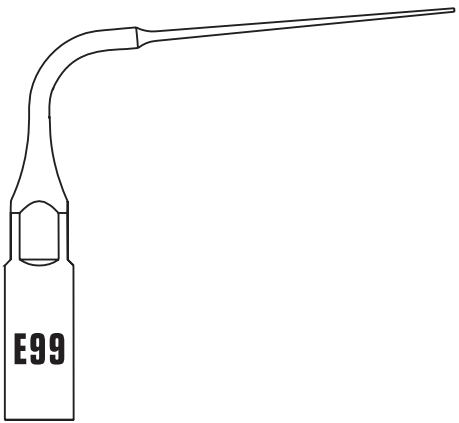


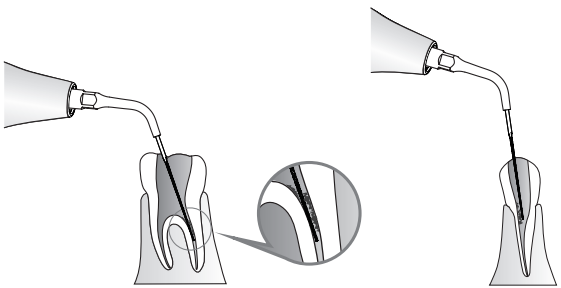



**(Only suitable for Ultrasonic Endo Activator)**

# E99

Function: Used for root canal irrigation after the root canal preparation. Dimensions: Smooth tip, 25#, taper 2%, tip end length 18mm.
Material: Ni-Ti



**(Only suitable for Ultrasonic Endo Activator)**

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