

COXO[®]

User Manual

C-FR2

File Removal System

CE

[Intended Use]

The File retrieval system is used for removal of broken parts of endodontic instruments from root canals and must only be used in dental clinics or hospitals by professional medical personnel.

[Contraindications]

The use of this product is prohibited in the following situations.

1. Perforation of the root canal wall may be caused during use.
2. Root canal wall is very thin.
3. Broken file is located at root tip.
4. The broken file is located in the curved part of the root canal and cannot be viewed under the microscope.

[List of Accessories]

Handle	1
Lasso Component	20
Calibrator	1
Tightening Wrench	1
Bending Wrench	1
Flat Drill	3
Trephine	3
NITIPath Drills	5
User Manual	1

[Warning]

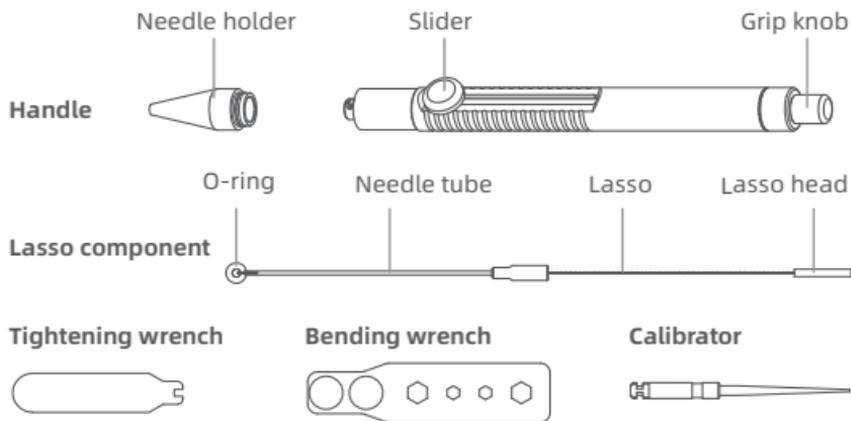


Read this user manual carefully before use for operating instructions.

1. Only use original accessories.
2. It is strictly prohibited to disassemble or modify this product without authorization.
3. Take the curvature of root canal, the thickness of root canal wall and the depth of broken file in root canal into account before use.

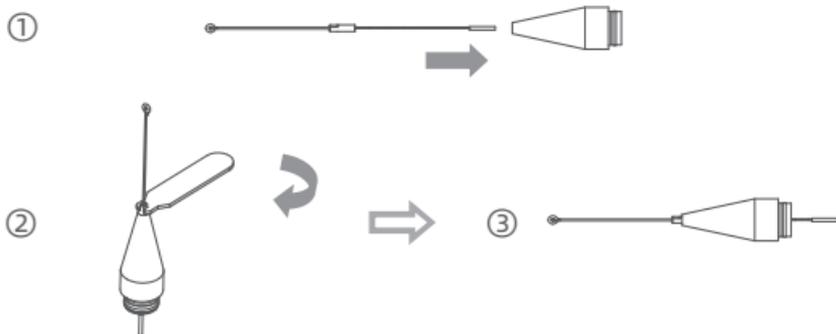
4. Take the advance direction of product and the bending direction of broken file during use.
5. Check the product before use, if damaged, please replace it in time.
6. Sterilize the product before use.
7. The lasso component is a disposable accessory, please do not reuse it.

[Structure and composition]



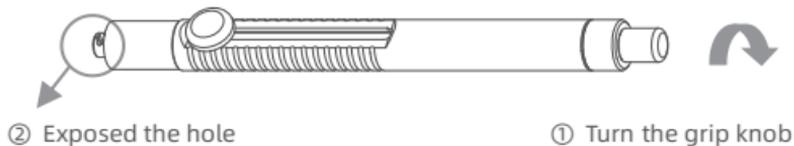
[Installation]

1. Install the lasso component and tighten.



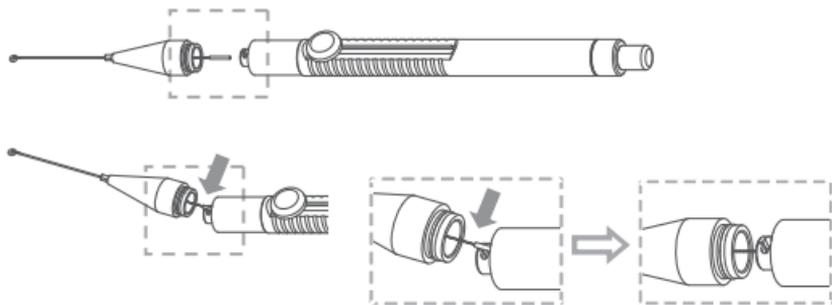
2. Installing needle holder.

Step1: Turn the grip knob to expose the hole;

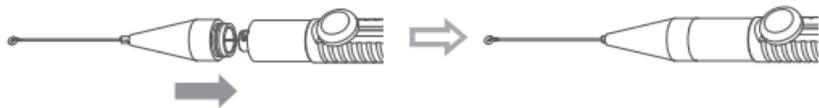


Caution: The slider needs to be placed in the initial position.

Step2: Insert the lasso head into the hole;



Step3: After confirming that it is stuck in place, push the needle holder to the handle housing.



3. Installation completed.



[Step by Step Instruction]

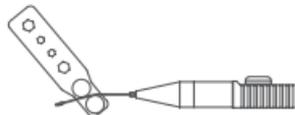
1. Prepare before use

- Choose the gates g-drill to the length that is appropriate for the tooth, remove the dentin until the tip of the g-drill approaches or touches the broken file section.
- Choose suitable NITIPath Drills (80, 90, 110) to remove the dentin until the Channel for file taking is established.
- After incising the dentin, select a Flat Drill of appropriate specifications according to the cross-section size of the broken file, and grind the file channel with low-speed reverse rotation (recommended speed is 150rpm).
- Simple root canal: Select the Trephine and carefully reverse in low speed around the obstruction until broken file reveals 2-3mm to allow the broken file to go over the object, and to be removed.
- Complex root canal: Select the NITIPath Drills(60, 70)and carefully trephine in low speed around the obstruction until broken file reveals 2-3mm to allow the broken file to go over the object, and to be removed.

2. Bend according to clinical needs.



Caution: Please do not bend the needle tube vigorously.



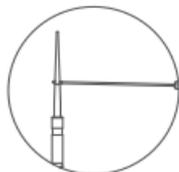
3. Cut and remove the O-ring.

4. Turn the grip knob to tighten the lasso to the appropriate size.



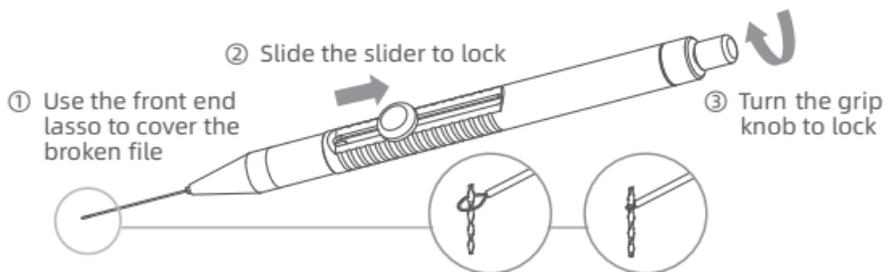
Caution: Please slow down when turning the grip knob to prevent the lasso from being completely retracted into the needle tube.

- Put the lasso loop on the calibrator and place it right on the diameter of the broken file.



Caution: Please do not use the calibrator for other purposes.

- Use the front end lasso to cover the broken file, slide the slider to lock, turn the grip knob to lock, and pull out the broken file.



[Cleaning, Disinfection and Sterilization]

1. Cleaning:

Use clean water less than 38°C to clean the surface of product.
Dry accessories with a clean cloth.

2. Disinfection:

Use medical alcohol to wipe the surface of product.



Caution: Prohibit the use of chlorine-containing disinfectants. Otherwise, it will corrode the metal components.

3. Dry:

After cleaning and disinfection, it is recommended to blow dry with compressed air.

4. Package:

After drying, put the parts in a steam sterilization bag for airtight.



Caution: The steam sterilization bag should meet ISO 11607-1 standard, and package must be sealed with a sealer.

5. Sterilization:

Sterilizable accessories: Handle, Lasso component, Sterilization box.

Sterilization method: High-temperature steam sterilization is recommended.

Sterilizable conditions: at 134°C, not less than 5 min.



Caution:

- The lasso component is disposable and should be disposed of after use.
- Can be re-sterilized at least 250 times.
- Put the product in a dry and dust-free environment after sterilization.

[Accessories Specifications]

Flat drill	F8	Red	19mm	$\phi 0.8$
	F9	Green	19mm	$\phi 0.9$
	F11	Yellow	19mm	$\phi 1.1$

Trepine	H8	Red	19mm	$\phi 0.5 * \phi 0.8$
	H9	Green	19mm	$\phi 0.6 * \phi 0.9$
	H11	Yellow	19mm	$\phi 0.5 * \phi 1.1$

NITIPath Drills	T6	Blue	19mm	60.04
	T7	Green	19mm	70.03
	T8	Black	19mm	80.02
	T9	White	19mm	90.02
	T11	Red	19mm	110.01

[Operating environment ,Storage and Transportation conditions]

Operating Environment:

Storage and Transportation Conditions:

Operating temperature	+5°C - +40°C
Operating humidity	20% - 80%RH
Atmospheric pressure	80kPa - 106kPa

Storage temperature	-10°C - +55°C
Storage humidity	$\leq 93\%RH$
Atmospheric pressure	50kPa - 106kPa

[Production date and Service life]

Service life: 5 years

See the product or label for the production date.

[Guarantee]

This product can be simply repaired on-site by professional operators or caregivers. If any structural parts are found to be damaged, please contact our after-sales service department for repairs.

Handle is covered by 12 months warranty and other accessories are not warranted.

[Symbol]

	Caution		Refer to instruction manual
	Thermo-Disinfector		Autoclave
	Vertical up		Keep dry
	Special disposal of waste electrical and electronic equipment		Fragile
	Serial number		Catalogue number
	Disposable		Manufacturer
	Warning		

[Recycling and Disposal]



Disposal of waste instrument must comply with national regulations and standards. Ensure that all components do not produce pollution during the disposal process.



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