COXO®

2024.6.28

Automatic micro impactor
User Manual

【Product Model】 Ci-1

【Intended Use】

Position and placement of abutment for dental implant.
This product can only be used by a professional dentist in a hospital or dental office.

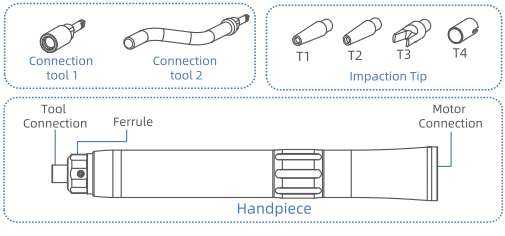
【Accessories】

Handpiece	1
Connection tool 1	1
Connection tool 2	1
Impaction tip	4 (T1, T2, T3, T4)
Operation Manual	1

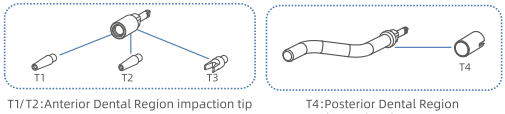
【Caution】 ⚠

1. Before use, all contents of this instruction manual should be read carefully. If the user does not follow the requirements of this instruction manual to operate or use this instrument for other purposes, the manufacturer will not be responsible;
2. Please use the original parts to avoid damage to the equipment;
3. Avoid putting the impaction tip on the vestibule, and protect the lateral cortex from damage as much as possible;
4. During use, please pay attention to protect yourself, patients or third parties from various dangers;
5. After insertion of an equipment, check its correct retention with a slight axial movement;
6. Before use, check that the equipment are not damaged and that no parts are missing. Check the condition of the equipment used and handle them with caution and care;
7. The use of a rubber dam in order to prevent tools falling into the mouth is recommended;
8. The equipment is not sterilized at the factory, please sterilize before use;
9. Please clean, disinfect and sterilize all parts immediately after each use;
10. Do not modify the equipment without permission;
11. In the case of visible malfunctions or damage, stop using the equipment immediately and inform your authorized distributor or the manufacturer.

【Structure and composition】



【Usage of Impaction Tip】



T1/T2:Anterior Dental Region impaction tip
T3:Definitive prosthesic impaction tip

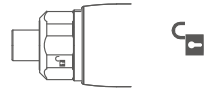
T4:Posterior Dental Region impaction tip

【Step-by-Step Instructions】

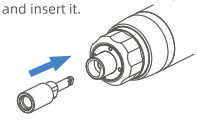
⚠ **Caution:**
- Please do not change or install impact heads while the equipment is in operation, as this may cause injury!
- After insertion of a connection tool, check its correct retention with a slight axial movement.
- If the impaction tip is obviously damaged, replace it in time.

✧ Installation the Impaction Tip

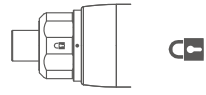
1. Align the arrow on the ferrule with the open padlock.



2. Align the connection tool with the tool connection of the equipment and insert it.



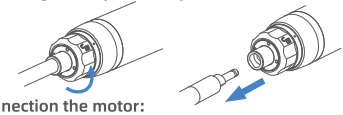
3. Turn the ferrule to align the arrow with the closed padlock.



4. Check that the connection tool are firmly in place by applying gentle traction to them.

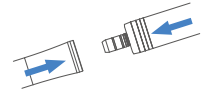
5. Connect the impaction tip to the end of the Connection tool.

✧ Removing the Impaction Tip



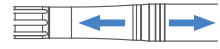
✧ Connection the motor:

Connect the handpiece to the motor until it snaps into place.



✧ Disconnecting the motor:

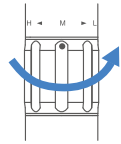
Withdraw the handpiece while holding the axis of the motor.



⚠ **Caution:**
- The handpiece should be connected to the motor while the motor is stationary and outside the patient's mouth;
- Protective gloves should preferably be used whenever the tools are using. Check the condition of the instrument and use it with due care and attention;
- Pull gently on the handpiece every time before use in order to verify that it is correctly engaged on the motor coupling;
- To prevent oil from leaking into the motor, do not leave the instrument connected to the motor if the handpiece is not used for prolonged periods.

【Use】

1) Select the appropriate motor speed and set the motor steering to forward rotation(if the motor is in reverse rotation, the equipment cannot be started);
2) After the equipment is installed correctly, step on the motor pedal to start the work, and release it to stop;
3) The impact force can be adjusted in 3 gears (Low, Medium and High), which can be realized by turning the gear adjusting sleeve;
4) Relationship between the input rotational speed (motor) and the output impact frequency.



Motor speed（r/min）	Impact times per minute
2000	20
5000	50
10000	100
12000	120

Caution:

- The speed of the motor cannot exceed 12000 r/min. If the speed is too high, the device may be damaged!
- If the motor is in reverse, the device cannot be started.
- Applicable motor type: air motor, electric motor.

【Cleaning, Disinfection and Sterilization】

Cleaning:

- Use clean water below 38℃ to flush any visible dirt on the surfaces of the main handpiece and components;
- Scrub thoroughly with a soft brush dampened with the cleaning solution for at least 3 minutes, then rinse under flowing tap water (<40℃) for at least 1 minute;
- Dry the cleaned parts with a clean cloth.

Disinfection:

Wipe the surfaces of all parts with 75% medical alcohol.

Caution: Do not use disinfectant containing chlorine to clean the equipment, otherwise it will corrode the metal parts!

Sterilization:

After cleaning and disinfection,please dry it. It is recommended to use compressed air (1-2Bar) to dry it.

Inspection and maintenance:

1) Remove the handpiece from the motor, align the fuel injection nozzle with the motor connection of the handpiece, injection after pressing tightly, and the oil injection tank must be upright when spraying;
2) Place the handpiece head down and spray until the nose spills clean lubricating oil.

Caution: Please clean, disinfect and lubricate the handpiece before sterilization!

Package:

After drying, immediately put each parts into a steam sterilized bag for sealing and packaging.

Caution: Steam sterilized bags according to ISO 11607-1 should be used and the packaging must be sealed with a sealer.

Sterilization:

Sterilized parts: Handpiece, Connection tool, Impaction tip;
Sterilization method: Sterilization of equipment by applying a fractionated pre-vacuum steam sterilization process;
Sterilization requirements: 3 min at 134℃ (in EU: 5 min at 134℃).

Caution:

- After sterilization, store the equipment in a dry and dust-free environment until the next use.
- The handpiece can be sterilized for 250 times，the connection tool and impaction tip can be sterilized for 100 times.

【Technical Parameter】

Handpiece size	143mm*20mm
Product weight	120g
Motor connector	ISO 3964
Energy	Mechanics (impacts)
Motor output torque	≥0.75N.cm

【Environment Conditions】

Operating environment:

Ambient temperature	+5 ℃ - +40 ℃
Relative humidity	20% - 80%RH
Air pressure	80kPa - 106kPa

Transport and storage environment:

Ambient temperature	-10℃ - +55℃
Relative humidity	≤93%RH
Air pressure	50kPa - 106kPa

【Guarantee】

1) The expected service life of the equipment is 5 years.
2) This equipment does not contain spare parts for self-maintenance, and machine maintenance should be carried out by professionals designated by the manufacturer.
3) The handpiece warranty period is 12 months from the date of purchase, the rest of the accessories are not guaranteed, damaged or used up can be purchased from our company.

【Standard Symbols】

	Caution		Refer to instruction manual
	Thermo-Disinfector	134°C	Sterilizable in a steam sterilizer (autoclave) at the 134℃
	Do not dispose of the product into the ordinary municipal waste or garbage system		Type B applied part
SN	Serial number		Manufacturer

【Recycling and Disposal】

In accordance with the principles, standards and requirement of the country (region) in which you are located, dispose of the old electrical equipment. Ensure that pollution is not produced in the process of waste disposal.

Foshan COXO Medical Instrument Co. , Ltd.
No. 17, Guangming Ave., New Light Source Industrial Base, Nanhai National High-tech Zone, Foshan 528226, Guangdong P.R. China

Ver: 1.0 Revision Date: 2024-6-28 AH0149