

**Low-speed external dental handpieces
Operation Manual**

Dear dentist:

Thanks for choosing our handpiece, and hopes that you will benefit greatly from working with your new product. Please observe the following notes to assure continued trouble-free, economical and safe product operation. In case of any products fault, please consult local Customer Assistance.

【Parameter】

It is consist of air motor, straight handpiece and contra angle.

Table 1.

Table 1 Basic Parameter

Descriptions	E-type Low-speed 1:1, with external cooling system
Air pressure	245~392kPa (2.5-4.0 kgf/cm ²)
Atomized water pressure	200 kPa
Atomized air pressure	200 kPa
Rotation Speed	16 000~20 000r/min
Chuck type	Push button/ Latch type
Bur applicable	Φ2.334~2.350 mm
Noise	≤70dB

【Application】

Professionally used by dentists as cutting tools for drilling or grinding teeth.

【Attention】

- Ensure that handpiece are only used for oral prevention and treatment, any other use is strictly forbidden.
- Please carefully to use dental handpiece to avoid injury and infection.
- Only to be used by a qualified dental practitioner.
- Before using, please check bur and function of the chuck at outside

of oral cavity of patients, if loose, too much vibration, irregular noise or too much heating up etc, please do not carry on.

- If any unusual cases occurred, please stop and contact our authorized office.
- The damaged cartridge may result in high noise, long time suing will lead to negative influence.
- Please use standard bur. The bent, damaged, flawed and not standard bur may result in "BUR-WALK-OUT " or injure accident.
- Using not standard bur result in damage to the dental handpiece.

- Please keep chuck clean, if the contaminant or foreign particles get inside, it may cause vibration, weak chucking power, or other abnormalities.
- Please drain air compressor to ensure handpiece operation well.
- Ensure to use bur in the right speed rotation and correct bur type which stated in the manufacturer instructions.
- Please remove bur from handpiece when finish treatment to avoid injure and infection.
- Do not insert or remove bur while the bur is rotating.
- Forbidding disassembling or refit.

- Avoiding crash and drop.

【Remarks】



sterilization temperature

II. Main structure

This product is consist of straight handpiece, contra angle and air motor.(Fig.1)

(1) Straight handpiece

(2) Contra angle

(bur shank dimension: $\phi 2.35\text{mm}$) (bur shank dimension: $\phi 2.35\text{mm}$)

(3) Air motor



Fig.1



III. Instruction for use

1. Bur inserting & removal

1) Latch type contra angle

a) Connecting the bur: Swing the latch, put the bur inside the head and make sure the notch of the bur match with corresponding part of the spindle. Then, swing the latch to the original position.

b) Disconnecting the bur: Swing the latch to unlock the bur, and then take out the bur.

2) Straight handpiece

Turn the bur Lock Ring all the way in the direction of arrow marked "open" to open the chuck, remove out the bur.(Fig.2)

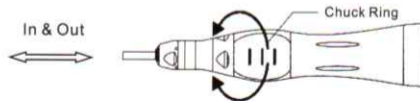


Fig.2

Turn the bur Lock Ring all the way in the direction of arrow marked "open" to open the chuck, insert bur into chuck, return the bur Lock Ring in the direction of "close" until a click sound is heard(Fig.2).

2.Irrigation

When water is needed, please connect the plastic tube with the water outlet of air motor, and connect the other end of the plastic tube with the irrigation tip. As the plastic tube is little bit long, please cut the tube according your situation.(Fig.3)

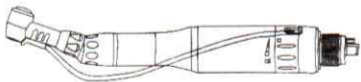


Fig.3

3. Handpiece inserting & removal

1) Inserting

Insert the E-type handpiece onto the motor and turning all the way until it click to stop.(Fig.4)

2) Removal

Grip both handpiece and motor respectively, pulling and separating (Fig.4)



Fig.4

4. Forward/Reverse Rotation

1) Forward Rotation: Turn the FWD/REV change ring to "F" as shown in Fig.5

2) Reverse Rotation: Turn the FWD/REV change ring to "R" as shown in Fig.6

3) When the FWD/REV change ring is positioned in the middle of "F" and "R", the drive air is interrupted and the motor does not rotate Fig. 7

4) When FEW/REV change ring is positioned in F or R, the rotation speed is maximum.



Fig.5



Fig.6



Fig.7

【Maintenance & Care】

After each treatment, Sterilizing handpiece in autoclave according to the following steps:

1. Remove the bur and brush clean handpiece, clean outside of handpiece with an alcohol solution.
2. Lubricate handpiece, each times drop two drops inside of air inlet pipe.
3. Place into autoclaving pouch and mark.
4. Autoclave the handpiece for 12 min. at 135°C.

【Period of Use】

2years

【Storage】

1. Handpiece should be packed well and place at clean and dry room with temperature-10 °C ~40 °C, relative humidity not over 80%.
2. Moisture proof, avoiding sunshine and heat source during transport.

【Lubrication】

Disconnect the motor from the handpiece hose, and supply a few drops of air turbine oil or oil spray for a few seconds into the drive air tube at the back end of the motor as in Fig8.

Lubricate after each use and/or before autoclaving. Spray one or two drops each time with air turbine oil or spray for one or two seconds with oil spray.



Fig.8