

Thank you for purchasing the HEALIX ENDOMATIC

Indications

HEALIX ENDOMATIC is an endodontic micromotor to drive NiTi instruments. This motor has to be used only in hospital environments, clinics or dental offices by qualified dental personnel. Read this Operation Manual carefully before use for operation instructions, care and maintenance. Keep this Operation Manual for future reference.

Contra-indications

In cases where a patient has been fitted with an implanted heart pacemaker (or other electrical equipment) and has been cautioned against the use of small electrical appliances (such as electric shavers, hair dryers, etc.) it is recommended that the HEALIX ENDOMATIC not be used.

This motor should not be used for severe curved root canal preparation. Do not use Healix Endomatic for implant or any other dentist procedure outside endodontics.

Warnings

- Do not disassemble or alter the motor hand piece.
- Do not expose HEALIX ENDOMATIC, motor hand piece foot switch to any liquid.
- If you should notice, deformation of the motor hand piece casing or partial discoloring or unit casing, immediately stop use and contact your dealer.
- The system may present the possibility of malfunction when used in the presence of electromagnetic interference wave. Do not install the system in the vicinity of the device which emits magnetic waves.
- Do not use in the presence of flammable products.
- This motor is equipped with an electronic circuit to limit file breakage. Nevertheless, files may still break due to higher torque conditions or to fatigue resistance.

Precautions

- The RPM number indicates true instrument speed.
- If the motor stops or runs too fast, discontinue use and call for assistance.
- Do not introduce any oil into the micromotor.
- The system functions normally in the environment where the temperature is at 10 - 40 °C (50 - 104 °F), humidity at 10 - 85% RH, atmospheric pressure at 500-1060hPa, and no moisture condensation in the Control Unit. Any use outside these limits may cause malfunction.
- Do not use a bent, damaged, deformed or non-ISO-conforming file. Using such a file may result in personal injury due to its unexpected breaking or "flying off" during rotation.
- Check the product before use by rotating it; paying attention to looseness, vibration, noise and temperature (heat generation). If any abnormal condition is found even slightly at that time, immediately stop use and contact your dealer.
- Always clean the shank of the file to be installed. Allowing dirt to enter the chuck could cause loss of concentricity and deterioration of chucking force.

- Before changing the head or bur, turn off the power of the motor hand piece. Changing with the power kept on may cause unintended rotation by accidental touch of the foot switch.
- EQUIPMENT not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- When the reverse rotation (R) is set, the auto reverse function is not activated.

Notice

- When disposing of the control unit and foot pedal (optional), follow the instructions of your local government for disposal, as they contain materials which may become industrial waste.
- When discarding the contra angle head and motor hand piece, dispose of them as medical waste.
- Users are responsible for operational control, maintenance and inspection.
- Store the system in the place where the temperature is at -10 - 50 °C (14 - 122°F), humidity at 10 - 85% RH, atmospheric pressure at 500 - 1060 hPa, and the system is not subject to air with dust, sulfur or salinity.

Adverse reactions: none known

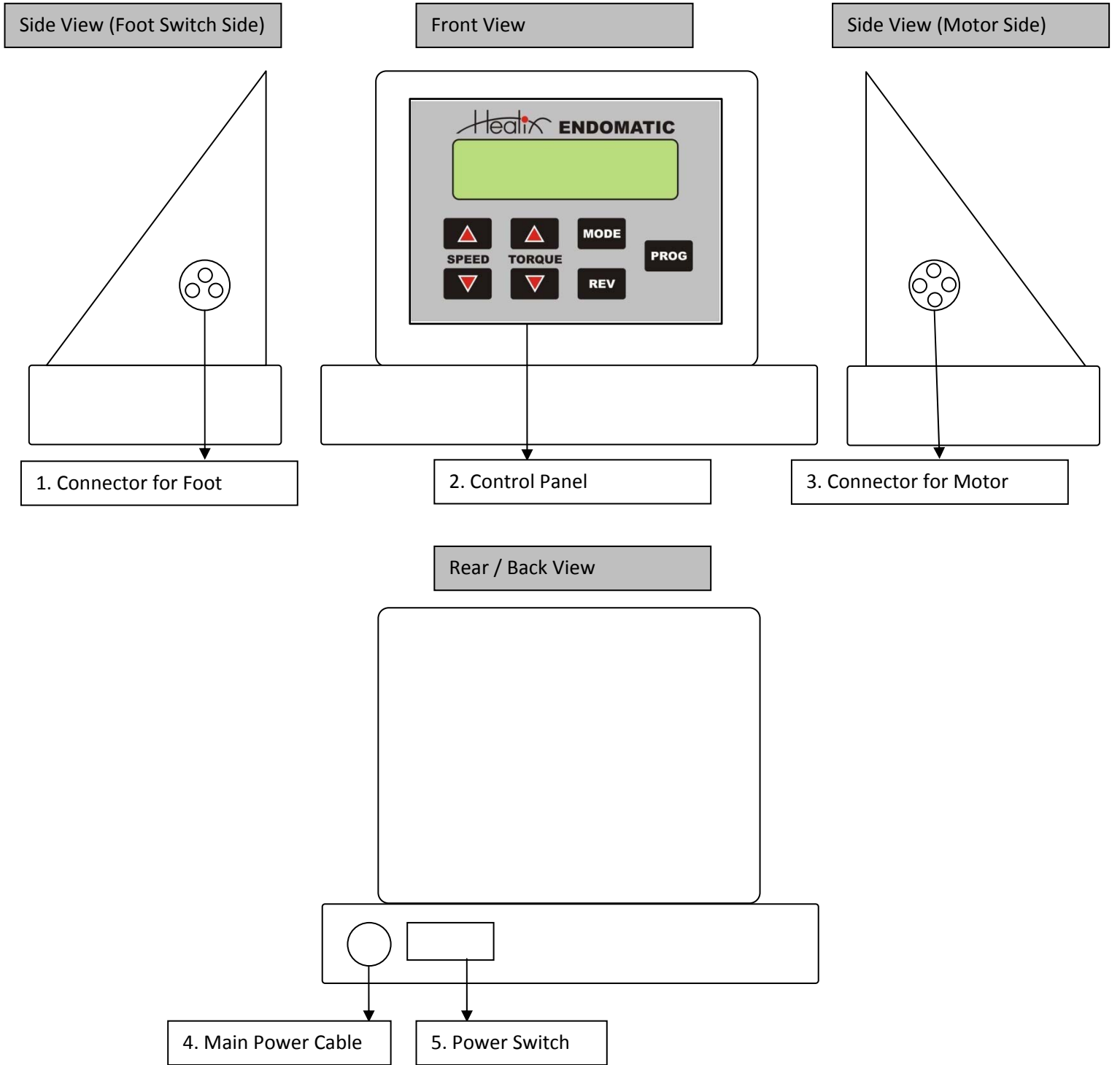
Product Specifications:

Rated input	AC 230V	50/60 Hz
Output	DC12V 1 A	

Sterilization

- Sterilize the contra angle only.
- For the sterilization method, we recommend the autoclave sterilization method.
- Autoclaving
 1. Brush the dirt off the surface of the contra angle head, and wipe off with a cotton cloth moistened with rubbing alcohol. Do not use metal brush.
 2. Lubricate the head with an appropriate spray.
 3. Insert the head into an autoclave pouch and seal it.
 4. Autoclave for 18 min. at 134°C (274°F)

Product Description:



Parts:

1. Control Panel
2. Motor
3. Foot Switch

How to Connect the Parts:

- 1) Connect the Foot Switch Connector to the Foot Switch Connector on the Control Panel
- 2) Connect the Motor Connector to the Motor Connector on the Control Panel
- 3) Plug the Power Cable into the Power Socket of 230V

Directions for Use:

- 1) Plug the Main Power Cable in the 230 V Power Socket.
- 2) Turn on the Power Switch on the back of the main control unit.
- 3) Pressing the Foot Pedal would rotate the File in the Contra- Angle.

Settings:

Speed Setting:

The Speed of the motor can be adjusted between 125 rpm to 625 rpm. This can be done by pressing the SPEED buttons (▼ ▲) on the control panel.

Torque Setting:

The limiting Torque of the motor can be adjusted between 3mNm to 52mNm by pressing the TORQUE buttons (▼ ▲) on the control panel.

Mode:

There are three modes available for the limiting torque on the motor. Any one of the three modes can be selected by pressing the MODE button

Auto Stop:

When the load / resistance to the file on the motor exceeds the set torque value, the motor would automatically stop. It would start only when you lift the foot off the switch and press it again.

Auto Reverse:

When the load / resistance to the file on the motor exceeds the set torque value, the motor would automatically rotate in the reverse direction. It would continue to reverse until lift the foot off the switch and press it again.

Auto One Cycle Reverse:

When the load / resistance to the file on the motor exceeds the set torque value, the motor would automatically rotate in the reverse direction for a few turns and again start rotating in the normal direction.

Programs:

The PROGRAM button is used to set 10 programs for specific Torque and Speed Settings.

This product has 0 to 9 programmable settings. You can change any preset values and have them saved to your desired settings (rotation speed, torque limit value, mode).

1. Press the PROGRAM key until it turns to the program number that you want to memorize.
2. Adjust the rotation speed, torque limit value, gear ratio and auto reverse mode by each key according to your needs.
3. Hold down the PROGRAM key for more than one second. The Screen would then show that the Program has been saved.

Speed and Torque Settings for Typical File Systems:

Protaper System	Speed rpm	Torque mNm
S1	375	25
S2	375	15
F1	375	20
F2-F3	375	30
SX	375	35
Gates Gliddens	Speed rpm	Torque mNm
#1	625	9
#2	625	15
#3	625	20
#4-5-6	625	35
Profile Rotary Files	Speed rpm	Torque mNm
0.2 Taper 15-35	375	9
0.2 Taper 40	375	12
0.4 Taper 15-30	375	9
0.4 Taper 35-40	375	12
0.4 Taper 45	375	25
0.4 Taper 60-90	375	35
0.6 Taper 15-25	375	18
0.6 Taper 30-40	375	25
OS1	375	18
OS 2-4	375	25
OS 5-6	375	35
Profile GT Rotary Files	Speed rpm	Torque mNm
#20 / 04-06	375	12
#20 / 08	375	18
#20 / 10	375	25
#30 / 04	375	12
#30 / 06	375	18
#30 / 08-10	375	25
#40 / 04	375	18
#40 / 06-08	375	25
#40 / 10	375	35
Accessory	375	35
MicromMega Hero Shaper	Speed rpm	Torque mNm
20 – 4%	375	9
25 – 4%	375	9
30 – 4%	375	9
20 – 6%	375	15
25 – 6%	375	15
30 – 6%	375	15
Endoflare	375	30