CAUTION

- When operating the product, always consider the safety of the patient.
- Place the most priority for the safety of all patients.
- When it is found abnormal during use, stop immediately. Do not use, and report to the dealer that was purchased from.
- Do not disassemble the sheath except for the referred to herein, nor alter.
- Do not impact on the sheath, nor drop onto hard surface.
- Always watch for vibration, sound, temperature rise, bur wobble, and other abnormalities.
- Disconnect the sheath after the driver unit is in complete stop.
- The device accepts NSK Y-type heads.
- When the sheath might be subjected to a high torque, such as in implant application, use the I-type sheath (ER16i, ER20i, ER32i, ER64i, ER256i) with I-type head.
- In case blood or contaminants entered the head, immediately remove the head cartridge and the transmission gear. Clean and lubricate them. Assemble carefully.
- Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

1. Speed

Allowable Max. Speed: 40,000 min⁻¹ (rpm)

<table>
<thead>
<tr>
<th>Sheath Type</th>
<th>Bur Speed (min⁻¹)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM ER4M ER10M ER16M ER64M ER128M</td>
<td></td>
</tr>
<tr>
<td>EC</td>
<td>ER4</td>
</tr>
<tr>
<td>40,000</td>
<td>40,000</td>
</tr>
<tr>
<td>30,000</td>
<td>30,000</td>
</tr>
<tr>
<td>20,000</td>
<td>20,000</td>
</tr>
<tr>
<td>10,000</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Note: The bur speed might be slightly lower than the theoretical speed as given above, due to a loss at the gear train.

2. Contra Angle Heads

All NSK Y-type contra angle heads fit the sheath.
Set the contra angle head as shown in Fig.1 for alignment, and securely fasten the head nut.

[Diagram of Contra Angle Head]
3. Lubrication

Supply PANASPRAY Plus / PANASPRAY after each use and/or before autoclaving.
1. Push E-type spray nozzle attachment over the PANASPRAY Plus nozzle until it firmly seats.
2. Shake the can 3-4 times to well mix lubricant and propellant.
3. Insert the E-type spray nozzle in the rear of the handpiece and spray for approximately 2-3 seconds until the oil comes out of the handpiece head or nose.

CAUTION
- Be sure to hold the handpiece firmly to prevent the handpiece from slipping out by the spray pressure when lubricating.
- Keep the spray can upright.

4. Cleaning and Sterilization

The products listed below are washable with Thermo Disinfector, ECM, ER4M, ER10M, ER16M, ER84M, ER128M.

Sterilization by autoclaving is recommended. Sterilization is required first time you use and after each patient as noted below.

- Autoclaving procedure
  1. Brush off dirt and wipe clean with alcohol-soaked cloth or paper towel.
  2. Remove reduction sheath from the motor and lubricate. Ref.3 Lubrication.
  3. Insert the handpiece into the sterilization pouch that conforms to ISO 11607-1, and seal the pouch.
  4. Perform steam sterilization with the following conditions.

<table>
<thead>
<tr>
<th>Type</th>
<th>Gravity Displacement</th>
<th>Pre-Vacuum (Dynamic Air Removal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>132°C (270°F)</td>
<td>132°C (270°F)</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>15min</td>
<td>4min</td>
</tr>
<tr>
<td>Drying Time</td>
<td>30min</td>
<td>30min</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
<td>Only for USA / Canada</td>
</tr>
</tbody>
</table>

- Keep the handpiece in the sterilization pouch to keep it clean until you use it.
- NSK recommends sterilizers according to EN 13060 or ISO 17665-1. Follow local rules, regulations, and guidelines regarding the reprocessing of devices.

CAUTION on Sterilization
- Heating element may be located at the bottom of the chamber, and the temperature there locally may exceed the set value. Place the handpiece on the central or upper tray.
- Do not autoclave the handpiece, even when it is bagged, together with other instruments, from which chemicals are not sufficiently cleaned. This is to avoid discoloration and/or damage the plating of the handpiece.

The EU directive 93/42/EEC was applied in the design and production of this medical device.

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Specifications are subject to change without notice.

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