Caution

• When operating the handpiece always consider the safety of the patient.
• The handpiece is designed only for dental clinical use.
• Do not disassemble the handpiece except for the referred to herein, nor alter.
• Check the vibration, noise and overheating outside the patient’s oral cavity before use. If any abnormalities are found, stop using immediately and contact your dealer.
• Depressing the push-button while handpiece bur is in rotation will result in OVERHEATING of the handpiece head. Special caution must be exercised during use to keep cheek tissue AWAY from the push-button of the handpiece. Contact with cheek tissue may cause the push-button to depress and injury to the patient may occur.
• Do not allow any impact on the sheath. Do not drop the handpiece.
• Do not use bent, damaged, or sub-standard burs. The shank could be bent or broken even within the recommended speed.
• Always keep the bur shank clean. Entry of debris into the chuck could cause bur run-out, looseness and the bur could not be mounted inmost.
• Do not exceed the drive motor speed recommended by the bur manufacturers.
• Do not operate the handpiece without the bur or bur blank.
• Always mount the bur or the bur blank even when the handpiece is not in use.
• Do not connect or disconnect the handpiece until the drive motor has completely stopped.
• Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

1. Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>FFB-Y</th>
<th>FFB-Y</th>
<th>NRS2-Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear Ratio</td>
<td>1:1</td>
<td>1:1</td>
<td>10:1 Reduction</td>
</tr>
<tr>
<td>Allowable Max. Speed (motor)</td>
<td>40,000 min</td>
<td>40,000 min</td>
<td>30,000 min</td>
</tr>
<tr>
<td>Bur Size</td>
<td>ISO 1797-1 Type 1</td>
<td>ISO 1797-1 Type 3</td>
<td>ISO 1797-1 Type 1</td>
</tr>
</tbody>
</table>

2. Mounting and Removing Bur

Caution

Do not connect or disconnect the handpiece until the drive motor has completely stopped.

(1) Mounting
- At FPB/NRS2 (Latch Bur)
  Mount the handpiece to the Motor.
  Insert the latch bur into the head. Lightly turn the bur until it engages with the latch mechanism. Push it inward to click. (Fig. 1)

(2) Removal
- Push the push button with a thumb, and the bur is removed. (Fig. 4)
3. Lubrication

Supply PANA SPRAY Plus / PANA SPRAY or NSK automatic handpiece cleaning and lubrication system after each use and/or before autoclaving.

- PANA SPRAY Plus / PANA SPRAY (Fig. 5)
  1) Mount the E-type spray nozzle into the spray port.
  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.

**Caution**

- Be sure to hold the handpiece firmly to prevent the handpiece from slipping out of hand by the spray pressure when lubricating.
- Supply lubricant until it comes out of the handpiece head (for approx. 2 seconds).
- Hold the PANA SPRAY Plus / PANA SPRAY can upright.

- NSK automatic handpiece cleaning and lubrication system

When using NSK automatic handpiece cleaning and lubrication system, refer to the system instructions.

4. Cleaning and Sterilization

The products listed below are washable with Thermo Disinfector. P: FB/ECM / ERMM / ER9MM / ER94MM F: FB/ECM / ERMM / ER9MM / ER94MM Steam autoclave is recommended. Sterilization is required first time you use and after each patient as noted below.

**Autoclave Procedure :**

1) Scrub dirt and debris from the handpiece, and wipe clean with alcohol-immersed cotton swab or cloth. Do not use a wire brush.
2) Lubricate with PANA SPRAY Plus / PANA SPRAY. Refer to 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.
5) Keep the handpiece in the autoclave 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**

- Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

5. Cartridge Replacement (FPB)

1) Loosen the union nut and remove the head from the sheath.
2) Pull out the drive gear assembly from the head. (Fig. 6)
3) Place cap wrench on the head cap and turn counterclockwise. Unscrew and separate the cap. (Fig. 7)
4) Insert a ø2.35mm round rod from the front of end. Push up the round rod, and cartridge and washer are removed from the top end of the head. (Fig. 8, 9)
5) Before inserting a new cartridge, clean the head interior with PANA SPRAY Plus.
6) Insert a washer and the new cartridge with its pin aligned in the head. Hand tighten the cap until finger tight and secure with wrench.

Optional Cartridge : Order No. C875060

**Caution**

The head cap screw thread is very fine. To prevent it from breaking, use of the wrench from the first thread is not recommended.