**Intended to Use**

This handpiece is designed only for dental treatment use.

**Caution**

- When operating the handpiece always consider the safety of the patient.
- Do not attempt to disassemble the handpiece nor tamper with the mechanism.
- Check for vibration, noise and overheating outside the patient’s mouth. If any abnormalities are found do not operate. Contact authorized dealer for service.
- Should the handpiece run abnormally, cease operation immediately and return the handpiece to an authorized dealer for repair.
- Do not exceed the rotation speed shown in Specifications.
- 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 to the handpiece. Do not drop the handpiece.
- Always keep bur shanks clean. Dirt or debris in a chuck could cause poor bur concentricity or low chuck retention force.
- Remove the bur or handpiece only after it has completely stopped rotating.
- Do not use long surgical burs. Do not use burs longer than 26mm.
- Do not wipe nor immerse the handpiece in acidic water or acidic solutions.
- Perform periodical maintenance checks.
- If the handpiece has not been used for a long period, check for noise, vibration, and overheating before use.
- Refer to the coupling manual for connecting it to the handpiece hose.

**1. Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Head Type</th>
<th>Rotation Speed</th>
<th>Drive Air Pressure</th>
<th>Spray Type</th>
<th>Chuck Type</th>
<th>Bur Size</th>
<th>Optics</th>
<th>Head Diameter</th>
<th>Head Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>X500KL/X600KL/X700KL</td>
<td>Miniature</td>
<td>380,000 ~ 440,000min⁻¹</td>
<td>0.25MPa (2.5kgf/cm²) ~ 0.3MPa (3.0kgf/cm²)</td>
<td>Quatro Spray</td>
<td>ISO1797-1 Type 3</td>
<td>ø1.59~1.60</td>
<td>—</td>
<td>11.3mm</td>
<td>13.6mm</td>
</tr>
<tr>
<td>X500KL/X600KL/X700KL</td>
<td>Standard</td>
<td>380,000 ~ 440,000min⁻¹</td>
<td>0.25MPa (2.5kgf/cm²) ~ 0.3MPa (3.0kgf/cm²)</td>
<td>Quatro Spray</td>
<td>ISO1797-1 Type 3</td>
<td>ø1.59~1.60</td>
<td>—</td>
<td>11.3mm</td>
<td>13.6mm</td>
</tr>
<tr>
<td>X500KL/X600KL/X700KL</td>
<td>Torque</td>
<td>300,000 ~ 360,000min⁻¹</td>
<td>0.25MPa (2.5kgf/cm²) ~ 0.3MPa (3.0kgf/cm²)</td>
<td>Quatro Spray</td>
<td>ISO1797-1 Type 3</td>
<td>ø10.3mm</td>
<td>—</td>
<td>11.7mm</td>
<td>13.6mm</td>
</tr>
</tbody>
</table>

**2. Connection / Disconnection the Handpiece**

First make sure the manufacturer’s coupling is firmly attached to the handpiece tubing and the drive air pressure is correct.

For detail, refer to the coupling manual.

**Caution**

Check tightness at the connection between the coupling and the handpiece.

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**3. Insertion/Removal of the Bur**

**3-1 To Insert the Bur**

1. Press the Push Button
2. Insert the Bur until it is secure

**3-2 To Remove the Bur**

1. Press the Push Button
2. Remove the Bur

**Caution**

Test that the bur is secure by gently pulling and pushing the bur without depressing the Push Button.

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**4. Cautions for Bur Usage**

- Do not use non-standard burs. The ISO standard shank diameter is ø1.59 - ø1.60 mm.
- Do not use bent, worn, damaged, or non-concentric burs.
- Always use within the bur manufacturer’s recommended allowable speed.
- Always use clean burs. Uncleaned burs may allow debris to build up inside chuck, causing weak bur retention or premature chuck wear.
- Insert the bur all the way into the chuck until it stops with the push-button fully depressed.
- Do not use short shank burs in Standard or Torque head handpiece.
5. Lubrication

- All handpieces can be autoclavable up to Max. 135°C.
- All handpieces can be cleaned and disinfected with a thermo disinfector.

6. Sterilization

- Autoclave sterilization 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 the handpiece. (Refer to 5. Lubrication)
  3) Insert into an autoclave pouch. Seal the pouch.
  4) Autoclavable up to max. 135°C. (ex.) Autoclave for 20 min. at 121°C, or 15 min. at 132°C.
  5) Keep the handpiece in the autoclave pouch to keep it clean until you use it.

7. Replacing the optic illumination bulb (X WL, X BL Series)

- Loose the Taper Ring and remove it.
- Pull out the Joint and remove the Bulb Holder and replace the new Bulb.
- Return the Bulb Holder to the handpiece and Tighten the Taper Ring.
- Optional Bulb: TA Bulb (Pack of 3) Order No.Y900132

8. Cleaning the Cellular Glass Rod Optic

- Wipe clean the Cellular Glass Rod Optic Entry Point and Exit Point with an alcohol-immersed cotton swab.

Caution
- Do not use sharp tool to clean the cellular glass optic rod. It could damage the glass and reduce the light transmission. If illumination becomes dim please contact your dealer.