Titanium Body Air Scaler

Ti-Max

S950KL (For KeTool® M3, Ti-Max® UK)
S950L (For SlimLine® Quicksnap® Dental)
S950WL (For Wang® Roto Quicksnap®)
S950BL (For Bone-Air® Ultra®)

Please read this Operation Manual carefully before use, and file for future reference.

MADE IN JAPAN

OPERATION MANUAL

CAUTIONS IN HANDLING

Read these cautions carefully to correctly use the intended use.

Failure to understand and follow the instructions contained in this manual may result in personal injuries or damage to the device. Safety instructions are identified as follows in accordance with the seriousness of the risk:

Class Degree of Risk
I Class 1: Degree 1: Risk of a hazard that could result in bodily injury or damage of the device.
II Class 2: Degree 2: Risk of a hazard that could result in loss of grip which can cause bodily injury or damage of the device. The safety instructions are not followed.

WARNING

Failure to address the recommended air pressure at the back of the air scalpel. Excessive air pressure might cause the scalpel tip to accidentally leave the wound.

Do not use the tip out of the range that is recommended air pressure. Caution is requested not to harm the patient.

Do not use a tip on an object that is too tough, or it might result in damage to the device.

CAUTION

Place the most portion of the patient's safety.

Do not exceed the recommended air pressure.

Do not exceed 0.5 HP (3580 kgf/cm²) for the setting air pressure of the denture.

Do not exceed 0.6 HP (4340 kgf/cm²) for the setting air pressure of the denture.

Do not disassemble, for the air scalpel.

Do not drop, hit, or subject to excessive shocks.

Check the adjustment, hose, and connecting户外 of the patient's mouth before initial use. If any abnormalities are found in use, stop using immediately and contact your dealer.

Stop the air supply and replace the tip or connect or disconnect the air scalpel.

Check the operating manual and connect it to the hardwared line.

1. Features

- Titanium has higher weight and better fit than in.
- Titanium material is (tooth) hard.
- High-speed and low noise air scalpel.
- One button of the tip can be adjusted.
- The air scalpel can be delivered with KAY Soft-Max® Dental, SlimLine® Quicksnap® Dental and Wang® Roto Quicksnap® Dental.
- Ductlock® Bite Retention working area in both.
- Autoclavable up to 134°C.

2. Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Consumption</th>
<th>Oscillation (at pressure regulator at level 1)</th>
<th>Weight</th>
<th>Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>S950KL</td>
<td>25 ± 5 L/min.</td>
<td>5.000 - 5.010 Hz</td>
<td>74 g</td>
<td>44 g</td>
</tr>
<tr>
<td>S950L</td>
<td>25 ± 5 L/min.</td>
<td>5.000 - 5.010 Hz</td>
<td>83 g</td>
<td>44 g</td>
</tr>
<tr>
<td>S950WL</td>
<td>25 ± 5 L/min.</td>
<td>5.000 - 5.010 Hz</td>
<td>83 g</td>
<td>44 g</td>
</tr>
</tbody>
</table>

3. Installation and Supply Air-Pressures

- Be sure to read the operation manual for instructions before use.

4. Use Dry, Clean Air

- Molds and debris in dry air may cause the air scalpel to malfunction. It is important to clean the air compressor regularly, and any air filter in a header is installed in the air lines.

5. Scaler Tips

- Three types of scaler tips as shown in Fig. 3 are provided as accessory items. Type applications are explained below.

a. Universal Type

b. Serrated Type

c. Thick-walled Type

- Remove tips after use, and dry them, especially ingress port and thread by air syringe.

- Do not dry cleaning by the tips to prevent it, which may result in premature failure and injury.
6. Changing Tips
To mount the tip, screw the tip ( Fig. 4) onto the tip holder (Fig. 5) in the provided wrench tool and align the shapes of holes and tips. Turn the wrench until the three tips are heard (Fig. 5).
To remove the tip, reverse the above steps and turn the tip in the direction as shown in Fig. 5.

**WARNING**
- Always use the wrench to securely tighten the tip; loose tip may cause contamination and cause injury.
- Do not use tips that are broken, dulled, or have bent or damaged tips and wash them before reusing.
- Tips with bent or damaged tips may not function properly.
- Erroneously ending tip by impacting the tip.
- Do not grip or pull on the tip.
- Do not force the tool to protect.

7. Lubrication
Lubricate the air scalers every three days. Use NSK KAB (Code number: 1381, 1111), (Fig. 6) to keep the air scalers in the coupling and operate the air scalers in the coupling for 6 seconds.

**CAUTION**
- Do not apply lubricant to the air scalers; the air scalers could come off by the pressure of the spray.

8. Cleaning and Sterilization of Air Scaler

**This Air Scaler can be used via the sterilization method.**
- **Sterilization Method**
  - Wash all parts and dry with alcohol-based liquid. Do not use aqueous solution.
  - Place all parts in the autoclave.
  - Autoclave: 120°C, 15 minutes. 
  - **Precautions:**
    - Do not use the air scaler after sterilization.
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9. Changing Bulb (SHOPL, SHORL)
Remove the handpiece from the coupling. Insert and remove the tap (Fig. 7). Remove the bulb holder, the bulb from the pipe, and align the models on the new bulb with the receptacle in the bulb holder and put the bulb (Fig. 8). Pull the bulb holder back into the pipe (Fig. 9).

**CAUTION**
- Do not damage the bulb holder or the bulb by force. 
- Do not hold or touch the edge of the new bulb.
- Screw in the tap as tightly as possible if the tap is not securely fastened.

10. Cleaning of Fiber Bundles

Carefully remove any dust or debris from the end face of the fiber bundle with an alcohol-based cotton swab (Fig. 10).

**CAUTION**
- Do not use a needle or pointed tool; they may damage the fiber and reduce the light transmission efficiency.
- In case the light source emits dim due to fiber damage, send the device to the dealer to obtain service.

**APPENDIX**
- The illustrations and images are approximations of the actual products. Specifications are subject to change without notice.