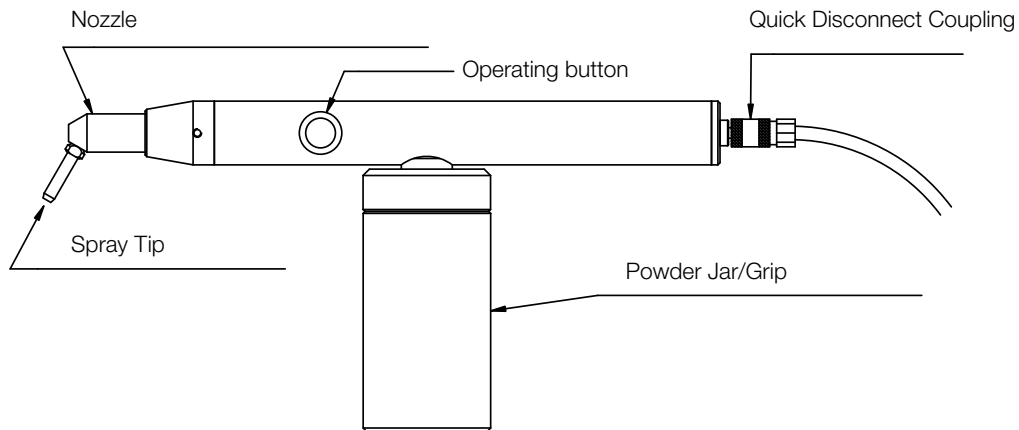


# DENTO-PREP™

## ALUMINIUM OXIDE MICRO-BLASTER

### INSTRUCTIONS FOR USE

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#### **DENTO-PREP™ Particle Micro-blaster:**

These instructions should be studied carefully before taking the device into use.

#### **Product description:**

DENTO-PREP™ is used with aluminium oxide powder for preparation. The device operates on compressed air from 3-7kg/cm<sup>2</sup> (3-7 bar, 43,5 - 101,5 psi). It is essential that the air is completely dry and oil free, so please check that your main air line is mounted with filter and water trap.

#### **Compatibility:**

The DENTO-PREP™ connectors comply to EN ISO 9168:2009 and may only be used with hose connectors meeting the same standard.

#### **Intended Purpose:**

Micro-roughening of dentin, ceramic, composite and metal surfaces prior to cementation or restoration in order to obtain a good bond strength. The product may be used for both extra- and intraoral applications.

#### **User profile:**

The DENTO-PREP™ device is intended for use in the field of dentistry, and to be used solely by dentists and dental technicians.

#### **Intended Patients:**

The DENTO-PREP™ device may only be used in patients who need micro-roughening, cleaning and activating of dental structures including teeth, prosthodontic dental restorations and orthodontics. Otherwise there are no restrictions on the patient population to be treated.

#### **Installation:**

More installation options are available fulfilling different needs of use in dental offices and laboratories.

#### **Using a Connector:**

For easy chairside use of the DENTO-PREP™, a range of Connectors is available for different brands of turbines: KaVo, W&H, Sirona, BienAir and NSK. Remove the turbine handpiece, push the Connector onto the turbine quick connector and fit the hose to DENTO-PREP™. If your turbine handpiece is of another make than one of those mentioned above, a Midwest Connector is available for the connection to 4-hole standard fitting of the turbine hose. The Midwest Connector is universal and can be used in the majority of turbine hoses.

#### **Using an Installation Kit:**




For installation of DENTO-PREP™ directly to the air supply line, two sets are available for air supply hoses of the standard diameters 5mm (3/16") and 6mm (1/4"). Installation instructions are inserted in the packaging of the Installation Kits.

Extra-oral applications	Intra-oral applications
<p>Micro-roughening, Cleaning and Activating of</p> <ul style="list-style-type: none"> <li>• Crowns</li> <li>• Inlays/Onlays</li> <li>• Posts</li> <li>• Maryland Bridges</li> <li>• Orthodontic bands and brackets</li> </ul> <p>Removal of old cement before recementation. Check fit of cast metal restorations (high spots will become evident).</p>	<p>Micro-roughening prior to adhesive repairs of composite or porcelain.</p>

### Abrasive recommended:

Aluminium Oxide (AL<sub>2</sub>O<sub>3</sub>) powder (particle size 20-80 micron). Moisture and foreign particles can cause clogging.

### Safety precautions:

-  Operator and patient should wear eye protection when DENTO-PREP™ is used. Never point directly at a face or eyes, point only at the surface to be treated. Hold the spray close to the targeted surface in a distance from 2-10 mm.
-  Blasting the gingiva may damage the soft tissue and may cause risk of air emphysema and should be avoided. Use of a rubberdam protection for the soft tissue is highly recommended.
-  Avoid breathing airborne abrasives. A dust mask should be worn whenever using DENTO-PREP™. A high speed suction must be used as well-place the suction tip as close as possible to the microblasted area.

### Instructions:

1. Unscrew the Powder Jar of DENTO-PREP™, fill it with aluminium oxide powder and screw it on again.
2. Before using DENTO-PREP™ for the first time, it is recommended to experiment on various materials of porcelain, composite and metal corresponding to the applications of DENTO-PREP™.
3. Place the Spray Tip in the wanted direction and hold it 2-10 mm from the targeted area.
4. Press the Operating Button and spray until the surface has been evenly roughened. Only a few seconds are needed.
5. Release the button and first then turn it away from the targeted area.
6. After use, remove the powder from the Jar. Backflush the system as described below under "clogging".
7. Disconnect the hose.
8. Clean and sterilize the DENTO-PREP™ according to the the cleaning, disinfection and sterilization instructions. DENTO-PREP™ may not be immersed in water or any other liquid due to the risk of clogging.

### Clogging:

If the thin tubes inside your DENTO-PREP™ should become clogged, they can be cleared by flushing back the air as follows:

Screw off the Powder Jar, place your finger over the spray tip opening and press the Operating Button.

This will cause compressed air to flow back through the unit, clearing away any blockages.

### Cleaning og disinfection:

Required Extra Materials:

- Ethanol IPA (70%)
- Air supply connection
- Suction
- Clean paper towel

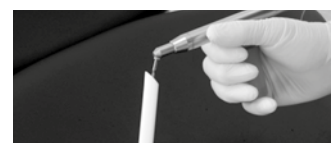
1. Backflush the unit: Detach the powder jar from device. Place a finger over the end of the spray tip and press the button to remove any powder remaining within the device. This will cause compressed air to flow back through the device and clear the powder channel.
2. Remove any remaining blasting powder from the powder jar. Rinse inner surface with water and wipe dry.



3. Place approximately 2 ml Ethanol IPA (70%) in the powder jar. Re-attach powder jar onto the device.



4. While pointing the DENTO-PREP™ into a suction opening, press button in a short burst of 1-2 seconds and let some of the content spray out through the nozzle.



5. Perform the operation described in step 4 until the powder jar is empty.
6. Detach the powder jar from device, clean and dry internally.
7. Wipe the outer surfaces of DENTO-PREP™ including the powder jar. Use either a clean paper towel and ethanol, or a disinfectant wipe. Let DENTO-PREP™ and powder jar dry for 5-10 minutes in a ventilated area, before powder jar is re-attached to the device. The disinfected DENTO-PREP™ is ready for use.

### Sterilization:

The DENTO-PREP™ is delivered non-sterile and should be sterilized before first intra-oral use.

Sterilize DENTO-PREP™ and the powder jar separately in a steam sterilization autoclave at 121 °C / 250 °F for minimum 15 minutes or at 134 °C / 275 °F for minimum 3 minutes. Let the parts dry separately for minimum 30 minutes.

### Storage:

Keep in a dry place, protected against recontamination.

### Guarantee:

DENTO-PREP™ is covered by a 2-year material and constructing guarantee, with the exception of the spray tip.

RONVIG does not accept liability for any damages or loss caused by inadequate use or care deviating from the above instructions.

### Serious incident reporting:

In case of any serious incident occurred in relation to the DENTO-PREP™ device it must be reported to RØNVIG Dental Mfg. A/S and the competent authority of the Member State where the user/patient is established.



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