

MDT's Dental Polishers Instructions for Use

DESCRIPTION:

MDT's (Micro Diamond Technologies Ltd) Dental polishers are made of a silicone formula. The *Non-sterile* dental polishers can be **reused**, **read the following cleaning and sterilization instructions carefully**.

PRECAUTION:

- The dental polishers are intended for dental applications in dental clinics and hospitals by licensed dentist. Rx only
- The device is not intended for use for children under six years old.
- Always **wear Gloves** when handling contaminated instruments.
- **Eye protection** must be worn to protect against ejected particles.
- **Surgical mask** must be worn to avoid inhalation of aerosol or dust generated.
- **Before each use**, inspect the polishers for damaged blades or excessive wear. **Discard worn polishers**.
- Ensure that the polisher is **fully seated** and gripped in the handpiece collet.
- These instruments must only be used with turbines, hand pieces and contra-angles that are technically and hygienically perfect. The turbines and contra-angles used for these instruments must ensure precise and regular rotation.
- Insert the instrument shaft into the driving unit as far as possible. Check the safe connection of the polisher before using it and perform a test run.
- All MDT's polishers are exactly tailored to specific needs. Improper use can lead to tissue damage, early wear or destruction of the polisher, not to mention the risks to the user, the patient or other persons
- **Do not exceed the maximum speed** - <10,000RPM. Before applying the instrument on the surface to be treated, bring it to the rotation speed needed.
- **Do not activate excessive pressure** on the polisher.
- **Avoid using the polisher at too high an angle in order to avoid leverage and breakage.**
- **Move the polisher continuously** when in use to avoid localized heating and/or damage to the polisher.
- **Clean and sterilize** the polisher supplied in a **non-sterile** condition in accordance with the directions below **before first use** and before **each reuse**.
- Don't use rust polishers.
- **Read carefully the labels on the polisher.**

APPLICATIONS

MDT's dental polishers intended for use is for final polishing of composite, Zirconia, Lithium Di-Silicate or so restorations, the dentist will apply composite material for a tooth restoration and then smooth the surface MDT's dental polishers meet with all type of materials and application as described by MDT's catalogue and is designed to fit into a dental handpiece, turbine and Contra-angles. All MDT's dental polishers are reusable unless otherwise labeled as single use only.

REPROCESSING INSTRUCTIONS FOR DENTAL ROTARY INSTRUMENTS

Limitations of Re-Use

Reprocessing will have little effect on MDT's dental polishers. The end of polishers life is determined by wear and damage in use and the polishers should be inspected for defects during the preliminary cleaning process.

Warning

1. Used Polishers should be considered as being contaminated and appropriate handling precautions should be taken during reprocessing. Gloves, eye protection and a mask should be worn. Other measures may be required if there are specific infection or cross-contamination risks from the patient.
2. Used Polishers are consider as bio-hazard and need to discard as bio-hazard waste unless reprocessing instruction has been done.
3. Strong acids and strong bases may oxidize the stainless steel shaft.
4. Avoid temperatures >150°C
5. Ultrasonic bath must not exceed temperatures of 42°C because of the possible coagulation of albumen.

Cleaning preparation

If manual cleaning is implemented, the polishers should be cleaned in a sink reserved for the purpose.

Pre-clean under running water with a brush (plastic) directly after use.

Cleaning:

- Manually - Under running water with a brush (plastic bristles).
- Machine assisted:
 1. **Ultrasonic** cleaning with a suitable cleaning agent and disinfectant.
Rinse the instruments afterwards under running water. Validate the process
 2. **Automatic** cleaning programmer as indicated by the manufacturer in the operating instructions. Validate the process.

Disinfection

Use a solution classified as suitable for silicone polishers and synthetics by the disinfectant manufacturer. Use exposure times and concentrations as recommended by the manufacturer.

Rinsing

Rinse the polishers with distilled water after treatment with cleaning and disinfectant solutions.

Drying

Dry with fresh, clean, lint-free cellulose tissues.

Maintenance

Visual check of all instruments with optical magnification (5-10 folds).

Inspection:

No residues - continue to sterilization.

Visible residues - repeat cleaning. Reject and dispose of instruments in the event of discernible defects.

Sterilization

Steam sterilization:

Holding time: Full cycle 5 min

Sterilization temperature: 134°C

Drying time: 10 min

Threshold values of contents for feed-water and steam condensates

Loading of sterilizer according to manufacturer's instructions follow manufacturer's operating instructions.

Storage

The device should be stored in the sterilization pouch (or instrument block) until required.

Water Cooling

In order to avoid the overheating of a tooth, sufficient water cooling must be ensured (50 ml/min).

CONTACT INFORMATION



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