BencoDental

e·on® General Instructions For Use: Zirconia Polishers

PROPER USE

These instruments must only be used with turbines, hand pieces and contra-angles that are technically and hygienically perfect, meaning that they should be well maintained and correctly cleaned. 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.
- Before applying the instrument on the surface to be treated, bring it to the rotation speed needed.
- In order to avoid deformations, use circular movements with the instrument. Do not bend the instrument or use it as a lever because this would lead to increased risk of breaking the instrument.
- Immediately discard any deformed, non-concentric rotating instruments.
- Unmounted polishers must be centered after shaft mounting in order to avoid vibrations during use and only high quality mandrels should be applied. Using mandrels of inferior quality could break them and cause injuries.
- Protective glasses should be worn at all times. In case of improper use or material failure, the mandrel, shaft or workpiece can break and could become a dangerous flying object. Instead of wearing protective goggles, you can work behind a protective glass pane.
- Wearing a respiratory mask will prohibit inhaling dust from polishers or workpieces. We recommend a dust aspiration system.
- Improper use of these instruments leads to bad quality results and more risks. This is why they must be used only by qualified persons.

INTENDED USE

The intended use is to prepare and/or polish (removing, smoothing, high shine polishing) different materials in order to achieve the desired surface referring to our instructions for use. The products are used in the dental, jewelry and industrial field, wherever surfaces need to be polished. A micro motor is required in order to get the products rotate in the RPM indicated in the product catalogs.

INSTRUCTIONS REGARDING ROTATING SPEED

- Never exceed the maximum rotation speed stated. The recommended and maximum rotation speeds allowed can vary between products. For that reason, please refer to the rotation speeds indicated on the packaging and in our product catalogue.
- In case of non-observance of the maximum rotation speed allowed, the polisher will tend to vibrate. Such vibrations can deform the polisher or its shaft and cause them to break. In the latter case, the user, the patient and other persons can be injured.
- Observing rotation speeds ensures optimum results.

> Non observance of the maximum rotation speed allowed increases safety risks.

PRESSURE ON THE POLISHER

- Excessive pressure on the polisher can destroy it.
- Excessive pressure results in more heat produced.
- Excessive pressure can cause early wear of the polisher.

> Always avoid excessive pressure on the instrument because this will cause overheating, which could damage the pulp. Additionally, in case of very excessive pressure, the instrument can break and, as a result, persons can be injured.

All e-on zirconia polishers are exactly tailored to your 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.

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WATER COOLING

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

› **Insufficient water cooling can lead to irreversible damages to the** tooth and its surrounding tissues.

WARNING NOTICES

- Strong acids and strong bases may oxidize the stainless steel shaft.
- Rinse the polisher with distilled water after the treatment with cleaning and disinfectant solutions.
- Avoid temperatures > 150°C.
- Ultrasonic bath must not exceed temperatures of 42°C because of the possible coagulation of albumen.

RESTRICTION OF REPROCESSING

Disposable products delivered unsterile, marked with the symbol ⊗, may only go through the validated sterilization cycle ONCE before initial use.

COMMENTS

Concerns all rotating polishing and grinding instruments that are classified as semi-critical according to RKI-guideline.

All instruments are delivered unsterile and must be run through the indicated cycle before and after each use.

The label on the cleaning and/or disinfecting solution must specifically say "suitable for rubber polishers or synthetics/silicones," because if the label only says "rotary instruments," the solution may not be suitable for polishers.

Repetitive reprocessing can change both the look and feel of the instruments slightly, but does not interfere with the instrument's function.

SYMBOLS


Observe User Instructions


Date of Manufacture


Prophylaxis


Working on Fillings

Autoclavable


Disposable System

Order Number

Lot Number


Expiration Date


EU safety, health & environmental protection

European Representative

Possible Oxidation

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CLEANING PREPARATION:

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

CLEANING:

Manual:

1. Under running water with a brush (plastic bristles).

Machine assisted:

1. Ultrasonic assisted cleaning with a suitable cleaning agent and disinfectant.
2. Rinse the instruments afterwards under running water.

Thermal disinfector: Manufacturer's specification according to DIN EN ISO 15883. Cleaning program as indicated by the manufacturer in the operating instructions.

Use a solution classified as suitable for rubber and silicone polishers and synthetics by the disinfectant manufacturer. Exposure times and concentrations recommended by the manufacturer should be adhered to.

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 fold).

INSPECTION:

No residues > continue to sterilization.

Visible residues > repeat cleaning.

Reject and dispose of instruments in the event of discernible defects.

STERILIZATION:

For all instruments that need to be sterilized in accordance with EN ISO 17664 and all national valid legal requirements.

Steam sterilization: Appliance according to EN 13060, validated procedure. Category: S- or B-sterilizer.

Holding time: Full cycle 5 min Sterilization temperature: 134°C

Drying time: 10 min

Threshold values of contents for feed-water and steam condensates
Load sterilizer according to manufacturer's instructions.

STORAGE:

Store instruments packed and protected from recontamination in proven suitable sterile packaging, cassettes or retainers.

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VALIDATION CONDITIONS

MANUAL CLEANING:

Cleaning/disinfectant solution: Dürr Dental ID 212

Concentration: 2%

Holding time: 5 min

ULTRASONIC ASSISTED CLEANING:

Dürr Dental ID 212 / Readymade solution;

Type of appliance: Ultrasonic

Concentration: 2%

Holding time: 2 min

AUTOMATIC CLEANING:

Cleaning and disinfecting machine: Miele G 7883

Program: SPECIAL 93°C -10'

Holding time: 10 min

Detergent: Dr. Weigert – neodisher MediClean Dental

Rinsing: 3 min at 75°C with neodisher Z Dental

STERILIZATION:

Holding time full cycle: 5 min

Sterilization temperature: 134°C

Drying time: 10 min

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