

Dental polishers (solid)



*Example

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Dental polishers (solid)

1. User group

The instruments may only be used by appropriately qualified personnel in dental surgery or clinics.

- Dentist
- Maxillo-facial surgeons / dental/oral surgeons

2. Target patient group

Patients with dental medical indications in the area of the described indications and applications.

3. Materials / Components

- Instruments with medical-grade steel shank (martensitic chromium steel / CrMoS) and silicon or PUR working piece

4. Product description

Prophylaxis polishers (Diaprophy)

Diaswiss has developed special polishers for prophylaxis. Two shapes (flame and cup) are available which need to be manually screwed on a right-angle mandrel included in the kit. The polishers contain an abrasive grain which does not impact the tooth but reliably removes plaque, stains and other unwanted residue. No polishing paste is required.

Polishers for ceramics (Diaceram 2-step / Diaceram 3-step)

Polishers for ceramics require two respectively three polishing steps. Diaceram polishers are available for ceramics and are impregnated with fine and superfine diamonds. The two (2-step) respectively three (3-step) polishing steps are sufficient for finishing, polishing and high shine polishing. In addition to the usual CA (right angle) polishers, Diaswiss also offers shapes on FG shank.

Polishers for composites (Diacomp)

Likewise, the Diacomp polishers require two steps. Diacomp polishers are polyurethane-based and contain diamonds and silicon carbide (fine and superfine) as polishing grain thereby delivering excellent polishing results.

Polishers for temporaries (Diatemp)

2-step polishing system for provisionals.

5. Indication

- Intra-oral polishing dental restorations/filling materials
- removing, smoothing, high-gloss polishing of ceramics, metals, composites etc. and of enamel (prophylaxis)

6. Contraindication

- The instruments may not be used for any other than the described indication or application area.
- Excessive temperatures due to insufficient water cooling must be avoided (possible damage of pulp)
- The indicated speed may not be exceeded
- Jamming or using the instrument as a lever must be avoided (risk of fracture/injury)
- Never use bent or unbalanced instruments (risks of injury)
- in case of incorrect use or of a defect, polishers, shanks or the working piece may break and turn into dangerous flying objects
- Low quality shanks may break and lead to injuries

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7. Application mode

Please make sure that only dental turbines, contra-angles and straight hand pieces which are in correct technical and hygienic condition are being used.

The instruments must be inserted and locked into the chuck of the turbine / handpiece as deeply as possible. (If clamping is too short, there is a risk of injury!)


- accurate running of turbine and contra-angle hand piece is required
- insert the tools as deeply as possible
- run the tools at the required speed before contacting the surfaces to be treated
- Instruments must be rotating before touching the object
- perform slightly circular, intermittent resp. dapping motions
- ensure sufficient water-cooling
- no additional polishing required
- the recommended speed may differ from tool to tool. (see table below for speed specifications)
- for best results observe the recommended speeds (see table below for speed specifications)
- center polishers to be mounted after adjustment onto the shanks to be mounted in order to enable vibration-free working polishers to be mounted have to be centered after adjustment onto the shanks to avoid vibrations.

Follow the instructions for use of the manufacturer of the micromotor/turbine

Incorrect use leads to unsatisfactory results und leads to increased risks.

8. Speed specification

Maximum speed for polishers (Diaprophy, Diaceram 2-step / 3-step, Diacomp, Diatemp)

Connection type	Instrument	 Speed
CA	Diaprophy	3' - 6.000 rpm
FG, CA	Diaceram 2-step / 3-step	3' - 6.000 rpm
FG, CA	Diacomp	3' - 6.000 rpm
HP	Diatemp	3' - 8.000 rpm

9. Frequency benchmark for the application of rotary instruments

The following values serve as a reference only; the actual service life may differ depending on the application, usage and material but must not exceed the maximum number of reprocessing cycles.

- Polishers (solid) **10x**

10. Reprocessing

For reprocessing (cleaning, disinfection and sterilization) see the separate instructions for reprocessing.

11. Storage

- Do not store instruments in plastic pouches (damaged pouches can cause contamination of the instruments)
- Store in dry conditions



12. Protective measures / Warnings

Protect yourself by wearing appropriate protective gear (gloves, goggles, mask)

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13. Residual risks

Possible residual risks are fracture due to gross faulty handling or use of low-quality shanks or contamination due to inappropriate sterilization which may lead to harm of the patient, user or third persons.

The discharge of abrasives of the used materials is barely noticeable and has no influence on the patient's safety.

In addition, there are the following further residual risks with regard to possible foreseeable application errors, which may result in harm to the patient:

- Incorrect use of speed (too low/too high)
- Contraindicated applications
- Missing / insufficient water cooling

These residual risks are highly unlikely and are not expected in case of appropriate use and handling over the lifecycle of the instrument.

14. Traceability

We recommend keeping the original packaging over the entire lifetime of the instrument in order to ensure traceability via the lot number.

15. Disposal

Used and/or defective instruments need to be sterilized before disposal to avoid transmission of germs. Please be careful with sharp edges or tips.

After sterilization instruments can be discarded with general clinical waste.

16. Notification to competent authorities

Competent national authorities and the manufacturer need to be notified about all serious incidents occurring in the context of the product without delay.



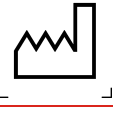
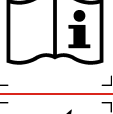
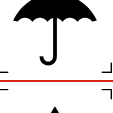
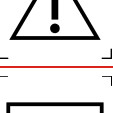
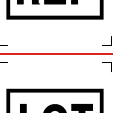




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17. Explanation of symbols

Pictogram	Standard / Directive	Explanation
	EU RL 93/42/EEC (MDD)	Confirmation of product conformity in relation to the European directive mentioned as well as the identification number of a notified body that has confirmed this product conformity.
	DIN EN ISO 15223-1 (Reference number 5.1.1)	Manufacturer
	DIN EN ISO 15223-1 (Reference number 5.1.3)	Date of manufacture
	DIN EN ISO 15223-1 (Reference number 5.4.3)	Consult instructions for use
	DIN EN ISO 15223-1 (Reference number 5.3.4)	Keep dry
	DIN EN ISO 15223-1 (Reference number 5.4.4)	Caution, consult accompanying documents
	DIN EN ISO 15223-1 (Reference number 5.1.6)	Catalogue number
	DIN EN ISO 15223-1 (Reference number 5.1.5)	Batch code
	-	Reference to a medical device