

Processing Information

(In compliance with Robert-Koch-Institute (RKI), recommendation of the commission on hospital hygiene and infection prevention dated 10.4.2006 „Infektionsprävention in der Zahnheilkunde – Anforderungen an die Hygiene“)

The following instructions are valid, if not mentioned otherwise, for all offered Horico instruments steel-, steelcarbo- and diamond strips, diamond burs, tungsten carbide burs and polishers.

Processing of new instruments

New instruments are not packed sterile and have to be disinfected and sterilized before use, according to the following instructions.

Processing of used instruments

According to the RKI's recommendations tungsten carbide burs, diamond burs and separation strips are to be classified as *semi-critical B* and after every use they need 1. cleaning, 2. disinfection and 3. sterilization. Besides they should be 4. release and 5. storage should be done appropriately. During the processing protective gloves should be used.

1. Cleaning

Manually: Rinse instruments under running water. Remove any tissue with the help of a brush or a cleaning stone DIACLEAN (use only for abrasive diamond instruments). Rinse instruments under running water again.

Polishers: Set the cleaning / disinfection machine on standard cycle, including a minimum of 5 minutes of washing and 3 minutes of rinsing. Afterwards please look for visible pollutants in stud holes and lamellas and repeat disinfection, if necessary.

2. Chemical disinfection

All **strips, tungsten carbide burs and diamond instruments** can be disinfected chemically in a disinfection bath. Use disinfectants with a corrosion protection only and apply the manufacturer's specified contact times and concentrations.

Diamond instruments and tungsten carbide burs can also be cleaned with a disinfection solution in ultrasonic baths (max. 45°C), if appropriate holding devices are used, which prevent heads from touching surrounding material, to avoid damage.

After disinfection **all instruments** have to be rinsed with distilled water and be dried thoroughly, e.g. with compressed air.

We do not recommend the use of cleaning – and disinfection machines or chemo-thermal disinfection machines!

Polishers: The disinfectant has to be applicative for polishers.

Set the cleaning / disinfection machine on standard cycle, including a minimum of 5 minutes of washing and 3 minutes of rinsing.

Manually: Rinse instruments under running water to remove dirt on the surface.

Put cleaning agents on all surfaces. If necessary, use a brush for stud holes and lamellas.

Rinse instruments for three minutes under running water.

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Control

Before sterilization all instruments have to be checked for cleanliness and proper functioning, best with a magnifying glass or microscope. Outworn, bent or damaged instruments have to be sorted out. If necessary, repeat the cleaning and disinfection cycle.

3. Sterilization

All instruments, which had contact to a mucous membrane, blood or other tissues in the mouth, have to be sterilized after disinfection. Put instruments into suitable trays or posts and then into an autoclave. Use the adequate program to sterilize instruments at 134°C / 2.1 bar pressure and an exposure time of 5 minutes.

Tungsten carbide burs shall not be exposed to hydrogen peroxide, sodium hypochlorite or strong acids.

Polishers must not be heated above 150°C.

At steel posts galvanical erosion might be found in an autoclave. This may cause flash rust on the stainless steel shanks of the instruments. To avoid flash rust please check all clamps and the interior of the autoclave regularly for rust.

Our instruments are not suitable for a chemiclave or hot air sterilization.

Please follow the instructions of the manufacturers!

Preparation of surgical instruments

All our instruments, which are used in surgical interventions, have to be prepared like any other surgical instrument. The processing has to be done by educated personally. For storage a sterile packaging is stipulated. For more details please ask the respective authorities responsible for hygiene.

4. Release

If you work with a QM-system, the preparation has to be documented and instruments have to be released for use or re-restore.

5. Storage

Please store all packed instruments in a clean, dry environment at room temperature.

Storage of used instruments

Used instruments should be stored in a manner that precludes contamination of man or instrument. Instruments need to be processed according to above description before next use.