

Maintenance and sterilization of tools

The lifetime and optimal functioning of surgical tools depends on their corresponding care. After each use, contaminated tools must be mechanically cleaned with the use of a nylon brush and then in an ultrasonic bath. The cleaning agent and disinfectant residue must be rinsed thoroughly with water and the tools must be dried. Disinfectant solutions with a high chlorine content, or oxalic acid content, are not recommended for use with stainless steel instruments. The tools are sterilized in a BioniQ cassette using an autoclave (pressure-steam sterilizer) following the normal procedure for sterilization. Sterilization using hot air would affect the material structure of some tools and would, therefore, reduce its operation lifetime.

The lifetime for the use of drills, countersinks and threadformers is limited to 20 applications. To a large extent, the wear on the drills depends on the density of the bone being prepared. **Worn tools must be replaced with new ones.**

Ratchet maintenance

Immediately after use, the ratchet has to be dismantled following the steps as shown below, disinfected, mechanically cleaned using a nylon brush and then in an ultrasonic bath. The cleaning agent and disinfectant residue must be rinsed thoroughly with water and the ratchet must be dried. Sterilization of the ratchet in parts is performed in an autoclave; sterilization using hot air would affect the material structure of some parts and would, therefore, reduce its operation lifetime.

The ratchet is reassembled following the steps as shown below after all its elements are completely dry. After reassembling, check that the ratchet is working in both directions.

Dismantling the ratchet:



Unscrew the screw at the end of the ratchet handle by the control knob.

Ratchet body



Pull out the ratchet mechanism with the control knob.

Ratchet mechanism



Assembling the ratchet:



Insert the ratchet mechanism with the control knob.



Screw the ratchet mechanism with the control knob to the ratchet body.



Check that the ratchet is working in both directions. If it does not work properly, the ratchet must be reassembled again.

