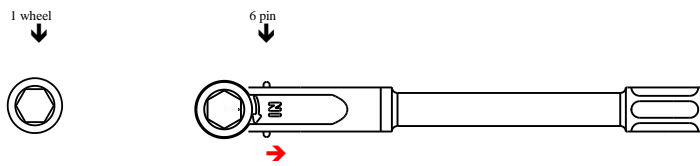


### 1. Field of application:

- Ratchet for the screwing in and loosening screws + implants in the dental field.
- The Ratchet is to be used only by dentally trained persons.

### 2. Settings:

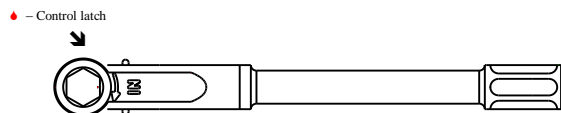
- It is possible to change the Ratchet wheel (1) (see point 3) Ratchet wheel and instruments for screwing in (e.g. screwdriver) have to fit. Push the screwdriver in the ratchet wheel e.g. pulls out to withdraw the screwdriver from the ratchet wheel.



**3. Changing the Ratchet wheel:** Draw back pin (6) in the direction of the arrow on both sides with thumb and index finger and then take out or insert ratchet wheel respectively. After the change let the pin (6) snap back. Attention: The ratchet wheel (1) can only be inserted from one side.

### 4. Care of the Ratchet:

- After use, take the ratchet to pieces – this does not require any tools.
- Pre-clean the individual pieces with a soft brush under running water. Avoid the drying of remains of blood and other adhesions.
- Lay the pre-cleaned pieces in disinfection and cleansing fluid for rotating dental instruments. **Please follow the manufacturing instructions of the cleansing agent!**
- Dry the individual parts.
- ♦ – Marked areas should be slightly moistened with special care-oil for angles.
- **Do not use damaged ratchets.** Send back to your dealer/manufacturer for repair or examination.
- Sterilize in the autoclave before surgical use.



#### 5.1. Attention:

- Do not use provisional chemicals and do not apply excessive pressure.
- To avoid damages do not use any metal brushes or metal pads under no circumstances.
- Only use cleaning- and/or disinfecting solutions with pH 4.5 to 10. Please follow the instructions of manufacturer of the cleaning- and/or disinfection solutions (e.g. intended use, dosage, residence time and renewal of the solution).
- The ratchets are delivered non-sterilized and must be cleaned, disinfected and sterilized before use.

#### 5.2. Limitation of re-treating:

- Frequent but careful re-treating has little effect on the life cycle of the ratchet. The end of the product lifetime is usually determined by wear and damages from use and treatment.

#### 5.3 Preparation for decontamination:

- After use, take the ratchet into pieces – this does not require any tools.
- Clean the parts under cold water with a soft disinfection brush until no residues are visible. Avoid the drying of remains of blood and other adhesions.

#### 5.4 Cleaning and disinfection: Manual

##### Ultrasound cleaning bath:

Place the parts in a wire basket and avoid shadows. Clean them in an ultrasound cleaning bath (35-40kHz) with temperature of 40-50°C with cleaning solution for 3 minutes. Please take care that the parts are completely dunk into the water without bubbling.

##### Manual treatment:

Afterwards rinse them with clear cold water. If possible use deionized water for rinsing.

Dry parts with a lint free towel. Scale capsule, adjusting nut and ratchet head should be insufflated by using sterile compressed air.

#### 5.5 Cleaning and disinfection: Automated

##### Washer / Disinfector:

Place the cleaned ratchet parts save on the mountings in a wire basket. Do not overload basket.

Start program. After rinsing there follows a chemical cleaning at 40° to 60°C. Residues from the cleaning process has to be removed reliably in the after-rinsing cycle. Corrosion through neutralizing reagents has to be avoided. Disinfection is reached by 90-95°C.

Afterwards the parts were treated with deionized water followed by an effectual drying.

The parts should be removed from the washer/disinfector immediately after end of program.

#### 5.6 Maintenance, control and functional testing

Cool down the parts at room temperature. Inspect them visually and macroscopic on residues of protein and other contaminations. If necessary perform reprocessing process again.

♦ –marked areas should be slightly moistened with special care-oil for handpieces.

Assemble ratchet and make a functional testing.

#### 5.7 Packaging

Appropriate packaging for sterilization according ISO 11607 and EN 868. Parts must be protected in such a way that they can not damage the packaging for sterilisation. Bags should be large enough for the parts. Sealings should not be under stress.

#### 5.8 Recommended sterilization method

**Method:** Fractionated pre-vacuum process (according ISO 17665)

**Temperature:** Heat up to a temperature of 134°C; maximum 137°C

**Pressure:** 3 pre-vacuum phases with at least 60 millibar pressure

**Holding time:** at least 5 min

**Drying time:** at least 10 min

After sterilization check the packaging of the sterilized instruments for damage. Check the sterilization indicators.

#### 5.9 Storage

Store the sterilized ratchets in a dry, dust-free, free-vented place at moderate temperature without corrosive vapour.

#### 5.10 Additional information

Further information for the treatment of medical products in the internet under [www.rki.de](http://www.rki.de) or [www.a-k-i.org](http://www.a-k-i.org).

### 6. Manufacturer contact info:

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