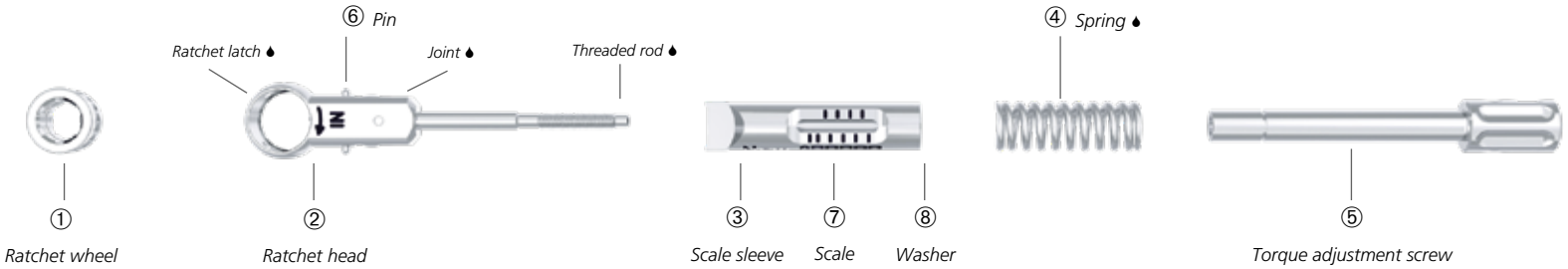
Torque ratchet.

After assembly and before each use check the correct function of the torque ratchet.



Disassembly.

Completely loosen torque adjustment screw ⑤ and remove the spring ④. Pull ratchet head ② with the threaded rod from the scale sleeve ③.

Remove ratchet wheel.

Pull back the pin ⑥ in the direction of the arrow using your thumb and index finger and remove the ratchet wheel ①.

Assembly.

To assemble the torque ratchet correctly, connect the components in the following order: first remove the pin ⑥ as described above and insert the ratchet wheel ①.

Note: To avoid confusion, the ratchet wheel ① can only be inserted on one side.

Lubricating points (♦)

Lubricate the areas marked with the drop symbol with maintenance oil for contra-angle handpieces.

Then assemble the ratchet components as described below and perform a function test.

Slide the spring ④ over the torque adjustment screw ⑤. Pass the ratchet head ② with the threaded rod through the scale sleeve ③ and screw to torque adjustment screw ⑤.

After assembly and before each use check the correct function of the torque ratchet. If there is an audible regular ratchet noise and the mechanism of the torque limit functions, the instrument is functioning correctly.

Sterilization.

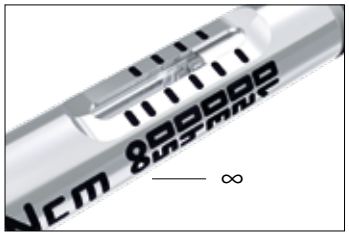
The instrument must be sterilized with steam at 134 °C / 273 °F for 18 minutes.

Apply the regulations in force in the country where the torque wrench is used.

Before sterilization, the torque ratchet must be completely assembled and set to the lowest torque.

Sterilize according to sterilization cycles recommended by the manufacturer of the autoclave. We recommend the use of devices equipped with a vacuum pump (type B) to decrease the risk of formation of air pockets.

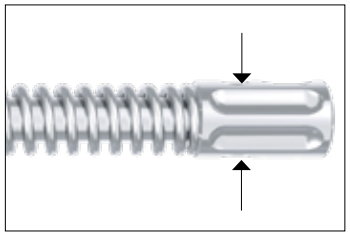
We advise against the use of a hot air sterilizer because it can lead to ageing of the spring and subsequently have an adverse effect on the instrument's precision. Find more information on the preparation of medical devices at www.rki.de or www.a-k-i.org.



Blocking function – „∞“ mark.

Ratchet head, assembled.

Ratchet head, disassembled.



Never loosen these screws as the ratchet will lose its torque function.

Torque ratchet.

tiologic® TWINFIT

The torque ratchet is intended for clinical use only.

Prosthetic screws should be tightened with care manually in the laboratory.

■ Tightening torques for implants and prosthetic components*

Implant insertion		max. 40 Ncm (depending on the bone density)
Closure screw Implant tioLogic® TWINFIT		15 Ncm or manually
Closure screw 4Base abutment tioLogic® TWINFIT		15 Ncm or manually
Gingiva former tioLogic® TWINFIT		15 Ncm or manually
Screw for impression post tioLogic® TWINFIT		15 Ncm or manually
Screw for temporary abutment tioLogic® TWINFIT		15 Ncm or manually

■ Tightening torques for implants and prosthetic components*

AnoTite screw – L 9.0 mm		30 Ncm
4Base abutment tioLogic® TWINFIT		35 Ncm
AnoTite screw – L 6.0 mm		25 Ncm
Ball abutment tioLogic® TWINFIT		35 Ncm
tioLOC abutment tioLogic® TWINFIT		30 Ncm

* primary stable and osseointegrated

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