

ENGLISH - EN

Torque Ratchet 10-70Ncm

Reference: PROSPDIN
Revision: Rev.02 (06/2023)

phibo^φ

10-70 NCM TORQUE RATCHET

SYMBOL



0123

LEGEND

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CE 0123 represents certification by TUV SUD.

Product presentation

The Torque Ratchet kit consists of:

- Torque Ratchet
- Regulation Wrench
- Grease tube

Torque Ratchet Description

The Torque Ratchet, with torque regulation, is a dental device that allows the tightening and untightening of screws, prosthetic elements, and implants.

It is a detachable precision instrument, delivered unsterilized.

To ensure proper operation, the Torque Ratchet must be disassembled, disinfected, cleaned, lubricated and sterilized after each use, following the instructions for use.

Therefore, people who use this instrument should read the instructions for use before handling it. The handling and use of this product is carried out without direct control on our part and is under the user's responsibility. No liability can be attributed to us for any damages that may result from this use.

Before each use, it is imperative to perform a full verification of the instrument with the purpose of ensuring the accuracy of the tightening torque. This device is not a measuring instrument.

Use

By turning the tightening torque adjustment screw, the Torque Ratchet can be adjusted to the desired tightening torque. To properly adjust the tightening torque, it is necessary to turn the adjustment knob clockwise to obtain the chosen tightening torque by positioning exactly on its mark.

In this case, it is necessary to ensure that the mark forms a line with the marks positioned on the adjustment knob. If it is necessary to lower the torque used, unscrew the necessary number of turns for the new torque and then check its position to the desired value.

Use in Ratchet mode is possible. To do this, screw the adjustment knob to the "R" mark.

The legible inscription "IN" on the Cover (3) indicates the position of the Torque Ratchet allowing for tightening; turning the device upside down, the inscription "OUT" allows for the untightening function.

Lubrication

Instrument lubricant according to USDA H11 is included.

Lifecycle Accuracy

± 10% of the final tightening torque on the scale.

Life Cycle

3 years from delivery by the manufacturer.

Recommendations

This instrument should not be used for applications other than those indicated in the paragraph "Torque Ratchet Description" or with equipment that could impair the intended use of the device.

Any deterioration of the screwing mechanism, ratchet or torque mechanism must be controlled by the personnel responsible for the use and maintenance of the device and, in the event of a failure or modification of the expected performance of the device, the Torque Ratchet must be returned to the manufacturer.

During assembly, it is essential not to mix the different components from different Torque Ratchets because the parts are not interchangeable.

If a part is lost, send the affected instrument immediately to your dealer. No part can be supplied separately.

Do not store the Torque Ratchet with the spring compressed, other than at its minimum torque. This device must not be sterilized with the packaging supplied by the manufacturer.

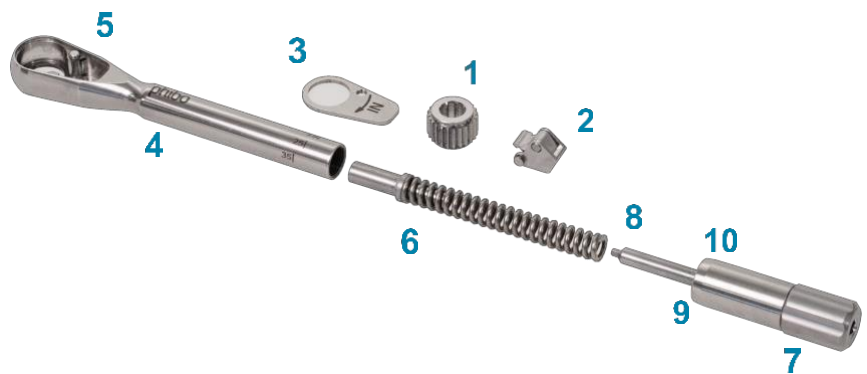
Cleaning, disinfection and sterilization of the Torque Ratchet

After use in contact with surgical waste (blood, secretions, tissue debris), the Ratchet must be disassembled (see figures 2 to 4), following the instructions of the cleaning, disinfection and sterilization protocol that can be found in the PROSPLD document.

The different parts of the Torque Ratchet

Fig. 1 The ratchet is composed of the following elements:

- 1 - Gear
- 2 - Ratchet
- 3 - Cover
- 4 - Head/Handle
- 5 - Screw
- 6 - Spring/Punch
- 7 - Adjustment knob
- 8 - Hexagonal Tip
- 9 - Washer (PPS)
- 10 - Brake (PTFE)



Disassembling the Torque Ratchet

Fig. 2 Remove the spring from inside the handle



Fully unscrew the adjustment knob (7) and remove the spring/punch assembly (6) Use the end of the adjustment punch if necessary so as not to deform the hexagonal tip (8).

Do not separate the punch from the spring (6).

Fig. 3 Unscrew the screw with the help of the hexagonal tip.



With the help of the hexagonal tip (8), unscrew the screw (5) while maintaining a slight pressure that will allow the cover (3) to disconnect from the head (4).

Fig. 4 Remove the ratchet and gear from the head.



The head (4) contains two elements that must be removed: the ratchet (2) and the gear (1). The screw (5) is fixed to the body.

Assembling the Torque Ratchet

Fig. 5 Insert the ratchet and gear into the head.



To assemble the Torque Ratchet, it is necessary to assemble the following elements in the order indicated: the gear (1) and the ratchet (2).

Fig. 6 Grease Points



Moderately lubricate the contact area between the teeth of the gear (1) and the Pivot point of the ratchet (2) as shown in Figure 6

.Check for traces of lubricant on the outer surface of the Ratchet because an excess of lubricant causes discoloration on the surface of the instruments during sterilization.

Do not use more than the lubricant supplied with the Torque Ratchet.

Fig. 7 Screw the cover onto the head



Once the elements (1) and (2) are in place, reposition the cover (3) by fitting it to the head (4).

Position the Ratchet assembly to keep the cover in its correct position.

Tighten the screw (5) firmly with the help of the hexagonal tip integrated in the adjustment knob (7).

Fig. 8 Insert the spring/punch assembly inside the handle and screw the adjustment knob.



The assembly of the Ratchet will be finished when the spring/punch assembly (6) is inserted into the handle (4) and the adjustment knob (7) is screwed on the latter.

Once the assembly is fully completed, a functional control must be carried out; it is sufficient to operate the gear and the instrument works perfectly if a regular clicking sound emanates from it.

Before use, it is mandatory to check the assembly and the regulated features of the Torque Ratchet.

Fig. 9. The use of the adjustment wrench allows you to easily adjust the torque values.

