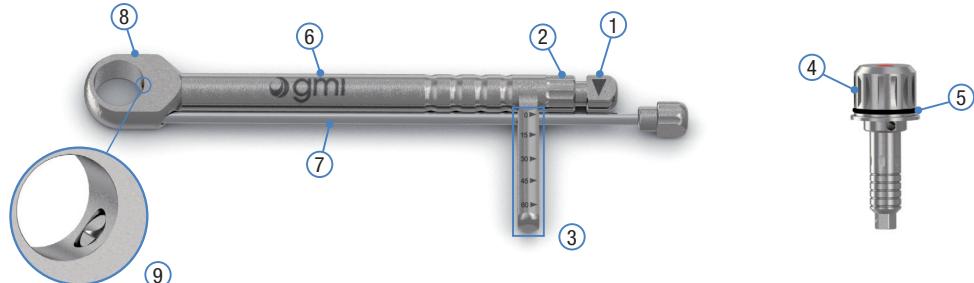


RATCHET WRENCH WITH TORQUE INDICATOR (TI)

The GMI ratchet wrench with torque indicator (TI) is a device for achieving, easily and with accuracy, the desired tightening torque during surgical and prosthetic steps.

DESCRIPTION OF COMPONENTS



- 1. Direction selector.
- 2. Ratchet fixation.
- 3. Torque indicator.
- 4. TI ratchet coupling.
- 5. Retention o-ring.
- 6. Wrench body.
- 7. Head.
- 8. Ratchet.
- 9. Torque indicator rod.

INSTRUCTIONS FOR USE



Fig.1



Fig.2



Fig.3

ASSEMBLY

- ▶ Insert the GMI wrench for TI ratchet coupling until it fully enters into wrench head (Fig.1).

TIGHTENING

- ▶ To tighten/insert a component check that direction selector arrow is pointing toward torque indicator rod. Then, rotate the wrench clockwise applying force over torque indicator rod until the desired torque is reached (Fig.2).

⚠️ IMPORTANT: To achieve the desired torque the middle part of torque indicator rod must be coincident with the arrow marked on torque indicator that points the desired torque value (Fig.3).

LOOSENING

- ▶ To loosen/extract a component, check that direction selector arrow is pointing away from torque indicator rod. Then rotate the wrench counterclockwise applying force over torque indicator rod (Fig.4).

NOTE: To change turning direction the direction selector must be pulled and turned 180 degree in any direction until it returns to initial position.

WARNINGS



Fig.5



Fig.6



Fig.7

- ▶ Avoid putting the finger over the torque indicator when you are applying force over torque indicator rod because the applied torque will be reduced and the showed value will be false (Fig.5).
- ▶ Avoid contact of torque indicator rod with the final part of torque indicator because the applied torque will be excessive (Fig.6).
- ▶ Using the wrench body instead of torque indicator rod may result in excessive torque being transferred to the component (Fig.7).

RATCHET WRENCH ASSEMBLY AND DISASSEMBLY

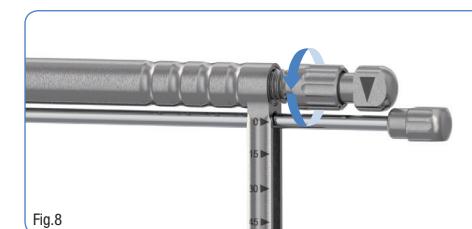


Fig.8



Fig.9

- ▶ Loosen ratchet fixation rotating counterclockwise (Fig.8) until it has been fully unscrewed, and extract the inner ratchet assembly from wrench body (Fig.9).
- ▶ Clean and sterilize the parts following the manufacturer recommended procedures.
- ▶ To reassemble the TI ratchet wrench fully insert the ratchet assembly into wrench body and screw ratchet fixation rotating clockwise, checking that direction indicator is properly assembled.

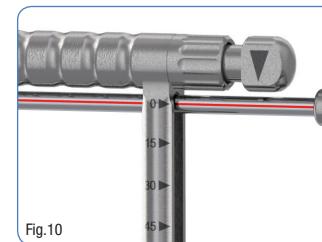


Fig.10



Fig.11

- ⚠️** Check that torque indicator rod indicates <>0<> when you do not use the TI wrench. If it is not true do not use the wrench because it means that it can be damaged. Contact your GMI distributor for replacement (Fig.10).
- ⚠️** Check that ratchet fixation is firmly tightened to ratchet wrench body. If ratchet fixation is not properly tightened TI ratchet wrench does not work properly (Fig.11).