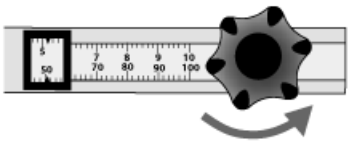
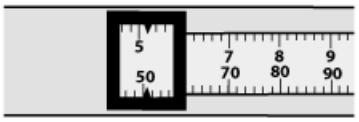
STW (Springless Click Wrench) Operating Instructions

Rev 1.0



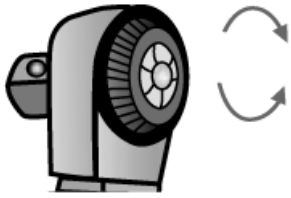


Adjusting Torque Setting

1. Unscrew the knob.
2. Using the knob, slide the scale until the required pre-set torque sign corresponds to the notch.
3. Then tighten the knob.

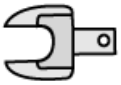
Square Drive Models

1. Select the torque direction (clockwise or counterclockwise) by turning the collar until it locks.



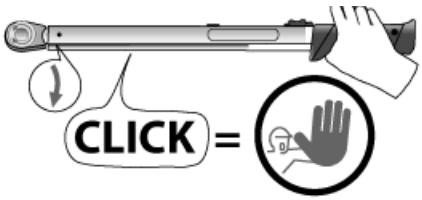
16mm Spigot Models

1. Select the required head and insert it on the wrench.



Applying Torque

1. Tighten nut or bolt by applying a steady even pull using built in ratchet as necessary. Wrench should be kept at 90 degrees to axis of bolt during tightening. When pre-set torque is reached, the wrench will 'click.'
2. After the "click", do not apply any more torque or you will over tighten it.



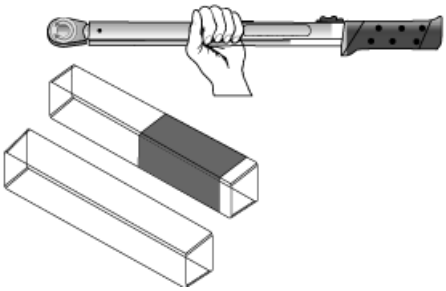
Calibrating Torque Wrenches

To calibrate torque wrenches either use a torque analyzer or torque transducer within the range of the torque wrench. For click torque wrenches calibrate torque in "First -Peak" mode with an analyzer or transducer. Make sure you apply the torque slowly and smoothly.

1. Select a torque analyzer or transducer that covers the torque range of the STW wrench. Connect wrench to the torque analyzer or transducer.
2. Apply torque clockwise slowly until wrench 'slips' and note reading.
3. Adjust wrench to required torque setting.
4. Test and repeat adjustment as necessary to obtain desired value.
5. Recalibrate torque wrench at prescribed intervals.

Springless Design

Most externally adjustable click type wrenches must be returned to the lowest setting after use in order to minimize potential spring set, which can adversely affect reproducibility at other settings. The patented springless design of the STW wrench is not subject to potential spring set, which eliminates the need for the wrench to be turned back to the minimum scale value after being used.



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ISO 9001

CALIBRATION ISTRUCTION
STW Wrench

GENERAL INDICATIONS

STW wrenches are engineered and produced to fulfill the international standard ISO 6789
This standard:

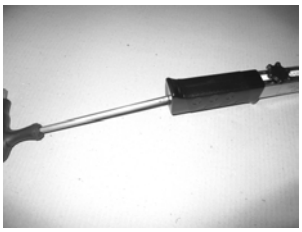
- fixes the tolerances
- traces the guidelines to perform the calibration

The following instruction simply details the specific actions to achieve the calibration on series 900

CALIBRATION

1. Follow the indications required by ISO 6789 before the test
2. Unscrew the knob and set the reading on the scale at the maximum value (100% of the range) and fix it

3. The calibration of the wrench could be change using a standard hexagon key n°5. Put the key through the rear hole in the plastic handle as shown until it reaches the inner calibration screw.



4. According to the reading on the calibration tester, change the calibration of the wrench as follows:
   - If the value on tester is higher than the wrench setting, turn CCW per some degrees the inner screw.
   - If the value on tester is lower than the wrench setting, turn CW per some degrees the inner screw.
5. Once set the wrench at the 100%, verify the calibration at 20% of the scale, and after at 60%.
6. If necessary apply corrections to the calibration in order to achieve the best settings.