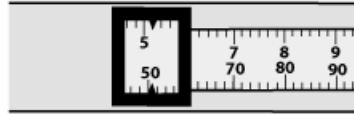
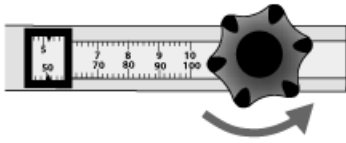


STW (Springless Click Wrench) Operating Instructions

Rev 1.0

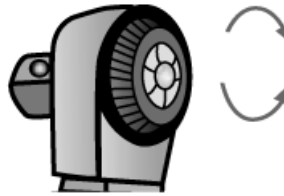


Adjusting Torque Setting

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.

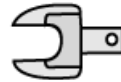
Square Drive Models

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



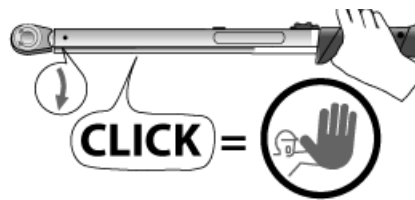
16mm Spigot Models

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.



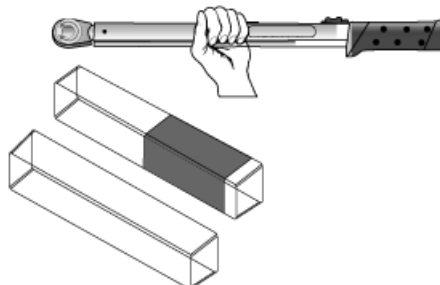
Calibrating Torque Wrenches

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.



mountz
the torque tool specialists

800-456-1828
Fax: 408-292-2214

sales@etorque.com

www.etorque.com



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