

Prepared by:-	MD		Approved by:-		Date: 30/03/15
REV NO:-	1				
ECO:-	4456				

Hi-Force – Manual Torque Wrench – Click Type



Model No:	Square Drive	Torque Nm	Torque Lbf.ft	Main Scale Division Nm	Micro Scale Division Nm	Overall Length mm	Ratchet Head Dia. Mm	Weight kgs
TWM50	3/8"	5-50	3.5-37	2.50	0.25	334.00	35.00	0.54
TWM100	1/2"	20-100	15-75	5.00	0.50	394.00	44.00	0.90
TWM200	1/2"	40-200	30-150	10.00	1.00	485.00	44.00	1.10
TWM300	1/2"	60-300	45-220	10.00	1.00	577.00	46.00	1.40
TWM400	3/4"	80-400	60-300	10.00	1.00	686.00	67.00	2.00
TWM550	3/4"	110-550	80-405	10.00	1.00	956.00	69.00	3.80
TWM850	3/4"	250-850	185-630	10.00	1.00	1379.00	69.00	4.70

Setting the Torque

⚠ WARNING

ALWAYS make sure that you use the scale with the requisite unit. Non-compliance of the requisite scale can result in faulty screw connections. These might cause damage, SERIOUS INJURY or DEATH.

Familiarize yourself with the torque wrench and its scales. The torque wrenches are equipped with a double scale (N·m / lbf·ft or lbf·in). Check the unit and scale.

If using an adaptor, an adjustment of the torque set is required (see 3.3). The reason for this is the extension of the torque wrench's effective length. As a result, the torque which has effect on the screw connection gradually becomes higher than the torque set.

The desired torque ALWAYS has to be set before using the torque wrench.

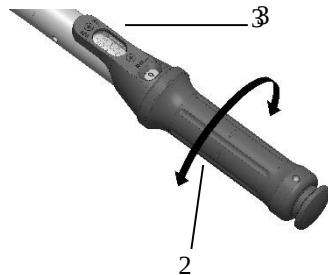
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Pull out the locking



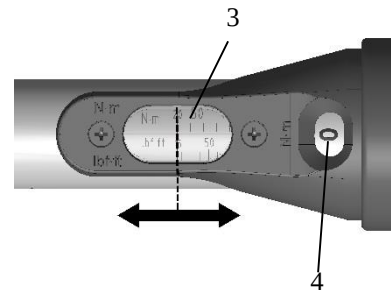
button (1) on the end of the handle (2).

Turn the handle (2) until the
lbf·ft / lbf·in is identical with the



desired torque in the particular scale (3) N·m or
mark in the reading glass.

Make a precise adjustment of the main scale using the micrometer scale (4).



Push the locking button (1) back into the end of the handle (2). Attention should
paid to ensure that the locking button (1) engages properly. Only then is the
torque safe



be

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To change the direction of rotation for the $\frac{3}{4}$ " with square drive, push the trigger pin with your thumb and push the square drive through, rotate the torque wrench and replace the square drive.



- 1) Turn the torque wrench by the handle slowly and steadily in the direction of the arrow (follow the direction of rotation arrow) until a click sound can be heard and a slight jerk felt.



ALWAYS release the torque wrench **IMMEDIATELY** on the sound of a click. After use, **ALWAYS** reset the torque wrench to the lowest setting .

Maintenance

Testing and Calibrating

⚠ WARNING

FAULTY TIGHTENING TORQUE HAZARD

An un-calibrated torque wrench can cause screw connections, the torque wrench and accessories to fail and produce faulty screw connections. This might cause **SERIOUS INJURY** or **DEATH**.

Always use tested and calibrated torque wrenches **ONLY**. Always use tested torque testing equipment **ONLY**.

Powerful forces are at work when using the torque wrench. When torque wrenches are not tested or not serviced there is a risk that they will not bear the loads or will indicate faulty tightening torques. **ALWAYS** take the following safety information into account in order to prevent **SERIOUS INJURY** or **DEATH**:

- **ALWAYS** test the accuracy of the torque wrench with an approved torque tester before use.
- **NEVER** use a faulty torque wrench.
- **ALWAYS** have the torque wrench calibrated on a regular basis.

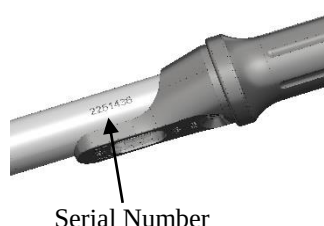
According to DIN EN ISO 6789 the minimum calibration interval requirement for a torque wrench is one year or 5000 load cycles (whichever case occurs first). A firm's own specifications or quality requirements for screwing applications can also lead to considerably shorter calibration intervals.

NOTICE

NEVER neglect recalibrating the torque wrench. Improper calibration can cause the torque wrench to be damaged.

Calibration should **ONLY** be implemented by authorized specialists, an accredited calibration laboratory or the manufacturer.

A calibration certificate as per DIN EN ISO 6789 comes with every new torque wrench. The torque wrench and the calibration certificate are labeled with the identical serial number.



For full and comprehensive instructions on this piece of equipment please go to: www.hi-force.com

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