

HIGH CYCLE HYDRAULIC TORQUE WRENCH

UP TO 71,816 NM @ 700 BAR
(53,000 LBFT @ 10,000 PSI)

The TWHC's designed long-stroke mechanism imparts a 30 degree nut rotation per stroke while maintaining a tight and compact nose radius: this is a clear advantage over the short stroke and backup pawl mechanisms of light-alloy competitive models. Fewer parts and reduced torsion in operation equals reduced wear, maintenance, and associated costs.

Enhanced Usability

- Compact nose radius allows the tool to fit in tighter, hard-to-reach spaces
- Low weight, high strength design
- Fast operation, long stroke and optimum flow
- Multi-direction high flow swivel manifold, with threaded couplers for maximum flow performance
- Tool free square drive reversal and Reaction Arm positioning



**Designed for high cycle quality
and lower cost of ownership**

Designed with Safety in Mind

- Fully enclosed drive mechanism for operator safety
- Swivel manifold internal relief valve prevents retract side over-pressurization
- Fine tooth pawl prevents tool 'lock-on'

Quality means Lower Life-Cycle Costs

- Designed for high cycle life: 2-3x more than existing technology
- Increased reliability: Simple drive assembly means less downtime
- Corrosion resistant material for use in harsh environments including offshore and subsea



TWHC FULL PRODUCT LINE

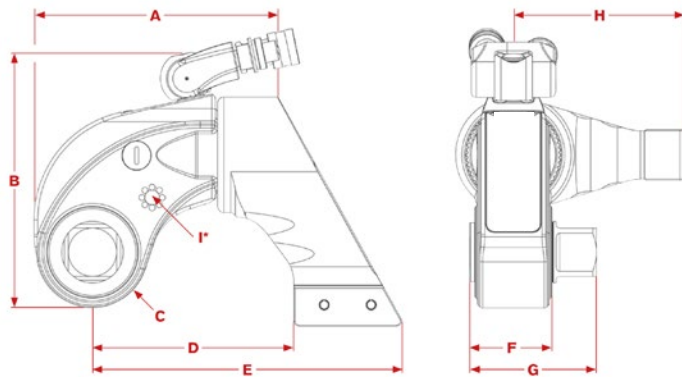


Worry Free
Ownership

Specifications and Dimensional Data

| Model | Min Torque | | Max Torque | | Sq. Drive | A | B | C | D | E | F | G | H | I | Weight | |
|--------|------------|------|------------|-------|-----------|----------------------|------------------|----------------|------------------|------------------|----------------|-----------------|-----------------|---------------|--------|------|
| | lb-ft | Nm | lb-ft | Nm | In | Millimeters (Inches) | | | | | | | | | | Kg |
| TWHC1 | 170 | 230 | 1413 | 1915 | 3/4 | 132 (5.20) | 145 (5.71) | 28 (1.10) | 111.5 (4.39) | 170.0 (6.69) | 39.5 (1.56) | 67.7 (2.67) | 86.1 (3.39) | M6 X 1.0 | 2.8 | 6.2 |
| TWHC3 | 376 | 510 | 3136 | 4249 | 1 | 165 (6.50) | 173.5 (6.83) | 36.5 (1.44) | 129.6 (5.10) | 197.7 (7.78) | 53 (2.09) | 83.7 (3.30) | 105.1 (4.14) | M6 X 1.0 | 5.3 | 11.7 |
| TWHC6 | 726 | 982 | 6050 | 8198 | 1½ | 192 (7.56) | 201.6 (7.94) | 44 (1.73) | 158.5 (6.24) | 243.7 (9.59) | 61 (2.40) | 99.9 (3.93) | 135.1 (5.32) | M8 X 1.25 | 8.8 | 19.4 |
| TWHC11 | 1336 | 1811 | 11134 | 15095 | 1½ | 231 (9.09) | 233 (9.18) | 53 (2.07) | 186 (7.34) | 300 (11.81) | 86 (3.39) | 130 (5.12) | 207 (8.16) | M8 X 1.25 | 15.9 | 34.9 |
| TWHC20 | 2439 | 3305 | 20325 | 27541 | 2½ | 280 (11.01) | 310 (12.21) | 64 (2.52) | 220 (8.65) | 364 (14.34) | 94 (3.68) | 155 (6.10) | 212 (8.35) | M12 X 1.75 | 27.5 | 60.8 |
| TWHC35 | 3890 | 5271 | 32418 | 43927 | 2½ | 340 (13.40) | 346 (13.61) | 78 (3.05) | 251 (9.90) | 425 (16.73) | 121 (4.74) | 182 (7.15) | 228 (8.97) | M12 X 1.75 | 46.3 | 102 |
| TWHC50 | 6360 | 8628 | 53000 | 71816 | 2½ | 404.5 (15.93) | 356.6 (14.04) | 88 (3.46) | 266.5 (10.49) | 446.6 (17.58) | 115 (4.53) | 192.2 (7.57) | 258 (10.16) | M12 X 1.75 | 69 | 152 |

* Dimension I shows thread size (on both sides of the tool) for safety handle or lifting point.
 *TWHC20, TWHC35, and TWHC50 models available with lifting points only.



TWHC Accessories



TWHC-ERA
Extended Reaction Arm



TWHC Handle
TWHC1, TWHC3:
DFTAS000001
TWHC6, TWHC11:
DFTAS000002



TWHC-RP
Reaction Pad



TWHC Hex Drives



TWHC-LRA
Long Reaction Arm

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