

# 31

## Professional Ratcheting Torque Wrenches

TQW-RT

High Accuracy Torque Wrench with unmatched safety & accuracy

48 teeth ratchet for an engagement angle of 7-1/2°. Ideal for both precise adjustment & non slip use

Chrome-Molybdenum alloy Steel Square Drive

Fully secure locking mechanism avoids accidental/forced adjustment

To tighten move torque wrench in clockwise direction. Reversing the ratchet allows the wrench to be used for loosening nuts & fasteners

Clearly audible click sound on reaching the required torque

Comes with calibration certificate

Fully serviceable, repair kits available as spare



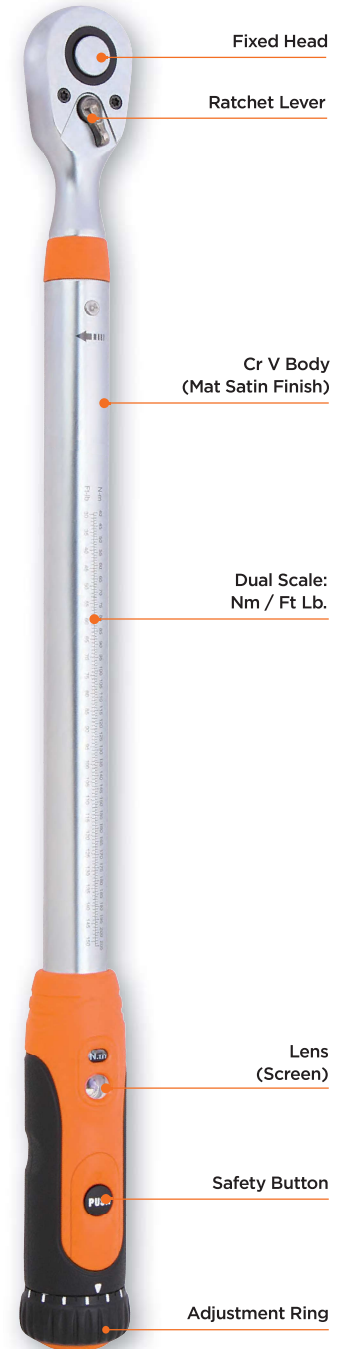
**SET MODE**  
Adjustment Ring in unlocked position for setting Torque value



**USE MODE**  
Adjustment Ring in locked position



Comes in a blow moulded case



### ORDERING INFORMATION

CAT NR.	SQUARE DRIVE	TORQUE RANGE	FINE SCALE	OVERALL LENGTH		NET WT.	BOX QTY.
	(INCH)	(NM)	(NM)	(INCH)	(MM)	(KGS)	
TQW/RT/3-8/25	3/8	5-25	0.1	12.7	323	0.765	1
TQW/RT/3-8/50	3/8	10-50	0.5	15.7	400	0.983	1
TQW/RT/1-2/100	1/2	20-100	0.5	15.7	400	0.998	1
TQW/RT/1-2/200	1/2	40-200	0.5	20.4	517	1.36	1
TQW/RT/1-2/340	1/2	60-340	1	24.4	620	1.73	1
TQW/RT/3-4/750	3/4	150-750	2.5	47.6	1210	5.85	1
TQW/RT/0-1/1000	1	200-1000	2.5	59.0	1500	7.43	1

ACCURACY	IMPULSE - SOUND TORQUE INDICATIONS
± 4% OF READING	



Manufactured to the highest level of DIN ISO 6789 & ASME B107.14M.-2004

Solid steel construction for enhanced durability

Reversible Square Drive: Direction of use can be changed/reversed by pushing the square drive to the opposite side

Click sound clearly audible on reaching the required torque

Convenient retracting lever provides quick and easy torque adjustment

Scale reading made easy with four torque readings engraved on the steel body

Comes with calibration certificate



Convenient Retracting Lever for quick and easy torque adjustment

Easy scale reading: 4 Torque readings stamped on the steel body

ACCURACY	IMPULSE - SOUND TORQUE INDICATIONS
± 4%	



Compact design For easy access in confined spaces



Reversible Square Drive

ORDERING INFORMATION

CAT NR.	SQUARE DRIVE	TORQUE RANGE		OVERALL LENGTH		NET WT. (KGS)	BOX QTY.
	(INCH)	(NM)	(FT-LB)	(INCH)	(MM)		
TQW/CL/3-8/33	3/8	5-33	4-24	16-5/8	422	0.720	1
TQW/CL/3-8/68	3/8	12-68	10-50	18-23/32	476	1.05	1
TQW/CL/1-2/135	1/2	25-135	20-100	21-1/2	546	1.60	1
TQW/CL/1-2/225	1/2	50-225	40-160	23-1/2	597	2.30	1
TQW/CL/1-2/330	1/2	70-330	50-250	32-1/2	825	2.60	1
TQW/CL/3-4/800	3/4	200-800	140-600	42-1/8	1070	7.58	1
TQW/CL/0-1/1000	1	200-1000	140-740	55	1400	12.80	1



Comes packed in a blow moulded case

**NEW!**

Superior digital torque wrenches for high productivity & accuracy

- Button controls for
- angle setting\*
  - torque setting
  - unit setting
  - mode setting
  - data storage\*\*
  - data clearance
  - data output
  - online calibration

**Construction**

Chrome Vanadium Steel with Chrome Molybdenum square drive for increased resistance to wear

Functions in both clockwise & anticlockwise direction

**Interchangeable Head**

Same wrench is suitable for use with two square drives. Heads available as spare too

Light & sound indication on reaching required torque.

Electronic display panel for clear reading of torque. Measure in NM, ft-lb, inch-lb & kg-cm

Built-in overload indicator and moisture indicator

Works with 2xAA batteries with a life of 110 hours

Each unit supplied with calibration certificate. Online calibration also provided

Comes in a safe to store and carry blow moulded case

**Available in 3 types**

- A. Standard Series**
- B. Pro Series**
- C. Pro+ Series**



Interchangeable Head



LED Panel turns from green to red on reaching required torque level



12 LED light panel located on sides of the handle for clear visibility while working sideways

**PRO+ SERIES**

**ORDERING INFORMATION**

CAT NR.	SIZE	DRIVE	FOR USE WITH	BOX QTY.
	(MM)	(INCH)		
<b>SPARE HEAD ONLY</b>				
HD/TQW/9-12/3-8	9 x 12	3/8	TQW/DI-AM/3-8/135, TQW/DI-M/3-8/135, TQW/DI/3-8/135	1
HD/TQW/9-12/1-2	9 x 12	1/2	TQW/DI-AM/1-2/135, TQW/DI-M/1-2/135, TQW/DI/1-2/135	1
HD/TQW/14-18/1-2	14 x 18	1/2	TQW/DI-AM/1-2/340, TQW/DI-M/1-2/340, TQW/DI/1-2/340	1
HD/TQW/14-18/3-4	14 x 18	3/4	TQW/DI-AM/3-4/340, TQW/DI-M/3-4/340, TQW/DI/3-4/340	1

TORQUE ACCURACY	ANGLE ACCURACY
<b>±2% cw</b> <b>±3% ccw</b>	<b>±2°</b>

\* Only on PRO+ Series  
\*\* Only on PRO & PRO+ Series



### A. STANDARD SERIES

- With interchangeable head and 4 control buttons

**Resolution:**  
0.1N-m/ 0.1 ft-lb/1 in-lb/1 kg-cm  
**LED Pattern:**  
4 red + 8 green

CAT NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE ACCURACY	END FITTING SIZE (HXW)	BOX QTY.
	(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)	
TQW/DI/3-8/135	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW	9 X 12	1
TQW/DI/1-2/135	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12	1
TQW/DI/1-2/200	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18	1
TQW/DI/1-2/340	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1
TQW/DI/3-4/340	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1

### B. PRO SERIES (WITH MEMORY FUNCTION)

- With interchangeable head, memory function that can store up to 50 readings
- Operator can store up to 9 pre-set torque values - a time saving feature in repetitive applications

**Resolution:**  
0.1N-m/ 0.1 ft-lb/1 in-lb/1 kg-cm  
**LED Pattern:**  
2 red + 10 green

CAT NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE ACCURACY	END FITTING SIZE (HXW)	BOX QTY.
	(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)	
TQW/DI-M/3-8/135	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW	9 X 12	1
TQW/DI-M/1-2/135	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12	1
TQW/DI-M/1-2/200	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18	1
TQW/DI-M/1-2/340	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1
TQW/DI-M/3-4/340	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1

### C. PRO+ SERIES (WITH MEMORY & ANGLE FUNCTION)

- Most versatile single wrench for torque & angle tightening, eliminates the need to buy a separate angle wrench
- Angle tightening eliminates any friction issue thus ensuring complete safety
- Store up to 9 pre-set torque values - a time saving feature in repetitive applications
- Memory function that stores upto 50 readings

**Resolution:**  
0.1N-m/ 0.1 -lb/1 in-lb/1 kg-cm & 1°  
**LED Pattern:**  
2 red + 10 green

### ORDERING INFORMATION

CAT NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE & ANGULAR ACCURACY	END FITTING SIZE (HXW)	BOX QTY.
	(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)	
TQW/DI-AM/3-8/135	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW & ± 2°	9 X 12	1
TQW/DI-AM/1-2/135	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12	1
TQW/DI-AM/1-2/200	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18	1
TQW/DI-AM/1-2/340	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1
TQW/DI-AM/3-4/340	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18	1

Lightweight yet robust aluminium construction

Perfect ergonomics & lightweight body makes these ideal for fatigue free usage in heavy workshop applications

Complete with extension bar\* (\*only with 1" drive model) for added leverage

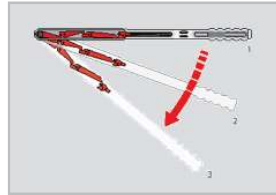


### Torque Indication

Progressive torque building upto the pre-set value easily detected by an audible sound & impulse

### Sturdy Storage

Supplied in rugged blow moulded case for extra safety and protection



### Integrated 3 Lever Chain Mechanism

Length independence, high accuracy and reliability every time over time



### Length Independent

Irrespective of where the force is applied, whether in the middle of the handle or elsewhere, with both hands or with an extension tube, the torque value is always within an accuracy of  $\pm 3\%$



### Dual Scale Window

Clear window for reading in NM and lbf-ft\*



### Torque Adjustment

Secure push-pull knob with integrated hex key for easy setting of torque

ACCURACY

**$\pm 3\%$**

CONFORMS TO

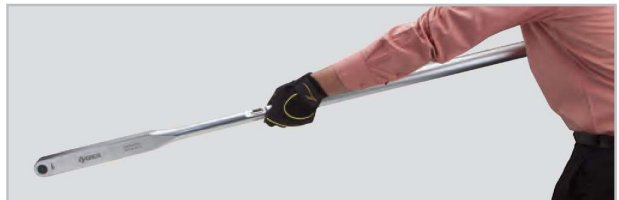
**DIN 6789**  
**ASME B107.300-2010**

IMPULSE - SOUND TORQUE INDICATIONS



### Chrome Molybdenum

Square Drive: for higher strength and durability



### Added Leverage

Supplied with an aluminium tube extension for increased leverage while tightening at high torque values

### ORDERING INFORMATION

CAT NR.	SQ DRIVE	TORQUE RANGE		GRADUATION	OVERALL LENGTH		NET WT. (KG)	BOX QTY.
	(INCH)	(NM)	(FT-LB)		(INCH)	(MM)		
TQW/AL/3-4/760	3/4	140-760	100-560	10	32-1/2	827	3.0	1
TQW/AL/0-1/2000	1	750-2000	N/A	50	93	2370	11.7	1

\*Only on 3/4". On 1" single window with reading in N-m only

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# Torque Multipliers

TQM



Heavy duty torque multiplier provides mechanical advantage in applying high torque to tighten nuts & bolts

Particularly used for high torque application

Chrome Vanadium construction with Chrome Molybdenum square drive & Chrome Molybdenum reaction bar

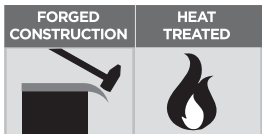
Planetary gear train mechanism multiplies the input torque as per the multiplication factor to deliver the output torque

Torque multiplicative factor reduces operator effort by upto 75%

Replaces the use of long levers, which can be potentially dangerous

Includes breakaway adaptor to prevent damage to the multiplier in case excess torque is applied

Comes complete with straight reaction bar, breakaway adaptor & hex key in a blow moulded case

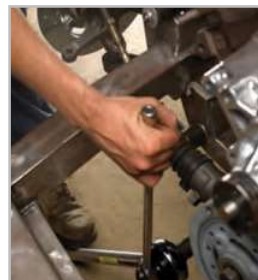


### SPECIFICATIONS

DESCRIPTION	1:6.5 TORQUE MULTIPLIER 1500 Nm (1100 ft-lb)	1:3.3 TORQUE MULTIPLIER 2500 Nm (1840 ft-lb)
Max. Torque	1500 (1100 ft-lb)	2500 (1840 ft-lb)
Torque ratio	1 : 6.5	1 : 3.3
Gear ratio	1 : 9	1 : 4
Max. Input torque	231 Nm (170 ft-lb)	758 Nm (560 ft-lb)
Max. Output torque	1500 Nm (1100 ft-lb)	2500 Nm (1840 ft-lb)
Input drive	1/2"	3/4"
Output drive	3/4"	1"
Accuracy	± 10%	± 10%

### ORDERING INFORMATION

CAT NR.	MAX. TORQUE		BOX QTY.
	(NM)	(FT-LB)	
TQM/1-2/3-4/15	1500	1100	1
TQM/3-4/0-1/25	2500	1840	1



Torque multiplier used in inaccessible areas



Torque multiplier used for lug nuts



Torque multiplier used on tracks



Torque multiplier used for machine nut tightening