

# TORQUE WRENCHES

The ever-increasing need for accurate torque tightening throughout industry, in both manufacturing and servicing demands the use of reliable, accurate torque wrenches. There are many reasons for insisting on POWERMASTER Torque Wrenches from POWERMASTER.

For certainty and safety ask for **POWERMASTER** by name and accept no substitutes.

## ACCURATE IN USE

Mechanism pivots on the square drive.

Guaranteed accuracy wherever the wrench is grasped.

## DURABLE

Hard-wearing, heavy-duty mechanism.

Retains original accuracy of  $\pm 3\%$  for up to 10,000 operations without Recalibration.

## SAFETY IN USE

Progressive torque build-up to the selected setting easily detected by sight, sound and feel.

Torque setting cannot be exceeded by accident. Avoids mechanical damage and risk of injury.

## ACCURATE IN DESIGN

Guaranteed accuracy of  $\pm 3\%$  throughout the torque Range.

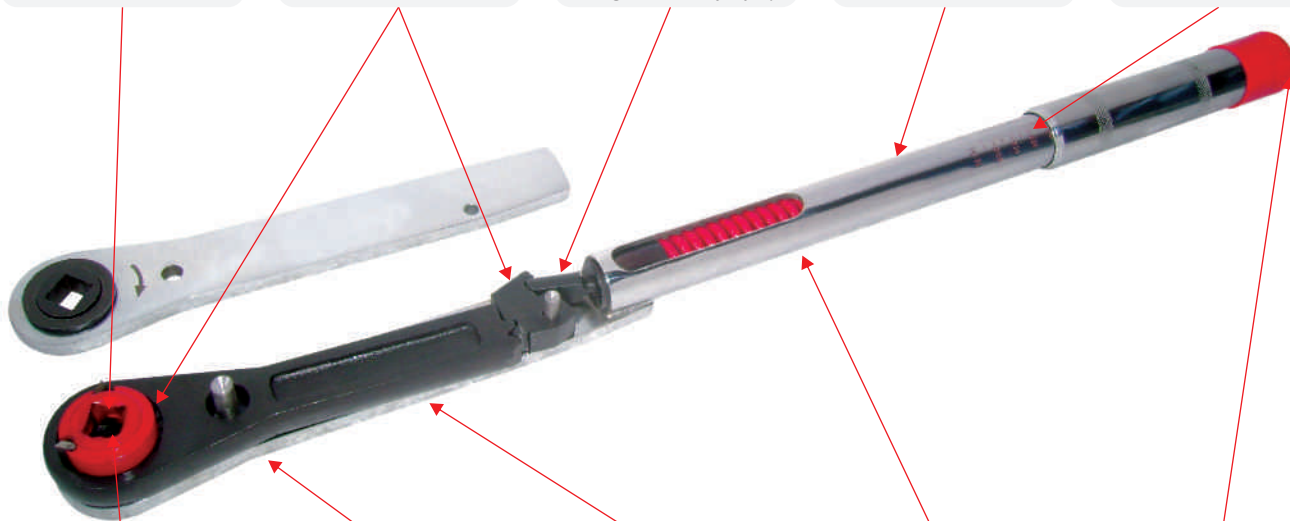
Ensures safety and avoidance of damage.

## EASY TO USE

### TORQUE SCALE

Large, clear scale markings in Nm, kg/m, lbf/in and lbf/ft.

Accurate setting easily obtained.



## CONVENIENCE IN USE

Push-through, user replaceable square drive.

Enables wrench to be turned over and used in opposite direction: with no need to return wrench to manufacturer for drive repair.

## COMPACT

Head no wider than a typical socket or, in the case of ratcheting versions, no bigger than a typical ratchet handle head.

Improved access in confined spaces.

## ROBUST

Extremely strong construction.

Resists all but the most severe accidental damage.

## EASE IN USE

Length calculated to enable a controlled effort at all torque settings essential in all torque limiting situations.

Avoids accidentally exceeding required torque setting so preventing damage and safety risks.

## SECURITY

Secure and rapid torque setting adjustment.

Easily adjusted yet Impossible to alter by accident-ensures accurate setting at all times.

# TYPES OF TORQUE WRENCHES

POWERMASTER Torque Wrenches have proved themselves both reliable and accurate over many years of full service, mastering every conceivable nut tightening operation in all areas of industry. POWERMASTER Torque Wrenches are available in following three types:



## Standard Torque Wrenches

Adjustable click type torque wrenches.



## Ratcheting Torque Wrenches

In built ratcheting mechanism provisional for ease of operation without effecting accuracy & life.



## Production Torque Wrenches

These torque wrenches are available in both standard & ratcheting but have a fixed torque value set to prevent any tempering by operation.

3/8"

1/2"

## TORQUE WRENCHES

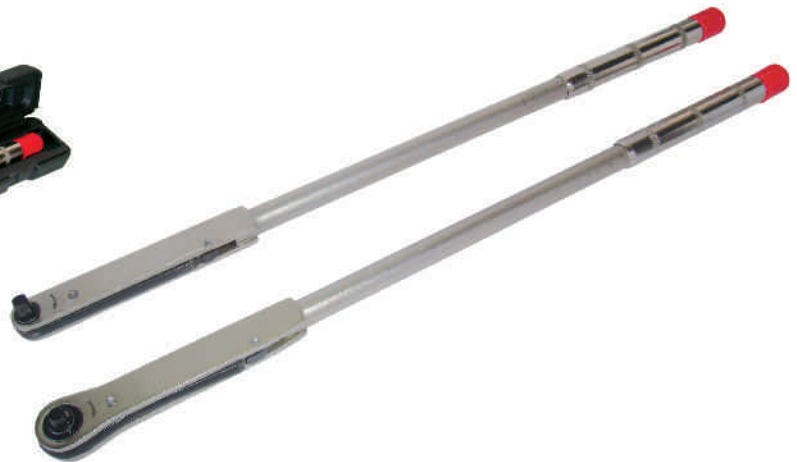
### Classic Mechanical - Torque Wrenches



#### 3/8" Square Drive

Ref.	Ratchet?	Torque Range				Square Drive		Length		Weight	
		N.m	Kg.m	lbf.in	lbf.ft	mm	inch	mm	inch	kg	lbs
PVT-100A	✗	2.5-11	0.3-1.2	20-100	2-8	9.52	3/8	318	12.52	0.56	1.23
PVTR-100	✓	2.5-11	0.3-1.2	20-100	2-8	9.52	3/8	334	12.75	0.65	1.27
PVT-300A	✗	5-34	0.5-3.5	40-300	4-24	9.52	3/8	422	16.60	0.60	1.57
PVTR-300	✓	5-34	0.5-3.5	40-300	4-24	9.52	3/8	443	17.00	0.75	1.62
PVTR-600	✓	12-68	1.2-7	100-600	10-50	9.52	3/8	499	19.50	1.10	2.35

All models are supplied complete with sturdy blow moulded box and a calibration certificate fully traceable to national standards and suitable for ISO-9000 assessment purposes.



#### 1/2" Square Drive

Ref.	Ratchet?	Torque Range				Square Drive		Length		Weight	
		N.m	Kg.m	lbf.in	lbf.ft	mm	inch	mm	inch	kg	lbs
PVT-600A	✗	12-68	1.2-7	100-600	10-50	12.7	1/2	476	18.74	1.02	2.25
PVT-1200A	✗	25-135	3-14	200-1200	20-100	12.7	1/2	546	21.50	1.62	3.57
PVTR-1200	✓	25-135	3-14	200-1200	20-100	12.7	1/2	555	21.85	2.00	4.40
PVT-2000A	✗	50-225	5-23	400-2000	40-160	12.7	1/2	597	23.50	2.38	5.25
PVTR-2000	✓	50-225	5-23	400-2000	40-160	12.7	1/2	626	24.64	2.49	5.47
PVT-3000A	✗	70-330	7-35	600-3000	50-250	12.7	1/2	825	32.48	3.12	6.86
PVTR-3000	✓	70-330	7-35	600-3000	50-250	12.7	1/2	840	33.07	4.00	8.80

All models are supplied complete with sturdy blow moulded box and a calibration certificate fully traceable to national standards and suitable for ISO-9000 assessment purposes.

# TORQUE WRENCHES

## Classic Mechanical - Torque Wrenches

3/4"

1"



### 3/4" & 1" Square Drive

Ref.	Ratchet?	Torque Range			Square Drive		Length		Weight	
		N.m	Kg.m	lbf.ft	mm	inch	mm	inch	kg	lbs
PVT-5000	✗	140-560	14-57	100-410	19.1	3/4	1130	44.49	5.90	13.00
PVTR-5000	✓	140-560	14-57	100-410	19.1	3/4	1210	47.64	6.58	14.50
PVT-7200	✗	200-810	22-82	150-600	19.1	3/4	1181	46.50	6.50	14.30
PVTR-7200	✓	200-810	22-82	150-600	19.1	3/4	1261	49.65	7.00	15.40
PVT-8400	✗	480-940	49-95	350-700	25.4	1	1397	55.00	11.30	24.90
PVTR-8400	✓	480-940	49-95	350-700	19.1	3/4	1471	57.91	12.70	28.00
PVT-12300	✗	700-1400	70-140	500-1000	25.4	1	1505	59.25	15.50	34.10
PVTR-12300	✓	700-1400	70-140	500-1000	25.4	1	1505	59.25	17.00	37.40
TQW-10	✗	1015-1900	105-195	750-1400	25.4	1	1356	53.38	16.50	36.30
TQW-R-10	✓	1015-1900	105-195	750-1400	25.4	1	1356	53.38	18.00	39.60
TQW-11	✗	1350-2700	135-275	1000-2000	25.4	1	1498	58.97	19.50	42.90
TQW-R-11	✓	1350-2700	135-275	1000-2000	25.4	1	1498	58.97	20.60	45.32

All models are supplied complete with calibration certificate fully traceable to national standards and suitable for ISO-9000 assessment purposes.

### Torque Wrench Extensions



Ref.	Torque Range		Square Drive		Length		Weight	
	N.m	lbf.ft	mm	inch	mm	inch	kg	lbs
PTWX-1500	900-1500	664-1107	25.4	1	740	29.13	6.50	14.30
PTWX-2000	1000-2000	738-1476	25.4	1	1390	54.72	11.00	24.20

PTWX-1500/2000 - 1" square drive torque wrench extension. These products have been developed to meet the torque tightening needs in excess of 1000N.m. This method of increasing the range of the PVT-8400 has the major benefit of being more manageable in terms of physically applying the torque load (often a two man job), and from a transport and storage point of view.

The extension fits between the ratchet head and the socket. The required torque value is converted to the torque wrench reading using the supplied chart and the load is applied in the normal way.

3/4"

## LIGHT WEIGHT TORQUE WRENCHES

Light Weight Mechanical - High Strength Alloy Body



### Features :

- Material : Light weight high strength alloy body reduces its weight to half of the equivalent conventional Torque Wrenches.
- Compact Size : Compact in size with multiple extensions, ensures use at restricted places. Light Weight & Compact Packing makes handling & transportation easy.
- Torque Indication : Short path actuation of gears provide clear impulse & audible signal on reaching set torque values.
- Variable Extension : Extension bars can be adjusted to get different extension length as per the operator's requirement.
- Pin Locking : Pin Lock mechanism at Sq. Drive for positive safe locking.
- Graduation : Single Scale Graduation for clear reading, Standard scale graduation is in Nm but can be supplied in other scales as required on request.
- Longer Range : 140 Nm to 3000 Nm covered in just four models.
- Accuracy : Better than +\_3% with very high repeatability.
- Calibration : Calibration Traceable to National Standards.
- Ratcheting Action : Suitable Ratchet Adaptors available to convert to ratchet type Torque Wrench.
- Packing : Standard packing is in individual sturdy cardboard box. On request also available in metallic case.

### Technical Details:

Model No.	Range		Sq. Drive	OAL	Extension	Weight
	Nm	Kgf m	inch	mm	mm	kg
LTW - 75	140-760	14-76	3/4	810	-	3.5
LTW - 100	520-1000	52-100	3/4	810	+520	5.5
LTW - 200	750-2000	75-200	1	935	+675/1075	11.5
LTW - 300	1500-3000	150-300	1.1/2	935	+675/1075	14

## TORQUE SCREW DRIVER

### Features :

- 1/4" Square Drive Spindle to suit all Standard Sockets & Screw Driver Bits.
- Bi-Directional operation with consistent repeat accuracy.
- Concealed adjustment mechanism to prevent accidental re-setting during use.



### Technical Details:

Model No.	Range			Sq. Drive	OAL	Weight
	Lbf. Ins	Kgf cm	N cm	inch	mm	kg
PTS - 15	1 - 15	1 -15	-	1/4	150	0.270
PTS - 50	10 - 50	10- 50	-	1/4	160	0.350
PTD - 10	-	-	10 - 120	1/4	165	0.300