

# TORQCLICK 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. When you buy a torque wrench you are paying essentially for sustained accuracy. Without accuracy that can be relied upon, the results are at best misleading and at worst positively dangerous and damaging.

There are many reasons for insisting on TORQCLICK Torque Wrenches from POWERMASTER.

For certainty and safety ask for TORQCLICK  
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

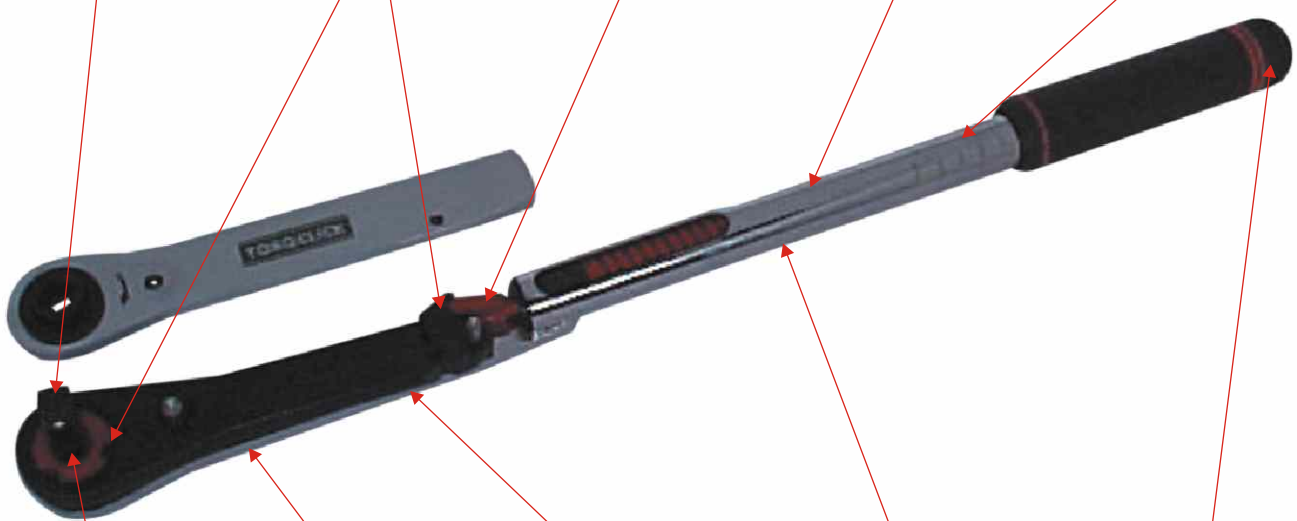
*Length calculated to enable a controlled effort at all torque settings essential in all torque limiting situations.*

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

## SECURITY

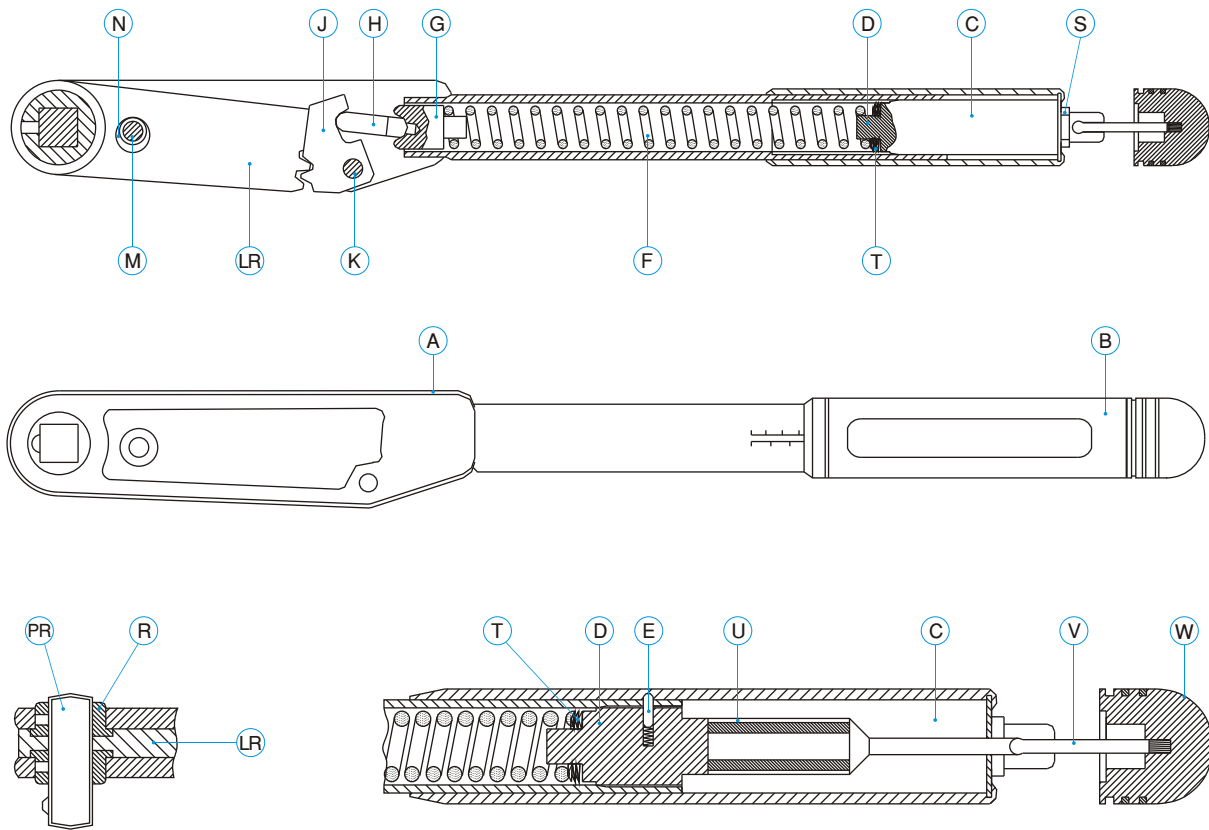
*Secure and rapid torque setting adjustment.*

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



# TORQCLICK TORQUE WRENCHES

## TORQCLICK Torque Wrench Spare Parts



This table gives correct descriptions for the parts identified by reference letters on the drawing above.

Ref. Letter	Description Of Part	Ref. Letter	Description Of Part
A	Brazed Body	LR	Gear Link
B	Handle Sleeve	M	Gear Link Retaining Pin
C	Adjusting Screw	N	Spacing Bush
D	Spring Adjuster Plug	PR	Square Drive
E	Lock Pin	R	Square Drive Brushes
F	Spring	S	Circlip
G	Plunger	T	Packing Washers
H	Toggle	U	Barrel Plug
J	Pinion Link	V	Tommy Bar
K	Pinion Link Pivot Pin	W	Knob

**Important :** To ensure correct calibration, a new Spring (F) can only be supplied complete with Spring Adjuster Plug (D) and requisite number of Packing Washers (T). These parts must be kept together prior to assembly in the wrench. Recalibrate the Torque Wrench after repair \ replacement of any component.

**To order a replacement part :** Prefix the letter reference for the part required with the wrench.

Example - Wrench No. **PVTR-1200** Part required is Toggle (H). Quote **PVTR-1200 H**.

# TYPES OF TORQCLICK TORQUE WRENCHES

## Non Ratcheting

Indicate with touch, sound and sight when the required torque setting is reached. This 3 phase safety signal ensures that whatever the application, the tightening torque is applied with the highest degree of accuracy and the minimum of effort.

It is now standard practice for designers or manufacturers of component parts to issue recommended torque loads. The importance of these figures cannot be over-emphasised. They are vital to the engineer or mechanic for servicing and repairs and also to industries where mass production techniques are employed.

TORQCLICK 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.



## Ratcheting

The ratchet action on TORQCLICK Torque Wrenches speeds up operation while still maintaining a controlled torque loading. The ratchet ensures that minimal movement is required giving ease of operation in confined spaces. The heads of the wrenches have been kept very compact for maximum accessibility.



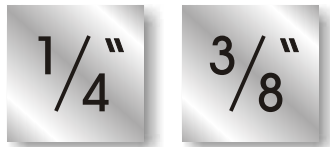
## Production

With the ever increasing use of fixed torque setting in production line assembly, the need exists for Torque Wrenches capable of being set at a particular load, and then locked in such a manner as to stop unauthorised alteration of the setting.

TORQCLICK Production Torque Wrenches meet this need, available in both reversible non-ratcheting and reversible ratcheting types. These Torque Wrenches provide a constant accurate torque which cannot be altered by the operator, but when required, can be re-set to a different torque load using a suitable test rig.



# TORQCLICK TORQUE WRENCHES



## Classic Mechanical - Torque Wrenches



1/4" & 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	6.35	1/4	334	13.14	0.58	1.27
PVT-300A	✗	5-33	0.5-3.4	40-300	4-24	9.52	3/8	422	16.61	0.71	1.57
PVTR-300	✓	5-33	0.5-3.4	40-300	4-24	9.52	3/8	443	17.44	0.74	1.62
PVT-600A	✗	12-68	1.2-7	100-600	10-50	9.52	3/8	476	18.74	1.02	2.25
PVTR-600	✓	12-68	1.2-7	100-600	10-50	9.52	3/8	499	19.64	1.07	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.

## Production Torque Wrenches - Fixed Torque Setting



Ref.	Ratchet?	Torque Range				Square Drive		Length		Weight	
		N.m	Kg.m	lbf.in	lbf.ft	mm	inch	mm	inch	kg	lbs
PFT-100	✗	4.1-10.9	0.4-1.1	40-100	3-8	9.52	3/8	260	10.24	0.50	1.10
PFTR-100	✓	4.1-10.9	0.4-1.1	40-100	3-8	9.52	3/8	273	10.74	0.52	1.14
PFT-300	✗	9.6-34	1.0-3.4	86-300	7.25	9.52	3/8	350	13.78	0.60	1.30
PFTR-300	✓	9.6-34	1.0-3.4	86-300	7.25	9.52	3/8	367	14.44	0.63	1.38
PFT-600	✗	20-69	2.0 to 6.9	177-610	15-51	9.52	3/8	434	17.10	0.98	2.15
PFTR-600	✓	20-69	2.0 to 6.9	177-610	15-51	9.52	3/8	455	17.91	1.02	2.24

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1/2"

# TORQCLICK TORQUE WRENCHES

## Classic Mechanical - Torque Wrenches



### 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
PVTR-600	✓	12-68	1.2-7	100-600	10-50	12.7	1/2	499	19.64	1.07	2.35
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.

### Production Torque Wrenches - Fixed Torque Setting



Ref.	Ratchet?	Torque Range				Square Drive		Length		Weight	
		N.m	Kg.m	lbf.in	lbf.ft	mm	inch	mm	inch	kg	lbs
PFT-720	✗	27-82	2.8-8.3	200-270	20-60	12.7	1/2	470	18.50	1.40	3.08
PFTR-720	✓	27-82	2.8-8.3	200-720	20-60	12.7	1/2	475	18.70	1.62	3.57
PFT-1200	✗	68-136	6.9-13.8	600-1200	50-100	12.7	1/2	555	21.85	1.60	3.53
PFTR-1200	✓	68-136	6.9-13.8	600-1200	50-100	12.7	1/2	565	22.24	1.82	4.00
PFT-2000	✗	116-218	11.8-22	1000-2000	85-160	12.7	1/2	680	26.77	2.60	5.72
PFTR-2000	✓	116-218	11.8-22	1000-2000	85-160	12.7	1/2	680	26.77	3.20	7.04
PFT-3000	✗	170-341	17.3-34.5	1500-3000	125-250	12.7	1/2	820	32.28	3.00	6.60
PFTR-3000	✓	170-341	17.3-34.5	1500-3000	125-250	12.7	1/2	820	32.28	3.50	7.70

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# TORQCLICK TORQUE WRENCHES

3/4"

1"

## Classic Mechanical - Torque Wrenches



### 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	14.2-57.1	100-410	19.1	3/4	1130	44.49	5.90	13.00
PVTR-5000	✓	140-560	14.2-57.1	100-410	19.1	3/4	1210	47.64	6.58	14.50
PVT-7200	✗	200-810	20.4-82.6	150-600	19.1	3/4	1181	46.50	6.50	14.30
PVTR-7200	✓	200-810	20.4-82.6	150-600	19.1	3/4	1261	49.65	7.00	15.40
PVT-8400	✗	480-940	49-95.9	350-700	25.4	1	1397	55.00	11.30	24.90
PVTR-8400	✓	480-940	49-95.9	350-700	25.4	1	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	✗	1015-1890	105-195	750-1400	25.4	1	1356	53.38	16.50	36.30
TQW-R-10	✓	1015-1890	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.