



Torque Wrenches





Torque Wrenches – Technical

The torque wrench is an essential hand tool that is now fundamental in all garages and workshops.

The Britool torque wrench range has been carefully designed to provide a range of solutions to meet the needs of the torque-tightening user.

What is Torque?

- Torque is a turning or twisting force, the result of a force applied at a given distance about a known centre
- It is recorded in units of force x distance

i.e. Nm = Newtons (force) x metres (distance) or lbf/ft = lbf (force) x feet (distance) (1 Newton = 1kg m/s2)

Classic Mechanical Torque Wrenches

The Britool Classic torque wrench has won a reputation for reliability and quality established over 50 years. The unique mechanism has distinct advantages which ensure it remains a firm favourite with users worldwide.

Unique 3-phase Mechanism

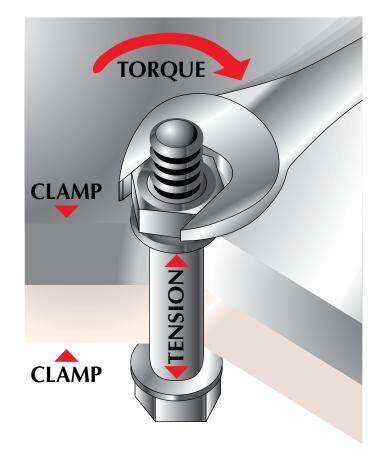
A progressive torque build-up to the selected setting is easily detected by three clear signals:

1 SIGHT see the mechanism progressively move towards the point of break as the load is applied

2 TOUCH feel the point of torque

3 SOUND unmistakable CLICK

This makes it ideal for use in noisy environments





ACCESSIBILITY

Compact design ideal for restricted access

DURABILITY

Proven to be one of the most robust products in the market, the first choice for arduous conditions

ACCURACY

Exceeds requirements of ISO 6789

SCALE

Multiple scales – Nm, kg.m, lbf.in and lbf.ft are branded into steel tube, giving readability for the life of the product

FLEXIBILTY

Push-through square drive for left and right hand operation

SETTING

Retractable adjuster knob cannot be altered by accident

SERVICE

Fully repairable with dedicated service kits

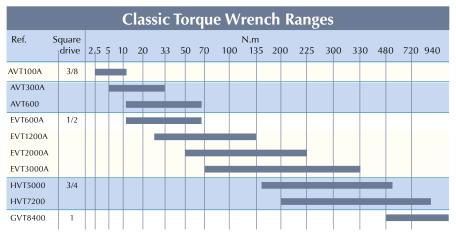
Classic Mechanical Torque Wrench – Non-Length Dependant

Unlike most other torque wrenches, the mechanism pivots around the square drive. This gives the major advantage in that the torque wrench is not length dependant. As a result there is no variation to the application of the preset torque value, no matter where the handle is grasped.



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Scale Divisions									
Series	N.m	Kg.m	lbf.in	lbf.ft					
100	0.5	0.1	10.0	1.0					
300	1.0	0.1	10.0	1.0					
600	2.0	0.2	20.0	2.0					
1200	5.0	1.0	50.0	2.0					
2000	5.0	1.0	50.0	2.0					
3000	10.0	1.0	100.0	10.0					
5000	10.0	-	100.0	10.0					
8400	10.0	-	-	10.0					



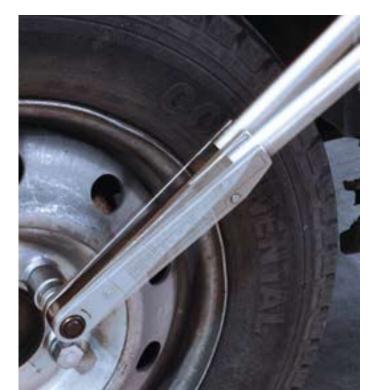
How To Read The Britool Torque Wrench Code

Regular	Torque	Maximum	Scale type					
type	Wrench	lbf.in						
V	Т	3000	Α					
Variable			A denotes a production					
(regular,			change to the latest					
,			model					
type)								
The example code in the blue band is for a 1/2" variable								
	V Variable (regular, adjustable type) he example co	type Wrench V T Variable (regular, adjustable type) he example code in the blue	type Wrench Ibf.in V T 3000 Variable (regular, adjustable type)					

Torque Measurement Con	nversion Chart
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	Torque Measurement Conversion Chart											
	/ERT				TO CON	VERT TO)					
TO CONVERT FROM	mN.m millinewton- metre	cN.m centinewton- metre	N.m newton- metre	daN.m decanewton- metre	cm.kg centimetre- kg	m.kg metre- kg	in.oz inch- ounce	in.lb inch- pound	ft.1b foot- pound			
	1mN.m 1cN.m 1N.m 1daN.m	1 10 1000 10000	0.1 1 100 1000	0.001 0.01 1 10	0.0001 0.001 0.1 1	0.0102 0.102 10.2 102	0.000102 0.00102 0.102 1.02	0.1418 1.418 141.8 1418	0.00886 0.0886 8.863 88.63	0.000738 0.00738 0.738 7.38		
	1cm.kg 1m.kg	98 9810	9.8 981	0.098 9.81	0.0098 0.98	1 100	0.01 1	13.9 1390	0.869 86.90	0.0724 7.24		
	1in.oz 1in.lb 1ft lb	7.05 112.8 1350	0.705 11.28 135	0.00705 0.1128 1.35	0.0007 0.01128 0.135	0.072 1.152 13.8	0.0072 0.0115 0.138	1 16 192	0.063 1	0.0052 0.083		







³/8" Square drive											
MODEL								4 4			
	N.m	kg.m	lbf.in	lbf.ft	in	mm	mm	Kg			
AVT100A	2.5-11	0.3-1.2	20-100	2-8	3/8	10	318	0.56			
AVT300A	5-33	0.5-3.4	40-300	4-24	3/8	10	422	0.71			

1/2" Square drive										
MODEL					1		4 4			
	N.m	kg.m	lbf.in	lbf.ft	in	mm	mm	Kg		
EVT600A	12-68	1.2-7	100-600	10-50	1/2	12.5	476	1.02		
EVT1200A	25-135	3-14	200-1200	20-100	1/2	12.5	546	1.62		
EVT2000A	50-225	5-23	400-2000	40-160	1/2	12.5	597	2.38		
EVT3000A	70-330	7-35	600-3000	50-250	1/2	12.5	825	3.12		

3/ ₄ " Square drive										
MODEL					_	= 44				
	N.m	lbf.in	in	mm	mm	Kg				
HVT5000	140-560	100-410	3/4	20	1130	6.58				
HVT7200	200-810	150-600	3/4	20	1181	7.00				
GVT8400	480-940	350-700	1	25	1397	12.7				

Calibration Procedure

Calibration is performed by comparison with reference standards which have been calibrated and are traceable to National Standards. The limits shown and test equipment used for the calibration comply with the requirements of ISO6789. N.B. torque wrenches should be regularly checked on a test ring after a period of 12 months or 5,000 cycles.

Calibrated at the factory at \pm 4% using the ISO6789 reference TRACEABLE TO NATIONAL STANDARDS IN ACCORDANCE WITH BSENISO06789:2003 "For the first recalibration, the period of validity starts with user's first operation of the torque tool"

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