

Mechanical Torque Wrenches

Series 900

- With reversible 72 teeth ratchet head, universal fittings 9x12, 14x18 or 16 mm spigot end.
- Quick and precise slide adjustment by unscrewing the knob and gliding the slider on the scale to the required value.
- With graduated scale in Nm and Lbf.ft or pre-set (the desired torque must be set using a torque analyzer).
- Excellent repeatability and reliability.
- Dual signal when the set torque is reached: acoustical click and effort decrease.
- Ergonomic handle.
- Guaranteed accuracy in accordance with EN ISO 6789:2003.
- Traceable calibration certificate through accredited laboratories.

Model	Capacity			Length mm	Weight Kg
	Nm	Lbf.ft			
906	10-60	7.5-44	1/2"	380	1.00
910	20-100	15-70	1/2"	450	1.20
920	40-200	30-150	1/2"	450	1.20
930	60-350	45-260	1/2"	590	1.45
980	160-800	120-590	3/4"	1180	6.70
990	200-1000	150-750	3/4"	1340	7.40

900F with 9x12
and 14x18 head



900S with 16 mm
spigot end



900 with ratchet



Model	Capacity		Drive	Length mm	Weight Kg
	Nm	Lbf.ft			
906F	10-60	7.5-44	9 x 12	380	1.00
910F	20-100	15-70	9 x 12	445	1.10
920F	40-200	30-150	14 x 18	450	1.10
930F	60-350	45-260	14 x 18	580	1.40
906S	10-60	7.5-44	cil. ø 16 mm	375	1.00
910S	20-100	15-70	cil. ø 16 mm	435	1.10
920S	40-200	30-150	cil. ø 16 mm	440	1.10
930S	60-350	45-260	cil. ø 16 mm	570	1.40

Also available pre-set

Mechanical Torque Wrenches

Series 1000

Model	Capacity					Step Nm	Length mm	Weight Kg
	Nm	Kgfm	Lbf.ft	lbf.in				
1001	2.5-11	0.3-1.2	2-8	20-100	3/8"	0.5	300	0.56
1001CR	2.5-11	0.3-1.2	2-8	20-100	3/8"	0.5	300	0.62
1003	5-33	0.5-3.4	4-24	40-300	3/8"	1	405	0.69
1003CR	5-33	0.5-3.4	4-24	40-300	3/8"	1	410	0.75
1006S	12-68	1.2-7	10-50	100-600	3/8"	2	480	1
1006	12-68	1.2-7	10-50	100-600	1/2"	2	480	1
1015	25-150	2.5-15	20-110	200-1300	1/2"	5	575	1.70
1025	50-200	5-25	40-180	450-2200	1/2"	10	605	2.30
1040	70-350	7-35	50-260	500-3100	1/2"	10	815	3
1040S	100-400	10-40	70-300	800-3500	3/4"	10	700	3.85
1060	100-600	10-60	60-440	800-5200	3/4"	20	870	5.50
1080	140-800	14-80	120-580	1400-7000	3/4"	20	935	6.50
1100	200-1000	20-100	150-750	1500-8500	1"	25	1030	9.70
0200	500-2000	50-200	350-1500	4500-17500	1"	50	1400	18

- Wide range from 2,5 to 2000 Nm.
- Precise and constant tightening: setting the proper torque is easy using a fold-away torque adjuster.
- Thrust bearing for soft calibration purposes.
- The handle turns freely to prevent accidental slipping of the torque setting.
- Double signal when the set torque is reached: acoustical click and effort decrease.
- Wrench re-sets automatically.
- The sliding through square drive enables to effect right and left tightening.
- Four scales: Nm, Kgfm, Lbf.in, Lbf.ft.
- Guaranteed accuracy $\pm 4\%$ in accordance with EN ISO 6789:2003.
- Traceable calibration certificate through accredited laboratories.

CR = with single direction ratchet

Digital Torque Tester

BTR



- Direct reading which allows to display the torque in real time.
- Storing of max measured force (PEAK function) ideal to make measurements of trip torque in both clockwise and anticlockwise direction.
- 200 hours autonomy without recharge.
- Measurement unit in Nm.
- Programmable resolution.
- Programmable digital filter.
- Zero function.
- Peak function (clockwise and anticlockwise).
- Accredia certificate (clockwise).
- RS232 output.
- Linearity-hysteresis $\leq \pm 0,20\%$.

Model	Nm	Decimals	Increment	
BTR5	0.5-5	3	0.001	1/4"
BTR10	1-10	3	0.002	1/4"
BTR25	2.5-25	3	0.005	3/8"
BTR50	5-50	2	0.01	3/8"
BTR100	10-100	2	0.02	1/2"
BTR250	25-250	2	0.05	1/2"
BTR500	50-500	1	0.1	3/4"
BTR1000	100-1000	1	0.2	3/4"
BTR2000	200-2000	1	0.5	1"

BTR Software

TEDEMO



- RS232 protocol configuration.
- BTR remote control.
- Continuous/peak data reading with graphic display.
- Data logger.
- Recording function both in text and excel format files.
- Low system requirements.
- Italian and English languages.

BTR Software

TorqueKAI



- RS232 protocol configuration.
- BTR remote control.
- Data-base manager for first-line samples.
- Uncertainty evaluation (UNI CEI ENV 13005).
- Go/No go immediate report on the tool.
- Personalized calibration report for printing or saving.
- Italian and English languages.

Digital Torque Wrenches

Series 7000

- Peak hold and track mode direct readings.
- CW and CCW readings.
- Angle precision: $\pm 1^\circ$.
- 4xAA batteries, alkaline or rechargeable (charger not included).
- Tolerance range adjustment both on torque and angle.
- Nm, Kg f m, Lbf in, Lbf ft.
- Optical signals through 3 leds, and acoustical signal with buzzer.
- Memory up to 900 values.
- Data output RJ45 for data download (optional kit 7000K).
- Better than EN ISO 6789:2004.

- Torque or torque angle configurations.
- Torque precision: $\pm 1\%$ or 2% (from 10% to full scale).
- User tightening sets definition.
- Angle and Torque Preset.
- Auto switch-off.
- Different selectable languages.
- Clock.
- Wide digital display 132x32 pixels, with backlight.
- Menu driven.

Model	Torque		Torque/Angle		Capacity Nm	Resolution Nm	Drive	Length mm	Weight Kg	Accessories
	C1	C2	A1	A2						
	Accuracy									
7010	±1%	±2%	±1%	±2%	1-50	0.001	Ratchet 1/4"	240	0.40	-
7050					5-50	0.01	9x12	357	0.90	Ratchet 3/8"
7100					10-100	0.01	9x12	418	1.04	Ratchet 1/2"
7200					20-200	0.1	14x18	512	1.25	Ratchet 1/2"
7350					35-350	0.1	14x18	610	1.44	Ratchet 1/2"
7800					80-800	0.1	Ratchet 3/4"	1100	4.40	-
71000					100-1000	1	Ratchet 1"	1340	6.60	-

7000SPD

Breakaway measurement

Method that allow the operator to objectify the control of breakaway measurements automatically. For torque wrenches of Series 7000A.

7000 Wi-Fi



Wireless controlled digital torque wrench with up to 30 torque / angle tightening cycles, data transmission and storage. OK/NOK automatic analysis compared to target values.

Kit composed by:

- Wi-Fi digital torque wrench.
- 7000D Battery charger.
- Manage and storage data software.
- Configuration tool.
- 2,4/5 GHz access point.

7000D

Battery charger:

- Automatic control of the recharging cycle of Li-ion batteries.
 - Control Led for batteries status and cycle.
 - 100-240 AC.
 - Easy start of recharging process with the insertion of the torque wrench.
- For torque wrenches of Series 7000C and 7000A.

7000K

USB data transfer kit composed by:

- RS232 data transfer cable.
 - USB pen drive with EasyReport software that allow to manage exported data and to convert them in Excel or Text files.
- For torque wrenches of Series 7000C and 7000A.



Dial Torque Wrenches

Series 2000

Model	Capacity			Step				Length mm	Weight Kg
	Nm	Lbf.ft	lbf.in	Nm	Lbf.ft	lbf.in			
2003	0-3.5	0-30	-	0.1	1	-	1/4"	270	0.72
2009	0-9	0-75	-	0.2	1	-	1/4"	270	0.72
2018	0-18	0-150	-	0.5	2	-	3/8"	270	0.72
2030	0-30	0-250	-	0.5	5	-	3/8"	270	0.72
2070	0-70	-	0-50	2	-	1	3/8"	270	0.72
2240	0-250	-	0-175	5	-	5	1/2"	560	1.40
2350	0-350	-	0-250	10	-	5	1/2"	560	1.40
2480	0-480	-	0-350	10	-	10	3/4"	675	3.20
2800	0-800	-	0-600	25	-	10	3/4"	1180	4.50
2140*	0-1400	-	0-1000	25	-	20	1"	1970	9.00
2280*	0-2800	-	0-2000	50	-	40	1"	3200	21.00

- Range from 0 to 2800 Nm.
- Left and right hand use.
- Precise tightening achieved by the torsion bar system.
- Dual needle: pointer needle and memory needle.
- The small head allows torque application even in narrow areas.
- Reading scale in Nm/Lbf.in or Nm/Lbf.ft.
- Accuracy $\pm 4\%$.
- Guaranteed accuracy in accordance with EN ISO 6789:2003.
- Traceable calibration certificate through accredited laboratories.

*With led and acoustical signal.

Mechanical loader for BTR

Mechanical loader, provided with a double linear binary, to control torque wrenches allowing gradual and constant application of the force, in accordance with EN ISO 6789:2003. The mechanical loader is predisposed to assembling BTR torque tester, on request can be supplied to assembling other types of tester.

Model	Max Capacity	Dimension mm	Weight kg
BNT1000	1000 NM	1206x265x470	18.9
BNT2000	2000 NM	1506x265x470	27.7

- Monobloc aluminium profile.
- Used for all torque wrenches.
- Reducing operator fatigue and keeping constant the applied torque improves the accuracy and repeatability.

