



EVOTORQUE® BATTERY TOOL (EBT)



13	EBT SERIES - SINGLE SPEED - 'SAFE TO START'
181491	¾" sq. dr., 160 - 800 N·m, 118 - 600 lbf·ft
181493*	1" sq. dr., 200 - 1,350 N·m, 150 - 1,000 lbf·ft
181494	1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft
181495	1" sq. dr., 400 - 2,700 N·m, 295 - 2,000 lbf·ft
181496	1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
181497	1½" sq. dr., 1,400 - 7,000 N·m, 1,030 - 5,200 lbf·ft

*1,350 N·m models come supplied with both ¾" and 1" sq. dr.

13	EBT SERIES - AUTO TWO SPEED - 'SAFE TO START'
181501*	1" sq. dr., 338 - 1,350 N·m, 250 - 1,000 lbf·ft
181503	1" sq. dr., 676 - 2,700 N·m, 499 - 2,000 lbf·ft
181504	1" sq. dr., 1,000 - 4,000 N·m, 738 - 2,950 lbf·ft

8	EBT SERIES - ACCESSORIES
60334.EBT	Battery Pack
60352.KIT	Single Bay Battery Charger

NOTE: Tools supplied with 2 batteries, charger and a secondary handle in a carry case. 800 N·m tools do not come with a secondary handle.

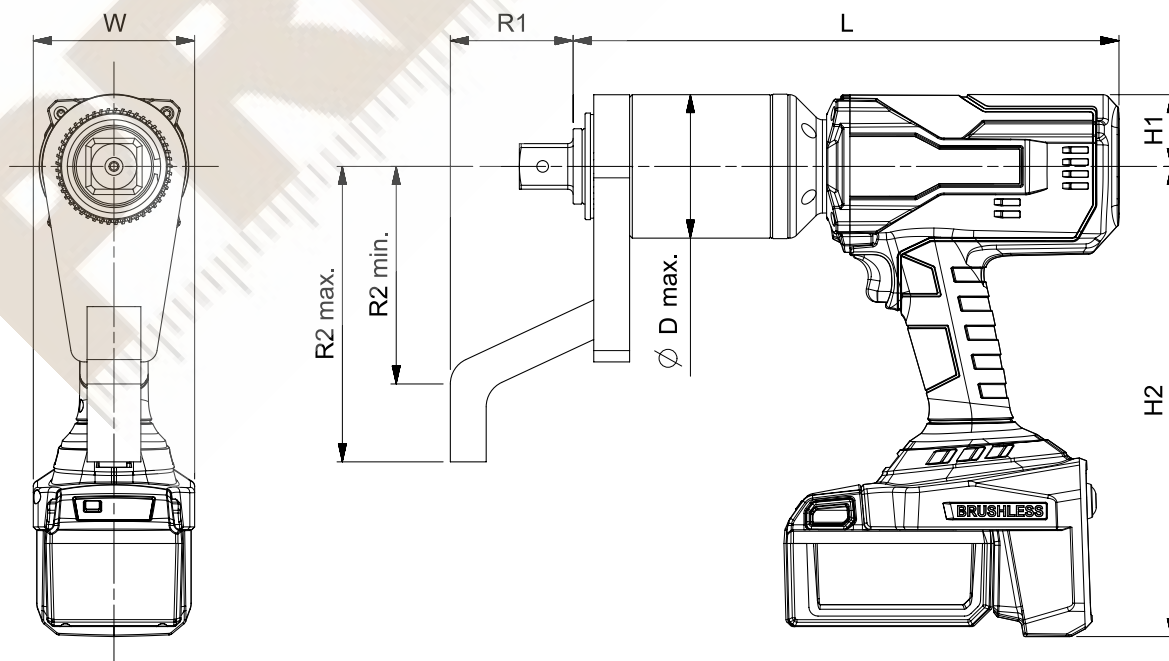
Other tool variations are available, please contact Norbar for details.

When the tool is to be used for untightening bolts; Norbar recommends the selection of single speed versions. In the case of prevailing torque lock-nuts or partially tightening bolts, the Auto Two Speed version of the tools will generally give no advantage and single speed tools should be selected.

Model	EBT-800	EBT-1350	EBT-1350 Auto Two Speed	EBT-2000	EBT-2700	EBT-2700 Auto Two Speed	EBT-4000	EBT-4000 Auto Two Speed	EBT-7000
Part Number	181491	181493	181501	181494	181495	181503	181496	181504	181497
Operating Range (N·m)	100 - 800	120 - 1,350	338 - 1,350	200 - 2,000	270 - 2,700	676 - 2,700	400 - 4,000	1,000 - 4,000	1,400 - 7,000
Calibrated Range (N·m)	160 - 800	200 - 1,350	338 - 1,350	400 - 2,000	400 - 2,700	676 - 2,700	800 - 4,000	1,000 - 4,000	1,400 - 7,000
Output Speed (rpm)	11.2	6.5	32	4.2	3.3	13	2.3	9.5	1.2
Dimensions (mm)	ØD max.	52	72	72	68	80	80	92	119
	H1	40	40	40	40	40	40	40	40
	H2	262	262	262	262	262	262	262	262
	L	271	298	317	294	298	333	352	378
	R1	59	76	76	75	76	70	70	90
	R2 min.	68	124	124	120	124	125	125	160
	R2 max.	131	167	167	165	167	175	175	210
	W	90	90	90	90	90	90	90	90
Tool Weight (kg)*	3.7	5.7	5.9	4.9	5.9	6.8	7.9	8.3	13.1
Reaction Weight (kg)	0.8	1.4	1.4	1.1	1.4	1.4	2.5	2.5	3.9

* Tool weight excludes both reaction and battery. The battery weighs 0.8 kg. For reaction weights, see table.

Tool ranges shown above are calibrated ranges, see table above line drawing for operating ranges.





EVOTORQUE®2



The EvoTorque®2 is an electronic torque tool designed to accurately apply torque to threaded fasteners. Tools are factory calibrated to $\pm 3\%$ of reading. The unique 'intelligent joint sensing' technology continually measures the joint during tightening and when necessary, employs dynamic braking to avoid torque over-shoot due to motor inertia. Consequently, EvoTorque®2 can apply torque accurately over a wide range of joint rates from hard (high torque rate) through to soft (low torque rate). All EvoTorque®2 tools are highly tolerant of supply voltage and frequency variation. If the supply voltage is outside of tolerance then, as a safety feature, the tool will be prevented from starting.

The EvoTorque®2 has the ability to memorise multiple targets, work IDs, user IDs and readings. A work sequence (flow) can be performed on the EvoTorque®2, taking the user through a pre-defined tightening sequence. The tool has four modes of operation: Torque, Torque & Angle, Torque & Angle with Final Torque and Torque Audit. The unique Audit Mode is a sophisticated feature for testing pre-tightened bolts with minimal impact on the original fastening torque and can provide quality control data for monitoring joint performance over time. With accuracy and repeatability of $\pm 3\%$ of the setting, EvoTorque®2 offers many features including:

- Multiple units of torque measurement, N·m, lbf·ft, ft·lb and kgf·m
- Calibrated from 20% to 100% of tool range
- Torque, Torque & Angle and Torque Audit modes available
- Display and on-board storage of final torque or torque and angle values
- Memory capacity for 3,000 readings, time and date stamped
- USB and Bluetooth® 4.0 data transfer (also called Bluetooth® Smart)
- Complementary PC software 'EvoLog' for data management and tool configuration
- 12 user IDs can be downloaded to the tool and results can be stored against individual users
- Results can be output in CSV (comma-separated values) format for users not able to use EvoLog
- 'Usage' counter gives the ability to see the amount of times the tool has been used since the last reset
- 'Turn Angle' option can be used to check if bolts have already been tightened in an assembly process
- Supplied with a traceable calibration certificate for torque and angle as standard. Calibrated from 20% to 100% of tools maximum torque capacity, clockwise only



ET2-1000 & 1350



ET2-2700



ET2-4000



ET2-7000