

BT-ST-302D and BT-ST-302DR DIGITAL TORQUE TOOL



Higher torque ratings to meet mechanical fastening specifications for self-locking threads, and the need for improved electrical bonding, have fostered the need for an improved Torque Tightening System. DMC has responded to that need with a unique Digital Torque System that is rugged, versatile, and easy to use. This highly repeatable Digital Torque System can be easily used with other BETA™ Connector Accessory Tools to maintain precise tightening consistency through every facet of wiring system final assembly.

Many times, torque is only thought of as a means to prevent an assembly from loosening under vibration or other external forces. However, in the present environment, it is equally important not to over-tighten an assembly risking damage to plating, threads, or fastening components made of metal and/or composite materials. Such damage may increase the risk of failure, and/or cause a reduced service life of the wiring system.

DMC's **BT-ST-302D** Digital Torque Tool provides OEMs and field service technicians with a simple and efficient way to precisely measure torque values. This state-of-the-art product was developed specifically to meet the demands of connector final assembly. A Reverse Head model is also available Part Number **BT-ST-302DR**.



Several features of the tool make it a great addition to the DMC BETA™ Connector Accessory Tool product line.

- CW or CCW ratcheting drive
- Visual and/or audible indication when the force torque reaches 40%, 60%, 80%, 100%, and 104% of the set torque
- Modes: Preset, Track or Peak for Torque, and Angle Mode
- Data storage of last 1,500 torque values
- USB interface (cable included)
- Data Download: 302D is exported as a common CSV file that can be read in common spreadsheet software (i.e., Microsoft Excel)
- Auto Turn-Off/Low Battery display
- Splash-Proof, protected against water & moisture, metal components are chrome plated for maximum corrosion resistance
- Ruggedized, withstands drops and rough handling without failure
- 1/4" drive adaptor included
- Standard AA battery (1 battery is included)
- Torque overload display and audible signal
- ISO-6789-203 and ASME B107-28-2005 Standards Compliant



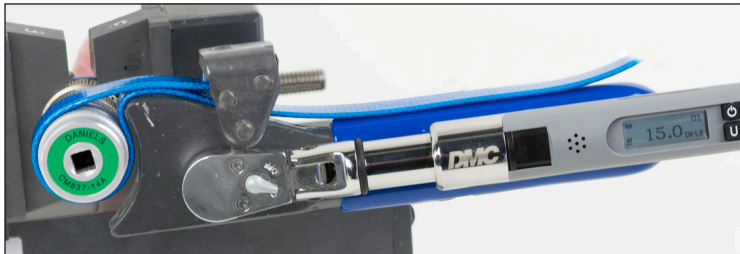
An optional bench mount is available Part Number **BM-302D** which can be configured in a vertical or horizontal position for use with **BT-ST-302DR**

HAND-HELD DIGITAL TORQUE TOOLS	
BT-ST-302D	DIGITAL TORQUE TOOL, 12 - 240 INCH POUNDS
BT-D-0551	ADAPTER – 3/8" DRIVE TO 1/4" SOCKET (Included)
BT-ST-302DR	REVERSE HEAD DIGITAL TORQUE TOOL, 12 - 240 INCH POUNDS
BM-302D	BENCH MOUNT (Optional) for use ONLY with BT-ST-302DR

TORQUE ACCURACY					
in-lb	ft-lb	kg-cm	N-m	dNm	Accuracy (Reading)
48-240	4 - 20	55.3 - 276.5	5.4 - 27.1	54.2 - 271.2	CW +/-2% CCW +/-3%
12 - 45.6	1 - 3.8	13.8 - 52.5	1.4 - 5.2	13.6 - 51.5	CW +/-4% CCW +/-6%

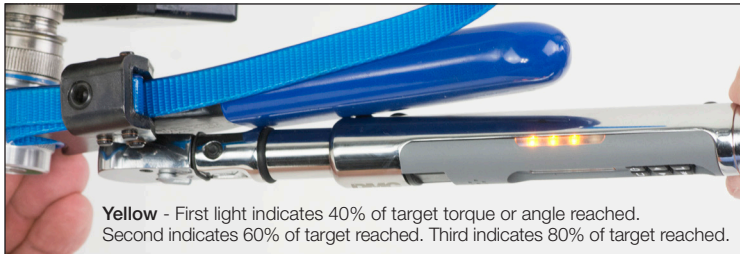
DMC torque wrench calibration data is traceable to NIST.

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Strap Wrench Attachment for the Digital Torque Tool

DMC's handle-less strap wrench (pictured below) line has been specifically designed for torque accurate connector assembly. Based on DMC's established line of torque wrenches, the handle-less strap wrench attaches to the **BT-ST-302D** and provides accurate torque without the interference of the strap wrench handle.



Modern connectors and accessories comprised of lightweight materials, torque sensitive threads, and critical platings have mandated the requirement for precision strap wrenches. DMC Strap Wrenches meet this need by applying a uniform grip around the diameter and avoid pressure points or metal-to-metal contact.



A variety of widths and lengths of straps are available, in several different head configurations, so the system is suited to all common connector applications. See our BETA™ catalog or web site at www.dmctools.com for a full list of strap wrench part numbers.



NOTE: Torque correction is required when using strap wrench extensions. Information available from DMC.

HANDLE-LESS STRAP WRENCH		
Part Number	Strap Width	Gripping Diameter
BT-BS-609T	1/2"	.50" to 2.50"
BT-BS-610T *	1/2"	.25" to 1.50"
BT-BS-611T	5/8"	1.00" to 4.00"
BT-BS-618T	1"	1.00" to 4.00"



Handle-less strap wrench

*Profile for small diameters