



Torque Range:

in-lb = 12 ~ 240 in-lb

ft-lb = 1 ~ 20 ft-lb

kg-cm = 13.8 ~ 276.5 kg-cm

N-m = 1.4 ~ 27.1 N-m

dNm = 13.6 - 271.2

Higher Torque ratings to meet mechanical fastening requirements 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.

Normally, 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 introduces the BT-ST-302D Digital Torque Tool which 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.

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**
- **Saves 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) vs. specialized software required for the 301D**
- **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.**

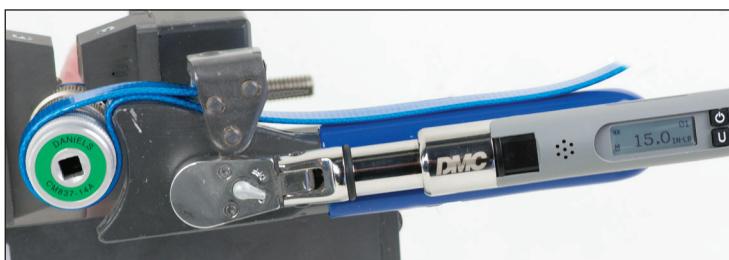
HAND-HELD DIGITAL TORQUE TOOLS

BT-ST-302D	DIGITAL TORQUE TOOL, 12 - 240 INCH POUNDS
BT-D-0551	ADAPTER – 3/8" DRIVE TO 1/4" SOCKET (Included)

TORQUE ACCURACY

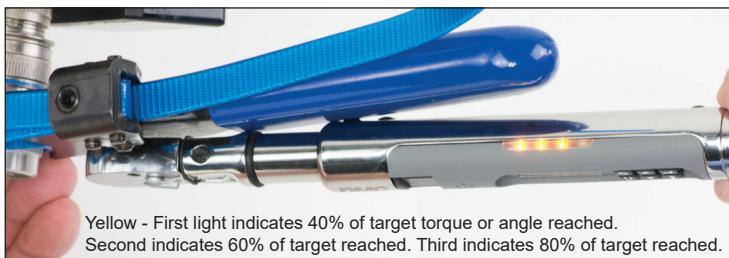
in-lb	ft-lb	kg-cm	N-m	dNm	Accuracy (Reading)
48-240	4 - 20	55.3 - 276.5	5.4 - 27.1	54.2 - 271.2	CW +/-2% CCW +/-3%
12 - 45.6	1 - 3.8	13.8 - 52.5	1.4 - 5.2	13.6 - 51.5	CW +/-4% CCW +/-6%

DMC torque wrench calibration data is traceable to NIST.



Strap Wrench Attachment for the Digital Torque Tool

DMC's handle-less strap wrench 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.



Yellow - First light indicates 40% of target torque or angle reached.
Second indicates 60% of target reached. Third indicates 80% of target reached.

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.



Green - Indicates target torque or angle reached.

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



Red - Indicates exceeded torque or angle target plus 4% or exceeded maximum Preset target.



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"

*Profile for small diameters

Mouser Electronics

Authorized Distributor

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