

The TSTM-DC is an advanced motorized torque test stand offering all the mechanical specifications of the TSTM. The test stand is designed for a wide variety of applications requiring up to 100 lbFin of torque, including closure torque testing, fastener torque testing, and more. Modular design allows the stand to be configured for a variety of torque sensors and gripping fixtures while a lever-operated slider with travel stops makes engaging and disengaging samples quick and efficient. The stand includes a torque loading plate with tapped holes for grip and fixture mounting. Stepper motor design eliminate speed variation with load.

The TSTM-DC's controller adds a significant amount of sophistication, including integrated angle display and output, programmable angle travel limits, an extended speed range, PC control capability, programmable cycling, auto return, overload protection, and other features.

## Features / Specifications

Maximum torque: 100 lbFin [11.3 Nm]
Speed range: 0.01 - 15 RPM [0.05 - 90°/s]
Speed accuracy: $\pm 0.2\%$ of setting, $\pm 0\%$ variation with load
Integrated angle indication with programmable travel limits
Maximum programmable travel limits: $\pm 999,999.9^\circ / \pm 2,777.77$ revolutions
Rotational travel accuracy: $\pm 0.7^\circ$
Rotational travel repeatability: $0.1^\circ$
Rotational travel resolution: $0.1^\circ$
Universal power supply: 80-250 VAC
Mounting holes for bench mounting
Base may be removed for alternative mounting
Grip / fixture mounting plate with 25 #10-32 threaded holes
Slider travel rate: 1.047" [26.6 mm] / lever rev
CE mark



Rotating torque plate has a matrix of tapped holes for grip or fixture mounting



The TSTM-DC is shown in a cap torque test, with a Series STJ torque sensor, BGI force/torque indicator, and G1023 universal closure grip, and G1053 cap grip

## Optional Hardware

### ■ Model BGI force/torque gauge

Universal indicator for Mark-10 force and torque remote sensors. Mounts directly to the test stand.

### ■ Series STJ torque sensor

Mounts directly to the test stand. Capacities available from 10 ozFin to 100 lbFin.

### ■ Multi-function cable, BGI gauge to controller

Connects a Model BGI gauge to the controller. This single cable is used to transmit set points, overload signals, and force data.

### ■ Serial cable, controller to PC

For communicating with a PC for computer control. Also used to send torque and angle data to a PC.

### ■ Serial cable, gauge to PC

Connects a Model BGI gauge with a PC. Bypasses the controller.



The TSTMH-DC is shown in a pen cap torque test, with a Series STJ torque sensor, BGI force/torque indicator, and G1022 Jacobs chuck grip

