

T-20 Torsion Tester



T-20 Legacy Model



T-20HS Model



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Specifications

- Torque Capacity 20 NM (177lbf-in)
- Torque Resolution 0.0004NM (0.0035lbf-in)
- Recommended minimum Torque: 200Nmm (1.77lbf.in)
 - Torque Accuracy: $\pm 2\text{Nmm}$ at 200Nmm ($\pm 0.0177\text{lbf.in}$ at 1.77lbf.in) and better than $\pm 200\text{Nmm}$ at 20000Nmm . ($\pm 1.77\text{lbf.in}$ at 177lbf.in)
- Secondary Load Cell Possibilities:

Torque

Torque Cell Type	Torque Capacity		Torque Resolution		Torque Accuracy at 1% of Range	
	NM	Lbf.in	NM	Lbf.in	$\pm\text{NM}$	$\pm\text{lbf.in}$
5	5	44.25	0.0001	0.000875	0.0005	0.004425
2	2	17.7	0.00004	0.00035	0.0002	0.00177
0.500	0.500	4.425	0.00001	0.000088	0.00005	0.000443
0.010	0.01	0.088	0.0000002	0.000002	0.000005	0.000048

- Continuous digital display or Torque/Angle graphical analysis tools and display
- Interchangeable torque cells
- Safe overload to 200% of FS (Software overload protection at FS). Maximum torsion arm load of 500N (112lbf) with 20Nm load cell

Angular Rotation

- Resolution: 0.036°
- Accuracy: $\pm 0.5^\circ$, Accuracy: $\pm 0.1^\circ$ for HS model
- Absolute display of angle from 0 - 50000°. Angle zeroed anywhere in this range. Test angle absolute or from free position.

Fixtures

- Testing fixture with 4 pin hole sizes (for torque up to 20Nm) or optional 75mm (3.0") 3 jaw chuck (for torque up to 2Nm)

Body Length OD

- 152mm (6") Maximum
- 100mm (4") Maximum

Computer

- 2.4GHz (minimum) Dual Core processor
- USB port for PC data transfer
- Fully Microsoft Windows 10 and Windows 11 Compatible
- 23" SVGA Color monitor supplied with a PC

Languages

- English, German, Turkish

Software Features

- Active Torquecell Electronically Identified
- Programmable for automated testing, including spring rate results.
- Full reporting and printing capability available.
- SPC control charts available.
- Smart self calibration routines
- Automatic or manual determination of torsion rate (linear analysis)
- Fatigue testing algorithm available with HS model

Units

- Nm, Nmm, kgf-m, gf-mm, kgf-cm, ozf-in, lbf-in and angles in degrees or revolutions

Test speeds

- 0 – 6 RPM, servo motion controlled
- 0 – 300 RPM, (8 distinct speed settings available) Speed controlled and not effected by load-----HS model

Dimensions

- 520mm x 228mm x 224mm (20.5"x9"x8.8") LxBxH
- Weight 20kg (50lbs)
- Power** 110V~220V AC 1.5A (Maximum)