

# SPRING ANALYSIS SYSTEMS

## T-Series

### Torsion Spring Testers



**Including  
Interchangeable  
Torsion Cells**

- The worlds most affordable, precision, digital torsion spring testing system.
- PC controlled with outstanding features.
- Configured with either 20Nm (177lbf-in), 2Nm (17.7lbf-in) or 0.5Nm (4.3lbf-in) torque cells.
- Optional SPC control charts, capabilities tests and detailed report creation software.
- Programmable for automated testing with torsion spring test setups stored in files for quick recall.
- Spring angles programmed in absolute or relative to leg angles.
- Optional 3 Jaw chuck for pin sizes up to 75mm (3").
- Includes automatic Self Calibration Routines.
- Fully Microsoft Windows 2000, and XP compatible.



Visit us at: [WWW.SASTESTERS.COM](http://WWW.SASTESTERS.COM)

# Specifications

	T-20	T-2	T-0.5
<b>Torque Capacity</b>	<input type="checkbox"/> 20 NM (177lbf-in)	<input type="checkbox"/> 2 NM (17.7lbf-in)	<input type="checkbox"/> 0.5 NM (4.3lbf-in)
<b>Torque Resolution</b>	<input type="checkbox"/> 0.0004NM (0.0035lbf-in)	<input type="checkbox"/> 0.00004NM (0.00035lbf-in)	<input type="checkbox"/> 0.00001NM (0.00009lbf-in)
<b>Torque Accuracy</b>	<input type="checkbox"/> ±0.0008NM (±0.007lbf-in)	<input type="checkbox"/> ±0.00008NM (±0.0007lbf-in)	<input type="checkbox"/> ±0.00002NM (±0.00018lbf-in)
<b>Torque</b>	<input type="checkbox"/> Continuous digital display or Torque/Angle graphical analysis tools and display <input type="checkbox"/> Accuracy: ±0.01Nm (0.09lbf-in) to 20Nm and ±0.0004Nm (0.0035lbf-in) to 2Nm <input type="checkbox"/> Safe overload to 200% of FS (Software overload protection at FS). Maximum torsion arm load of 500N (112lbf) with 20Nm load cell or 40N (9lbf) with 2Nm load cell.		
<b>Angular Rotation</b>	<input type="checkbox"/> Resolution: 0.03° <input type="checkbox"/> Accuracy: ±0.1° <input type="checkbox"/> Absolute display of angle from 0 - 1800°. Angle zeroed anywhere in this range. Test angle absolute or from free position.		
<b>Fixtures</b>	<input type="checkbox"/> 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)		
<b>Body Length</b>	<input type="checkbox"/> 152mm (6") Maximum		
<b>OD</b>	<input type="checkbox"/> 80mm (3.2") Maximum		
<b>Computer</b>	<input type="checkbox"/> 1.2GHz (minimum) Celeron processor with 128Mbyte RAM <input type="checkbox"/> USB port for PC data transfer <input type="checkbox"/> Fully Microsoft Windows 2000 and XP compatible (PC not included, but can be supplied as an option) <input type="checkbox"/> English, German		
<b>Languages</b>	<input type="checkbox"/> Programmable for automated testing, including spring rate results.		
<b>Software Features</b>	<input type="checkbox"/> Full reporting and printing capability available. <input type="checkbox"/> SPC control charts available. <input type="checkbox"/> Smart self calibration routines <input type="checkbox"/> Automatic or manual determination of torsion rate (linear analysis)		
<b>Units</b>	<input type="checkbox"/> Nm, Nmm, kgf-m, gf-mm, kgf-cm, ozf-in, lbf-in and angles in degrees or revolutions		
<b>Test speeds</b>	<input type="checkbox"/> 0 - 6 RPM, servo motion controlled		
<b>Dimensions</b>	<input type="checkbox"/> 520mm x 228mm x 224mm (20.5" x 9" x 8.8") - LxBxH <input type="checkbox"/> Weight 20kg (50lbs)		<input type="checkbox"/> Power <input type="checkbox"/> 110V~220V AC 1.5A (Maximum)



Tel.: +49(0) 2778-9126-13  
 Fax: +49(0) 2778-9126-20  
 Web: www.federdraht.de

**Europe**



**North America**

Tel: +1269-679-3567  
 Fax: +1269-679-3557  
 Web: www.formingsystemsinc.com