

TST - TORSION SPRING TESTERS

The TST is a manually operated torque / angle tester that is available in six force ranges: 0.3, 3, 25, 100, 200, 500, and 1,300 in-lb. The solid steel base and aluminum frame is durable in many different testing environments. The TST, like all LSI testers, comes standard with an NIST traceable certificate of calibration.

Standard Features:

- Up to 1,300 in-lb capacity
- Interchangeable torque cartridges
- Interchangeable tooling
- Universal tooling
- Deflection compensation
- Absolute zeroing
- Rapid changeovers
- Three rotational stops
- Battery powered – portable
- NIST traceable calibration

Absolute Zero

Take the guesswork out of testing with LSI's revolutionary absolute zeroing technique. Used with custom interchangeable tooling, this technique improves repeatability of setups and results during testing. Parts are then measured against the nominal dimensions according to the drawing or specifications, not to a relative point requiring intuition and guesswork.

Interchangeable Tooling

Using LSI's custom interchangeable tooling technique, you can machine tooling blanks to fit your specific applications or send the information to us and we will do the work for you.

Universal Tooling

With the universal tooling supplied by LSI, you can test many parts with special fittings. This is great for unique or one-time job runs with a minimum of setup time.

Rapid Changeovers

Both custom and universal tooling is designed to be changed in seconds... YES! In just seconds, you can go from one setup to the next, maintaining your repeatability and reproducibility. Setups within ± 0.1 degree.

Limit Lights / Statistical Analysis

These optional features specify a range or tolerance in either load or deflection angle. Then, with the convenient light indicators, you can determine if the item tested is low, good or high and print out a full statistical analysis clearly showing the results.

Automatic Spring Rate Calculation

Two-point testing with automatic spring rate calculation. Test it, then print out with a statistical summary.

Three Rotational Stops

For repetitive applications requiring multiple test points on a given spring, the Torsion Spring Tester comes equipped with three stops that can be preset to any given test point.

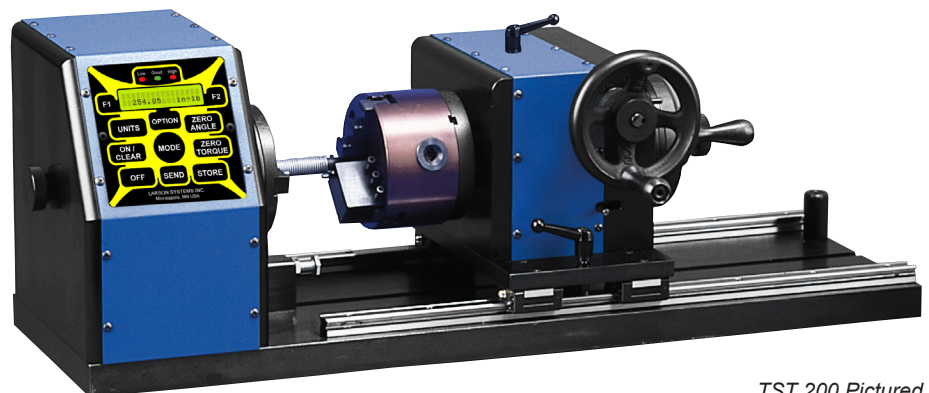
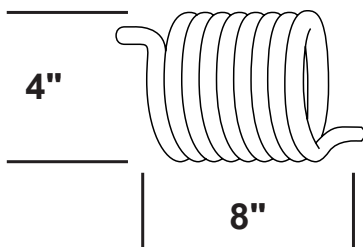
Interchangeable Torque Cartridges

Switch from one torque cartridge to another in just minutes and use a single tester to test a wide range of capacities quickly and accurately. Lower capacity torque cartridges have an overload-preventing lock mechanism.

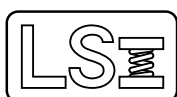
TST - Torque Specifications			
Part No.	Capacity	Resolution	
		0-20% FS	20-100% FS
025-0000-0475-00	0.3 in-lb	0.00002 in-lb	0.0002 in-lb
	3 g-mm	0.2 g-mm	2 g-mm
	34 N-mm	0.002 N-mm	0.02 N-mm
025-0000-0475-01	3 in-lb	0.0002 in-lb	0.002 in-lb
	35 g-mm	2 g-mm	20 g-mm
	339 N-mm	0.02 N-mm	0.2 N-mm
025-0000-0475-02	25 in-lb	0.002 in-lb	0.02 in-lb
	288 kg-mm	0.02 kg-mm	0.2 kg-mm
	2,825 N-mm	0.2 N-mm	2 N-mm
025-0000-0378-05	100 in-lb	0.005 in-lb	0.05 in-lb
	1,152 kg-mm	0.05 kg-mm	0.5 kg-mm
	11,299 N-mm	0.5 N-mm	5 N-mm
025-0000-0378-06	200 in-lb	0.01 in-lb	0.1 in-lb
	2,304 kg-mm	0.1 kg-mm	1 kg-mm
	22,597 N-mm	1 N-mm	10 N-mm
025-0000-0378-07	500 in-lb	0.05 in-lb	0.5 in-lb
	5,761 kg-mm	0.5 kg-mm	5 kg-mm
	56,493 N-mm	5 N-mm	50 N-mm
025-0000-0378-08	1,300 in-lb	0.1 in-lb	1 in-lb
	14,978 kg-mm	1 kg-mm	10 kg-mm
	146,883 N-m	10 N-mm	100 N-mm

Accuracy = \pm Resolution x 2

TST - Angle Specifications				
Range	Resolution		Accuracy (\pm)	Deflection Compensation (5% - 95% FS)
	100,000°	>100,000°		
1,000,000°	0.1°	1.0°	0.2° / 3,600°	< 0.2°



TST 200 Pictured



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