

# CST

# Coil Spring Tester

A low-cost alternative for **compression only** testing of high-capacity springs, the Coil Spring Tester has a 1,500 lb capacity and gets very accurate force and length results from its sturdy two-post frame and displays them on its backlit LCD screen. Although low in cost, the CST features a high degree of built-in precision and accuracy to assure excellent repeatability and reproducibility.

The CST has built-in deflection compensation with integrated force and length measurements, so the length reads accurately at any force. This eliminates the need to use lookup tables to correct for the displayed length error. The length reading is accurate as displayed on Larson Systems' Coil Spring Tester.

The Coil Spring Tester is made with a rugged two-post steel frame and equipped with a precision load cell for force, a glass scale for length and our proprietary precision electronics for analysis and display of exact measurements.

### Standard Features:

- Compression testing of force and length
- 17" standard compression range
- 4" standard stroke
- 750 lb and 1,500 lb load cell capacities
- Rigid, double column design
- Load cell and frame deflection compensation
- Backlit digital LCD display of force and length
- Tracking or peak modes (2,000 samples / sec)
- Wipe-clean embossed key faceplate
- Push button force zeroing
- Push button English or metric unit selection
- Built-in shunt calibration verification
- NIST traceable digital calibration & linearization

### Software Features:

- DHT software package.

### Connectivity Features:

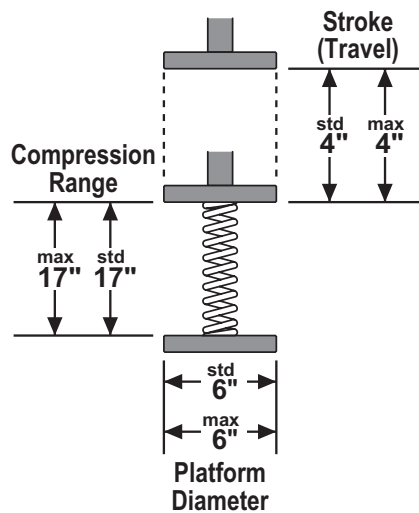
- Optional RS232 port for printing or data output

### Safety Features:

- Mechanical and software overload protection

### Optional Features:

- High resolution force option



### RS 232 Option

Add an RS 232 port to the back of the tester for printing or data output.



Coil Spring Tester - Force Specifications			
Part No.	Capacity	Standard Resolution	High Resolution*
050-0000-0118-00	750 lb	1 lb	0.5 lb
	340 kg	0.5 kg	0.2 kg
	3,336 N	5 N	2 N
050-0000-0119-00	1,500 lb	2 lb	1 lb
	680 kg	1 kg	0.5 kg
	6,672 N	10 N	5 N

Accuracy = ± Resolution x 2  
\*Requires 050-1000-0014-00

Coil Spring Tester - Length Specifications	
Resolution	Accuracy (±)
0.005 in	0.01 in
0.1 mm	0.2 mm



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