



SP Ultra High Accuracy Spring Tester

Loads: From 1.4 Kg to 113 Kg (3 to 250 Lb)

The SP Ultra High Accuracy Spring Test System provides extremely high accuracy in testing springs and other resilient materials. This bench-mounted tester features manual and fully automatic control of all test functions.

The micro-stepper motor drive, high precision ball screw actuator, and electronic compensation for load cell deformation provide very high accuracy and repeatability of the ram position.

High precision load cells are mounted on removable dovetail cartridges and provide high load accuracy along with flexibility in spring testing. The load cell cartridges are pin coded to automatically identify the load range to the Model 3700 Display Module. The cartridges are easily changeable by the operator.



Features

- High Precision Load Cells
- Load Cell Cartridge on Dovetail Slides for Quick Change
- Micro-stepper Motor Drive
- Manual or Automatic Test Mode
- Captures Loads for up to 8 Preset Heights
- Captures Heights for up to 8 Preset Loads
- Auto Spring Rate Computation
- Spring Classification
- Metric to English Conversion
- Model 3700 Display Module
- Win3700 Software

The SP Spring Tester is standard with the Model 3700 Display Module which also controls the micro-stepper motor for automatic or manual testing. An optional printer is also available.

Win3700 Software allows the system to be connected to a computer for test parameter storage and recall, data storage and export to third party spreadsheet and SPC programs.

For more information on the Ultra High Accuracy SP Tester, contact LINK at 734-453-0800 or sales@linkeng.com.

Disclaimer:

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Equipment pictured in this brochure may be shown with safety equipment removed or disabled for purposes of illustration. Equipment must never be operated with safety equipment removed or disabled. 290407

Single Source for Testing Equipment and Services Across America and Around the World

Link Engineering Company

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SP Typical Specifications

Load Cells (1 standard)	13 N (3 lb)
	33 N (7.5 lb)
	67 N (15 lb)
	111 N (25 lb)
	222 N (50 lb)
	445 N (100 lb)
	667 N (150 lb)
	113 kg (250 lb)
Load Accuracy	0.04 % Full Scale
Height Resolution	0.025 mm (0.0001 inch)
Height Accuracy	0.01 mm (0.0004 in)
Spring Height	102 mm (4 inches)
Spring Diameter	76 mm (3 inches) OD
Tester Power Requirement	120 VAC, 50/60 Hz
Display Module	95-250 VAC, 47-63 Hz

Options

- Additional Load Cells
- Custom Platens
- Custom Fixtures
- Printer
- Tablet Computer, Laptop, or PC



Model 3700 Display Module is used to collect and display spring tester data. The system consists of the display module, external power supply and cabling. An optional printer allows the module to automatically printout results as the load is released. An RS232 null-modem cable is included.

LINK's patented "Pass-Thru" feature provides a fast and accurate means of testing "on the run". The operator presets up to 8 loads load or 8 heights at which the spring is to be tested. As the spring is being compressed beyond each control point, the system captures and retains the corresponding height or load. "Pass-Thru" capability is available on the load apply or return stroke.

Spring rate can be automatically calculated and displayed by selecting any two, non-corresponding set points (height or load).

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