



SPRINGTEST I

Manual spring tester



Manual spring tester small capacity

The Springtest I is a very simple and economical system to control compression springs of small capacity. It includes a very accurate force gauge, a manual test stand, a digital ruler and a special compression plate for springs. The measuring head (force gauge with internal load cell using strain gauges) indicates the force applied, the ruler displays the deflection or the height under load. The

force gauge keeps in memory the peak value.

The bottom self levelling plate guarantees the parallelism of the plates.

System ready to measure. Supplied with a fixed plate diameter 50mm, a self-levelling plate and its certificate of calibration linked to COFRAC.

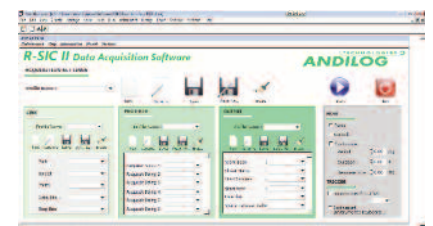
System includes :

- Force gauge with internal sensor up to 100N
- Manual test stand BAT750
- Digital ruler length 300mm

- Compression plate diameter 50mm
- Self-Levelling compression plate diameter 80mm
- Certificate of Calibration linked to NIST

Optional softwares

Caligraph software compatible : software for curve analysis with USB or RS232 download.



Models and capacities

SPECIFICATIONS	SPRINGTEST I-10	SPRINGTEST I-25	SPRINGTEST I-50	SPRINGTEST I-100
Capacity	0 - 10N	0 - 25N	0 - 50N	0 - 100N
Accuracy	0.01N	0.025N	0.05 N	0.1N
Force resolution	0.001N	0.002N	0.005N	0.01N
Travel	200 mm	200 mm	200 mm	120 mm
Travel resolution	0.01 mm	0.01 mm	0.01 mm	0.01 mm

Specifications

FEATURES	SPRINGTEST I	FEATURES	SPRINGTEST I
Accuracy	0,1 % FS	Memory	100 result
Resolution	1/10 000 FS	RS232 output	Current value, peak
Data rate	1 000 Hz	Backlight	√
Overload protection	200% FS	Digimatic output	√
Units	N, Lb, Kg, g, Oz	Analog output	√
Bargraph	√	Rechargeable battery	√
Peak in traction and compression	√	Low battery indicator	√
Display peak and current reading in the same time	√	Certificate of calibration included	√
Tare feature	√	Operation without recharging	8 hours
Adjustable auto-off	√	Use of a pedal	√
Programmable set points	√		
Reversible display	√		
Load cell protection	200 %		

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The system Springtest I is very easy to use and it is designed to perform your measurements quickly. It can also be used to control incoming goods in quality, production or laboratory. The quality and repeatability of the results are ensured through a specific design made by Com-Ten Industries:



Digital ruler

- The manual test stand does not deform when the load increase due to the double steel guide and a drive screw without clearance
- The drive screw allows very precise positioning with a stroke of 2mm per revolution
- The force gauge features one of the highest accuracy on the market: 0.1% of full scale with a sampling rate of 1,000 Hz
- The displacement transducer with digital display has a resolution of 0.01mm to ensure a repeatable and accurate compression
- The self levelling support ensures the parallelism with the compression plates during testing to avoid measurement error.
- Hooks can be supplied as an option for tensile springs.



Optional hooks



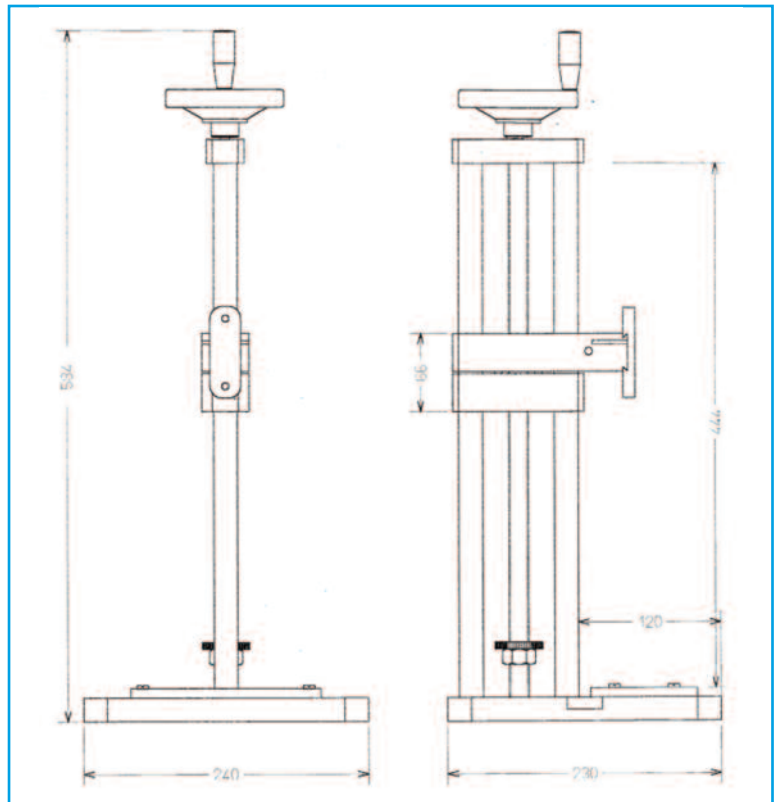
Self-levelling plate

How to measure a spring?

During the first use and periodically, it is necessary to adjust the parallelism between the compression plate and the self levelling plate. To do this, loosen of the self-levelling plate and go down with the compression plate to bring together the two plates. To ensure even greater accuracy and compensate for distortions in the system, it is recommended to apply a force between two plates equivalent to the force measured on your springs. Once this force is reached, lock the self levelling plate by tightening the screws. Then press zero on the displacement sensor.

You can then test all your springs. Simply place the spring on the Springtest I, then turn the handle to go down with the force gauge to have the desired height. Write then the value of the force or transfer this value to your computer.

Dimensions



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