



SPRINGTEST I

Spring tester

COM-TEN
INDUSTRIES



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 2 in, a self-levelling plate and its certificate of calibration linked to NIST.

System includes :

- Force gauge with internal sensor up to 20lb
- Manual test stand BAT750
- Digital ruler length 12 in

- Compression plate diameter 2 in
- Self-Levelling compression plate diameter 3 in
- Certificate of Calibration linked to NIST

Optionals softwares

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

RSIC software compatible : Download your results to Microsoft Excel



Models and capacities

SPECIFICATIONS	SPRINGTEST I-10	SPRINGTEST I-25	SPRINGTEST I-50	SPRINGTEST I-100
Capacity	0 - 2 lb	0 - 5 lb	0 - 10 lb	0 - 20 lb
Accuracy	0.002 lb	0.005 lb	0.01 lb	0.05 lb
Force resolution	0.0002 lb	0.0005 lb	0.001 lb	0.005
Travel	8 in	8 in	8 in	8 in
Travel resolution	0.001 in	0.001 in	0.001 in	0.001 in

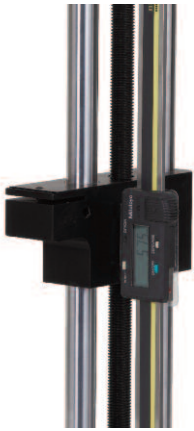
Specifications

FEATURES	SPRINGTEST I
Accuracy	0,1 % FS
Resolution	1/10 000 FS
Data rate	1 000 Hz
Overload protection	200% FS
Units	N, Lb, Kg, g, Oz
Bargraph	✓
Peak in traction and compression	✓
Display peak and current reading in the same time	✓
Tare feature	✓
Adjustable auto-off	✓
Programmable set points	✓
Reversible display	✓
Load cell protection	200 %

FEATURES	SPRINGTEST I
Memory	100 result
RS232 output	Current value, peak
Backlight	✓
Digimatic output	✓
Analog output	✓
Rechargeable battery	✓
Low battery indicator	✓
Certificate of calibration included	✓
Operation without recharging	8 hours
Use of a pedal	✓

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Digital ruler

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:

- 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 0.08in 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 0.001 in 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

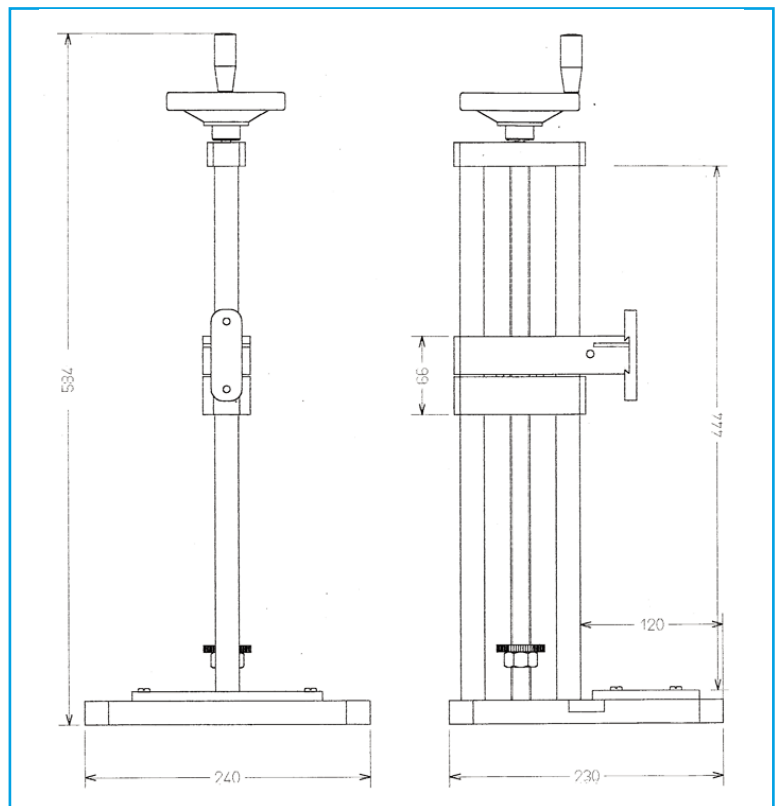


How to measure a spring?

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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Certified ISO
9001:2008

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