

SPRING ANALYSIS SYSTEMS

LST Series Fatigue Testers

- ❑ 6 channel digital load cycle reduction.
- ❑ Maximum combined loads up to 5000N (1124lbf) – 800N (180lbf) per channel.
- ❑ Standard compression spring OD's up to 55mm (2.16"). Optional 3 channel stations for OD's up to 100mm (4").
- ❑ Maximum adjustable compression spring free length up to 200mm (8").
- ❑ Maximum cycle rates up to 20Hz.
- ❑ Precise cycle count per channel and programmable to stop when one spring fails, all springs failed, or after a set time period.
- ❑ Precise cycle stroke and base heights can be set using integrated linear height gauges integrated into the PC control software.



Programmable

**Full Reporting
Module Available**



**On Line Cyclic
Force Results**

- ❑ Load amplitude data is recorded per cycle and cycle gaps for spring relaxation evaluation.
- ❑ Specialized fittings available for testing Compressor springs and tension springs.
- ❑ Ideal for unattended fatigue testing.



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SPECIFICATIONS

LST1200 LST1200-PC LST5000 LST5000-PC

Number of test stations	6	6	6	6
Maximum total load N (lbf)	1200 (270)	1200 (270)	5000 (1124)	5000 (1124)
Maximum load per channel N (lbf)	300 (68)	300 (68)	800 (180)	800 (180)
Maximum compression spring OD mm (in)	55 (2.16)	55 (2.16)	55 (2.16)	55 (2.16)
Maximum adjustable compression spring free length mm (in)	200 (8)	200 (8)	200 (8)	200 (8)
Maximum speed standard (Hz)[*]	10	10	10	10
Optional speed upgrade (Hz)[*]	20	20	20	20
Maximum stroke mm (in)	60 (2.36)	60 (2.36)	60 (2.36)	60 (2.36)
Fatigue cycle count and stop when count reached	√	√	√	√
Programmable stop when one spring, all springs fail, after time period		√		√
Programs per spring type stored for easy recall and setup		√		√
Stroke and base height shown on monitor		√		√
Fatigue loads recorded per cycle and gap cycles		√		√
Load recorded for relaxation evaluation		√		√
Optional tension spring attachments per spring type	√	√	√	√
Optional compressor spring attachment (max 30 springs with 15mm (0.6") maxOD, 50mm (2") max free length			√	√
Intel Dual core 2 PC, 17" LCD monitor, Windows XP Home or Vista Basic		√		√
L x B x H mm (in), excluding control cabinet	500x700x1800 20x28x71	500x700x1800 20x28x71	600x700x1800 24x28x71	600x700x1800 24x28x71
Weight kg (lb)	400 (880)	400 (880)	500 (1100)	500 (1100)
Supply	380V 3PH max 7A	380V 3PH max 7A	380V 3PH max 7A	380V 3PH max 7A
* Load and stroke derating applies				

Contact

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Specifications may change without notice