

CT-100

100N Capacity

C-Frame Compression/Extension Spring Tester

Servo Driven, PC Controlled

Connects externally to a PC via USB and/or Serial ports.



HS Model



Standard Model

Specifications

Load

- Load Capacity 100N (22.5lbf)
- Load Resolution 0.002N (0.00045lbf)
- Load Accuracy per ISO 7500 /1 Class 0.5 (0.5% of load, between 0.5% capacity up to full capacity)
- Continuous digital display or Force/Load height graphical analysis tools and display
- Safe overload to 150% of FS (compression and tension overload protection at 100% of FS load)

Stroke

- Stroke 200mm (8") Standard
- 500mm (20") Optional for Standard Model
-500mm (20") HS Model
-1000mm(40") Optional for HS Model
- Resolution: 0.003mm (0.0002") for 200 stroke, - Standard Model
- Resolution: 0.008mm (0.0005") for 500mm stroke –Optional for Standard Model
- Resolution: 0.00025mm (0.0000098") for 500mm and 1000mm stroke –HS Model
- Accuracy: $\pm 0.02\text{mm}$ ($\pm 0.0008\text{"}$) for 200 stroke on standard model , Accuracy: $\pm 0.04\text{mm}$ ($\pm 0.0015\text{"}$) for 500mm standard model optional stroke. Absolute display of load height above a user defined fixed reference.
- Accuracy: $\pm 0.01\text{mm}$ ($\pm 0.00039\text{"}$) for 500 and 1000mmstroke for HS Model, Accuracy: better than 0.005mm– Available with independent Calibration for HS Model

Platten

- 55mm (2.2")

Diameter

Free Length

- Automatically determined
- Conductive contact Frelength module optional with HS model

Spring rate

- Automatic or manual determination of spring rate (linear analysis), option for characterization of non-linear rates (e.g. conical springs)

Initial tension

- Automatic detection of tension spring initial tension.

Computer

- Intel dual Core (minimum) processor
- Serial or USB connection to PC for control and data transfer
- Laptop optional.
- Fully Microsoft Windows Win7 and Win 10 compatible

Display 17"
Monitor with
PC option.

Languages

- English, German, French, Russian, and Turkish

Software Features

- Programmable for automated testing, Includes frelength, initial tension and spring rate results. Solid Height detection included.
- Full reporting and printing capability available.
- On-Line and off-line SPC control charts and Cpk capability testing available.
- Design and reverse engineering algorithms
- Smart self calibration routines
- Fatigue module available with HS Model
- N, kgf, gf, ozf, lbf – mm, inches

Units

Test speeds

- 1.5mm/s – 15mm/s (3.5"/min – 35.5"/min)
- 4 distinct speed settings available Standard Model
- 0.1mm/s – 125mm/s (0.236"/min-295.3"/min) HS Model
- 12 distinct speed settings available HS Model

Dimensions

LXBXH

- | | |
|---|---|
| <input type="checkbox"/> Standard Model | <input type="checkbox"/> HS Model |
| <input type="checkbox"/> 25 x 50 x 60 cm | <input type="checkbox"/> 25 x 50 x 95 cm |
| <input type="checkbox"/> (10" x 20" x 23.6") | <input type="checkbox"/> (10" x 20" x 37.4") |
| <input type="checkbox"/> Weight 25 kg (55lbf) | <input type="checkbox"/> Weight 40 kg (88lbf) |

Power

- 110V~220V AC 4A (Maximum)



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