# CT-10

**10N 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 10N (2.25lbf)
- Load Resolution 0.0002N (000045lbf)
- 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: ±0.02mm (±0.0008") for 200 stroke on standard model , Accuracy: ±0.04mm (±0.0015") for 500mm standard model optional stroke. Absolute display of load height above a user defined fixed reference.
- Accuracy: ±0.01mm (±0.00039") for 500 stroke for HS Model, Accuracy: better than 0.005mm– Available with independent Calibration for HS Model

**Platten Diameter**
- 55mm (2.2")

**Free Length**
- Automatically determined.
- Conductive contact Freelength module optional for HS Model only

**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 freelength, 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

**Units**
- N,  kgf, gf, ozf, lbf – mm, inches

**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**

| Standard Model | HS Model |
|---|---|
| 25 x 50 x 60 cm | 25 x 50 x 95 cm |
| (10" x 20" x 23.6") | (10" x 20" x 37.4") |
| Weight 25 kg (55lbf) | Weight 40 kg (88lbf) |

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

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Specifications may change without notice