

# CT-100



**HR Model**



**Standard Model**

## Specifications

### Load

- Load Capacity 100N (22.5lbf)
- Load Resolution 0.002N (0.00045lbf)
- Load Accuracy at 0.5% of Range  $\pm 0.0025N$  ( $\pm 0.000561lbf$ )
- 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 (16") Optional for Standard Model
- .....500mm (16") HR 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 stroke –HR Model
- Accuracy:  $\pm 0.02mm$  ( $\pm 0.0008$ ") for 200 stroke on standard model , Accuracy:  $\pm 0.04mm$  ( $\pm 0.0015$ ") for 500mm standard model optional stroke. Absolute display of load height above a user defined fixed reference.
- Accuracy:  $\pm 0.01mm$  ( $\pm 0.00039$ ") for 500 stroke for HR Model, Accuracy: better than 0.005mm– Available with independent Calibration for HR Model

### Platten

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- 55mm (2.2")

### Diameter

### Free Length

### Spring rate

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

### Initial tension

### Computer

- Automatic detection of tension spring initial tension.
  - 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
- Programmable for automated testing, Includes frelength, initial tension and spring rate results. Solid Height detection included.

### Software Features

- 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 HR 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) HR Model
- 12 distinct speed settings available HR Model

### Dimensions

### LXBXH

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

### Power

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



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