

# TC-Series

**Torsion / Compression Spring Tester**  
**2000N Force Capacity, 5NM Torque Capacity**  
**Servo Driven, PC Controlled**

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



TxxxCyyyy Torsion / Compression Spring Tester

## TxxxCyyyy Torsion / Compression Spring Tester

### **xxx---Torque Capacity.**

Available Options:      0.5NM(0.442lbf.in)  
                                 2NM(18.8lbf.in)  
                                 5NM(4.42lbf.in)

### **yyyy---Force Capacity.**

Available Options:      100N(22.2lbf)  
                                 200N(45lbf)  
                                 500N(112lbf)  
                                 2000N(450lbf)

# Specifications

## Load

- Load Capacity up to 2000N (450.0lbf)
- Available Load Capacities

Load Cell Type	Load Capacity		Load Resolution		Load Accuracy	
	N	Lbf	N	Lbf	±N	±lbf
100	100	22.5	0.002	0.00045	ISO 7500 /1 Class 0.5 (0.5% of load, between 0.5% capacity up to full capacity)	
200	200	45	0.004	0.0009		
500	500	112	0.01	0.0022		
2000	2000	450	0.04	0.009		

- 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

- 500mm (20") HS Model
- Resolution: 0.00025mm (0.0000098")
- Accuracy: ±0.01mm (±0.00039"), Accuracy: better than 0.005mm– Available with independent Calibration

## Torque

- Torque Capacity up to 5NM (44.25lbf.in)
- Available Torque Capacities

Torque Cell Type	Torque Capacity		Torque Resolution		Torque Accuracy at 1% of Range	
	NM	Lbf.in	NM	Lbf.in	±NM	±lbf.in
5	5	44.25	0.0001	0.000875	0.0005	0.004425
2	2	17.7	0.00004	0.00035	0.0002	0.00177
0.500	0.500	4.425	0.00001	0.000088	0.00005	0.000443
0.010	0.01	0.088	0.000002	0.000002	0.000005	0.000048

## Computer

- Intel dual Core (minimum) processor
- Serial or USB connection to PC for control and data transfer
- Laptop optional.
- Fully Microsoft Windows Win10 and Win 11 compatible

Display 23"  
Monitor with  
PC option.

## Languages Software Features

- English, German, French, Russian, and Turkish
- Programmable for automated testing, a combination of linear and torsion variables
- Full reporting and printing capability available.
- On-Line and off-line SPC control charts and Cpk capability testing available.
- Smart self calibration routines

## Units

- N, kgf, gf, ozf, lbf – mm, inches.
- Nm, Nmm, kgf-m, gf-mm, kgf-cm, ozf-in, lbf-in and angles in degrees or revolutions

## Test speeds

- 0.1mm/s – 125mm/s (0.236"/min-295.3"/min)
- 12 distinct linear and rotational speed settings available
- Rotational Speed:0 – 300 RPM,

## Dimensions LXBXH Power

- 32 x 58 x 105 cm
- (12.6" x 23" x 41.4")
- Weight 45 kg (99lbf)
- 110V~220V AC 6A (Maximum)



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