

# Spring Tension Tester



## Contact us

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## Feature and Application

### Product Feature

- Liquid crystal display, better human-machine interface.
- High precision and high resolution
- Three measurement units (N, kg, lb) can be selected and converted to each other.
- The user can set the acceleration of gravity at the place of use to make the test and unit conversion more accurate.
- Stores 99 sets of test data, which can be viewed and deleted directly on the machine. Real-time, Peak and Auto Peak modes can be switched at will.
- With customer setting function, the upper and lower limits are set freely (corresponding to the sound and light alarm), the stored value, the hold value, the automatic peak value, the storage time, the no-operation automatic shutdown time, etc., are set freely.
- Print the stored test data and the maximum value, minimum value, average value, to do pass or fail judgement (only with a printer)
- Communication adopts MODBUS-RTU standard protocol and USB interface for better connection with configuration and PLC.





### Product Application

- It is mainly used for spring performance testing, meeting the tension spring, compression spring, disk spring, spring, leaf spring, spring, composite spring, gas spring, die springs, special-shaped springs, wave spring, shrapnel, heterosexual spring, diaphragm spring, damping spring, coil spring and other precision spring's tension, stress, displacement, stiffness and strength test and analysis.

# Technical Specification

<b>Name</b>	/	/	/	/	/	/	/	/	/
<b>Max Test Force</b>	10N	20N	30N	50N	100N	200N	500N	1000N	2000N
<b>Accuracy Class</b>	Class 1								
<b>Test Force Resolution(N)</b>	0.001							0.1	
<b>Platen Diameter(mm)</b>	34			49				108	
<b>Displacement Scale Travel (mm)</b>	60			90				150	
<b>Displacement Scale Divisions</b>	0.01mm								
<b>Testing Force Measuring Range</b>	1~100%F.S								
<b>Distortion Value Error</b>	$\leq \pm(50+0.15L)\mu\text{m}$								
<b>Displacement Resolution</b>	0.01mm								
<b>Compression Stroke(mm)</b>	80			150				200	
<b>Pressure Pate Diameter(mm)</b>	$\Phi 34$			$\Phi 49$				$\Phi 108$	
<b>Test Force Indication Relative Error</b>	$\leq \pm 1\%$								
<b>Power</b>	220V/50Hz, 20W(With Printer),13W(Without printer)								
<b>Operating Temperature</b>	$20\pm 10^{\circ}\text{C}$								
<b>Storage Temperature</b>	$-27^{\circ}\text{C}\sim +70^{\circ}\text{C}$								
<b>Relative Humidity</b>	15%~80%RH								

## Standard Delivery

Name	Qty	Photo
Main Unit	1set	
Power Cord(European Standard optional)	1pc	/
Hexagon socket head cap screw:M6*14 M4*10	2pcs ea.	/
Hexagonal spanner:4/6	1pc ea.	/
Gantry Handle bar (with handle ball)	1set	/
Button Battery	1pc	/
Trimming device (full thread) /Medium range hook set	1set ea.	/
Printer(Optional)	1pc	/
Communication Data Cable-USB-USB	1pc	/
Compact Disc	1pc	/
Desiccant	1pc	/
Instruction Manual	1copy	
Product Certificate/ Warranty Card	each 1copy	