

# TLS-S-I Series Dual Digital Display Spring Tension & Compression Testing Machine

## Main Features:

TLS-S I series of spring tension & compression testing machine adopts integrated circuit and micro-computer to test the 2 parameters of displacement and load and to digitally display their values, as well as printing out the testing results.

Hand loaded, the machine can pre-set the upper & lower limit load of 4 test points and auto judge the qualification of the 4 test points. It can also auto-revise displacement of load cell.

Generally, the machine has functions of peak value holding, overload protection, zero clearing at any test point, stiffness calculation, data retrieval, etc. It is suitable for testing of various precision extension and compression springs and intensity measuring of brittle materials.



○ TLS-S11, 2I, 5I, 10I, 20I



TLS-S5000I ○



TLS-S100I, 200I,  
500I, 1000I, 2000I ○

## Main Technical Specifications:

Specification	TLS-S1I	TLS-S2I	TLS-S5I	TLS-S10I	TLS-S20I	TLS-S50I	TLS-S100I	TLS-S200I	TLS-S500I	TLS-S1000I	TLS-S2000I	TLS-S5000I	TLS-S10000I	TLS-S20000I	
Max. test load (N)	1	2	5	10	20	50	100	200	500	1000	2000	5000	10000	20000	
Min. test load read (N)	0.001						0.01			0.1			1		
Test load available in	4%-100%														
Resolution of the ruler (mm)	0.01														
Max. distance between tension hooks (mm)	110		90		240			270			650		1000		
Max. distance between compression plate (mm)	70		70		220			250			650		1000		
Diameter of comp-ression plates (mm)	30		48		60			110			130		200		
Max stroke (mm)	70		70		70			100			650		1000		
Testing speed (mm/min)	Manual											600		300	
Hand wheel feeding (mm)												0.428		0.2	
Classification of machine	Class 1														
Machine dimension (mm)	Load frame 180• 275• 500					525• 800• 635			810• 585• 950			600• 400		740• 575• 1600	
	Digital display box 280• 275• 500											• 1600			
Net weight (kG)	20					30			85			200		400	
Power supply	220V AC 50Hz 1ph											380V AC 50Hz 3ph			