

TNS-S-I Series

SPRING TORSION TESTING MACHINE



Features

- Torque and torsion angle are both digitally displayed
- Torque is tested in 2 grades (100% and 20%), which expanded the measuring range
- Motorized and manually loading, easy to operate
- Preset the torsion angle and times, and it will automatically perform continuous twisting and eliminate the residual strain
- All the testing process is automatic: Preset the known parameters of 5 points, and the other process will be automatically .
- Conducted: auto speed adjustment, auto data collection, auto return, auto stiffness calculation and test report print.
- Able to test permanent torsion deformation.

Applications

This series is mainly used for torsion test of all kinds of torsion springs.

Technical Specification

Model	TNS 100I	TNS 200I	TNS S500I	TNS S1000I	TNS S2000I	TNS S5000I	TNS S10000I	TNS S20000I	TNS S50000I	TNS S100000I	TNS S200000I
Max. torque (N. mm)	100	200	500	1000	2000	5000	10000	20000	50000	100000	200000
Resolution	0.01	0.01	0.01	0.1	0.1	0.1	1	1	1	5	5
Max. torsion angle (°)	9999.9										
Min. reading of torsion angle (°)	0.1										
Accuracy	+/-0.5%										
Max. distance between 2 torsion plates	≤70mm		≤160mm				≤260mm				
Loading	Auto loading (motor, high accuracy boll bear screw column, overloading protection, limited switch)										
Machine size	800x500x400								900x500x600		
Net weight	70kgs								180kgs		
Measuring scope	4%-100% of full scales										
Speed	0.01-10rpm/min										
Diameter of plate	100mm										
Power supply	AC, 220V 50Hz										