TNS-S Series

SPRING TORSION
TESTING MACHINE

Features

● The tester consists of torsion transducer, photoelectric encoder, measurement amplifying circuit and single chip processor. The torsion angle and torque are digitally displayed.
● It can pre-set the upper and lower limits of torques for 4 points and automatically check whether four test points are qualified.
● Automatically revise the angle displacement of torsion transducer.
● Functions of peak value holding, overload protection, torque stiffness calculation and data retrieval, etc.

Applications

TNS series testing machine is mainly used for testing the torsion angle and torque of various torsion springs, coil springs, elastic components and other friction structures.

Technical Specification

Model	TNS S50	TNS S100	TNS S200	TNS S500	TNS S1000	TNS S2000	TNS S5000	TNS S10000	TNS S20000	TNS S50000	TNS S100000	TNS S200000
Max. torque (N.mm)	50	100	200	500	1000	2000	5000	10000	20000	50000	100000	200000
Resolution (N.mm)	0.01	0.01	0.01	0.01	0.1	0.1	0.1	1	1	1	10	10
Max. torsion angle (°)	9999.9											
Min. reading of torsion angle (°)	0.1											
Accuracy	+/-1%											
Max. distance between 2 torsion plates	≤70mm			≤160mm			≤260mm					
Loading	Manual											
Machine size	600x500x400								900x500x600			
Net weight	50kgs								180kgs			
Measuring scope	10-100% of full scales											
Diameter of plate	100mm											
Power supply	AC, 220V 50Hz											