

Model NJS-100 Motorized Type Digital Display Torsion Testing Machine



Applications:

NJS Series Digital Display Auto Torsion Testing Machine is designed and built for torsion test on metal materials, as well as parts & components. NJS adopts AC servo system, it is loaded through the rotation of the active cartridge driven by the AC servo motor and cyclonical pinwheel reducer motor. The torque and torsion angle are measured respectively by the high-precision torque transducer & photoelectric encoder. It is an essential instrument to inspect torsion properties of materials in mechanics laboratories of aviation industry, construction industry, scientific research department, universities & industrial enterprises.

Features:

- Automatic operation with only one key touch to finish the test, high accurate torque load cell & photoelectric encoder to measure the torque and torsion angle with features of simpler structure, ease of operation etc.
- LCD monitors to show the test results in real time like: torque, maximum torque, torsion strength, angle etc.
- Micro-printer inbuilt for test result print-out;

Standards:

This series of testing machines confirm to standards of ISO 18338, GB10128 and others equivalent.

Main Technical Specifications:

Items	Specifications
Max. test torque (N.m)	100 Nm
Relative error of torque display	$\leq \pm 1.0\%$
Measuring range of torque	2%-100%F.S.
Max. reading of torsion angle(°)	9999.9
Torsion speed(°/min)	1-720
Resolution of reading of torsion angle(°)	0.1

Relative error of torsion angle indications	$\leq \pm 1.0\%$
Effective working space	0-260mm
Power supply	AC 220V \pm 10%, 50Hz
Noise	$\leq 65\text{dB}$
Overall Dimension(mm)	950x330x1200
Weight(kg)	125

Clamping fixture and samples:



Controller:

- LCD screen: Display torque, peak value, menus and so on.
- Keyboard: to set, adjust and control the torsion test

