

TMA-NDW-200N.m

Material Torsion Testing Machine

1. Brief Information

- Mainly used in torsion test at room temperature for torsional force, torsion angle and angle stiffness for various materials.
- Used for torque, torsion angle, angle stiffness test for metals and nonmetals.



2. Features

- Ergonomic design, suitable for operation, in line with the man-machine-environment system, efficient, healthy, comfortable and safe.
 - Horizontal, high rigidity, high stability, no vibration impact streamlined load frame, 1.2 ~ 1.5 times the test stiffness.
 - High precision symmetrical torque sensor, linear width, good stability, to ensure the accuracy of torque load test.
 - High speed, low vibration, maintenance-free, silent AC servo motor drive system.
 - Automatically calculate the maximum torque, torsional strength, etc.
 - Automatic tracking and measurement of torque and torsion angle, real-time display of test curve, torque value, torsion angle, torsion speed.
 - Process reproduction and data reanalysis, curve amplification, comparison traversal, curve
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can be freely enlarged and reduced.

- Multiple curves are displayed at the same time (Torque-Time curve, Torque-Angle curve, Angle-Time curve, etc.), coordinates are self-set, full degree self-adjustment.
- Multiple protection functions: overload protection of test force; Over-current and over-voltage protection; Safety protection when the sample is broken; Operation prompt wizard protection; Automatic protection after the test.

3. Technical Specification

Mode	TMA-NDW-200N.m
Max. torque	200N.m
Accuracy class	Class 1
Measuring range of torque	2%-100% F.S
Relative error of indicating value of torque	Within $\pm 1\%$ of indicating value
Resolution of torque	1/200000 of max. torque
Measuring range of torsion angle	0-9999°
Relative error of indicating value of torsion angle	Within $\pm 1\%$ of indicating value
Min. resolution of torsion angle	0.01 °
Torsion speed	0-30rpm
Relative error of torsion speed	Within $\pm 1\%$ of setting value
Max. distance between two chucks	0-500mm
Coaxiality of two grips	$\leq \Phi 0.2\text{mm}$
Central height of main shaft	170mm
Working voltage	240volts, Single phase, 50 HZ
Motor	1500W
Dimension of loading machine (W*D*H)	1700*470*1100mm