



TORONTECH

COMPUTER - CONTROLLED TORSION TESTING MACHINE TORONTT™ -500



Computer - Controlled Torsion Testing Machine ToronTT™-500 is a high-precision torsion testing system with a servo motor drive, advanced control software, and built-in safety features. It ensures stable, efficient, and accurate torque measurement for various materials, delivering comprehensive test reports instantly.

APPLICATIONS

Standards

ASTM A938-2004 □ Metal Wire Torsion Test Standard Test Method □

Inspection standard: JJG269-2006 "Torsion Testing Machine"

Test method: GB/T10128-2007 "Metal Room Temperature Torsion Test Method"

Usage

This machine is used for metal, non-metallic, composite materials and components torsion performance test.

FEATURES

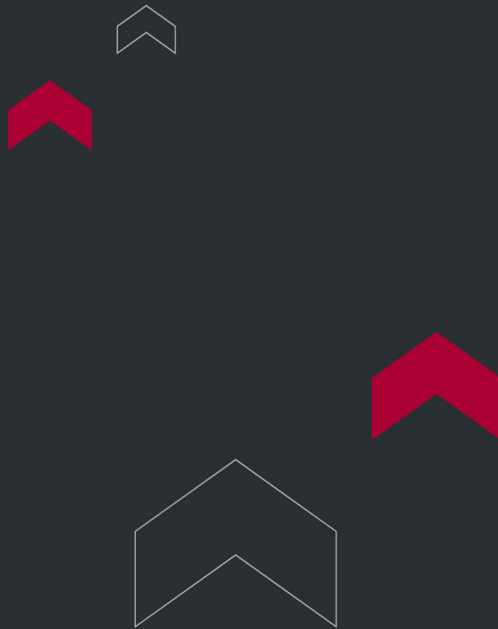
1. Servo motor drive ensures consistent reverse speed.
2. Cycloidal reducer drive provides high efficiency and stability.
3. The electrical control system offers exceptional stability, reliable operation, fast response, and low noise. Parameters adjust based on different models to optimize performance.
4. Built-in safety features include overload protection and emergency stop functions.

5. Test software, designed for the English Windows platform, offers robust data and graphics processing capabilities, generating complete test reports and curves instantly.
6. Features include automatic torque tracking, torsion angle measurement, load rate indication, and peak hold.
7. Test data is automatically processed, displayed, and printed, including test date, number, material properties, rotation direction, strength, and other key details.
8. High-precision linear guides ensure accurate coaxiality and parallel alignment.

TECHNICAL SPECIFICATIONS

Max. torque (N.m)	500
Measuring range of torque	2%-100%FS
Accuracy class	1 class
Relative error of indicating value of torque	$\pm 1\%$
Resolution of torque	1/300000 of max. torque
Measuring range of torsion angle	0°-9999°
Relative error of indicating value of torsion angle	$\pm 1\%$
Resolution of torsion meter torsion angle	0.01°
Torsion speed	3.6-1080°/min
Relative error of torsion speed	Within $\pm 1.0\%$ of setting value
Max. distance between two collets (mm)	500
Sample test parallel end diameter	$\Phi 6 \sim \Phi 15\text{mm}$
Sample clamping end diameter	$\Phi 20$

Voltage (V)	220V 50Hz (110V is also available)
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