



TORONTECH

COMPUTER - CONTROLLED TORSION TESTING MACHINE TORONTT™ -6000



Computer - Controlled Torsion Testing Machine ToronTT™-6000 is a high-precision torsion testing system designed for accuracy, stability, and efficiency. Equipped with advanced servo motor control, real-time data processing, and comprehensive safety features, it ensures reliable performance for various testing applications.

APPLICATIONS

Standards

ASTM A938-2004 □ Metal Wire Torsion Test Standard 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 enhances efficiency and stability.
3. The electrical control system offers high stability, smooth operation, fast response, and low noise. Parameters can be adjusted for different models to optimize performance.
4. Features overload protection, emergency stop, and other safety functions.
5. Test software on an English Windows platform provides advanced data and graphics processing, with instant test reports and curves.
6. Includes torque value tracking, automatic torsion angle measurement, loading rate display, peak hold, and more.
7. Automatically processes, displays, and prints test data, including test date, sample number, material properties, direction, strength, and other details.

8. High-precision linear guides ensure proper coaxiality and parallel alignment.

TECHNICAL SPECIFICATIONS

Max. torque (N.m)	6000
Measuring range of torque	2%-100%FS
Accuracy class	1 class
Relative error of indicating value of torque	±1%
Resolution of torque	1/300000 of max. torque
Measuring range of torsion angle	0°-9999°
Relative error of indicating value of torsion angle	±1%
Resolution of torsion meter torsion angle	0.01°
Torsion speed	3.6-1080°/min
Relative error of torsion speed	Within ±1.0% of setting value
Max. distance between two collets (mm)	500
Diameter of sample	φ8~ φ37mm
Voltage (V)	380V 50Hz



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