

Digital Torsion Spring Tester for Quality Control

This intelligent instrument accurately measures the torsional properties of springs. It features a digital display, adjustable fixtures, and manual handwheel control for precise testing in laboratory and industrial settings.



Overview

Precision Torsion Testing

This Digital Torsion Spring Tester is a high-precision instrument engineered for rigorous quality control and R&D applications. It features advanced sensors and high-resolution encoders to accurately measure torque, rotation angle, and spring stiffness simultaneously. Designed for industrial reliability, the system supports real-time data analysis, peak holding, and USB-based PC connectivity for comprehensive reporting.

Technical Specifications

Angle Resolution	0.1 °
Torque Dish Diameter	100 mm
Max Tested Spring Height	80 mm
Max Torsional Read Value	9999.9 °

Measurement Capabilities

Supported Units

N·m • kgf·cm • lb·in

Measured Parameters

- Torque Value
- Rotating Angle
- Spring Stiffness

Measurement Modes

Realtime, Peak, Automatic Peak

Features & Connectivity

Smart Features

- Upper/Lower limit alarm (visual and buzzer)
- Peak holding with auto-remove function
- Automatic shutdown with adjustable timer

Storage Capacity

99

PC Connectivity

USB interface for synchronous testing, data export, and analysis