

Cable 3D Torsion Tester

This cable torsion tester is designed for comprehensive evaluation of cable torsion resistance. It accurately measures the torsional strength and behavior of cables under three-dimensional stress conditions, providing critical data for quality control and product development.



ADDITIONAL IMAGES



Product Overview

Comprehensive 3D Cable Torsion Testing

The Cable 3D Torsion Tester is a high-precision testing system designed for synchronous torsion-bending combined stress evaluation. Engineered for international standards such as TUV, VDE, and UL, it enables manufacturers to verify the durability of high-flexible cables and metal wires under repetitive physical deformation. Featuring an automated, unattended shutdown mechanism and advanced PLC control, this machine ensures reliable quality supervision for wire, rope, and cable production environments.

Test Performance

Key Operational Metrics

60 times/min

Max Test Speed

360 degrees

Torsion Angle

18 pairs

Max Wire Monitoring

Technical Specifications

Testing Parameters

Parameter	Specification
Sample diameter	1.0-30mm
Bending angle	±12°
Torsion angle	±360°
Bending/Torsion gap	100-300mm
Counter range	0-99999999

Electrical Requirements

220V, 50 / 60Hz, 10A

Standards & Compliance

Compliance Certification

TUV, VDE, UL

Key Features

Automation Capabilities

- Automated circuit monitoring
- Automatic shutdown upon wire break
- Synchronous or independent torsion-bending control
- Multi-channel resistance monitor integration

System Configuration

Core Components

System	Component
Control	PLC Controller & Color Touch Screen
Drive	Panasonic Servo Motor & Driver
Transmission	Planetary Reducer & Synchronous Belt
Structure	45# Steel & Aluminum Alloy Fixtures