

Mitech MDW-N series of Electronic Torsion Testing Machine

Overview

Mitech MDW-N series of electronic torsion testing machine, computer control test machine speed, for metal materials, non-metallic materials and various components (such as drive shaft, semi-shaft, etc.) for static mechanical properties of the test, its performance is stable, Simple, robust construction, simple structure, high efficiency. Widely used in metal processing manufacturing quality control links, institutions of higher learning scientific research materials testing, quality inspection department quality inspection links, etc.,it is to improve production efficiency and save production costs essential professional precision testing equipment.

Technical Parameters

Technical Parameters	MDW-N20	MDW-N50	MDW-N100	MDW-N200	MDW-N500	MDW-N1000	MDW-N2000	MDW-N5000
Maximum torque (N.m)	20	50	100	200	500	1000	2000	5000
Torque resolution	0.01N.m							
Torsion angle measurement range	0-99999°							
Chuck between the mobile distance	0-300mm (can be customized)							
Loading speed	0.002-2r / min (can be customized)							
Loading method	Manual / Electric optional							
Control method	Computer automatically or microcontroller digital display							

Working Principle

Torsion testing machine measured by the sensor force generated by the signal into the measurement amplifier into the A / D converter into a digital signal is accepted by the computer system, the digital processing, the computer system to deal with the operation of the A / D Converter to the signal through the LCD screen display data.

Features

- Widely used in static mechanical properties test of metal materials, non-metallic materials and various components (such as drive shaft, semi-shaft, etc.)
- Novel shape, strong structure, accurate control, balanced operation, easy operation;
- Photoelectric encoder for test data acquisition, measurement accuracy;
- Microcomputer or single-chip control, high efficiency, especially suitable for continuous testing;
- Digital display test results, intuitive readings, test efficiency;
- Reverse rate, reverse any number of turns, stepless frequency control;
- Comply with GB, ISO, ASTM and other relevant standards at home and abroad.

Scope of Applications

- Widely used in metal materials, non-metallic materials and various components (such as drive shaft, semi-shaft, etc.) for static mechanical properties test.

Applications

- Metal processing manufacturing quality control links

- Scientific research teaching experiment in colleges and universities
- Materials research and testing institutes
- Quality inspection departments of quality testing

Working conditions

- Working temperature: room temperature ~ 45 °C;
- Relative humidity: 20% ~ 80%;
- No vibration around, no corrosive media, no strong magnetic interference;
- Horizontal installation on a solid basis;
- Power supply voltage fluctuations do not exceed 10% of the rated voltage.

Configuration

	No.	Item	Quantity	Note
Standard Configuration	1	Testing machine host	1	
	2	Control system	1	
	3	Jaws	1	
	4	Attached fiels	1	

Maintenance and care

- Before using this instrument, please read the instruction manual carefully, understand the operation steps and precautions, avoid the damage caused by improper operation or personal safety accident;
- Test machine is a large precision instruments, should pay attention to water, moisture. Exposed workstations, upper and lower beam parts and attached parts should be coated with anti-rust oil to prevent rust;
- If idle for a long time, ,test at least once a week to prevent rusting;
- Don't disassemble the instrument without authorization, maintenance related matter, please contact MITECH after-sale service department with 4000600280.