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Automatic Shaft Torque Durability Testing Machine TX-531-China Manufacturer



Product Introduction

Computer automatic shaft torque endurance testing machine can test the torque decay of the shaft after the upper cover of the notebook is opened and closed for many times, and can measure the torque value of the shaft each time and record the curve change and draw the torque attenuation life curve, improving the inconvenience of the current torque that must be disassembled after the shaft can be measured.

Using Windows window screen settings, the operation is simple and convenient, and all data can be stored (test conditions, torque-angle curves, life curves, inspection reports...). etc.)

This machine is suitable for screws, torsion springs, hinges, shafts, shells, fasteners, wiring harnesses and other products torque and service life and other tests and other tests, through the analysis of industrial computer, can accurately measure the torque and rotation angle of the object to be measured and the moment and speed corresponding to the change curve, and can accurately control the screw torque test rotation angle, rotation speed, target measurement times and pause time. In addition, the machine uses servo motor and Windows window control system, which is simple and convenient to operate, and all data can be stored, which is definitely a reliable high-performance mechanical testing instrument.

Features

- ◆ Print and store graphics (torque-angle plots, torque attenuation plots, inspection reports)
- ◆ Test data storage and hard disk (each data can be saved an unlimited number of times)
- ◆ The test conditions are all set by the computer screen (including opening angle, speed, number of times, pause time...). etc.)
- ◆ The contents of the inspection report header can be modified at any time (both Chinese and English)
- ◆ Check reports can be transferred to Excel for editing
- ◆ Record each torque-angle plot
- ◆Both the torque-angle curve and the torque attenuation curve are displayed

- ◆ The test position of the notebook can be adjusted by itself
- ◆Unilateral or bilateral force can be applied

The machine can simulate whether the rotor still has a holding force after the laptop is opened and closed multiple times, or the Shaft resistance becomes larger and damages the plastic body

System composition

1. Rack:

- **a. Drive:**It adopts Japanese Mitsubishi servo motor drive, high precision positioning accuracy, strong torque, can be used for a long time
- **b. Transmission:** using Japanese synchronous belt double-arm transmission, high efficiency, stable operation, low noise, to ensure that both sides do not shake
- c. Guide: using Japanese THK precision slide rail as shaft swing guide, low friction, stable and durable
- **d. Table:** the height and bottom of the working fixed platform are adjustable to ensure that the hinge and the rocker arm are concentric

2. Control:

- **a. Man-machine interface:** It adopts color LCD touch control screen to display: set angle, current angle, running speed, set times, tested times, dwell time and other test parameters/data;
- b.PLC: Using Japanese Mitsubishi PLC, high reliability and durability to use
- c. Angle: Japan LINE photoelectric encoder for angle measurement, high precision
- d. The rotation angle, speed, number of tests and height of the test stand can be set

Technical Specifications

Model	TX-531	
Maximum Test Torque	50Kgf.cm	
Minimum Display	0.01Kgf.cm	
Torque		
Test Angle Range	0-180 degrees	
Minimum Display Angle	0.5 degrees	
Test Speed Range	0-200rmp/min	
Drive Motor	Servo motor	
Exterior Dimensions	1100*760*550m	
Machine Weight	130Kg	
Use a Power Source	AC220V 50Hz 10A	
Standard Accessories	4pcs	Pivot base fixing fixture