

HST-TNP2 Computer Controlled Spring Torsion Fatigue Testing Machine



Pictures just for reference

1. Application:

This microcomputer-controlled spring torsional fatigue testing machine is mainly used for torsional life testing of various torsion springs, scroll springs and spring assemblies. It can also be used for torsional performance testing of other elastic components and friction mechanisms. The tested specimen is installed between the fixtures with adjustable space, which can be adapted to the test of different torsional fatigue mechanical properties of the tested specimen. The test bench adopts computer control operation and can collect data such as torque, peak value, angle, amplitude\number\frequency\fatigue curve; the display shows the life fatigue test curve\torque-time curve of the tested part; it can realize test data storage, Obtain and print test reports, etc.

This spring torsional fatigue testing machine is mainly used in spring manufacturers, electrical appliance manufacturers, power machinery factories, colleges and universities and related scientific research institutions.

It can automatically complete the entire cycle test environment of the spring, and can also independently measure the torsional amplitude and torsional frequency of the spring. The user can adjust the test program according to actual needs during use.

2. Standard:

2.1. JB/T9370-2015 "Technical Conditions for Torsion Testing Machine"

2.2. GB2611-2007 "General Technical Requirements for Testing Machines"

2.3. JJG269-2006 "Verification Regulations for Torsion Testing Machines"

3. Technical parameters:

Model	HST-TNP2
Style	Vertical
Maximum test force	$\pm 2\text{N}\cdot\text{m}$
Test force resolution	$0.001\text{N}\cdot\text{m}$
Effective measurement range	1%-100%FS
Relative error of test force indication	$<\pm 1\%$
Repeatability error of test force indication	$<1\%$
Torque adding direction	Forward and reverse directions
Rotation angle measurement range	0-360°
Distance between force plate and torque rod	0~90mm
Protection function	The testing machine has overload protection function
Power supply	AC220V 50Hz
Current	less than 10A
Machine weight	About 50kg

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