



BPS INSTRUMENT

TENSILE TESTING MACHINE

3-10kN HSFT Spring Fatigue Testing Machine





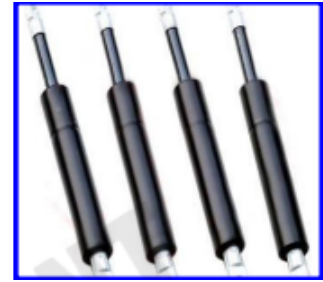
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Application:

This machine is mainly suitable for axial fatigue lift test of various spiral cylindrical springs, gas springs, elastomers, elastic components and other components.

Features:



1. The fuselage is made of high-quality thick steel plate to ensure that the machine can withstand the effects of long-term load and will not cause deformation;
2. The adjustment of the test space is electrically controlled, which is convenient and quick;
3. The test area is equipped with a transparent visual protective net to safety of the test operators;
4. Test loading using domestic high-quality precision servo motor, the output torque performance is stable, reliable operation, overcoming the impact of load changes on the machine;
5. The control program adopts a new independent control cabinet design, which is beautiful, safe and easy to control.

Functions:

1. According to the technical requirements of axial fatigue of various springs, elastomers, elastic components and other components, the amplitude and frequency can be easily adjusted;



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2. Industrial-grade LCD panel control panel, Chinese character operation, the number of trials and frequency can be preset according to requirements, and the functions of automatic shutdown of preset test times and the last untested test can be continued;
3. Emergency shutdown protection function.

Main parameters:

Name	Technology index		
Max. Load(kN)	3	5	10
Vertical maximum space	300mm Can be customized		
Transverse maximum space	150mm Can be customized		
Frequency range (adjustable)	0-5Hz 300 times/minute		
Test frequency	According to actual specimen		
Counting stop accuracy	1		
Maximum deformation of specimen	100mm		
Counter capacity	999999999		
Test station	1 (Standard) Can be customized		
Dimension	1000*750*1600mm		
Weight	1000kg		
Power	AC 380V $\pm$ 10% 50Hz		



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Environment and working conditions:

- a) Room temperature in the range of 10 °C -35 °C; relative humidity is not more than 80%;
- b) No vibrating, non-corrosive medium and clean environment without strong electromagnetic interference
- C) The fluctuation rang of the power supply voltage should be within 10% of the rated voltage soil;
- d) Install correctly on a solid foundation

Main supply scope:

Name	Qty
Main fatigue testing machine	1 set (Including mechanical parts, 1 set of optical axis)
Eccentric wheel loading system	1 set
Belt wheel, triangle belt	1 set
Bearing housing (including bearing)	1 set
Controller	1 set
Sheet metal case and electrical system	1 set
3Phases AC Motor	1 set
Frequency changer	1 set
Elevator	1 set
Reducer	1 set
Lubricating oil pipe	1 pcs
Tools and test tooling	Each 1 set
Technology brochure	1 pcs