HST PLG-100C Electromagnetic Resonance High Frequency Fatigue Testing Machine

1. Application:

PLG Series Electromagnetic Resonance Fatigue Testing Machine is used for fatigue tests on metallic materials and components under tension, compression or reversal load. Equipped with relevant grips, three-point bending test, four-point bending test, tension and compression of sheet sample test, tension and compression of circle test, gear wheel, bolt, connecting rod, roller chain, crackle expanding tests can be done on this machine. The series of testing machines undergo optimization design, the structure is rational. The automatic controlled system adopts the advanced pulse wide control system and new-type power amplifier to improve the reliability of the electric system .

It has high efficiency, easy to shake, no-stop shake, low energy consummation, high controlling accuracy, small fluctuation. The machine is complied with DIN50100.

2. Specifications:

Model	HST PLG-100C
Max. test load	100KN
Max single-track pulsation test load	100kN
Max. Dynamic test load	±50KN
Load measuring range	1%-100%FS
Static indication accuracy	±1%
Dynamic loading accuracy	±1%
Frequency	50~250hz
Max. distance between grips	500mm
Max. distance between columns	500mm
Load frame dimension	780*630*2250mm
Control dimension	550*550*750mm
Weight	2500KG
Work Environmental temperature	5℃-40℃
Power Supply	AC220V±10%, 50HZ
Optional: high temperature furnace and high temperature extensometer, fatigue crack rate test;	

3. Machine configuration

NO.	Part Name	Qty.
1	100KN high frequency fatigue testing machine host	1set
2	Electrical control cabinet	1set
3	HST-HF4.0 high frequency fatigue testing machine software	1set
4	HP Laser Printer	1set
5	Tensile fatigue test fixture	1set
6	Compression fatigue test fixture	1set

4. Main features:

4.1 The load drive is based on electric magnetic resonance, the loss of energy is very small, the test load is no wear, and the equipment is simple maintenance;

4.2 High frequency, short test period, greatly saving the test time

No need to adjust the resonant magnetic gap

4.3 Automatic calibration of the accuracy ; Automatic zero;

4.4 Static test is run by servo motor, reducer and precision ball screw, The dynamic test by electromagnetic exciter, which is supported by two sets of systems and can be loaded independently without interference