Fatigue Testing Machine Series

Application

This series machine is mainly used to detect a variety of metals, non-metallic materials and small movable member, the static mechanical properties test. It can do tensile, compression, bending, low cycle and high cycle fatigue, crack growth, fracture mechanics test under sine, triangle, square wave, trapezoidal wave, random wave, combination waveform.

Standards

GB / T2611-2007 《Tester General technical requirements》

GB / T16826-2008 《Hydraulic servo universal testing machine》

GB 3075 《Axial fatigue testing metal》

JB / T9379-2002 《Tension and compression fatigue test machine technical conditions》

GB / T228-2010 《Metallic materials at room temperature tensile test method 》

Specifications

Model		PLS-20/50	PLS-100	PLS-250/300	PLS-500	PLS-1000
Max. static load(kN)		±20/50	±50/100	±250/300	±500	±1000
Max. dynamic load(kN)		±20/50	±50/100	±250/300	±500	±1000
Amplitude(mm)				±75		
Measuring accuracy	Load	≤±0.5/1% from 2%-100% of F·S				
	Displacement	≤±0.5/1 of F·S				
	Deformation	≤±0.5/1				
Frequency		0.01-50/0.01-100		0.01-10/0.01-35		
Distance between columns (mm)		430	530	625	850	930
Power supply		AC220V±10%,50Hz/60Hz(can be customized)				

Model	HST-DP2	HST-DP5	HST-DP10	HST-DP20
Max testing force	±2000N	±5000N	±10000N	±20000N
Load frame	Two-column platform type, cross beam electric adjustment			
Effective column width	555	555	600	600
Test space	550	550	750	750
Test force measuring range	Dynamic 2%～100%FS			
Force accuracy and fluctuation	1% better than indicated value; amplitude fluctuation is not greater than ± 1% F.S			
Load display resolution	1/50000			
Test force indication accuracy	Dynamic ± 1%; static 0.5%			
Displacement measurement range	150mm(±75mm)			
Displacement resolution	0.001mmm			
Frequency rang	standard machine 0.1-10HZ