

HST-PLG Series Electromagnetic Resonance High Frequency Fatigue Testing Machine



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.

Standards:

GB/T 2611-2022 General Technical Requirements for Testing Machines

JB T 5488-2015 High Frequency Fatigue Testing Machine

JJG 556-2011 Verification Procedure for Axial Force Fatigue Testing Machines

GB/T 25917.1-2019 Uniaxial Fatigue Testing Systems - Part 1: Dynamic Force Calibration

GB/T 16825.1-2022 Metallic Materials - Inspection and Calibration of Static Uniaxial Testing Machines-
Part1:Inspection and Calibration of Force Measurement Systems

ASTM E647 Standard Test Method for Measurement of Fatigue Crack Growth Rates

ISO 4965:1979 Axial load fatigue testing machines—Dynamic force calibration—Strain gauge techniqueISO
204 Metallic materials—Uniaxial creep testing in tension—Method of test

ASTM E467-2008 Standard Practice for Verification of Constant Amplitude Dynamic Force in anAxial
FatigueTesting System

ASTM E1012-2005 Standard Practice for Verification of Test Frame and Specimen Alignment Under Tensileand
Compressive Axial Force Application

This machine's functions meet, but are not limited to, the relevant clauses of the following standards:

GB/T 3075-2021 Metallic Materials - Fatigue Testing - Method for Controlling Axial Force

GB/T 26076-2010 Metallic Sheets (Strips) - Axial Force Controlled Fatigue Test Method

GB/T 21143-2014 Metallic Materials - Unified Test Method for Quasi-Static Fracture Toughness

GB/T 4161-2007 Metallic Materials - Plane Strain Fracture Toughness KIC Test Method

GB/T 6398-2017 Metallic Materials - Fatigue Testing - Fatigue Crack Propagation Method

HB5287-1996AxialLoading Fatigue Test Methods for Metallic Materials

Specifications

Model	HST-PLG-20C	HST-PLG-50C	HST-PLG-100C	HST-PLG-200C	HST-PLG-300C	HST-PLG-500C
Load capacity (kN)	20	50	100	200	300	500
Frequency	50~250hz					
Load capacity for dynamic (peak value) (kN)	±10	±25	±50	±100	±150	±250
Relative error of	≤±1%					

static load							
Load fluctuation		1%F-S					
Max. distance between grips(mm)		500	500	500	700	700	600
Max. distance between columns		450	500	500	600	600	600
Dimens ion (mm)	Load fram e	600*500*2 100	780*630*2 250	780*630*22 50	1000*800*2 550	1185*950*2 600	1350*1150* 2600
	Cont rol cabin et	550*550*750					
Weight(kg)		1800	2200	2500	3500	3500	4500

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