KASON-HDT-A SERIES

Tabletop servohydraulic dynamic testing machine

APPLICATION

Servohydraulic fatigue testing machine is mainly used for fatigue mechanical properties test of metal materials, composite materials and parts, biological bones, elastomers. It can realize tension, compression, bending, tension-compression loading. High cycle fatigue, low cycle fatigue, fracture mechanics and other tests are realized. There are load control, strain control, displacement control, sine-wave, triangular wave, trapezoidal wave and other waveform output.

FEATURES

- It can be equipped with wedge clamps, compression clamps, bending clamps, fracture mechanics clamps, biological bone clamps, etc.
- It can be equipped with corrosion tanks to allow the specimens to undergo fatigue tests in water, Nacl solution, acid, and alkali solution environments;
- The base air spring is used for vibration reduction to prevent fatigue vibration from being transmitted to the surrounding area;
- It is equipped with a servo oil source, which has low noise, low energy consumption, and adjustable output flow

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT503A	KASON-HDT104A	KASON-HDT254A
Maximum dynamic force (kN)	±5KN	±10KN	±25KN
Maximum static force (kN)	5KN	10KN	25KN
Load range	2%-100%FS		
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%		
Actuator dynamic stroke	120mm		
Displacement measuring range	0 - 120mm(±60mm)		
Displacement measurement resolution	0.001mm		
Deformation indication relative error	±0.5%		
Force coaxiality	≤5%		
Frequency Range	Standard: 0.01 ~ 30;Optional: 0.01 ~ 50; 0.01 ~ 100(Static pressure support cylinder)		
Test space (mm)	827		
Test width (mm)	460		
Power supply	AC 380V± 10%, 50Hz		