

KASON-HDT-B SERIES

Electro Hydraulic Servo Dynamic Static Fatigue Testing Machine



APPLICATION

It is mainly used to detect the static and dynamic mechanical properties of metal and non-metal materials. It can realize mechanical tests such as tension, compression, tension-tension, compression-compression and tension-compression, as well as high-cycle fatigue, low-cycle fatigue, crack growth, fracture toughness and other tests, and realize various waveform outputs such as sine wave, triangle wave, square wave, etc.

FEATURES

- The crossbeam is placed on top and the actuator is placed on the bottom to form a closed frame structure. The frame has high rigidity, no reverse clearance and good stability.
- The actuator adopts a double-acting cylinder design, with reasonable space design and easy operation.
- The lifting, locking and sample clamping of the mobile crossbeam are all operated by buttons, which is flexible and convenient.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT254B	KASON-HDT504B	KASON-HDT106B	KASON-HDT255B	KASON-HDT255B
Maximum dynamic force (kN)	+25	+50	+100	+250	+500
Maximum static force (kN)	25	50	100	250	250
Load range	2%-100%FS				
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%				
Actuator dynamic stroke(mm)	150				
Displacement measuring range (mm)	0 - 150(±75)				
Displacement measurement resolution(mm)	0.001				
Deformation indication relative error	±0.5%				
Sine wave test Frequency (Hz)	Standard: 0.01 - 30; Optional: 0.01 - 50HZ; 0.01 - 100HZ(Static pressure support cylinder)				
Vertical test space(mm)	800	800	800	1000	1000
Working table height (mm)	825	825	825	825	825
Effective distance between columns(mm)	545	545	545	635	635
Column diameter(mm)	80	80	80	76.2	76.2
Main frame stiffness	3×10 ⁶	3×10 ⁶	3×10 ⁶	3×10 ⁶	3×10 ⁶
Machine frame sizes(mm)	1010X720X2900	1010X720X2900	1010X720X2900	1148X795X3252	1148X795X3252
Machine frame weight(KG)	1200	1200	1200	1200	1200
Coaxiality of hydraulic fixture	5%	5%	5%	5%	5%
Power supply	AC 380V± 10%, 50Hz				