

## SY-70 Hydraulic Vibration Tester

The SY-70 hydraulic vibration tester is a kind of dynamic testing machine. It adopts an electro-hydraulic servo valve for energy conversion and amplification that can convert high-pressure liquid energy into kinetic energy to guarantee the reciprocating motion of actuator.

The vibration testing equipment is applicable for the simulation of vibration suffered by the automobile, auto parts, various buildings, steel structures, aerospace goods, and the mechanical and electrical goods in actual environments. This will result in structure optimization and cost reduction.

### Functions and Features

1. The hydraulic vibration tester can realize sine vibration, random vibration, multi-point excitation, shock and bump.
2. It provides low-frequency vibration, large force, and anti-explosion function, thus being ideal for the simulation of earthquake excitation and material mixing, etc.
3. High-strength table with cast aluminum or cast magnesium guarantees the uniformity and consistency of vibration, as well as high reproducibility. The deformation of the table is prevented.
4. Long-stroke vibration tests for large-mass and large-size goods can be completed by the hydraulic vibration tester.



### Technical Parameters

Model	SY70-1	SY70-2.5	SY70-5	SY70-10	SY70-15	SY70-20	SY70-40	SY70-50
Max. Thrust(kN)	10	25	50	100	150	200	400	500
Max. Load(kg)	200	250	600	1200	1800	3000	8000	12000
Frequency Range(kN)	1~120	1~120	1~120	1~100	1~80	1~80	1~60	1~60
Max. Displacement(mm)	50	50	50	50	50	50	40	30
Max. Speed(m/s)	0.4	0.4	0.4	0.35	0.35	0.3	0.2	0.17
Max. Acceleration (m/s <sup>2</sup> )	30	50	50	50	50	40	30	25
Table Size(mm)	500×500	600×600	800×800	1000×1000	1200×1200	1500×1500	1800×1800	2000×2000
Power Consumption(kW)	11	18.5	37	55	74	74	110	110
Dimension(L×W×H: mm)	500×500×800	600×600×800	800×800×800	1000×1000×1200	1200×1200×1200	1500×1500×1200	1800×1800×1500	2000×2000×1500
Power Supply	Three-phase 380V,50/60Hz							
Standard	GB/T2423, GJB150A							

Working Environment	Temperature range: 0~40°C, Humidity range: ≤80% (non-condensing)
Remark	This product can be customized upon request.