

Hydraulic Vertical Shock Tester



The hydraulic lifting vertical shock tester is used to simulate the shock applied on the product in the actual environment, to assess the function reliability and the integrity of the structure of the product in the shock environment. This equipment is used for the conventional half-sine wave, post-peak sawtooth wave, square wave, and shock response spectrum function etc. impact tests.

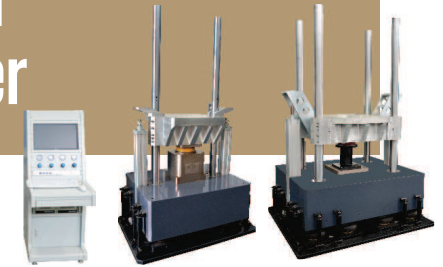
Functions and Features

- Multi-rack guide column with large strength margin is equipped for stable lifting and free-of-noise combining with the hydraulic balance lifting system;
- The optimally designed cast aluminum-magnesium alloy table has the advantages of high stiffness and small high-frequency clutter;
- Built-in hydraulic braking mechanism with large braking force is equipped, to effectively prevent the secondary rebound;
- The digital lifting height feedback control system can ensure the repeatability of the shock;
- The self-buffer base is designed to greatly reduce the shock to the ground, which can be placed on the terrace in the standard mechanical industrial plant.

Model	SY10-2	SY10-5	SY10-25	SY10-50	SY10-100	SY10-200	SY10-400	SY10-600	SY10-1000	SY10-2000
Max. payload (kg)	2	5	25	50	100	200	400	600	1000	2000
Table size (mm)	200×200	200×200	300×350	500×500	600×800	800×800	800×1000	1000×1000	1000×1200	1200×1200
Shock waveform	①	① ②	① ②	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③
Shock acceleration (m/s ²)	200 15000	200 150 15000 10000	150 150 15000 10000	150 150 300 9000 10000 10000	150 150 300 6000 10000 10000	150 150 300 4500 10000 10000	150 150 300 2000 500 500	150 150 300 1500 500 500	150 150 300 1500 500 500	150 150 300 1500 500 500
Pulse duration (ms)	11 0.8	18 18 0.5 6	30 18 0.8 6	30 18 12 1 6 6	30 18 12 1.5 6 6	30 18 12 2 6 6	30 18 12 4 6 6	30 18 12 6 6 6	30 18 12 6 6 6	30 18 12 6 6 6
Dimension (LxWxH:mm)	900×510×2100	900×725×2200	1100×750×2450	1300×900×2600	1400×950×2700	1700×1150×2750	1600×1400×2750	1800×1400×2800	1830×1480×3200	1830×1480×3300
Weight (kg)	500	550	1300	2500	3300	4700	7000	8010	10000	12000
Oil source model	HYS60L7.5		HYS100L20			HYS200L34				
Power supply	0.3kW 380V 50/60Hz 1.5kW		380V 50/60Hz 2.2kW			380V 50/60Hz 5.5kW				
Control cabinet model	SBC1300									
Standard	GJB150 GJB360 GJB548 GB/T2423 JIG541 IEC60068-2-27									

① Half-sine ② Postpeak sawtooth ③ Trapezoid

Pneumatic Vertical Shock/ Bump Tester



Pneumatic vertical shock and bump test system is a shock and bump test equipment featuring with the novel design, high degree of automation, simple operation and easy maintenance. This equipment is used for the conventional half-sine wave, post-peak sawtooth wave, square wave, and impact response spectrum function etc. shock tests.

Functions and Features

- The air pressure driven device is equipped, featuring with simple structure, high reliability, free of pollution, to keep the environment clean and healthy;
- The continuous impact test efficiency can be greatly improved, with maximum collision frequency up to 100 times / min;
- Large pulse width and small overload test can be easily achieved;
- The shock tester with fast shock rate is adopted, which can replace the collision table; compared with the motor-driven or hydraulic drive collision table, it has a higher reliability and better collision waveform;
- The shock speed can be controlled by adjusting the gas pressure, to achieve the easy adjustment of the collision speed;
- Shock DAQ series shock control and measurement system can be adopted for the manual shock, continuous shock, single shock, and interval shock, to achieve a variety of impact modes for selection by the user;
- The self-buffer base is designed to greatly reduce the shock to the ground, which can be placed on the terrace in the standard mechanical industrial plant.

Model	SY11-25	SY11-50	SY11-100	SY11-200	SY11-400	SY11-600	SY11-800	SY11-1000
Max. payload (kg)	25	50	100	200	400	600	800	1000
Table size (mm)	300×350	500×500	600×800	800×800	800×1000	1000×1000	1000×1200	1200×1200
Shock waveform	① ②	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③
Shock acceleration (m/s ²)	100 150 8500 1500	100 150 300 7000 1500 1000	100 150 300 5000 1000 1000	100 150 300 2000 600 600	100 150 300 1500 600 600	100 150 300 1500 600 600	100 150 300 1000 500 500	100 150 300 1000 500 500
Pulse duration (ms)	40 18 0.8 3	40 18 12 1 3 6	40 18 12 1.5 6 6	40 18 12 2 6 6	40 18 12 4 6 6	40 18 12 4 6 6	30 18 12 4 6 6	30 18 12 4 6 6
Dimension (LxWxH:mm)	900×780×2000	1160×800×2100	1260×880×2020	1120×1220×2050	1450×1600×2450	1450×1350×2450	1950×1550×2450	1950×1550×2450
Pressurization device size (mm)	300×300×850			400×400×850				
Weight (kg)	1500	2100	2500	2600	3800	5200	5200	
Max. bump frequency	100	80	80	60	50	40	30	
Standard	GJB150 GJB360 GJB548 GB/T2423 JIG541 MIL-STD-810F IEC68-2-27							
Control cabinet model	SBC1420							

Note: can be customized according to customer's special requirement ① Half-sine ② Postpeak sawtooth ③ Trapezoid