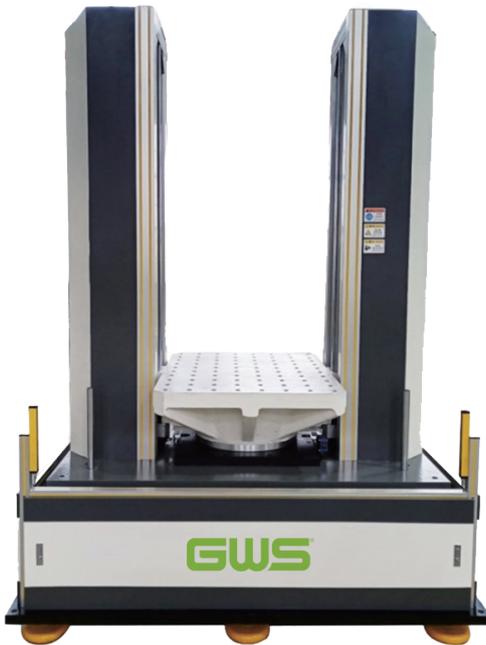


GWS11Pneumatic Vertical Shock Test System

GWS11 series pneumatic vertical shock test system is suitable for evaluating the functional reliability and structural integrity of various products under shock or bump environments, thereby improving or optimizing the structural design or layout of the products. The system meets the requirements of both shock and bump test, can perform conventional half-sine wave, post-peak sawtooth wave, trapezoid wave and other waveform shock tests.



Features

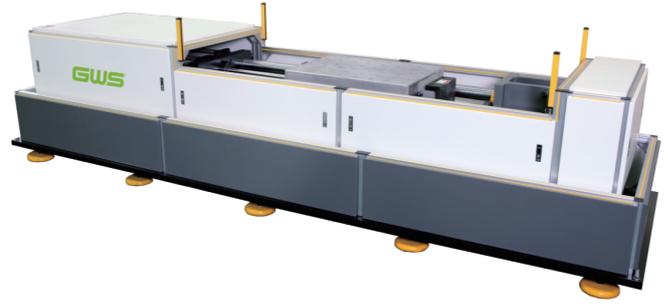
- Pneumatic drive, simple structure and high
- Pollution free, without hydraulic leak risk and keep the environment clean.
- Pneumatic drive greatly improves the shock test efficiency, maximum shock rate up to 120 times/ min.
- It can easily realize large pulse width and small overload test.
- With a fast shock rate comparing to motor or hydraulic driven table, it has higher reliability and better bump waveform.
- The speed and rate of shock can be easily controlled by adjusting the gas pressure.
- IPS-2000 shock control and measurement system can perform manual shock, continuous shock, single shock, and interval shock.
- Built-in brake mechanism ensures the safety of operation in any situation.

| Model | | GWS | GWS | GWS | GWS | GWS | GWS | GWS | GWS | GWS | GWS | | |
|----------------------------|--------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Parameters | | 11-5 | 11-15 | 11-25 | 11-50 | 11-100 | 11-200 | 11-400 | 11-600 | 11-800 | 11-1000 | 11-2000 | |
| Rated Load (kg) | | 5 | 15 | 25 | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 2000 | |
| Table Size (mm) | | 150×150 | 200×200 | 300×300 | 500×500 | 600×600 | 800×600 | 800×800 | 1000×800 | 1000×1000 | 1200×1200 | 1500×1200 | |
| Peak Acc. (g) | Half-Sine | 5~2.5k | 5~2k | 5~1500 | 10~750 | 10~600 | 10~450 | 10~400 | 10~300 | 10~300 | 10~250 | 10~150 | |
| | Post-Peak Sawtooth | 10~200 | | | | | 10~100 | | | | 10~50 | | |
| | Trapezoid | \ | | | 15~200 | | 15~100 | | 15~60 | | 15~50 | | |
| Pulse Duration (ms) | Half-Sine | 0.5~40 | 1~40 | 0.6~60 | 1.5~60 | 2~60 | 2.5~60 | 3~60 | 3.5~60 | 4~60 | 4.5~60 | 6~60 | |
| | Post-Peak Sawtooth | 3~18 | | | | | | 6~18 | | | | | |
| | Trapezoid | \ | | | 3~18 | | 6~18 | | | | | | |
| Bump Waveform | | Half sine wave | | | | | | | | | | | |
| Bump Peak Acceleration (g) | | 4~150 | | | | 5~100 | | | | | | | |
| Bump Pulse Duration (ms) | | 2~30 | | | | 3~30 | | | | | | | |
| Overall Dimension (mm) | | 1000×1000 ×2100 | 1200×1000 ×2200 | 1400×1200 ×2300 | 1600×1400 ×2300 | 1700×1500 ×2300 | 1700×1500 ×2300 | 1900×1500 ×2450 | 1900×1500 ×2450 | 2000×1500 ×2450 | 1900×1800 ×2550 | 2200×1800 ×2550 | |
| Weight (kg) | | 700 | 800 | 1000 | 1800 | 2500 | 2800 | 3800 | 4000 | 4800 | 5200 | 6000 | |
| Bump Rate (Times/Min) | | 10~120 | | | | | | | | | | | |
| Installation Condition | Environment | Temperature range 0 ~ 40°C; Humidity ≤ 80%, non-condense | | | | | | | | | | | |
| | Power | AC220V±10%, 50Hz | | | | | | | | | | | |
| | Air source | ≤0.8MPa | | | | | | | | | | | |
| | Floor | Foundation-free, the cement floor shall be leveled and the working distance of 800 ~ 1000mm shall be reserved around the equipment | | | | | | | | | | | |
| Standards | | MIL-STD-810F IEC68-2-27 UN38.3 IEC62281 IEC62133-2 UL2054 IEEE1625 SAEJ2929 IEC62660-2 ISO12405-3 UL2580 | | | | | | | | | | | |

Note: The parameters in the table are for reference only, and the parameters agreed upon by the supplier and the buyer shall prevail.

GWS12 Pneumatic Horizontal Shock Test System

GWS12 series shock test system is used to measure and determine the horizontal impact resistance of a product or package, and to evaluate the reliability and structural integrity of the test unit in a horizontal impact environment. The system can perform conventional half-sine wave, post-peak sawtooth wave, or trapezoid wave shock test to realize the shock energy that the product is subjected to in the actual environment, thereby improving the product or packaging structure.



Features

- Windows-based stable control system, full-automatic remote-control interface
- Pneumatic cylinder driving with advantages of large driving force, short accelerating stroke, low cost and pollution free.
- Trapezoidal guide posts: large supporting force, good lubricity and full-automatic positioning table.
- Automatic control of shock speed: the shock overload value is achieved by adjusting the air pressure. After the cylinder pressure is set, system will automatically control the shock speed with high accuracy and good repeatability.
- Adopts the high strength and hardness cast aluminum table, which has high first-order resonance frequency, featured with low noise and no clutter
- The most reliable double-brake system: effectively avoids secondary rebound collisions, more securely positioning the table, and more reliably guarantees the safety of the operator.
- Multiple waveforms: can perform conventional half-sine waves, post-peak sawtooth waves, or trapezoid waves.
- Easy installation: the device comes with a base, due to short driving stroke of the pneumatic cylinder, the footprint is small.
- Integrated control & measurement system: the system comes with a variety of waveform tolerance bands that comply with the MIL-810 standard, automatically generates test reports after the test is completed.
- System scalability: the system can be designed as a bidirectional shock according to user needs, saving test time more effectively.

| Parameters | | Model | | | | | | | |
|----------------------------|--------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | GWS12-10 | GWS12-50 | GWS12-100 | GWS12-200 | GWS12-500 | GWS12-1000 | GWS12-2000 | GWS12-3000 |
| Rated Load (kg) | | 10 | 50 | 100 | 200 | 500 | 1000 | 2000 | 3000 |
| Table Size (mm) | | 200×200 | 500×500 | 600×600 | 800×800 | 1000×1000 | 1200×1200 | 1500×1500 | 2000×2000 |
| Peak Acc. (g) | Half-Sine | 10~5000 | 10~1500 | 10~1000 | 10~800 | 10~600 | 10~500 | 10~200 | 10~150 |
| | Post-Peak Sawtooth | 10~200 | | | 10~100 | | | | 10~50 |
| | Trapezoid | / | 15~200 | 15~200 | 15~100 | 15~60 | 15~60 | 15~50 | 30~50 |
| Pulse Duration (ms) | Half-Sine | 0.3~40 | 1~60 | 1.5~60 | 2~60 | 2.5~60 | 3~60 | 6~60 | 8~60 |
| | Post-Peak Sawtooth | 3~18 | | | | 6~18 | | | |
| | Trapezoid | / | 3~18 | | 6~18 | | | | |
| Bump Waveform | | Half sine wave | | | | | | | |
| Bump Peak Acceleration (g) | | 4~150 | 5~100 | | | | | | |
| Bump Pulse Duration (ms) | | 2~30 | 3~30 | | | | | | |
| Bump Rate (Times/Min) | | 10~120 | | | | | | | |
| Overall Dimension (mm) | | 3000×1150×850 | 3300×1150×850 | 3500×1200×850 | 3800×1300×850 | 4000×1450×850 | 4500×1650×850 | 5500×2000×850 | 6000×2200×850 |
| Weight (kg) | | 2000 | 2500 | 3000 | 4000 | 4500 | 5000 | 6000 | 7500 |
| Installation Condition | Environment | Temperature range 0 ~ 40°C; Humidity ≤ 80%, non-condense | | | | | | | |
| | Power | AC220V±10%, 50Hz | | | | | | | |
| | Air source | ≤ 1MPa | | | | | | | |
| | Floor | Foundation-free, the cement floor shall be leveled and the working distance of 800 ~ 1000mm shall be reserved around the equipment | | | | | | | |
| Standards | | GB/T2423 GJB150 GJB360 GJB548 GJB4.8 GJB1217 MIL-STD-810F IEC68-2-27 | | | | | | | |