

# KRD12 PNEUMATIC HORIZONTAL SHOCK TEST SYSTEM

KRD12 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.

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.

## TECHNICAL SPECIFICATIONS

Parameters	Model	KRD12-10	KRD12-50	KRD12-100	KRD12-200	KRD12-500	KRD12-1000	KRD12-2000	KRD12-3000	
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								
Peak Acceleration (g)		4~150	5~100							
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	
Working Environment		Temperature range 0 ~ 40°C; Humidity ≤ 80%, non-condense								
Power		AC220V±10% 50Hz								
Air Source		≤1MPa								
Installation Condition		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.