

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℃; 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.