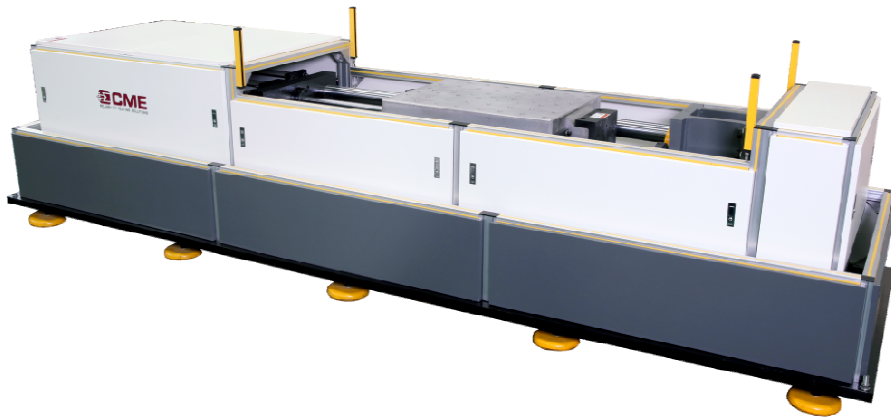


Technical Specifications

KRD12 Series Pneumatic Horizontal
Shock Test System



The 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 square 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.

- **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.
- **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 square 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

Model Parameters	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	10~200			10~100				10~50
	Sawtooth								
	Trapezoid	/	15~200	15~200	15-100	15-60	15-60	15-50	30-50
Pulse Duration	Half-Sine	0.3~40	1~60	1.5~60	2~60	2.5~60	3~60	6~60	8~60

on (ms)	Post-Peak Sawtooth	3~18				6~18			
	Trapezoid	/	3~18			6~18			
Bump Waveform (Optional)	Half sine Waveform								
Bump Peak Acceleration (g)	5-150	5-100			5-80		5-60		/
Bump Pulse Duration (ms)	2-30				3-30		4-30		/
Bump Rate (Times/Min)	10 ~ 120	10-80			10-60		10-40		/
Overall Dimension (mm)	2950×1240×1000	3300×1150×850	3500×1240×100	3740×1440×1050	4250×1450×1100	4500×1650×850	5500×2000×850	6000×2200×850	
Weight (kg)	3700	3600	4800	5856	6500	7000	8000	9000	
Working Environment	Temperature range 0~40°C, Humidity ≤ 80% (non-condensing)								
Power	1-phase AC220V±10% 50Hz								
Air source	≤1MPa								
Installation Condition	Special foundation, foundation-free base is optional. The working distance of 800~1000mm shall be reserved around the equipment.								
Standard	MIL-STD-810F IEC68-2-27 MIL-STD-202 MIL-STD-750 MIL-STD-883 UN38.3 IEC62281 IEC62133-2 UL2054 IEEE1625 SAEJ2929 IEC62660-2 ISO12405-3 UL2580								

Note: 1. The parameters in the table are for reference only, and the parameters agreed upon by the supplier and the buyer shall prevail.

2. Bump function, Post-peak Sawtooth and Trapezoid waveforms are optional.