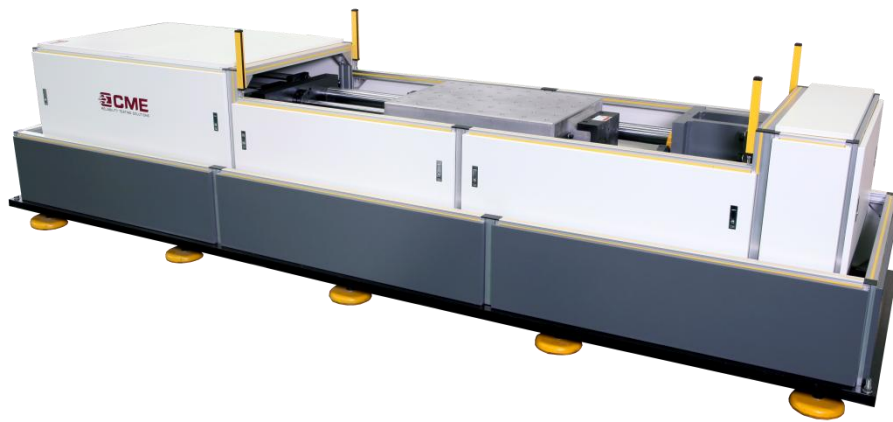


# Technical Specifications

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		KRD	KRD	KRD	KRD	KRD	KRD	KRD	KRD
Parameters		12-10	12-50	12-100	12-200	12-500	12-1000	12-2000	12-3000
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	10-5k	10~1.5k	10~1k	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℃; 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							
Standard		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.