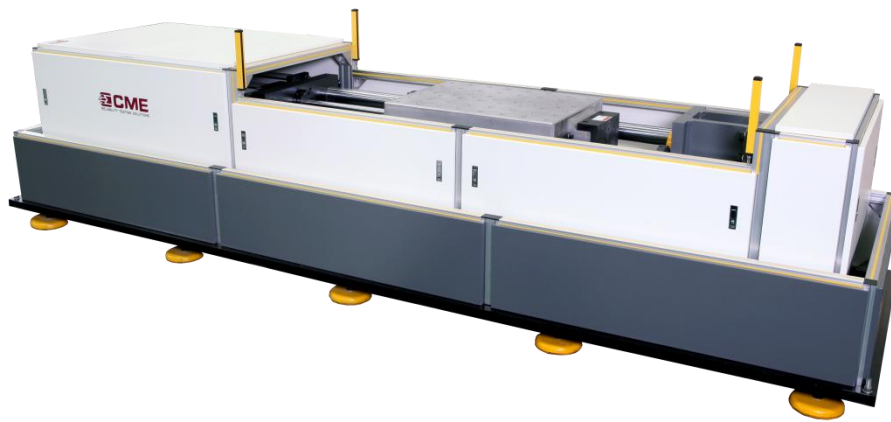


Technical Specifications

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		KRD 12-10	KRD 12—50	KRD 12—100	KRD 12—200	KRD 12—500	KRD 12—1000	KRD 12—2000	KRD 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
	Trapezoidal	/	15~200	15~200	15-100	15-60	15-60	15-50	30-50
	Half-Sine	0.3~40	1~60	1.5~60	2~60	2.5~60	3~60	6~60	8~60
Pulse Duration (ms)	Post-Peak Sawtooth	3~18				6~18			
	Trapezoidal	/	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)		3300	3600	4000	5000	6000	7000	8000	9000			
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.