CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD13 Series High Energy Shock Test System



CME Technology Co., Ltd.

KRD13 series high energy shock test system is specially designed to meet the requirements of military industry and home appliances. The system adopts the principle of pneumatic energy storage expansion. By adjusting the inflation pressure, various high-level acceleration tests can be easily implemented in a short stroke. For the classic drop test, it's equipped with the corresponding shock amplifier to complete drop test.

- **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.
- **Automatic control of lifting height** 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.
- **Easy installation**: the device comes with a base, due to short driving stroke of the pneumatic cylinder, the footprint is small.

Technical Specifications

Model / Parameters		KRD13—50	KRD13—100	KRD13—200	KRD13—500	KRD13—800	KRD13—1000	KRD13-2000
Rated Load (kg)		50	100	200	500	800	1000	2000
Table Size (mm)		500×500	600×600	800×800	1000×1000	1200×1200	1500×1500	2000×2000
Peak Acc. (g)	Half-Sine	10~1500	10~1000	10-700	10-500	10-400	10-300	10-200
	Post-Peak Sawtooth	10~100		10~100				10-50
	Trapezoid	15-100		15-100	15-100	15-60	15-50	30-50
Pulse Duration (ms)	Half-Sine	2～60	3～60	3～60	4～60	5～60	6～60	8～60
	Post-Peak Sawtooth	6～18			6～18			
	Trapezoid	6～18		6～18				
Bump Waveform (Optional)		Half Sine Waveform						

Bump Peak Acceleration (g)	5～100		5～80	5～60	5～40	/	
Bump Pulse Duration(ms)	3～30		3～30	4～30	5～30	/	
Bump Rate (Times/Min)	10~80		10~60		10-40	/	
Overall Dimension (mm)	1200×1200×1500	1300×1300×1650	1300×1300×1650	1300×1300×150	1500×1500×1700	1600×1600×1800	2000×2000×1900
Weight (kg)	4380	4380	4485	4650	5000	6000	8500
Environment	Temperature range 0～40℃, Humidity ≤ 80% (non-condensing)						
Power	1-phase AC100V-240V, 50Hz/60Hz						
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	IEC68-2-27 MIL-STD-202 MIL-STD-750 MIL-STD-810 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.