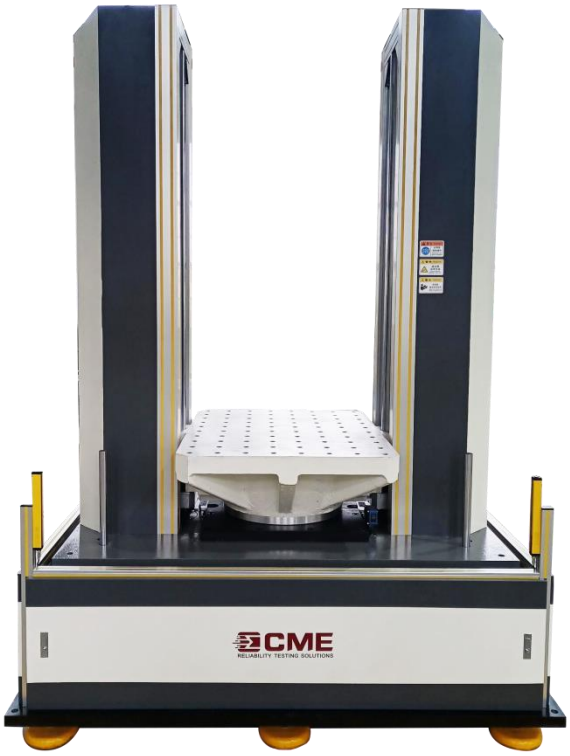
CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD11 Series Pneumatic Vertical Shock Test System



CME Technology Co., Ltd.

KRD11 series pneumatic vertical shock test system is featured with advanced design, high degree of automation and reliability, simple operation and convenient maintenance. The system meets the requirements of both shock and bump test, can perform conventional half-sine wave, post-peak sawtooth wave, square wave and other waveform shock tests.

- Pneumatic drive, simple structure and high reliability, without hydraulic leak risk.
- Maximum shock rate up to 120 times / min.
- Impact testing for small pulse lower to 0.3ms
- Shock testing machine with high acceleration is up to 3000g
- It can easily realize large shock pulse width and small overload test.
- With a fast shock rate comparing to motor or hydraulic driven bump table, it has higher reliability and better bump waveform.
- The speed and rate of shock can be easily controlled by adjusting the gas pressure.
- IPS-2000 shock control and measurement system can perform manual shock, continuous shock (bump test), single shock, and interval shock.
- Built-in brake mechanism ensures the safety of operation in any situation.

Technical Specifications

Model / Parameters		KRD 11—5	KRD 11—15	KRD 11—25	KRD 11—50	KRD 11—100	KRD 11—200	KRD 11—400	KRD 11—600	KRD 11—800	KRD 11—1000	KRD 11—2000
Rated Load (kg)		5	15	25	50	100	200	400	600	800	1000	2000
Table Size (mm)		150×150	200×200	300×300	500×500	600×600	800×600	800×800	1000×800	1000×1000	1200×1200	1500×1200
Peak Acc. (g)	Half-Sine	5-2500	5-2000	5-1500	10-750	10-600	10-450	10-400	10-300	10～300	10～250	10～150
	Post-Peak Sawtooth	10-100					10-100				10-50	
	Trapezoid	/			15-100		15-100		15-60		15-50	
Pulse Duration (ms)	Half-Sine	0.4～40	0.5～40	0.6～60	1.5～60	2～60	2.5～60	3～60	3.5～60	4～60	4.5～60	6～60
	Post-Peak Sawtooth	6～18						6～18				
	Trapezoid	/			6～18		6～18					
Bump		Half-sine Waveform										

Waveform (Optional)											
Bump Peak Acceleration（g）	5~100		5~100	5~100			5~80	5~60		5~40	/
Bump Pulse Duration (ms)	2~30			3~30				4 ~ 30		5 ~ 30	/
Bump Rate (Times/Min)	10~120		10~100	10~80		10~60		10~40		10~30	/
Overall Dimension (mm)	1000×1000×2100	1000×1000×2160	1170×1080×2170	1690×1240×2350	1710×1160×2350	1910×1500×2700	1910×1500×2500	1900×1500×2500	2000×1500×2450	1900×1800×2550	2200×1800×2550
Weight (kg)	1300	1350	1440	3070	3900	4500	5000	5200	5600	6200	7300
Working Environment	Temperature range 0 ~ 40℃, Humidity≤80% (non-condensing)										
Power	1-phase AC100V-240V, 50Hz/60Hz										
Air source	≤0.8MPa										
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-810 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.