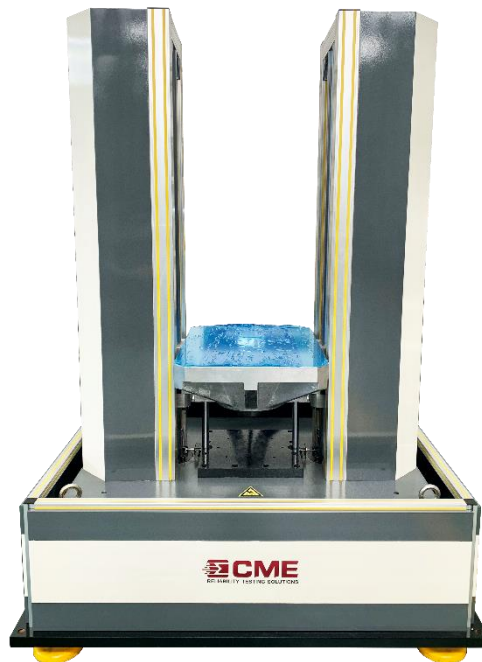


# Technical Specifications

KRD11 Series Pneumatic Vertical  
Shock/Bump Test System



KRD11 series pneumatic vertical shock/bump 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 collision 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
- Pollution free, without hydraulic leak risk and keep the environment clean.
- Pneumatic drive greatly improves the shock test efficiency, maximum shock rate up to 120 times / min.
- It can easily realize large pulse width and small overload test.
- With a fast shock rate comparing to motor or hydraulic driven collision table, it has higher reliability and better collision waveform.
- The speed and rate of shock can be easily controlled by adjusting the gas pressure.
- KRD90 series shock control and measurement system can perform manual shock, continuous shock, single shock, and interval shock.
- Built-in brake mechanism ensures the safety of operation in any situation.

## Technical Specifications

Model		KRD11 - 25	KRD11 - 50	KRD11 - 100	KRD11 - 200	KRD11 - 400	KRD11 - 600	KRD11 - 800	KRD11 - 1000	KRD11 - 2000
Parameters										
Rated Load (kg)		25	50	100	200	400	600	800	1000	2000
Table Size (mm)		300×300	500×500	600×600	800×600	800×800	1000×800	1000×1000	1200×1200	1500×1200
Peak	Half-Sine	10 ~ 850	10 ~ 200	10 ~ 300	10 ~ 200			10 ~ 100		
	Post-Peak	10 ~ 200	10 ~ 700	10 ~ 100	50 ~ 60	10 ~ 60		10 ~ 50		
Acc. (G)	Sawtooth	\	15 ~ 100	15 ~ 60			15 ~ 50			
	Trapezoid	\		15 ~ 60			15 ~ 50			
Pulse	Half-Sine	0.8 ~ 40 3 ~ 18	3 ~ 18	1.5 ~ 40	2 ~ 40	3 ~ 40		4 ~ 40		6 ~ 40
	Post-Peak	\	1 ~ 40	3 ~ 18	6 ~ 18					
Duration (ms)	Sawtooth	\	6 ~ 12	6 ~ 12						
	Trapezoid	\		6 ~ 12						
Bump Waveform		Half sine wave								
Bump Peak Acceleration (m/s <sup>2</sup> )		50 ~ 1500	50 ~ 1000				50 ~ 800	50 ~ 600	50 ~ 400	
Bump Pulse Duration (ms)		3 ~ 30								
Overall Dimension (mm)		1400×1200 ×2300	1600×1400 ×2300	1700×1500 ×2300	1700×1500 ×2300	1900×1500 ×2450	1900×1500 ×2450	2000×1500 ×2450	1900×1800 ×2550	2200×1800 ×2550
Weight (kg)		1000	1800	2500	2800	3800	4000	4800	5200	6000
Max. bump Rate (Times/Min)		100	80		60	50	40	30		20

Power Requirements for Table	AC220V±10%, 50Hz, 2kVA
Power Requirements for Air Compressor	AC220V±10%, 50Hz, 3kVA or AC380V±10%, 50Hz, 5kVA
Air Source Conditions	Air source output pressure is no greater than 1.0Mpa. If there is no air source in the lab, air compressor needs to be configured; if there is air source in the lab, and there is a high requirement for bump frequency times, a corresponding air tank needs to be configured.
Working Environment	Temperature range 0 ~ 40°C; Humidity ≤ 90% (25°C), non-condense
Standards	MIL-STD-810F IEC68-2-27