CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD17 Pneumatic Bidirectional Vertical Shock Test System



CME Technology Co., Ltd.

KRD17 series pneumatic bidirectional vertical shock test system is the novel designed and developed for large specimens that cannot or are not easy to turn over, especially adopt for battery testing. It can complete vertical upward and downward shock test in one test stand without moving the UUT.

- Pneumatic drive, no pollution to the environment
- One machine with multiple functions, one clamping, to complete the upward and downward shock and bump tests, with high efficiency
- Built-in pneumatic brake mechanism, safe and reliable
- One-machine management for control and measurement, convenient operation
- Air springs and dampers are used to reduce vibration, and the installation is free of foundation

Technical Specifications

Model / Parameters		KRD17—50	KRD17—100	KRD17—200	KRD17—500	KRD17—800	KRD17—1000	KRD17—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
Shock Direction		Downward						
Peak Acc. (g)	Half-Sine	10-500	10-500	10-300	10-200	10-150	10-100	10-50
	Post-Peak Sawtooth	10-100						
	Trapezoid	15-100	15-100	15-100	15-100	15-60	15-60	15-50
Pulse Duration (ms)	Half-Sine	3-60	3-60	3-60	4-60	6-60	6-60	11-60
	Post-Peak Sawtooth	6～18			6～18			
	Trapezoid	6～18	6～18	6～18				
Shock Direction		Upward						
Shock Wave		Half Sine Waveform						
Peak Acceleration (G)		15-300	15-300	15-200	15-100	15-75	15-60	15-30
Pulse Duration (ms)		3.5-60	3.5-60	4-60	6-40	6-60	6-60	11-60

Overall Dimension (mm)	1250×1250×1600	1250×1250×1600	1300×1300×1700	1350×1350×1750	1550×1550×1750	1650×1650×1850	2000×2000×1900
Weight (kg)	3000	3200	3500	4500	5000	6000	8000
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						
Working Environment	Temperature range 0 ~ 40℃, Humidity≤80% (non-condensing)						
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. Post-peak Sawtooth and Trapezoid waveforms are optional.