

Technical Specifications

KRD20 Pneumatic Bump
Test Machine



The KRD20 series pneumatic bump test machine replaces the traditional mechanical cam-type crash bench and is suitable for repeated impacts on electronic components, equipment and other electrical and electronic products during transportation or working.

- Fully pneumatic driven, clean and environmentally friendly, good repeatability and high reliability.
- Control the frequency of collisions by adjusting the gas pressure to achieve continuous high-frequency collisions.
- Test time and collision frequency can be set arbitrarily, and it will stop automatically after the test is completed
- The controller has door protection, overspeed protection and zero signal protection to ensure the safety of the system.
- The drop height is adjustable, only need input the overload value; adaptive adjustment of the collision process to ensure the repeatability.

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Model Parameters	KRD 20 - 50	KRD 20 - 100	KRD 20 - 200	KRD 20 - 500	KRD 20 - 1000	KRD 20 - 1500	KRD 20 - 2000
Load (kg)	50	100	200	500	1000	1500	2000
Table size (mm)	500×500	600×600	800×800	1000×1000	1800×1800	2000×2000	2500×2000
Shock Waveform	half sine wave						
Peak Acceleration (g)	3 ~ 150	3 ~ 100			3 ~ 50		
Pulse duration (ms)	2 ~ 30		3 ~ 30	6 ~ 30			
Max. Frequency Times (Times/Min)	120		100	80		60	
Bump Distance Adjusted Automatically (mm)	150		180		200		
Overall Dimension (mm)	1050×1050 ×1300	1050×1050 ×1300	1100×1100 ×1300	1300×1300 ×1500	2000×2000 ×1850	2000×2000 ×1850	2500×2000 ×1950
Weight (kg)	1500	1500	1500	2500	7500	8500	9500
Power Supply	AC220V ± 10%, 50Hz, 2kVA						
Power Supply 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 shock 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						

