

# 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	KRD 20-50	KRD 20-100	KRD 20-200	KRD 20-500	KRD 20-800	KRD 20-1000	KRD 20-1500	KRD 20-2000	KRD 30-2000
Parameters									
Load (kg)	50	100	200	500	800	1000	1500	2000	2000
Table size (mm)	500×500	600×600	800×800	1000× 1000	1500× 1500	1800×1800	2000× 2000	2500×2000	2500×2000
Shock Waveform	half sine wave								
Peak Acceleration (g)	3~150	3~120	3~100	3~80	4~60	5~50	5~50	5~40	5~30
Pulse duration (ms)	2~30			3~30	5~30	6~30	6~30	8~30	11~30
Bump Rate(Times/Min)	1~120		1~120	1~100	1~100	1-80	1~60	1-30	1-20
Overall Dimension (mm)	1050× 1050 ×1300	1050× 1050 ×1300	1100× 1100 ×1300	1200× 1200× 1500	1300× 1300× 1600	1350×1350 ×1600	2000× 2000× 1850	2500×2000× 1950	2500×2500× 2100
Weight (kg)	1500	1500	1500	2000	2500	7500	8500	9500	11000
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			IEC68-2-29					