

Technical Specifications

KRD50 Series Transportation Simulation
Test System



KRD50 series transportation simulation test system is to simulate the actual road conditions such as shocks and vibrations during the transportation of various items of a specific load, and to evaluate the effect of the actual working conditions on the loading, unloading, transportation, packaging, sealing or internal structure of the goods. In order to assess or confirm the products and packaging.

- Adopt a mechanical random vibration simulator, and adjust the system natural frequency, excitation frequency and vibration amplitude to make the test table meet the technical index requirements.
- Simple and reliable structure, and the use is convenient. It is especially suitable for transportation tests on large-scale and large-mass products.
- The method of subband approach is used to simulate broadband random vibration. Each subband contains a main natural frequency and meets the power spectrum of the subband. The vibration magnitude and running time of the test bench are consistent with the actual road spectrum.
- Adopt truck chassis suspension technology, the acceleration factor can be adjusted;
- No special foundation is needed, no other complicated operation or installation

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Model Parameters	KRD 50 – 200	KRD 50 – 300	KRD 50 – 600	KRD 50 – 1000	KRD 50 – 2000	KRD 50 – 3000	KRD 50 – 4000	KRD 50 – 6000
Max. Load (kg)	200	300	600	1000	2000	3000	4000	6000
Vibration Waveform	Broadband Random							
Instantaneous Probability Density Function	Approximately normal distribution							
GRMS of Acceleration (g)	0.32 (0.5-400Hz)							
Simulated Truck Speed (km/h)	20 ~ 80							
Simulated Pavement	Intermediate pavement in tertiary highways & intermediate and low pavement in fourth highways							
Acceleration Level	1:1							
Height of Specimen COG(mm)	< 500	< 600	< 700	< 800	< 900	< 1000	< 1200	< 1500
Working Table Size	1500×700	2000×1200	2200×1200	2700×1650	2700×1800	3600×2600	4000×2800	5000×3500

(mm)								
Consumption Power (kVA)	6	10	12	25	30	40	70	90
Overall Dimension (mm)	1700×850×1040	2000×1550×1000	2200×1500×950	2900×1300×2200	2950×2250×1250	3600×2600×1450	4000×2800×1550	5000×3500×1750
Weight (kg)	1150	2000	3000	5500	6000	8000	10000	15000
Power Supply	3-phase 380V±10%, 50/60Hz							
Working Environment	Temperature range 0 ~ 40°C, Humidity≤80% (non-condensing)							
Standards	GB/T4857.15 – 89		QJ/T815.1-94		QJ/T815.2-94		GJB150.16-86	

Note: The parameters in the table are for reference only, and the parameters agreed upon by the supplier and the buyer shall prevail.