

# Technical Specifications

KRD50 Series Transportation Simulation  
Test System



CME Technology Co., Ltd.

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

### Technical Specifications

Model Parameters	KRD 50 – 200	KRD 50 – 300	KRD 50 – 600	KRD 50 – 1000	KRD 50 – 1500	KRD 50 – 3000	KRD 50 – 4000	KRD 50 – 6000
Max. Load (kg)	200	300	600	1000	1500	3000	4000	6000
Vibration Waveform	Broadband Random							
Instantaneous Probability Density Function	Approximately normal distribution							
GRMS of Acceleration(m/s <sup>2</sup> )	3.2							
Simulated Truck Speed (km/h)	20 ~ 60							
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	< 700	< 700	< 1000	< 1200	< 1200
Working Table Size (mm)	1500×700	2000×1000	2200×1200	2700×1650	2700×1800	3200×2000	4000×2500	4000×2500
Consumption Power (kVA)	5	8	10	22	25	30	45	60
Overall Dimension (mm)	1700×850×950	2000×1500×950	2200×1500×950	2900×2200×1200	3000×2200×1300	3400×2600×1300	4450×2800×1600	4450×2800×1800
Weight (kg)	1600	2000	5500	6000	7000	7550	10000	12500
Power Supply	three-phase 380V, 50/60Hz							
Working Environment	Temperature Range 0 ~ 40°C, humidity ≤ 80% (no condense)							
Standards	GB/T4857.15 – 89		QJ/T815.1-94		QJ/T815.2-94		GB150.16-86	