CME
RELIABILITY TESTING SOLUTIONS

# 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 – 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 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 (mm) | 1500×700 | 2000×1200 | 2200×1200 | 2700×1650 | 2700×1800 | 3600×2600 | 4000×2800 | 5000×3500 |
| Consumption Power (kVA) | 6 | 10 | 12 | 25 | 30 | 40 | 70 | 90 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Overall Dimension (mm) | 1700×900×1050 | 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℃, Humidity≤80% (non-condensing) | | | | | | | |

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