CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD51 Series Transportation Bounce Test System

CME Technology Co., Ltd.

Bounce testing simulates the constant loose cargo state during truck transport. Often times, containers carrying military and civilian hardware (such as: medical supplies, electronics, weaponry, communication devices) travel for extended periods of time and must be transported off-road. All of these items must maintain functionality upon arrival at their destinations.

The International Safe Transit Association (ISTA) developed a civilian package test procedure resembling the military test: 1A for products weighing less than 150 lb (68 kg) and 1B for over 150 lb (68 kg). Additional tests in subsequent procedures such as 1C, 1D, 2A and further combine the loose cargo basic test with atmospheric conditioning and other factors.

MIL-STD-810 and ISTA Procedures 1A and 1B offer package test procedures for packages subjected to repeated vibration (bouncing Testing) for a distance of up to 150 miles (240 km), while unrestrained and repeatedly colliding with other cargo and the walls and floor of a four-sided compartment.

Technical Specifications

Model / Parameters	KRD51－100	KRD51－200	KRD51－500	KRD51－1000	KRD51－2000
Max. Load (kg)	100	200	500	1000	2000
Displacement (mm)	25.4				
Frequency	2~5Hz (120~300RPM)				
Test Motions	Rotary				
Working Table Size (mm)	1700×1200	1900×1300	2000×1500	2700×1650	1700×1200
Height of Specimen COG(mm)	＜500	＜600	＜700		
Consumption Power (kVA)	8	10	12	15	20
Weight (kg)	1600	2000	3500	5000	6000
Power Supply	AC380V±10%, 50/60Hz				
Working Environment	Temperature Range 0～40℃， humidity≤80% (no condense)				
Standards	ISTA-1A, 1B, 1C, 1D, 2A, 2B, 6-FedEx-A, 6-FedEx-B; ASTM-D999; ISO-2247; MIL STD-810G; FED-101				