CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD10 Series

Hydraulic Vertical Shock Test System



CME Technology Co., Ltd.

KRD10 series full-automatic hydraulic shock test system is used to measure and determine the impact resistance of products or packaging, and to evaluate the reliability and structural integrity of products in a shock environment. The system can perform conventional half-sine wave, post-peak sawtooth wave, square wave and other waveform shock tests to achieve the shock wave and impact energy that the product is subjected to in the actual environment, thereby improving the product or packaging structure.

- **Windows-based stable control system**, full-automatic remote-control interface
- **Multi-track guide posts** combined with good lubricity and noise free hydraulic balance lifting system to achieve stable shifting
- **Automatic control of lifting height** with high accuracy and good repeatability
- **Adopts the high strength and hardness cast aluminum table**, which has high first-order resonance frequency, featured with low noise and no clutter
- **Built-in brake mechanism** to avoid secondary rebound collisions and more secure positioning of the table
- **Multiple waveforms**: it can perform conventional half-sine waves, post-peak sawtooth waves, or square waves
- **The self-buffer & vibration isolation base** does not require a special foundation, and easy to install
- **One-stop test:** built-in test standards meet various requirements to help users to complete test in one stop

Technical Specifications

Parameters \ Model		KRD 10 - 2 (Manual)	KRD 10 - 5	KRD 10 - 25	KRD 10 - 50	KRD 10 - 100	KRD 10 - 200	KRD 10 - 400	KRD 10 - 500	KRD 10 - 600	KRD 10 - 1000	KRD 10 - 1500	KRD 10 - 3000
Rated Load (kg)		2	5	25	50	100	200	400	500	600	1000	1500	3000
Table Size (mm)		115×115	200×200	300×300	500×500	600×600	800×600	800×800	1000×800	1000×1000	1200×1000	1500×1200	2000×1500
Peak Acc. (g)	Half-sine	5~3k	5~2k	5~1.5k	10~750	10~600	10~400	10~400	10~300	10~300	10~250	10~150	15~100
	Post-peak Sawtooth	10~100					10~100						10~50
	Trapezoid	/			15~100		15~100			15~60		15~50	30~50
Pulse Duration (ms)	Half-sine	0.3~40	0.5~40	0.6~60	1.5~60	2~60	3~60	3~60	4~60	4~60	5~60	6~60	11~40
	Post-peak Sawtooth	6~18					6~18						
	Trapezoid	/			6~18		6~18						
Overall Dimensions (mm)		450×180×2100	1000×900×2350	1400×1200×2300	1600×1400×2300	1700×1500×2300	1700×1500×2300	1900×1500×2550	1900×1500×2550	1900×1800×2550	1900×1800×2650	2200×2100×2650	2700×2500×3000

Weight (kg)	200	1000	1800	3000	4200	4300	5200	5300	7000	8000	10000	15000
Working Environment	Temperature range 0 ~ 40℃, Humidity≤80% (non-condensing)											
Power	Control measurement: 1-phase AC100V-240V, 50Hz/60Hz Oil source: 3-phase 380V±10% 50Hz											
Installation Condition	Foundation-free, the cement floor shall be leveled and the working distance of 800 ~ 1000mm shall be reserved around the equipment											
Standards	MIL-STD-810 IEC68-2-27 UN38.3 IEC62281 IEC62133-2 UL2054 IEEE1625 SAEJ2929 IEC62660-2 ISO12405-3 UL2580											

Note: 1. The parameters in the table are for reference only, and the parameters agreed upon by the supplier and the buyer shall prevail.

2. Post-peak Sawtooth and Trapezoid waveforms are optional.