CME
RELIABILITY TESTING SOLUTIONS

Technical Specifications

KRD15 Series Pneumatic Horizontal Shock Response Spectrum Test System



CME Technology Co., Ltd.

KRD15 series is the state-of-the-art shock response spectrum tester that adopts compressed gas energy to provide impact energy, push the shock hammer to impact the resonance plate, and generate high energy shock. Comparing to traditional pendulum shock response spectrum tester, this machine has the advantages of high energy, stable performance, high reliability, good repeatability, easy adjustment, safety and environmental protection. It is mainly applied in the industries of aerospace, aviation and ships.

- The system uses pneumatic energy storage to drive the impact hammer, with large driving force, fast response speed and reliable structure;
- Adjust the driving shock energy by adjusting the air pressure, which is convenient to operate and high in efficiency.
- Special designed base for the response spectrum, which can raise the installation position of the response board, convenient for the user to install the test piece and adjust the gasket. In addition, the rigidity of the installation position of the response board is greatly enhanced, which makes it better fixed to the ground foundation and withstands larger Impact load.
- A two-level safety cut-out is designed to fully protect the safety of operators.
- The operating software has the functions of shock response spectrum tester control, shock data collection, and response spectrum analysis.

Technical Specifications

Model / Parameters	KRD15—50	KRD15—100	KRD15—200	KRD15—500	KRD15—1000
Load (kg)	50	100	200	500	1000
Table Size (mm)	500×500	600×600	800×800	1000×1000	1200×1200
Response Frequency Range (Hz)	10-10,000				
Max. Response Acceleration (g)	15,000	12,000	10,000	8000	6000
Gradient of Rising Stage (dB/Oct)	6～9				
Tolerance Range (±dB)	6～9				
Overall Dimension (mm)	3700×1200×850	4050×1195×1000	4300×1440×950	4500×1640×850	4700×1840×850
Power	1-phase AC100V-240V, 50Hz/60Hz				
Weight (kg)	4000	5300	6520	7000	8000
Working Environment	Temperature range 0~40℃, Humidity ≤ 80% (non-condensing)				
Installation Condition	Special foundation, foundation-free base is optional				

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