

KRD70

HYDRAULIC VIBRATION SHAKER

KRD70 series hydraulic vibration shaker converts the energy of high-pressure liquid into the power of the reciprocating motion of the cylinder through the electro-hydraulic servo valve. Especially suitable for vibration tests requiring low frequency and high force. It can realize sine, random, multi-point excitation and shock test (sine, random, sine on random, random on random, or resonant search & dwell). It's applied for reproducing the vibrations of transportation vehicles, bulk packaging products, machinery, electrical and electronic products in the actual environment, thereby optimizing the product structure and saving costs.



TECHNICAL SPECIFICATIONS

Parameters	Model	KRD 70-5K	KRD 70-1T	KRD 70-2T/S	KRD 70-3T/S	KRD 70-4T/S	KRD 70-5T/S	KRD 70-10T/S	KRD 70-20T/S	KRD 70-30T	KRD 70-40T	KRD 70-50T
Force (KN)		5	10	20	30	40	50	100	200	300	400	500
Frequency Range (Hz)	Sine	0.1~200			0.1~150			0.1~130		0.1~100		0.1~80
	Random	0~300				0~200			0~150			
Max. Load (kg)		100	200	400	600	800	1000	1500	3500	5000	7000	8000
Max. Displacement (P-P) (mm)		100										
Max. Velocity (m/s)		1		0.6/1					0.6			
Max. Acceleration (g)		5										
Table Size (mm)		600×600	800×800	1000×1000	1200×1200		1500×1500		1800×1800	2000×2000	2500×2500	3000×3000
Power Supply		AC 380V ±10% 18kVA	AC 380V ±10% 22kVA	AC 380V ±10% 30kVA	AC 380V ±10% 40kVA	AC 380V ±10% 45kVA	AC 380V ±10% 55kVA	AC 380V ±10% 90kVA	AC 380V ±10% 110kVA	AC 380V ±10% 130kVA	AC 380V ±10% 150kVA	AC 380V ±10% 170kVA
Weight		1500	1800	2000	3000	3500	4000	5000	6000	8000	9000	10000
Working Environment		Temperature range 0~40°C, Humidity ≤80% (no condense)										
Installation Condition		Special foundation, optional free foundation										
Vibration Direction		Vertical / Horizontal										
Vibration Mode		Sine, random and road spectrum simulation										
Control Mode		Computer control and measurement										
Standards		MIL-STD-810 IEC60068-2 ASTM D4728										

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. Force, displacement amplitude, table size and working frequency can be customized.

- To achieve sine vibration, random vibration, multi-point excitation, and shock and bump;
- It can be used to simulate seismic excitation and ammunition loading with low frequency and high force features.
- The high-strength cast aluminum or cast magnesium table ensures uniform and consistent vibration, high reproducibility, and avoids deformation of the table.