

CMETechnology Co., Ltd.

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MECHANICAL TESTING SOLUTIONS CME Technology Co., Ltd.



ABOUT US 🔺

CME Technology Co., Ltd. is located in Shaanxi National Development Zone, specializing in manufacturing equipment for mechanical testing and simulation, environmental reliability testing, non-standard testing, and the capability of integrating planning, design, manufacturing, and installation and service as one. Tailor-made test solutions and non-standard test equipment for customers to help customers save resources and improve product reliability as much as possible.

Through years of efforts in R & D, a complete development system of environment and reliability test products has gradually formed. CME has become the professional manufacturer and service provider of environmental and reliability test equipment with the most extensive coverage and the most complete product series in China.

"CME" brand products have been provided many reliability test solutions for various fields such as aviation, aerospace, navigation, weapons, automotive, rail transportation, electronics, etc., which have been well received in the industry.

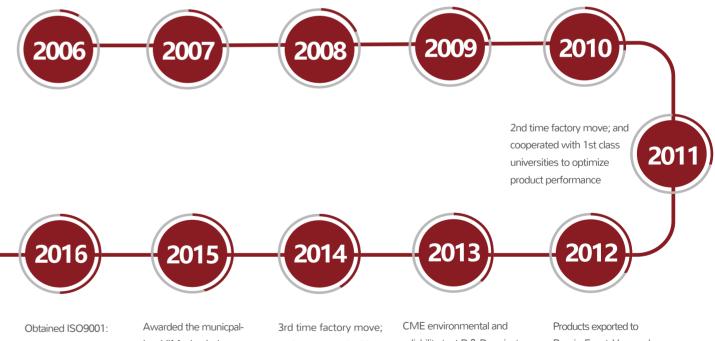
Mission: To become the leading provider of reliability testing solutions Vision: Credit, Professional & Innovation

Aerospace & Aviation

CME Established has bee

The main product series (has been upgraded (

CME expanded production & move to new factory





TIME LINE 🔺









CME products cover all uction mechanical environmen- Corporat y tal test standards such as

Corporate with testing institutions such as UL, SGS, Intertek, etc.

reliability test R & D project was successfully approved by the STA as a major provincial science and technology project Products exported to Russia, Egypt, Venezuela, Myanmar...



Shock / Bump Test System

- 03 KRD10 Hydraulic Vertical Shock Test System
- 05 KRD11 Pneumatic Vertical Shock Test System
- 07 KRD12 Pneumatic Horizontal Shock Test System
- 09 KRD13 High Energy Shock Test System
- 11 KRD16 High Impact Shock Test System
- 12 KRD20 Pneumatic Bump Test Machine
- 13 KRD17 Bidirectional Vertical Shock Test System

Constant Acceleration Tester

- 17 KRD30 Constant Acceleration Tester (Box Type)
- 18 KRD31 Constant Acceleration Tester (Arm Type)
- 19 KRD32 Non-standard Constant Acceleration Tester

Shock Response Spectrum Test System

- 15 KRD14 Pneumatic Vertical Shock Response Spectrum Test System
- 16 KRD15 Pneumatic Horizontal Shock Response Spectrum Test System

Drop Test System

KRD42 Double Lift Zero Distance Drop Test System

21 KRD40 Zero Distance Drop Test System

KRD41 Small Drop Test System

Transportation Simulation Test System

- 23 KRD50 Transportation Simulation Test System
- 24 KRD51 Transportation Bounce Test System

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Vibration Shakers

27 KRD70 Hydraulic Vibration Shaker

Motion Simulation Test System

- 25 KRD60 3-DOF Test System
- 26 KRD61 6-DOF Test System

Packaging Test System

- 29 KRD100 Incline Impact Tester
- 1 KRD101 Packaging Compression Tester
- 32 KRD102 Clamping Force Tester

KRD10 HYDRAULIC VERTICAL SHOCK TEST SYSTEM



Windows-based stable control system IPS-2000 shock control & measurement system can accurately complete the high energy shock

Multi-track guide posts combined with good lubricity and noise free hydraulic balance lifting system to achieve stable shifting.

test

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- 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.
- 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.
- 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 trapezoid waves.

KRD10 series is a full-automatic hydraulic lifting vertical shock test system, it 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, and trapezoid wave shock tests to achieve the shock wave and shock energy that the product is subjected to in the actual environment, thereby improving the product or packaging structure.

TECHNICAL SPECIFICATIONS

Parameters	Model	KRD10-2 (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 L	.oad (kg)	2	5	25	50	100	200	400	500	600	1000	1500	3000
Table Siz	e (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
	Half-sine	5~3k	5~2k	5~1.5k	10~750	10~600	10~450	10~400	10~300	10~300	10~250	10~150	15~100
Peak Post-peak Acc. Sawtooth		10~200					10~100					10~50	
(g)	Trapezoid	1			15~	200		15~100			15~60	15~50	30~50
Pulse	Half-sine	0.3~40	0.5~40	0.6~60	1.5~60	2~60	2.5~60	3~60	3.5~60	4~60	4.5~60	6~60	11~40
Duration (ms)	Duration Post-peak 3~18		3~18			6~18							
(Trapezoid	\			3~18 6~18								
Overall Dir (mr		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
Weigh	t (kg)	200	1000	1800	3000	4200	4300	5200	5300	7000	8000	10000	15000
Working En	vironment					Tempe	erature range	0 ~ 40°C, H	umidity ≤ 80	% (non-cond	ensing)		
Power Control measurement: 1			: 1-phase AC220V±10% 50Hz Oil source: 3-phase AC380V±10% 50Hz										
Installation	Condition		Foundatio	on-free, the c	ement floor	shall be leve	led and the w	orking dista	nce of 800 ~	1000mm sh	all be reserve	ed around the	equipment
Standa	ards	N	11L-STD-810	IEC68-2-2	7 UN38.3	EC62281 IE	EC62133-2 l	JL2054 IEE	E1625 SAE	J2929 IEC62	660-2 ISO12	2405-3 UL25	80

Note: 1. The parameters in the table are for reference only, and the parameters agreed 2. Post-peak Sawtooth and Trapezoid waveforms are optional.

DUAL-MASS SHOCK AMPLIFIER

Dual mass shock amplifier is a device that uses the rebound energy of the two shock tables to reach the extremely high shock acceleration. The amplifiers consist of secondary small shock table and a massive base which is bolted to the top of the original table of the shock machine. The specimen is mounted on top of the secondary shock table.

SHOCK AMPLIFIER SPECIFICATIONS

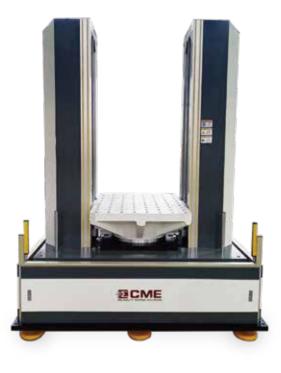
Parameters Model	KRD13-1	KRD13-2	KRD13-3			
Rated Load (kg)	2	5	10			
Useful Table Size (mm)	80×80	150×150	300×300			
Shock Waveform	half sine waveform					
Max. Peak Acceleration (g)	50000	10000	3000			
Min. Pulse Duration (ms)	0.05	0.1	0.5			
Amplifier Weight (kg)	30	50	100			



KRD11 **PNEUMATIC VERTICAL SHOCK TEST SYSTEM**

reliability, simple operation and convenient maintenance. The system meets the requirements of both shock and bump

- Pneumatic drive, simple structure and high > reliability.
- Pollution free, without hydraulic leak risk and 5 keep the environment clean.
- Pneumatic drive greatly improves the shock > test efficiency, maximum shock rate up to 120 times / min.
- It can easily realize large pulse width and small overload test.
- With a fast shock rate comparing to motor or hydraulic driven table, both shock and bump functions are available in one.
- By utilizing different configurations of shock pads and adjusting the free-fall height, we can > achieve a wide range of shock targets.
- IPS-2000 shock control and measurement 5 system can perform manual shock, continuous shock, single shock, and interval shock.
- Built-in brake mechanism ensures the safety of operation in any situation.



					тесн	
el	KRD 11-5	KRD 11-15	KRD 11-25	KRD 11-50	KRD 11-100	
kg)	5	15	25	50	100	
ım)	150×150	200×200	300×300	500×500	600×600	
	5 ~ 2500	5~2000	5~1500	10~750	10~600	
ooth			10~200			
oid		\		15~	200	
	0.4~40	0.5~40	0.6~60	1.5~60	2~60	

3~18

Parameters

Rated Load

Table Size (m

Acc. Postpeak (g)

Pulse sine

Duration Post

Half

sine Peak

> Sawt Trape

> > Hal

2. Bump function, Post-peak Sawtooth and Trape.

(ms) peak Sawtor 6~18 \ Trapezo 3~18 Bump Wavefor Half-sine Waveform (Optional) Bump Pea 5~150 5~120 5~100 Acceleration (c Bump Pu 3~30 2~30 Duration(ms) **Bump Rate** 10~120 10~100 10~80 (times/min) 1510 1690 1710 1910 1000 1000 Overall ×1000 ×1000 ×1300 ×1240 ×1160 ×150 imension (mm) ×2100 ×2400 ×2160 ×2350 ×2700 ×2350 Weight (kg) 2300 3000 3070 4500 1300 3900 Working Temperature range 0 ~ 40°C, Humidity ≤ 80% (non-condensing) Environment Power 1-phase AC220V±10% 50Hz Air Source ≤0.8MPa Installation Foundation-free, the cement floor shall be leveled and the working distance of 800~1000mm shall be reserved Condition 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 refer ne parameters agreed upon by the supplier and the buyer shall prevail

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NICAL SPECIFICATIONS

KRD 11-200	KRD 11-400	KRD 11-600	KRD 11-800	KRD 11-1000	KRD 11-2000	
200	400	600	800	1000	2000	
800×600	800×800	1000×800	1000×1000	1200×1200	1500×1200	
10~450 10~400		10~300	10~300	10~250	10~150	
	10	~100		10~	-50	
1	5~100	15	j~60	15~50		
2.5~60	3~60	3.5~60 4~60		4.5~60	6~60	

	5~80	5~	60	5~40	١
		4~	- 30	5~30	١
10)~60	10~	-40	10~30	\
10 00 00	1910 ×1500 ×2500	1900 ×1500 ×2450	2000 ×1500 ×2450	1900 ×1800 ×2550	2200 ×1800 ×2550
)	5000	5200	5600	6200	7300

KRD12 PNEUMATIC HORIZONTAL SHOCK TEST SYSTEM

KRD12 series shock test system is used to measure and determine the horizontal impact resistance of a product or package, and to evaluate the reliability and structural integrity of the test unit in a horizontal impact environment. The system can perform conventional half-sine wave, post-peak sawtooth wave, or trapezoid wave shock test to realize the shock energy that the product is subjected to in the actual environment, thereby improving the product or packaging structure.

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Windows-based stable control system IPS-2000 shock control & measurement system can accurately complete the high energy shock test

- Pneumatic cylinder driving with advantages of large driving force, short accelerating stroke, low cost and pollution free.
- Trapezoidal guide shafts: large supporting force, > good lubricity and full-automatic positioning table.

Automatic control of shock speed: the shock overload value is achieved by adjusting the air pressure. After the cylinder pressure is set, system will automatically control the shock speed with high accuracy and good repeatability.

Adopts the high strength and hardness cast 5 aluminum table, which has high first-order resonance frequency, featured with low noise and no clutter.

The driving cylinder enables the table to obtain the required energy, decelerates as buffers, and automatically resets. Once the shock action is completed, the reset cylinder pulls the table to reset and enters the next shock preparation state.

Multiple waveforms: can perform conventional > half-sine waves, post-peak sawtooth waves, or trapezoid waves.

Easy installation: free-foundation base is optional, due to short driving stroke of the pneumatic cylinder, the footprint is small.

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Integrated control & measurement system: the system comes with a variety of waveform tolerance bands that comply with the MIL-810 standard, automatically generates test reports after the test is completed.

System scalability: the system can be designed as a bidirectional shock according to user needs, saving test time more effectively.

Paramete	Model	KRD12-10	KRD12-50	KRD12-100	KRD12-200	KRD12-500	KRD12-1000	KRD12-2000	KRD12-30	
	d Load (kg)	10	50	100	200	500	1000	2000	3000	
	Size (mm)	200×200	500×500	600×600	800×800	1000×1000	1200×1200	1500×1500	2000×20	
	Half-Sine	10~5000	10~1500	10~1000	10~800	10~600	10~500	10~200	10~150	
Peak Acc. (g)	Post-Peak Sawtooth		10~200			10~	-100		10~50	
	Trapezoid	/	15~200	15~200	15~100	15~60	15~60	15~50	30~50	
Pulse	Half-Sine	0.3~40	1~60	1.5~60	2~60	2.5~60	3~60	6~60	8~60	
Duration (ms)	Post-Peak Sawtooth		3~	18	6~18					
	Trapezoid	\	3~	18			6~18			
	Waveform otional)			Half-sine Waveform						
Peak Acceleration (g) Pulse Duration (ms)		5~150	5~150 5~100		5-	~80	5~60		\	
			2~30			3~30 4~30			\	
	mp Rate nes/Min)	10~120 10~80		10~60		10~40		\		
Overall	Dimension (mm)	2950×1240 ×1000	3300×1150 ×850	3500×1240 ×1100	3740×1440 ×1050	4250×1450 ×1100	4500×1650 ×850	5500×2000 ×850	6000×220 ×850	
Weię	ght (kg)	3700	3600	4800	5856	6500	7000	8000	9000	
	Environment	Temperature range 0 \sim 40°C, Humidity \leq 80% (non-condensing)								
	ower Source	1-phase AC220V±10% 50Hz ≤1MPa								
	on Condition	IMPa Special foundation, foundation-free base is optional. The working distance of 800~1000mm shall be reserved								
	ndards		10 15000 0 07 11		around the e	equipment. 2054 IEEE1625 SA				
				e only, and the pa apezoid waveform		upon by the suppl	er and the buyer	shall prevail.	1	

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KRD13 HIGH ENERGY SHOCK TEST SYSTEM

This equipment combines classical free-fall shock and pressuried shock into one, can acheive higher shock energy than

Windows-based stable control system > IPS-2000 shock control & measurement system

can accurately complete the high energy shock test

- Pneumatic cylinder driving with advantages of > large driving force, short accelerating stroke, low cost and pollution free.
- Stable guide pillar: combined with pneumatic > balance lifting system, automatically positioning the table.
- Adopts the high strength and hardness cast > aluminum table, which has high first-order resonance frequency, featured with low noise and no clutter.
- Advanced energy storage expansion shock > method it can achieve high shock energy that can not be achieved by classical free-fall shock, especially to meet the various shock test standards for new energy batteries.
- Easy installation: the equipment comes with a > high-performance buffer and vibration isolation base, no special foundation is required, and the installation is convenient, safe and reliable.



TECHNICAL SPECIFICATIONS

Model Parameters		KRD 13-50	KRD 13-100	KRD 13-200	KRD 13-500	KRD 13-800	KRD 13-1000	KRD 13-2000	
Rated	Load (kg)	50	100	200	500	800	1000	2000	
Table Size (mm)		500×500	600×600	800×800	1000×1000	1200×1200	1500×1500	2000×2000	
	Half-sine	10 ~ 1500	10 ~ 1000	10 ~ 1000	10 ~ 500	10 ~ 400	10 ~ 300	10 ~ 200	
Peak Acc.	Post-peak Sawtooth	10 ~	· 200		10 ~ 100			10 ~ 50	
(g)	Trapezoid	15 ~ 200		15	~ 100	15 ~ 60	15 ~ 50	30 ~ 50	
	Half-sine	2~60	3 ~ 60	3 ~ 60	4 ~ 60	5 ~ 60	6 ~ 60	8~60	
Pulse Duration	Post-peak Sawtooth		3 ~ 18	1	6~18				
(ms) Trapezoid		3 ~ 18	3			6 ~ 18			
Bump Waveform (Optional)				Halt	f-sine Waveform	1			
	Bump k Acc.(g)	5 ~ 100		5~80	5~60	5~40		١	
	mp Pulse ation (ms)	3 ~ 30			4 ~ 30	5 ~ 30	١		
	imp Rate mes/Min)	10	~ 80	10	10 ~ 60 10 ~ 40		\		
Overa	ll Dimension (mm)	1200×1200 ×1500	1200×1200 ×1650	1100×1100 ×1700	1300×1300 ×1600	1500×1500 ×1700	1600×1600 ×1800	2000×2000 ×1900	
We	eight (kg)	3000	3800	3200	4000	5000	6000	8500	
Working I	Environment	Temperature range $0 \sim 40^{\circ}$ C, Humidity $\leq 80\%$ (non-condensing)							
Po	ower			1-р	hase AC220V±	10% 50Hz			
Air	Source				≤1MPa				
Installatio	on Condition	Foundation-	free, the cemer			working distand the equipment	e of 800~1000m	nm shall be	
Sta	andards	MIL-STD-8	310 IEC68-2-27		281 IEC62133- SO12405-3 UL2		E1625 SAEJ2929	9 IEC62660-2	

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. Bump function, Post-peak Sawtooth and Trapezoid waveforms are optional



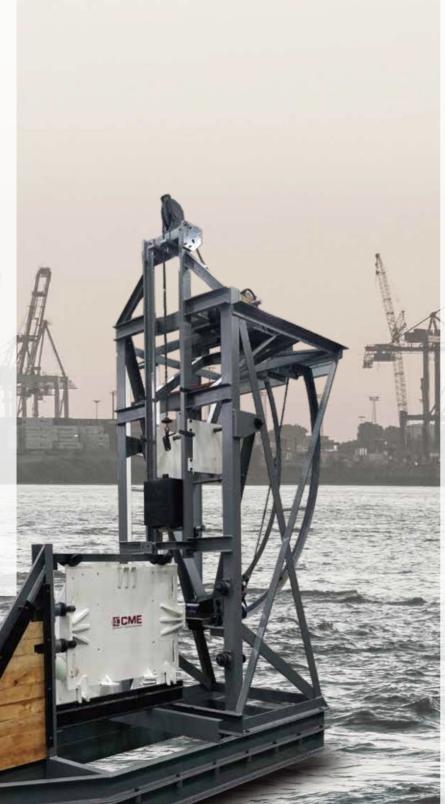
KRD16 HIGH IMPACT SHOCK TEST SYSTEM

High impact shock test system meets MIL-S-901D standard which covers shock testing requirements for ship board machinery, equipment, systems, and structures, excluding submarine pressure hull penetrations. The purpose of these requirements is to verify the ability of shipboard installations to withstand shock loadings which may be incurred during wartime service due to the effects of nuclear or conventional weapons.

TECHNICAL SPECIFICATIONS

Model	KRD16-1	KRD16-2		
Parameters	Lightweight	Medium weight		
Max Load (kg)	200	3000 (Including fixture≤3400)		
Pendulum Mass (kg)	182	1360		
Shock Form	Preset energy aut	omatic completion		
Drop Hammer Height (mm)	0 ~ 1500	0~1870		
	4A (Flat plate) 860×570			
Table Circ (mar)	4C- (Angle plate) 670×300	1520×1520		
Table Size (mm)	4C- (Angle plate) 670×300			
	4C-III (Angle plate) 670×550			
Overall Dimension (mm)	4800×1300×4500	3650×3300×3200		
Environment	Temperature range: 0 ~ 40°	C, Humidity≤80% (non-condensing)		
Power	3-phase AC380	V±10% 50Hz		
Installation Site	According to the foundation drav	vings provided by the manufacturer		
Weight (kg)	3000	15000		
Standards	MIL-S	-901D		

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



KRD20 PNEUMATIC BUMP TEST MAC

The KRD20 series pneumatic bump test machine replaces the traditional mecha able for repeated impacts on electronic components, equipment and other ele transportation or working.



TECHNICAL SPECIFICATIONS

Model Parameters	KRD20-50	KRD20-100	KRD20-200	KRD20
Load (kg)	50	100	200	500
Table Size (mm)	500×500	600×600	800×800	1000×10
Bump Waveform				
Peak Acceleration(g)	3 ~ 150	3 ~ 120	3 ~ 100	3~8
Pulse Duration (ms)		2~30		3~3(
Bump Rate (Times/Min		1 ~ 120		
Overall Dimension(mm)	1050×1050	1090×1090	1050×1050	1300×1
	×1300	×1300	×1280	×165
Working Environment			Temperatu	ure range
Power				1-
Air Source				
Installation Condition	Fou	indation-free, t	he cement floo	r shall be
Weight (kg)	1500	1980	1925	3475
Standards				M

Note: The parameters in the table are for reference only, and the parameters agreed upon by the









Fully pneumatic drive good repeatability and

Control the frequen pressure to achieve co

Test time and collision it will stop automatica

		_								
500	KRD20-800	KRD2								
	800	1								
000	1500×1500	1800								
Ha	Half-sine Waveform									
0 4~60										
)	5~30									
1 ~ 100 1										
300)	1500×1500 ×1600	1800 ×1								
0~4	0°C, Humidity	≤ 80%								
phas	e AC220V±10%	6 50H								
	≤0.8MPa									
levele	ed and the wor	king d								
	around the	equipr								
	2800 7									
IT-ST	D-810 IEC68-2	2-27								
tore	arood upon k	w tho								

KRD17 BIDIRECTIONAL VERTICAL SHOCK TEST SYSTEM

KRD17 series pneumatic bidirectional vertical shock test system is the novel designed and developed for large specimens that cannot or are not easy to turn over, especially adopt for battery testing. It can complete vertical upward and downward shock test in one test stand without moving the UUT.

Pneumatic drive, no pollution to the environment

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One machine with multiple functions, one clamping, to complete the upward and downward shock and bump tests, with high efficiency

Built-in pneumatic brake mechanism, safe and reliable

One-machine management for control and measurement, convenient operation

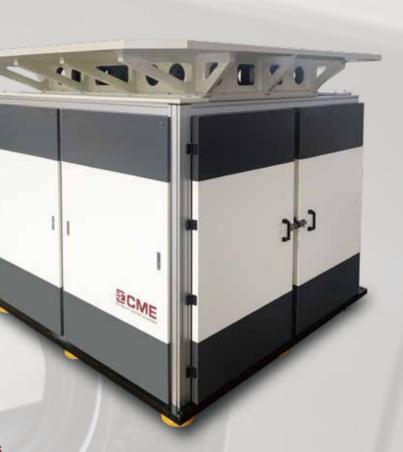
Air springs and dampers are used to reduce vibration, and free-foundation is optional

TECHNICAL SPECIFICATIONS

Parame	Model	KRD17-50	KRD17-100	KRD17-200	KRD17-500	KRD17-800	KRD17-1000	KRD17-2000	
Rated	Load (kg)	50	100	200	500	800	1000	2000	
Table	Size (mm)	500×500	600×600	800×800	1000×1000	1200×1200	1500×1500	2000×2000	
Shock	Direction	Downward							
	Half-Sine	10 ~ 750	10 ~ 600	10 ~ 450	10 ~ 300	10 ~ 250	10 ~ 200	10 ~ 150	
Peak vcc. (g)	Post-Peak Sawtooth	10 ~ 200	10 ~ 200	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	
	Trapezoid	15 ~ 200	15 ~ 200	15 ~ 100	15 ~ 100	15 ~ 60	15 ~ 60	15 ~ 50	
ulse	Half-Sine	1.5-60	2-60	2.5-60	4-60	4.5-60	5-60	6-60	
ouration ms)	Post-Peak Sawtooth		3~18		6~18				
	Trapezoid	3~	- 18			6~18			
Shock	Direction				Upward				
Shoc	k Wave	Half-sine Waveform							
ock Peak	Acceleration (g)	15 ~ 350	15 ~ 300	15 ~ 200	15 ~ 150	15 ~ 100	15 ~ 100	15 ~ 75	
nock Puls	e Duration(ms)	3.5-60	3.5-60	4-60	4.5-40	5.5-60	5.5-60	6-60	
verall Di	mension (mm)	1250×1250 ×1600	1250×1250 ×1600	1300×1300 ×1700	1350×1350 ×1750	1550×1550 ×1750	1650×1650 ×1850	2000×2000 ×1900	
Norking I	Environment			Temperature range (0∼40°C, Humidity	≤ 80% (non-conde	ensing)		
Po	ower			1-phas	se AC220V±10% 5	0Hz			
Air	Source				≤1MPa				
Installatio	on Condition	Special founda	tion, optional found	ation-free. The ceme shall be rese	ent floor shall be lev rved around the eq		ing distance of 80	0 ~ 1000mm	
Wei	ight (kg)	3000	3200	3500	4500	5000	6000	8000	
Sta	ndards	MIL-STD-810	EC68-2-27 UN38.3	IEC62281 IEC6213	33-2 UL2054 IEEE	1625 SAEJ2929 II	EC62660-2 ISO124	05-3 UL2580	
. 1 The	aramatara in th	a table are far refer					ell evenetil		

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.

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KRD14 PNEUMATIC VERTICAL SHOCK RESPONSE SPECTRUM TEST SYSTEM

KRD14 series pneumantic shock response spectrum tester is used to measure and determine the shock resistance of electrical and electronic products or packaging, and to evaluate the reliability and structural integrity of the test product in a shock environment. The shock response spectrum is the total result of a series of single-degree-of-freedom linear systems with different natural frequencies subjected to the same shock excitation response. When a product is subjected to an impact, the maximum value of its impact response means that the product has a maximum stress. Therefore, the shock response spectrum tester can better simulate the shock wave and shock energy suffered in the real environment.

- 1200mm table size withstand 1000kg load.
- Windows-based stable control system, full-automatic remote-control interface.
- The equipment takes up a small area and is easy to install.

The control & measurement system has built-in SRS specifications and tolerances, which is convenient for users to adjust and apply. It automatically completes the test and generates reports.

Adjust the driving shock energy by adjusting the air pressure, which is convenient to operate and high in efficiency.

TECHNICAL SPECIFICATIONS

Model	KRD14-20	KRD14-50	KRD14-100	KRD14-200	KRD14-500	KRD14-1000			
Load (kg)	20	50	100	200	500	1000			
Table Size (mm)	300×300	500×500	600×600	800×800	1000×1000	1200×1200			
Response Frequency Range (Hz)		10 ~ 10000							
Max. Response Acceleration (g)	50,000	30,000	25,000	15,000	10,000	5,000			
Gradient of Rising Stage (dB/Otc)	6~9								
Tolerance Range (dB)			±6 [·]	~ 9					
Overall Dimension (mm)	1300×850×1500	1420×865×1485	1200×1200×1650	1750×1100×1700	1900×1300×1800	2200×1500×2000			
Working Environment		Tem	perature range 0 ~ 40°	C, Humidity ≤ 80% (r	ion-condensing)				
Power			1-phase AC220	V±10% 50Hz					
Air Source			≤1MI	Pa					
Installation Condition	Foundation-	free, the cement floor	shall be leveled and the aro	he working distance o ound the equipment	of 800 ~ 1000mm sha	ll be reserved			
Weight (kg)	2000	3240	3800	4800	4500	5000			
Standards			MIL-ST	D-810	·				

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

KRD15 PNEUMATIC HORIZONTAL SHOCK RESPONSE SPECTRUM TEST SYSTEM

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.



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 ~ 10000						
Max. Response Acceleration (g)	15,000	12,000	10,000	8000	6000		
Gradient of Rising Stage (dB/Otc)	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 AC220V±10% 50H	Z			
Air Source			≤1MPa				
Weight (kg)	4000	4000 5300		7000	8000		
Working Environment	Special foundation	Special foundation, foundation-free base is optional. Temperature range $0 \sim 40^{\circ}$ C, Humidity $\leq 80\%$ (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.

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The system adopts 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.

A two-level safety cut-out is designed to fully protect the safety of operators.

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.

The operating software has the functions of shock response spectrum tester control, shock data collection, and response spectrum analysis.

KRD30 CONSTANT ACCELERATION TESTER (BOX TYPE)

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KRD30 series constant acceleration test machine is used to evaluate when components, equipment and other electrical and electronic products are subjected to constant acceleration environment (except gravity), whether the structure adaptability and performance are good, and obtain the units' electrical parameters.



- Advanced control system: Full-automatic computer remote real-time control interface. The operator only needs to input simple values to start the equipment and complete the acceleration test accurately.
- **User-friendly display interface**: the control interface can display the test curve, tolerance and test time in real time.
- **Powerful multi-acceleration continuous test system:** It can realize multi-level acceleration continuous test according to the different requirements of the test sample.
- **Reliable protection measures:** open circuit, over-limit and over-speed protection can be realized.
- Multiple control methods: In the case of automatic control failure or no need of automatic control, the device can still use manual control to complete the test.
- **Convenient and quick result output system**: After the test, the test report is automatically generated and printed out.

TECHNICAL SPECIFICATIONS

Model Parameters	KRD30-03	KRD30-05	KRD30-10	KRD30-20	KRD30-2M	KRD30-3M	KRD30-4M	KRD30-8M		
Load (kg)×Position	3×6	5×4	10×2	20×2	0.05×N	0.04×N	0.03×N	0.02×N		
Acceleration (g)	1~5	1 ~ 500		100	200 ~ 20k	200 ~ 30k	200 ~ 40k	200 ~ 80k		
Max. Height for Specimen (mm)	200 300			0						
Installation Radius (mm)	20	200 500			13	0				
Test Direction		±X、±Y、±Z								
Launch/Stop Time (min)						<3 <5				
Continues Worktime (min)	60				5					
Acceleration Accuracy (%)		≤3								
Slip Ring	Option	nal according t	o user requireme	ents	_					
Dimension (mm)	1100×110	00×1200	1850×15	520×950	1000×1000×1100					
Control Mode		Fully	closed-loop digit	tal network (ren	note) automatic con	itrol + manual con	trol			
Weight (kg)	10	00	15	00	1000					
Working Environment			Temperat	ture range 0 ~ 4	0°C, Humidity≤80%	(non-condensing)			
Power		3-phase AC380V±10% 50Hz								
Installation Condition	Founda	tion-free, the c	ement floor sha		d the working distar around the equipme		mm shall be rese	erved		
Standards		М	IL-STD-810 IEC	.68-2-7 MIL-S	D-202 MIL-STD-7	750 MIL-STD-883	3			

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. In addition to providing electrical signals, the slip ring can also optionally add transmission functions such as oil, gas, special signals, Ethernet, and RF signals.

KRD31 CONSTANT ACCELERATION TESTER (ARM TYPE)

KRD31 series constant acceleration tester are used to test articles under extreme acceleration conditions based on standard like MIL-STD-810F, MIL-STD-202 and IEC68-2-7.

It is most suitable for testing electronic components or devices. Under high g effect on microcircuits, to check adaptability and reliability of wiring and the internal structures. It may expose mechanical and structural defects that are not found with vibration and shock tests.



TECHNICAL SPECIFICATIONS

Model Parameters	KRD31-30	KRD31-50	KRD31-100	KRD31-100A	KRD31-200	KRD31-500	KRD31-1000	KRD31-1500
Max. Load (kg)	30	50	10	00	200	500	1000	1500
Acceleration (g)	3~100 3~50							50
Acceleration Accuracy (%)		≤±3						
Installation Platform Size (mm)	500×500	600×600	700	0×700	800×800	1000×1000	1200×1200	1500×1500
Specimen Installed Radius(mm)	1000	1200	1650	2150	2600	3000	5400	6250
Launch/Stop Time (min)		<u><</u>	3		≤	5	≤8	≤10
Max. Turning Diameter (mm)	2500	3000	4000	5000	6000	7000	12000	14000
Slip Ring	Optional according to user requirements							
Continues Working Time(min)				60			3	0
Inner Diameter of Foundation (mm)	Ф3000	Ф3500	Ф4500	Φ5500	Φ7000	Ф8500	ф14000	Ф16000
Control Mode			Fully closed-loc	op digital network	(remote) automa	atic control + man	ual control	
Weight (kg)	2500	4000	5000	5500	7000	8000	10000	12500
Working Environment		Temperature range 0 ~ 40°C, Humidity ≤80% (non-condensing)						
Power		3-phase AC380V±10% 50Hz						
Installation Condition			According	to the foundation (drawings provided	by the manufactur	rer	
Standards			MIL-STD-810	IEC68-2-7 MI	L-STD-202 MIL-	STD-750 MIL-ST	TD-883	

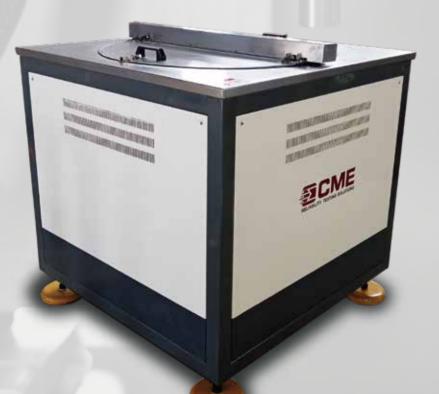
Note: 1. The parameters in the table are for reference only, and the parameters agreed upon by the supplier and the buyer shall prevail. 2. In addition to providing electrical signals, the slip ring can also optionally add transmission functions such as oil, gas, special signals, Ethernet, and RF signals.

MECHANISAL TESTING SOLUTIONS

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KRD32 NON-STANDARD CONSTANT ACCELERATION TESTER

KRD32 series non-standard constant acceleration testing machine is test equipment for military products to simulate dynamic centrifugal motion, dual-environmental force centrifugal motion and central high-speed rotating motion, so as to assess the anti-load performance of electronic components, small components and other electrical and electronic products and detect the anti-load performance specifications. It is mainly used for routine dynamic structural integrity and adaptability tests of components, small parts and small complete machine on aircraft.



TECHNICAL SPECIFICATIONS

Model Parameters	KRD32-1 KRD32-2 Dual-environment constant acceleration tester High-speed spin teste		KRD32-3 Centrifugal dynamic overload tester	KRD32-4 Spin shock compound teste	KRD32-5 r Centrifugal vibration r compound tester	
Max. Load (kg)	5	5	50	3	1000	
Max. Acceleration (g)	150		20	Shock 10000g–1ms	50	
Loading Rate (g/s)	Customized		10		Standard Electro-Dynamic Shakers specifications	
Rotating Speed (R/Min)	0 ~ 3000	0 ~ 100000		0~10000		
Installation Radius (mm)	Customized		1500		Customized	
Collector Ring	Optional according to user requirements					
Control Mode		Fully closed-loop digital	network (remote) automatic	control + manual control)		
Working Environment		Temperature ran	ge 0 ~ 40°C, Humidity ≤80%	(non-condensing)		
Power			3-phase AC380V ±10% 50H	Z		
Installation Condition	Foundation-free, working distance of 800 ~ 1000mm shall be reserved around the equipment According to the foundation drawings provided by the manufacturer					
Standards	MIL-STD-810 IEC68-2-7					



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only, and the parameters agreed upon by the supplier and the buyer shall prevail. collector ring can also optionally add transmission functions such as oil, gas, special signals, Ethernet, and RF signals.

Computer centralized control and measurement

> Fully digital network closed-loop remote control, high control accuracy

KRD40/41/42 DROP TEST SYSTEM

KRD41 series small drop tester is suitable for free-fall test of small consumer electronics and components.

KRD40 series drop tester, mainly simulates the resistance to drop and impact of large and heavy packaging products. It can realize the drop test of the edge, surface and angle of the sample. This equipment is mainly used to evaluate the ability of product or packaging to withstand drops during transportation and loading and unloading, so as to improve product and packaging design.

KRD42 series double-lift zero drop tester is mainly suitable for large size packaging products to resist drop impact performance, its powerful power system and unique sample support for easy loading and unloading of oversized, overweight items, and automatically rise to the set height, complete the drop test.

Driven by pneumatic and servo motors, stable $(\boldsymbol{\Sigma})$ lifting process with upper and lower displacement restrictions, safe and reliable;

Adopt single-track or dual-track lifting method, and the height can be adjusted arbitrarily;

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> It can clamp and drop the test specimen in different directions such as edges, faces and angles;

TECHNICAL SPECIFICATIONS

Model	Small d	lrop tester	Zero	o-distance drop te	nce drop tester Double lift zero-dis			stance drop teste	
Parameters	KRD 41-100	KRD 41-200	KRD 40-100	KRD 40-200	KRD 40-300	KRD 42-500	KRD 42-800	KRD 42-1000	KRD 42-2000
Max. Load (kg)	100	200	100	200	300	500	800	1000	2000
Drop Height (mm)	300 -	~ 1500		0 ~ 1500		0~1200	0 ~ 1000 0 ~		0~800
Max. Specimen Size (mm)	Depth 840	Depth 840	1000×1000 ×1000	1200×1200 ×1200	1300×1300 ×1300	1400×1400 ×1400	1500×1500 ×1500	1600×1600 ×1600	1800×1800 ×1800
Position Accuracy		$\pm 2\%$ or ± 10 mm (subject to the larger value)							
Drop Zone Size (W*D/mm)	1200×1200	1400×1400	1200×1200	1400×1400	1500×1500	2400×1600	2600×1700	2800×1800	3200×2000
Test Mode				Fa	ace, Edge and Ang	gle	<u>.</u>	<u> </u>	
Working Environment			Temp	erature range 0 ~	- 40°C, Humidity≤	80% (non-condens	sing)		
Power		1-phase AC2	220V±10% 50Hz			3-pha	se AC380V±10%	50Hz	
Installation Condition	Four	Foundation-free, the cement floor shall be leveled and the working distance of 800 ~ 1000mm shall be reserved around the equipment							
Standards				ISO2248-	1985(E) IEC68-2	2-27 ISTA			

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

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Fully automatic Omron PLC control; high-precision displacement sensor is equipped with high-precision collector;

No special foundation required, no other complicated operation or installation;

Optional handheld pad control + human-computer interaction system

KRD50

TRANSPORTATION SIMULATION

TEST SYSTEM

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.

> 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 techpology, the acceleration factor can be

- nology, the acceleration factor can be adjusted;
- AC variable frequency control;

No special foundation is needed, no other complicated operation or installation.

TECHNICAL SPECIFICATIONS

Model Parameters	KRD50-200	KRD50-300	KRD50-600	KRD50-1000	KRD50-2000	KRD50-3000	KRD50-4000	KRD50-6000
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 Truck Speed (km/h)		20 ~ 80						
Simulated Pavement		Intermediate pavement in tertiary highways & intermediate and low pavement in fourth highways						
Acceleration Level				1	:1			
Height of Specimen (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)	1700×850 ×1040	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 AC380	ñ10% 50/60Hz			
Standards		GB/T4857.15-89 QJ/T815.1-94 QJ/T815.2-94 GJB150.16-86						
Working Environment			Temperature r	ange 0 ~ 40°C, H	umidity≤80% (no	n-condensing)		

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

KRD51

TRANSPORTATION BOUI

TEST SYSTEM



TECHNICAL SPECIFICATIONS

Model Parameters	KRD51-100	KRD51-200			
Max. Load (kg)	100	200			
Displacement (mm) (P-P)					
Frequency					
Test Motion					
Height of Specimen COG(mm)	<500	<600			
Working Table Size (mm)	1700×1200	1900×1300			
Consumption Power (kVA)	8	10			
Overall Dimension (mm)	2100×1500×1200	2170×1570×1400			
Weight (kg)	1600	2800			
Power Supply					
Standards	ISTA-1A,1B, 2A, 2B 6-FedEx-B AS				
Working Environment	Tempe	rature range 0 ~ 40°C, H			

Note: The parameters in the table are for reference only, and the parameters agr



KRD60 3-DOF TEST SYSTEM

KRD60 series 3 DOF test system simulates various mechanical, electrical, and electronic products installed on ships, seaplanes, and other equipment to perform sway and tilt tests to determine the ability and structural integrity of the product to withstand severe sway and tilt requirements. The tilt test is mainly applicable to large-angle tilt caused by ship damage, manipulation, imbalance in loading and unloading, and wind. The sway test is mainly applicable to long-term swaying of the ship due to external forces such as wind and waves, which must be maintained normally or products that work reliably, and products that have a significant impact on their performance in a rocking environment.

- Based on the stable Windows OS and support automatic remote-control interface, the operator can accurately Ω complete the tilting and swing test by entering simple values.
- The operation interface is mainly based on the real-time display of data curve, it also can display the test Ω parameters, system status, and test progress.
- 👂 It can realize the functions of sine signal, self-closed loop adjustment, various function control and alarm prompt
- The functions of roll, pitch, head-roll and tilt tests can be performed on the same platform.

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

TECHNICAL SPECIFICATIONS KRD 60-100 KRD 60-5000 KRD 60-3000 KRD 60-8000 KRD 60-300 KRD 60-500 KRD KKD 0-1500 10000 Max. Load (kg) 100 300 500 1000 1500 2000 3000 5000 8000 ight of Specimer 300 500 700 900 COG (mm) Anale 0 ~ +10° awing Cycle 3s ~ 7s Angle 0~±45° Rolling 3s ~ 30s Cvcle Angle $0 \sim \pm 30^{\circ}$ Pitching Cycle 4s ~ 30s $0 \sim \pm 45^{\circ}$ Rolling Tilting Angle itching Tilting Angle $0 \sim \pm 30^{\circ}$ Control Mode Computer control and measurement 800×800 1000×1000 1500×1200 Table Size (mm) 1600×1300 1700×1500 1800×1600 3200×2100 3500×2800 4000×3000 3-phase 3-phase 3-phase 3-phase 3-phase 3-phase 3-phase 3-phase 3-phase Power AC380V±10% AC380V±10% AC380V+10% AC380V+10% AC380V+10% AC380V+10% C380V±10% AC380V+10% AC380V+10% 20kVA 22kVA 90kVA 70kVA 37kVA 45kVA 55kVA 110kVA 150kVA Vorking Environmen Temperature range: 0 ~ 40°C, Humidity ≤80% (non-condensing) nstallation Condition According to the foundation drawings provided by the manufacturer IEC60068-2 Standards

KRD61 6-DOF TEST SYSTEM

KRD61 series 6-DOF test system is a closed-loop servo simulation platform consisting of six servo actuators and six sets of dedicated hinges connected at the top and bottom platforms respectively. By virtue of the telescopic movement of the six actuators, the upper platform moves in six degrees of freedom (X, Y, Z, α , β , γ), so various space motion attitudes can be simulated.

It is widely applied as testing or training simulators in the field of aircraft, vessel, helicopters taking off and landing, automotive, train, earthquake, motion movies, entertainment equipment and other fields. It can even be used for docking of space spacecraft and for refueling of aerial tankers. In the processing industry, it can be made into six-axis linkage machine tools, smart robots, etc.

- It can realize posture simulation, sine wave simulation, single-DOF motion, and multiple-DOF composite motion.
- It can realize road spectrum filtering, road spec-> trum, wave spectrum, and flight spectrum replication.

TECHNICAL SPECIFICATIONS

Model Parameters	KRD 61-100	KRD 61-300	KRD 61-500	KRD 61-1000	KRD 61-2000	KRD 61-5000	KRD 61-10T	
Max. Load (kg)	100	300	500	1000	2000	5000	10000	
Height of Specimen COG (mm)	500 ~ 1000 (customized by product)							
Table Dimension (mm)		Customized by testing conditions						
Pitch			±10° /±2	0° /±35° (customi	zed)			
Roll		±10° /±20° /±35° /±45° /±60° (customized)						
Yaw	±10° /±20° /±35° (customized)							
Pitching Displacement (mm)	±50 / ±80 / ±100 / ±200 / ±300 / ±400 / ±500							
Rolling Displacement (mm)		±	50 / ±80 / ±100	/ ±200 / ±300 /	±400/±500			
Heaving (mm)		±	50 / ±80 / ±100	/ ±200 / ±300 /	±400 / ±500			
Standards	AC156 ISO 12405 ISO 13849-1 ISO 13090-1 ISO 2631-1							
Power Supply			3-phase	AC380V±10%, 50	OHz			
Working Environment	Temperature range $0 \sim 40^{\circ}$ C, Humidity $\leq 80\%$ (non-condensing)							
Installation Condition		Accordir	ig to the foundati	on drawings provid	led by the manufa	acturer		

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

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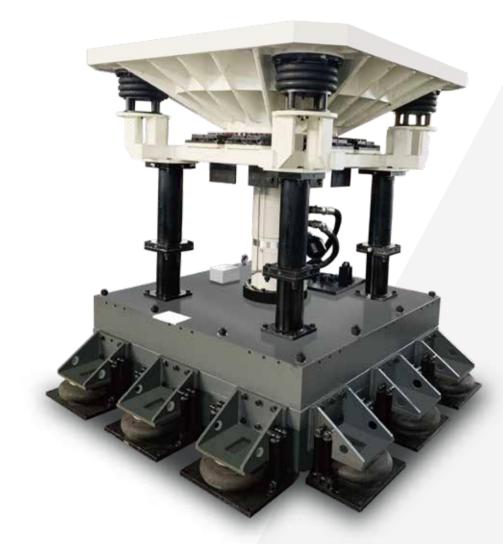
Provide third-party communication interface through TCP / IP protocol.

Provide internal and external data output control interfaces.

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.



Paramete	Model	KRD 70-5K	KRD 70-1T	KRD 70-2T	KRD 70-3T	KRD 70-4T	Кі 70	
Max. Sine	Force (KN)	5	10	20	30	40	Ę	
Frequency	Sine		0.1 ~ 200			150		
Range (Hz)	Random		0~	300			0	
Max. Load (kg)		100	200	400	600	800	10	
	placement (mm)		•	•				
Max. Velo	ocity (m/s)					0	6	
Table Si	ze (mm)	600×600	800×800	1000×1000	1200>	<1200		
Power Supply						3-pha	ase AC 50	
We	ight	2500	3000	3800	5000	6800	95	
Working E	nvironment				Tempera	ature range 0	~ 40°(
Installatio	n Condtion	Special foundatio						
Vibration	Direction	Verti						
Vibrati	on Mode	Sine, random, i						
Contro	ol Mode					Compu	ter cor	
Star	ndards					MIL-STE	0-810	
		Nc	ote: 1. The pa	rameters in th	e table are fo	r reference o 2. Force		
Ø				random vi hock tests;	bration,			

TECHNICAL SPECIE

It can be used to simulate seismic excitation and ammunition loading with low frequency and high force features.

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The high-strength cast aluminum or cast magnesium table ensures uniform and consistent vibration, high reproducibility, and avoids deformation of the table. **€**CME

ICATI	ONS							
KRD 70-5T	KRD 70-10T	KRD 70-20T	KRD 70-30T	KRD 70-40T	KRD 70-50T			
50	100	200	300	400	500			
0.1 ~	130	0.1 ~ 100 0.1 ~ 80						
0~200			0~	150				
1000	1500	3500	5000	7000	8000			
100	0							
1500×	1500	1800×1800	2000×2000	2500×2500	3000×3000			
AC380V± 50Hz	10%							
9500	9500	16000	21000	26000	31000			
0℃, Hum	idity ≤80% (n	on-condensing	g)					
ion, optio	nal free found	ation						
rtical / Hor	rizontal							
n, road spe	ectrum simula	ition						
control an	d measureme	ent						
0 IEC60	068-2 ASTM	D4728						
and the p	arameters ag	reed upon by	the supplier a	nd the buyer	shall prevail.			
splacemer	nt amplitude,	table size and	working frequ	iency can be	customized.			

KRD100 INCLINE IMPACT TESTER

KRD100 series incline impact tester simulates the ability of product packaging to resist shock damage in the actual environment, such as handling, stacking of shelves, sliding of motors, loading and unloading of locomotives, product transportation, etc. This machine can also be used as a common test equipment for scientific research institutions, colleges and universities, packaging technology test centers, packaging materials manufacturing plants, and foreign trade, transportation and other departments to conduct incline impact test.

> Flexible low-damping tackle, high repetition accuracy, to achieve the required speed change value.

High-strength and low-friction profile guide $\mathbf{\Sigma}$ rails are beneficial to the accurate free sliding of the block.

For heavy-duty test products, the horizontal rotation mechanism of the $\mathbf{\Sigma}$ composite pulley table can be added to facilitate the user to install the test pieces.

Hard wooden or iron slid- $\mathbf{\Sigma}$ ing table, effectively protect the surface of the test piece.

 $\mathbf{\Sigma}$

Complete control and measurement > system, simple and convenient operation, integrated control and measurement.

Unique lifting and release methods, with obvious advancement and reliability.

>

BCME

During installation, the customer only > needs to fix the machine on the ground, without other complicated operations or installation.

TECHNICAL SPECIFICATIONS

Model Parameters	KRD100-100	KRD100-200	KRD100-300	KRD100-500	KRD100-1000	KRD100-2000	KRD100-3000
Load (kg)	100	200	300	500	1000	2000	3000
Working Table Size (mm)	1100	1100×1100		1300×1300		2000×2000	2200×2200
Shock Panel Size (mm)	1600×2000		2100×2000		2000×2200	2400×2400	2600×2600
Incline Angle		10°±1°					
Shock Velocity Error		≤±5%					
Shock Velocity Range (m/s)			1.2 ~ 3.87			0.59	~ 2.35
Working Environment		Temperature range 0 ~ 40°C, Humidity ≤80% (non-condensing)					
Power		3-phase AC380V±10% 50Hz					
Installation Condition	Sp	Special foundation or embedded chemical anchor bolts or expansion bolts on the leveled concrete floor					
Standards				ISO2248 ISTA			

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

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KRD101 PACKAGING COMPRESSION TESTER

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ECME

KRD101 series packaging compression tester is designed to evaluate the compressive strength of packaging in order to prevent the product from deforming or being damaged during handling, stacking, storage, and transportation due to insufficient packaging strength. This machine is one of the main testing equipment for corrugated packaging performance and comprehensive indicators, and is an ideal testing equipment for papermaking, packaging, commodity inspection, scientific research and other departments.

- Conform to standards ISO2872 & ISO2874
- Based on the stable Windows OS and support automatic remote-control interface, the operator can accurately complete the compression test by entering simple values.
- The operation interface is mainly based on the real-time display of data curve, it also can display the test parameters, system status, and test progress.
- High-precision AD conversion, preamplifier, data processing and automatic test result output, digital control to ensure test accuracy and stable performance.
- > The strength test, fixed value test and stacking test can be realized on the same platform.

TECHNICAL SPECIFICATIONS

Measuring Range	$0.2 \sim 100 \text{kN}$ (can be customized)
Accuracy	2%
Platen Area	1200×1200mm² (extension plate is optional)
Working Stroke	0 ~ 1500mm (can be customized)
Pressing Speed	10mm / min (can be set arbitrarily)
Return Speed	0 ~ 120mm / min (can be set arbitrarily)
Foundation Requirements	Smooth cement floor
Standards	ISO2872 & ISO2874
Working Environment	Temperature range 0 \sim 40°C, Humidity ≤80% (non-condensing)
Power	3-phase AC380V±10% 50Hz

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



 Working Environment
 Tempe

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

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CLAMPING FORCE TESTER

KRD102 series clamping force tester is an indispensable test method for improving products into high-quality fields. It is suitable for research, development, quality control and manufacturing of electronics, electromechanical, optoelectronic, automotive, toy, packaging and other industries. It can simulate the situation that the goods in the container are clamped when they are transported from the container to the warehouse. Whether the goods are damaged due to the clamping, so as to evaluate the anti- clamping ability of the packaging.

The clamping force tester is a commonly used testing equipment for strength testing of scientific research institutions, colleges and universities, packaging technology testing centers, packaging material manufacturers, and foreign trade and transportation departments.

	KRD102-2
	20 ~ 2000
	1200×1200
	400 ~ 1200
	0 ~ 300
)	1200×700×900
	1500
PLC / PC controlled (optional)	
Flat cement floor	
3-phase AC380V±10% 50Hz	
erature range 0 ~ 40°C, Humidity ≤80% (non-condensing)	
ASTMD6055, American SEARS enterprise	
icator parameters can be customized by your requirements.	

TECHNICAL SPECIFICATIONS