Mode1

KS-Z021

Electromagnetic vibration tester

Technical Solutions

- 1. Advanced factory, leading technology
- 2. Reliability and applicability
- 3. Environmental protection and energy saving
- 4. Humanized and automated system network management
- 5. Timely and perfect after-sales service system with long-term guarantee

DONGGUAN KESION PRECISION INSTRUMENT CO.,LTD



Electromagnetic vibration tester



1.Product Introduction:

KS-Z021 series electromagnetic shaker is an economic, but super cost-effective a sine vibration test equipment (functions cover fixed frequency vibration, linear sweep vibration, logarithmic sweep, frequency multiplier, program, etc.), in the test chamber to simulate the vibration of electrical and electronic products in transport (vibration generated by ships, aircraft, vehicles, spacecraft), storage, use process and assessment of the vibration and its impact, and Its adaptability.

KS-Z021 series electromagnetic shaker is widely used in the product design, R&D and manufacturing process of automobile parts, instruments and meters, toys and other industries to simulate the collision and vibration of products in transportation and use, and to test the actual working condition and structural strength of products.

KESIONOTS®東莞市科訊精密儀器有限公司
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Citation Standards:

ISO 2247、ISO 13355、IEC 60068、ASTM D999、ASTM D4728、ASTM D3580、

GB/T 4857、GB/T 2423...

2.Product Features:

2.1 The same table to achieve X, single-axis vibration, program control,

accurate frequency, long-term operation without drift;

2.2 Stepless adjustment of amplitude, with sweeping and fixed-frequency

functions, adapting to the testing requirements of different industries;

2.3 embedded amplitude prediction program, four-point synchronous excitation,

uniform vibration on the table;

2.4 Increase the anti-interference circuit to solve the interference of the control

circuit due to strong electromagnetic field, the table surface without magnetism

and static electricity.

2.5 Made of composite industrial materials, precision processing, beautiful and

generous table, humanized operation and control, using special measurement

and control module, making the equipment work more stable.

3. Software Features:

3.KS-Z021 series shaker software system is developed independently by

CIMS+FCS, with completely independent intellectual property rights, and the

software is updated and upgraded for free for life;

- 3.2 The system software adopts real-time communication connection with the shaker body to ensure the accuracy of test parameters;
- 3.3 The software interface is intuitive and simple, a variety of test mode partition settings, a key directly;



- 3.4 The system software can be connected to the computer through the data line to store, output, or edit the test results;
- 3.5 The control system adopts the brand high-sensitivity touch color LCD display, direct touch option, test parameter setting intuitive and simple, timely display of the current execution program, timely display of the current vibration frequency, drawing frequency curve function;
- 3.6 Application of vibration sensing technology devices, external vibration acceleration sensor can be connected, real-time feedback on the testing process.



4. Technical parameters:

Product Model	KS-Z021	
FM range	5 ~ 600(Hz)	
Frequency accuracy	0.1 Hz	
Stimulation force	200kgf	
Product Load	50(Kg)	
Vibration Direction	Single axis (X) axis	
Vibrating platform	(W)500×(D)500 (mm)	
Maximum acceleration peak	20g	
Amplitude(mm)	0—5	
Control method	7 inch industrial touch screen (CTM70IP)	
Stimulation method	Electromagnetic type	
Amplitude adjustment method	Electronic amplitude control	
Vibration waveform	Sine wave	
Set time range	0-9999H/M/SPoints can be set arbitrarily	
Number of cycles	0-9999 Arbitrary settings	
Software Features	Support Windows97, Windows98, Windows10,	
Data Export	Excel , PDF	

Port RS232-USB Over temperature, phase loss, short circuit, over current, over **Security Protection** load Cooling method Air-cooled Test Mode Sine vibration test at the selected frequency (can be resonant frequency, specific frequency, or dangerous frequency) at the specified amount and for the specified required time. **Fixed** 定频振动 实际频率: 50.0 HZ frequency test 加速度设置 频率设定: ▶ 50.0 HZ In the specified frequency range, according to the specified amount of value to a certain scan rate from low frequency to high frequency, and then from high frequency to low frequency as a sweep, until the total number of times or time specified. 扫频振动 实际频率: Frequency 23. 1 нz 加速度设置 sweep test In logarithmic mode, the low-frequency scan speed is slow and the Logarithmic high-frequency scan speed is fast, and the logarithmic sweep is done test in 1 minute, and the sweep rate is doubled in 1 minute.

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	对数振动	日期 21/07/13 时间 17:59:37 星期 天		
	实际频率:	SV PV		
	61.7 Hz	垂直振动 ▶ 60 MIN ▶ 0 MIN		
	加速度设置	前后振动 ▶ 30 MIN ▶ 0 MIN		
	振 Wii 0.62 mm	左右振动 ▶ 30 MIN ▶ 0 MIN		
	加速度: 4.80 ε	循环次数 ▶ 1 次 ▶ 0 次		
	低频: ▶ 50.0 HZ 加速时间: ▶ 高频: ▶ 400.0 HZ	60 s 模式选择 曲线 停止 启动		
		<u> </u>		
	Random vibration is a kind of non-deterministic vibration. When an object vibrates randomly, it is impossible to determine in advance the			
	instantaneous values of the motion	on parameters at a certain monitoring		
	point on the object at some future	e time		
	随机振动			
	实际频率:	日期 21/07/18 时间 17:53:30 <mark>星期</mark> 天 SV PV		
Randomized	头称频率: 146.5 HZ	垂直振动 ▶ 60 MIN ▶ 0 MIN		
twice le		前后振动 ▶ 30 MIN ▶ 0 MIN		
trials	加速度设置	左右振动 ▶ 30 MIN ▶ 0 MIN		
	振 幅: 0.11 mm 加速度: 4.80 g	循环次数 · 1 次 · 0 次		
	дижъест 4.00 б			
	随机频率:	模式选择		
	低频: ▶ 20.0 HZ			
	高频: ▶ 500.0 нд	停止启动		
	According to the test demand on	an set different test frequency time		
	According to the test demand, can set different test frequency, time, can be a single group or multiple groups.			
Drogram tost				
riogram test				

Phone: 18688819178 E-mail: dgkesion@163.com 24-hour service hotline: 400-0769-815

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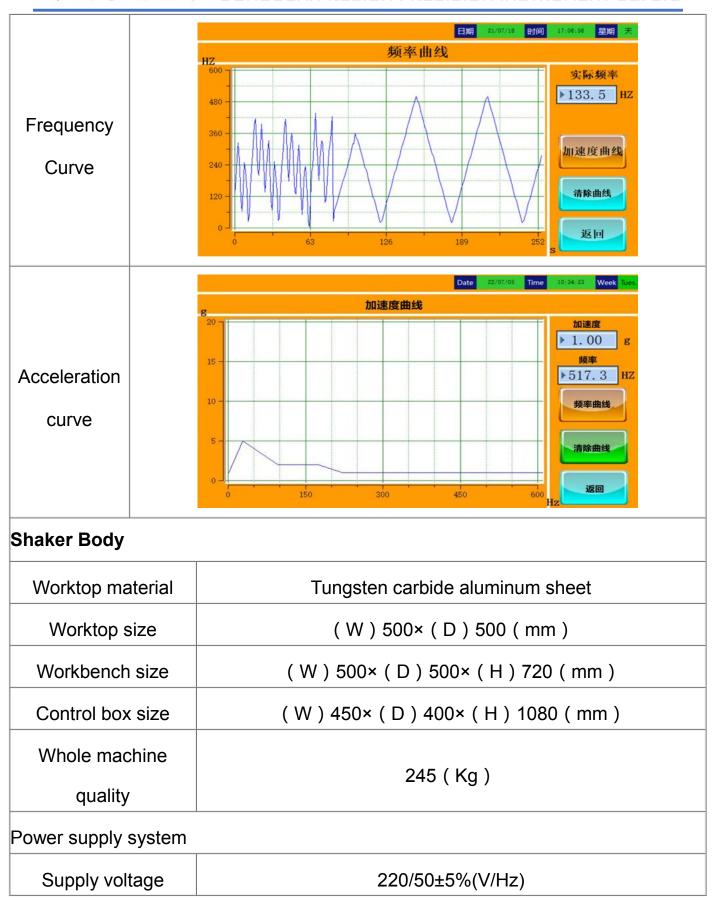


Octave sweep is continuous and its frequency should change with time according to the exponential law, sweep rate (sweep process of controllable variable frequency change rate of time df / dt) should be an octave per minute. There is a frequency range from $f1 \rightarrow f2 \rightarrow f1$ sweep a test time (acceleration time), through the formula: 6.644log10 (high frequency / low frequency) calculated from the results, and its sweep rate to ensure that the 1 octave / minute requirements.

Frequency doubling test



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Power consumption 1.5(KVA) Random Accessories 4 special rings, 2 telescopic straps, testing machine manual, factory inspection certificate, warranty certificate Usage environment

- 1、Temperature range: -40℃ ~ 40℃; Humidity range: 0-90%, no condensation.
- 2、The installation site has flat ground and sufficient load-bearing, no corrosive gas and less dust around.



24-hour service hotline: 400-0769-815