IMV VIBRATION TEST SYSTEMS **Mseries**

Low Acoustic Noise and Compact Range Air Cooled Vibration Test Systems **m030 / MA1-CE**



IMV compact shaker (m-series) applies a permanent magnet for magnet circuit and the table diameter is 7.5 inch. To increase the flexibility of system extension, DC Powered cooling fan is built-in to the shaker. In normal mode, it is used for durability testing with high performance. In natural air mode (without fan), it is suitable for squeak & rattle testing. System structure is specialized for high frequency test, maximum travel of armature is almost equal to 0. Displacement of double amplitude is 10 µm when excited with frequency 1 kHz and acceleration 13 g. With the extension flexibility of IMV's m-series with high precision multi-point control has broaden the range of vibration test, long and large sized specimens such as exhaust pipe etc is possible as well.

1. Compact and silent design

Silent type appropriate for abnormal noise inspection. DC powered cooling fan is built-into the shaker. Nature air cooling is also used when the cooling fan is stopped for silent operation. (with a reduction in performance.)

- Compact design
- Low noise (ideal for squeak and rattle testing)
- High precision measurement
- Low power consumption

2. m-series multi-axis system

A range of small-size systems, including 2-axis and 3-axis simultaneous systems, employing Integrated Cross Coupling Bearing Unit (ICCU) multi-axis armature / load support technology.



3. User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



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System Specification				
Frequency Range (Hz) *1 0-3,000				
	Sine (lbf)	67		
Rated Force	Random (lbf rms)	47		
1 0100	Shock (lbf)	67		
	No Load (g)	51		
Maximum Acc.	0.5 kg Load (g)	28		
71001	1.0 kg Load (g)	19		
Maximum Ve	63			
Maximum Di	1.0			
Maximum Lo	33			
Power Requi	0.4			

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Vibration Generator (m030-CE)			
Armature Support Method	Diaphragm spring		
Armature Mass (lbs)	1.3		
Armature Diameter (ϕ in)	4.5		
Mass (lbs)	49		
Power Amplifier (MA1-CE)			
Power Amplifier (M	A1-CE)		
Power Amplifier (M. Maximum Output (kVA) * ²	A1-CE) 1.0		
 Maximum Output (kVA) *2	1.0		
 Maximum Output (kVA) *2 Mass (lbs)	1.0 55		

Cooling				
Blower	House	Housed in vibration generator		
Environmental Data				
Power Requiremen	0.4			
Input Voltage Supp	100V or 200-240 V ±10% 50/60 Hz			
Working Ambient	Temperature (°F)	32-75		
Condition	Humidity (%RH)	0-85		



*2) Power supply: single-phase AC100 V/200 V or AC110 V/220 V or AC120 V/24 0V \pm 10 % 50/60 Hz.

A transformer is required for other supply voltages.

*3) Longer external cables are provided as an option.



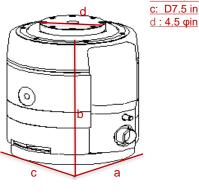
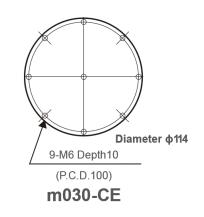
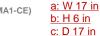


Table Insert Pattern (unit:mm)



Amplifier (MA1-CE)









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