IMV VIBRATION TEST SYSTEMS J series

Air-cooled Vibration Test Systems

J250/SA5HAG J250/EM5HAG





Long duration shock tests require high velocity and large displacement. J-series is a high-frequency system that offers usability and durability furnished with functions that accommodates high velocity and displacement testing.

[Expanded maximum test range]

- Maximum velocity of Sine force: 2.4 m/s
- •Maximum velocity of Shock force: 4.6 m/s
- Maximum displacement: 100 mmp-p

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[All models can be directly coupled to a climatic chamber.]

1 High Velocity and Large Displacement

High velocity of 2.4 m/s and Large displacement of 100 mmp-p (4 inch).



■PSG guide system

2 Improvement of Testing Environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.



2 User first principle

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



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System Specification			Vibration Gene	erator	
System Model		J250/ SA5HAG	J250/ EM5HAG	Armature Mass (kg)	
Frequency Range (Hz)		0-2,200	0-2,200	Armature Diameter (ϕ mm)	
Rated Force	Sine (kN)	35	35	Armature Resonance (Hz)	
	Random (kN rms) *1	35	35	Allowance Eccentric Moment (Nm)	
	Shock (kN)	70	70	Mass (kg)	
	High Velocity Shock (kN)*4	-	68		
Maximum	Sine (m/s²)	777	777	Power Amplifier 1	
	Random (m/s² rms)	544	544		J2
Acc.	Shock (m/s²)	1,555	1,555	Maximum Output (kVA)	
	High Velocity Shock (m/s² peak)*4	-	1,511	Mass (kg)	8
Maximum Vel.	Sine (m/s)	2.4	2.4		
	Shock (m/s peak)	2.4	2.4	Cooling (VAPE710	
	High Velocity Shock (m/s peak)*4	-	3.5	Mass (kg)	
Maximum Disp.	Sine (mmp-p)	100	100	Environmental D	
	High Velocity Shock (mmp-p)	-	100	Input Voltage Supply $(3\phi, V)$	
Maximum Travel (mmp-p)		120	120	Compressed Air Supply (Mpa)	
Maximum Load (kg)		600	600	Working Ambient Shaker	(°C)
Power Requirements (kVA)*2		53	53	Temperature Amplific	er (°C)
Breaker Capacity (A)*3		100	100		
	: 3-phase 380/400/415/440 V, 50/60 Hz. A city for 480 V.			tet IMV or your local distributor with specific test req supply voltages.	uirements.

Vibration Generator (J250)		
Armature Mass (kg)	45	
Armature Diameter (ϕ mm)	440	
Armature Resonance (Hz)	1,700	
Allowance Eccentric Moment (Nm)	1,550	
Mass (kg)	3,500	

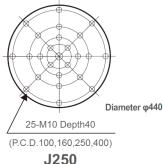
Power Amplifier	1BGH5- J250	2BGH5- / J250
Maximum Output (kVA)	50	
Mass (kg)	880	930

Cooling (VAPE710/P2R)					
Mass (kg)	250				
Environmental Data					
Input Voltage Supply (3 ϕ , V)		380/400/415/440			
Compressed Air Supp	0.6				
Working Ambient Temperature	Shaker (°C)	0-40			
	Amplifier (°C)	0-85			

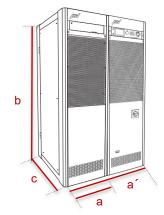


a: W 1,463 mm Table Insert Pattern (unit: mm) b: H 1,301 mm

c: D 1,100 mm d: 860 qmm



Amplifier (1BGH5-J250/2BGH5-J250)



1E	3GH	5-J2	250

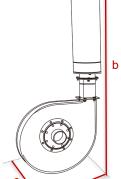
a: W 580 mm b: H 1,950 mm c: D 850 mm

2BGH5-J250 a': W 1,160 mm

b: H1,950 mm c: D 850 mm



a: W 1,160 mm b: H 2,405 mm c: D 787 mm



The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%. Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%.

*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock

*Frequency range values vary according to the sensor and vibration controller.

*Armature mass and acceleration may change when a chamber is added.

*4 For high velocity option

