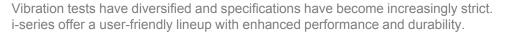
# IMV VIBRATION TEST SYSTEMS series

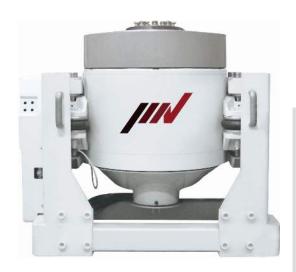
### Air cooled Vibration Test Systems

# i250 / SA5AM EM2502A



#### [Expanded maximum test range]

Max. velocity of Sine force: 2.4 m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100mmp-p [Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise. [All models can be directly coupled to a climatic chamber.]



#### 1 High durability with PS guide

PS guide (parallel slope guide) is an upper support system conforming to continued vibration testing at high velocity.



■PS 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.



#### 3 User first principle

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





# IMV VIBRATION TEST SYSTEMS series

#### Air cooled Vibration Test Systems

## i250 / SA5AM EM2502A



System Specifications				
System Model		i250/SA5AM	<b> € € € € € € € € € </b>	
Frequency Range (Hz)		0-2500		
Rated Force	Sine (kN) *1	40		
	Random (kN rms)	40		
	Shock (kN)	80		
Maximum Acc.	Sine (m/s <sup>2</sup> )	1142		
	Random (m/s² rms)	800		
	Shock (m/s <sup>2</sup> )	2284		
Maximum	Sine (m/s)	2.2		
Vel.	Shock (m/s peak)	2.2	2.2(3.5)* <sup>3</sup>	
Maximum Disp.	Sine (mmp-p)	51		
	Maximum Travel (mmp-p)	68		

Vibration Generator (i250)			
Armature Mass (kg)	35		
Armature Diameter ( $\phi$ mm)	440		
Armature Resonance (Hz)	1900		
Allowance Eccentric Moment (N·m)	1550		
Maximum Payload (kg)	600		
Mass (kg)	3000		

- \*1) Random force ratings are specified in accordance with ISO5344 conditions.
- \*2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages. \*3) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.
- Please contact IMV or your local distributor with specific test requirements
- \* The specification shows the maximum system performance
- For long-duration tests, de-rating by up to 70 % must be applied. Continuous use at maximum levels may cause failure.
- \* In the case of Random vibration test, please set the test definition of the peak value of acceleration
- waveform to be operated less than the maximum acceleration of Shock.
- \* Frequency range values vary according to sensor and vibration controller.

Cooling Blower				
Model				
Mass (kg)				
Environmental Data				
Power Requirement (kVA) *2				
Input Voltage Supply (3 $\phi$ , V)				
Compressed Air Supply (Mpa)				
Temperature (°C)	0 - 40			
Humidity (%RH)	0 - 85			
	ronmental Data (A) *2 φ, V) (Mpa) Temperature (°C)			

		250		1 131	' (/,	<b>₹</b>	
Envi	ronmental Data						
irement (kVA) *2		57			$\forall$		
e Supply (3φ, V)		380/400/415/440			$\checkmark$		
Air Supply (Mpa)		0.6					$\downarrow$
bient	Temperature (°C)	0 - 40	/	C			b
DIETIL	Humidity (%RH)	0 - 85				S. S.	•
						7	$\downarrow$
Do	wor Amplifiar						$\checkmark$

b	

 $\epsilon$ 

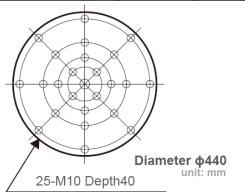
#### Shaker

Model: i250

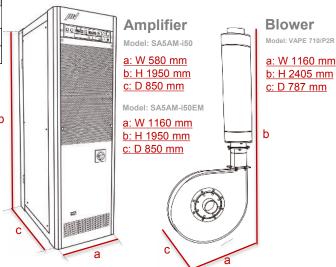
a: W 1463 mm b: H 1187 mm c: D 1100 mm

d: 860 mmm

Power Amplifier				
SA5AM-i50				
50	50			
880	930			
	SA5AM-i50 50			



(P.C.D.100,160,250,400) i250



**IMV CORPORATION**