# IMV VIBRATION TEST SYSTEMS K series

Water cooled Vibration Test Systems

# K350 / SA36HAM EMK3501A





K series vibration test system is ideal for testing of large sized specimen with high acceleration test requirements, in the field of electronic assemblies, automotive parts, aviation, avionics parts satellite. K series is designed to meet international test standards including IEC, ISO and JIS.

IMV's patented upper (armature) support system; Parallel Slope Guide has improved the durability of the system extending the lifetime of the upper guidance system, with a lifetime of up to several times greater than the other standard shaker. Extended displacement available up to 100 mm (4 inch) with K series.

# ① High Excitation Force and Long Stroke

Force rating up to 200 kN, wide frequency range up to 3,000. To allow long stroke testing, maximum displacement 100 mm (4 inch) is available with K125LS shaker.



■PSG guide system

### 2 Easy maintenance

- All connections of electricity and water are in the upper part of the armature.
- It is easy to inspect and change the armature



# (3) Improvement of Testing Environment

No exhaust noise of the cooling blower. Further, with the operation of intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.



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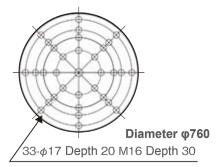
System Specifications				
System Model		K350/SA36HAM	<i>♠</i> EMK3501A	
Frequency Range (Hz)		0-2000		
Rated Force	Sine (kN)	350		
	Random (kN rms)*1	315		
	Shock (kN)	700		
Maximum Acc.	Sine (m/s²)	1000		
	Random (m/s² rms)	700		
	Shock (m/s²)	2000		
Maximum Vel.	Sine (m/s)*3	2.0		
	Shock (m/s peak)	3.5		
Maximum Disp.	Sine (mmp-p)	76.2		
	Maximum Travel (mmp-p)	94		

Vibration Generator (K350)				
Armature Mass (kg)	350			
Armature Diameter ( $\phi$ mm)	760			
Armature Resonance (Hz)	1300			
Allowance eccentric moment (N·m)	4900			
Maximum Payload (kg)	3000			
Mass (kg)	37000			

- \*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) If the tests (Sweep or Spot) include high velocity, the maximum velocity value should be reduced to 1.4 m/s. \* 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.

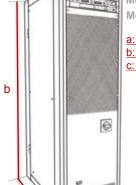
Heat Exchanger				
System Model				
Mass (kg)				
Environmental Data				
Power Requirement (kVA) *2				
Input voltage supply $(3\phi,V)$				
Compressed Air Supply (Mpa)				
Facility and line water flow (I /min)				
Facility cooling water flow (I/min)				
Temperature (°C)	0 - 40			
Humidity (%RH)	0 - 85			
	vironmental Da nent (kVA) *2 pply (3 φ , V) Supply (Mpa) ater flow (I/min)			

Power Amplifier				
System Model	SA36HAM-K350	EM36HAM-K350		
Max. Output [kVA]	400	400		
Mass [kg]	6200	6200		



(P.C.D. 203.2, 406.4, 558.8, 711.2)

K350



### Shaker Model: K350 a: W 3020 mm b: H 2306 mm c: D 2080 mm d:1630 qmm

### **Heat Exchanger** Model: VE-HE-220-SA

a: W 1200 mm

b: H 1950 mm

c: D 1400 mm

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Model: SA36HAM-K350 Model: EM36HAM-K350

**Amplifier** 

a: W 4060 mm b: H 1950 mm c: D 850 mm



unit: mm