IMV VIBRATION TEST SYSTEMS K series

Water-cooled Vibration Test Systems

K350/SA36HAG K350/EM36HAG



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.

eco-shaker



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System Specification					
System Model		K350/ SA36HAG	K350/ EM36HAG		
Frequency Range (Hz)		0-2,000			
Rated Force	Sine (kN)	350			
	Random (kN rms) *1	315			
	Shock (kN)	700			
	High Velocity Shock (kN)	-	700		
Maximum Acc.	Sine (m/s²)	1,000			
	Random (m/s ² rms)	700			
	Shock (m/s²)	2,000			
	High Velocity Shock (m/s²)	-	2,000		
Maximum Vel.	Sine (m/s)	2.0			
	Shock (m/s peak) *3	3.5			
	High Velocity Shock (m/s peak)	-	3.5		
Maximum Disp.	Sine (mmp-p)	76.2			
	Maximum Travel (mmp-p)	94			
Maximum Load (kg)		3,000			
Power Requirements (kVA) *2		325			
Breaker Cap	-				

- *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, 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
- *Frequency range values vary according to the sensor and vibration controller. *Armature mass and acceleration may change when a chamber is added.

Vibration Generator (K350)				
Armature Mass (kg)	350			
Armature Diameter (ϕ mm)	760			
Armature Resonance (Hz)	1,300			
Allowance Eccentric Moment (Nm)	4,900			
Mass (kg)	40,000			

Power Amplifier	SA36HAG- K350	EM36HAG Ø -K350
Maximum Output (kVA)	400	
Mass (kg)	5,450	

Cooling (VE-HE-220-SA)					
Mass (kg)	950				
Environmental Data					
Input Voltage Supply	380/400/415/440				
Compressed Air Supp	0.7				
Facility Cooling Water F	650 at Δt =5°C				
Facility Cooling Water F	229 at Δt=12°C				
Working Ambient Temperature	Temperature (°C)	0-40			
	Amplifier (°C)	0-85			

Vibration Generator (K350)

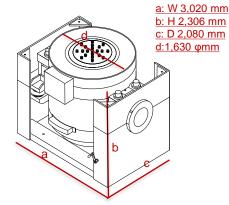
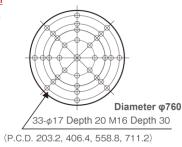


Table Insert Pattern (unit: mm)



K350

Amplifier (SA36HAG-K350S/EM36HAG-K350)

a: W 4,060 mm b: H 1,950 mm c: D 850 mm



a: W 1,200 mm b: H 1,950 mm c: D 1400 mm

