



# A-series

High Grade Range

**IMV-Smart™**

ECO-Shaker



A45/EM5HM  
(With a slip table)

## **A new standard created through listening to our customers.**

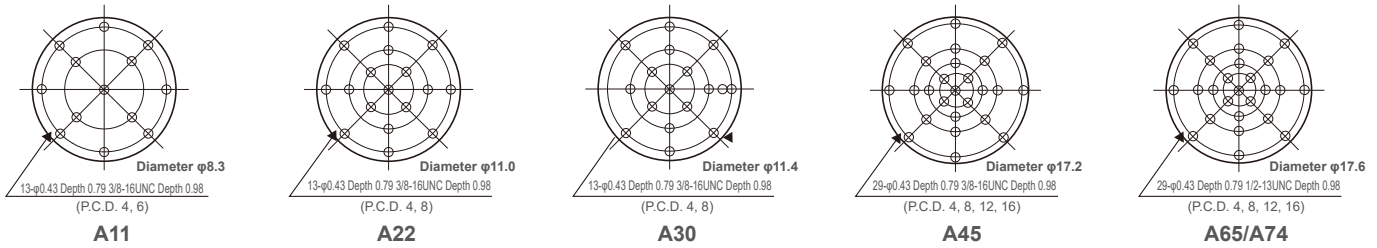
A wider range of test requirements and higher test specifications.

A-series meets the needs of a versatile test environment.

**IMV-Smart™** technology incorporates advanced, automatic energy savings, high performance, and a protected test environment.

A-series provides a better working environment for vibration testing.

**Table Insert Pattern** (Unit: inch)



**Specifications -Imperial-**

System Model		A11/EM1HAM	A22/EM2HAM	A30/EM3HAM	A45/EM4HAM	A65/EM5HAM*6	A74/EM10HAM*6	
System Specifications	Frequency Range (Hz)	0-4,500*4	0-3,300	0-2,600	0-2,600	0-2,600*5	0-2,600*5	
	Rated Force	Sine (lbf)	2,470	4,940	6,800	10,120	14,620	16,700
		Random (lbf rms)*1	2,470	4,940	6,800	10,120	14,620	16,700
		Shock (lbf)	4,945	9,890	13,500	20,240	29,240	50,000
		High-Velocity Shock (lbf)	3,710	8,090	11,250	18,000	27,000	38,200
	Maximum Acc.	Sine (g)	102	102	92	92	92	102
		Random (g rms)	65	65	65	65	65	65
		Shock (g peak)	204	204	185	183	184	204
		High-Velocity Shock (g peak)	153	166	154	163	169	204
	Maximum Vel.	Sine (in/s)	79	79	79	79	79	79
		Shock (in/s peak)	99	99	99	99	99	99
		High-Velocity Shock (in/s peak)	138	138	138	138	138	138
	Maximum Disp.	Sine (in-p)	2.0	2.0	3.0	3.0	3.0	3.0
		Maximum Travel (in-p)	2.5	2.5	3.2	3.2	3.2	3.2
Maximum Load (lbs)	441	661	882	1,323	2,205	2,205		
Power Requirements (kVA)*2	20.4	30	36	57	83	100		
Breaker Capacity (A)*3	30	50	60	100	125	175		
Vibration Generator	Model	A11	A22	A30	A45	A65	A74	
	Armature Mass (lbs)	24	49	73	110	159	164	
	Armature Diameter (φin)	8.3	11	11.4	17.2	17.6	17.6	
	Allowable Eccentric Moment (lbf-in)	2,600	6,200	7,500	13,700	13,700	13,700	
	Dimensions (in) W x H x D	37 x 33 x 27	41 x 37 x 31	44 x 42 x 33	49 x 48 x 41	52 x 50 x 41	52 x 50 x 41	
	Shaker Body Diameter (φin)	23	27	29	33	37	37	
	Mass (lbs)	2,381	3,527	4,409	6,614	7,720	7,720	
Power Amplifier	Model	EM1HAM-A11	EM2HAM-A22	EM3HAM-A30	EM4HAM-A45	EM5HAM-A65	EM10HAM-A74	
	Maximum Output (kVA)	12	24	31	44	68	100	
	Amplifier Bay (s)	1	1	1	2	2	3	
	Dimensions (in) W x H x D	23 x 77 x 34	23 x 77 x 34	23 x 77 x 34	46 x 77 x 34	46 x 77 x 34	69 x 77 x 34	
	Mass (lbs)	728	904	1,102	2,205	2,535	4,409	
Controller	Vibration Controller	See Vibration Controller K2						
	Cooling Method	Air cooling						
Cooling	Blower	Dimensions (in) W x H x D	28 x 56 x 31	28 x 61 x 37	28 x 61 x 37	51 x 84 x 33	45 x 94 x 36	58 x 111 x 37
		Mass (lbs)	309	474	474	644	781	705
		Wattage (kw)	3.7	5.5	5.5	11	18.5	30
		Duct Hose Diameter (φ)	4.92	7.87	7.87	9.84	9.84	9.84

\*1) Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements.  
 \*2) Power supply: 3-phase 220/480 V, 60 Hz. A transformer is required for other supply voltages.  
 \*3) Breaker capacity for 480 V.  
 \*4) Above 4,000 Hz, the force rolls-off at a rate of -6 dB/oct.  
 \*5) Above 2,000 Hz, the force rolls-off at a rate of -12 dB/oct.  
 \*6) An Export License is required for exporting the shaker system of over 11,240 lbf Sine force.  
 \* 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 sensor and vibration controller.  
 \* Armature mass and acceleration may change when combined with a chamber.  
 \* Mass and dimensions may change for CE-marked systems.



**IMV CORPORATION**

IMV America, Inc.  
 11520 Blair St., Holland, MI 49424, USA  
 sales@imv-usa.com  
 https://www.imv-usa.com

\*The specifications and design are subject to change without notice.