



Environmental Test Solutions

Electromagnetic Vibration Testing Systems

AEC offers various Electromagnetic Vibration Testing Systems, rated from 2kgf to 3,000kgf force and meeting various testing specifications. Used in research and a variety of industries, including aviation, automotive, military, electronics, computers, communications, medical and aerospace, this diversified and wide ranging product line provides test solutions for even the most demanding requirements.

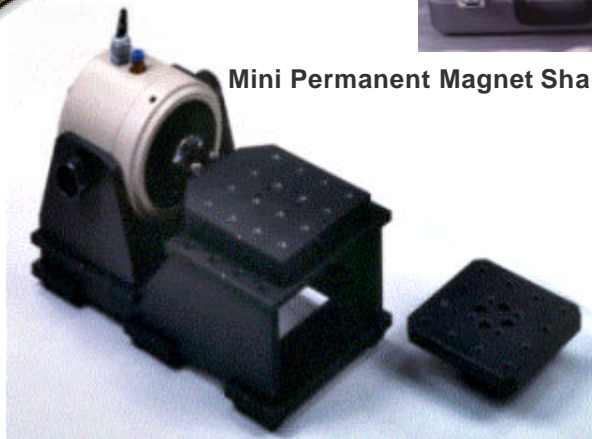
These systems are comprised of Electromagnetic Shaker, high-power Amplifier, versatile Shaker Controller, integrated Slip Table assemblies, Fixtures and Head Expanders, and Instruments and Accessories. It is featured with high horse power and loading capability, easy of operation, and high reliability. Customer specifications are also available.

Electromagnetic Shaker

Electromagnetic Vibration Testing Systems



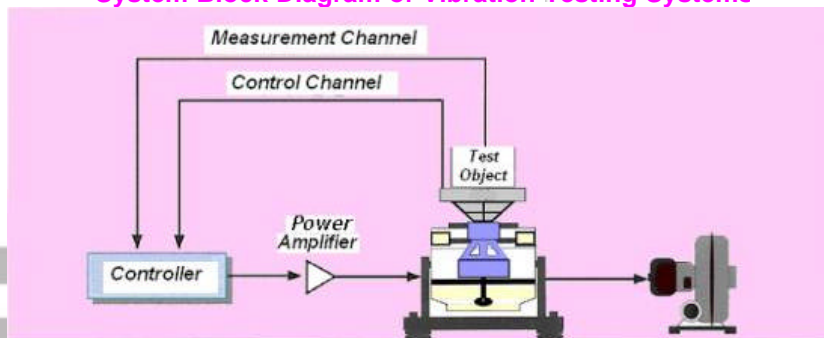
Portable Shaker Kit for Vibration Education



Mini Permanent Magnet Shakers



System Block Diagram of Vibration Testing Systems



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Specifications of Electromagnetic Shakers

Model	Portable	LT-2F4K-02N1	LT-5F4K-05N1	LT-30F4K-10N5	EM-100F4K-15N25
Rated Force (kgf)	2	2	5	30	100
Frequency Range (Hz)	4000	4000/20k	4000/10k	4000	4000
Max. Acceleration (g)	23	23	10	20	28
Max. Displacement (mm)	2	2	5	10	15
Max. Velocity (cm/sec)	-	-	45	90	126
Max. Payload (kg)	1	1	1	5	25
Armature Mass (kg)	0.1	0.1	0.5	1.5	3.5
Armature Diameter (mm)	32	32	40	40	140
Size of Machine (mm)	350 x 30 x 400	Ø105x90	300 x 250 x 290	360 x 300 x 400	600 x 480 x 600
Weight of Shaker (kg)	-	3.5	6.5	35	250
Functions/Options	<ul style="list-style-type: none"> ☒ 4 Sine Waves ☒ 4 Random Wave ☒ Memory Card ☒ External Input ☒ Signal Output ☒ LED Display 	<ul style="list-style-type: none"> ☒ Slip Table 100 x 100 (mm) ☒ Vertical Table 100 x 100 (mm) ☒ 300W Power Amplifier ☒ Function Generator 	<ul style="list-style-type: none"> ☒ Power Amplifier 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System

Model	EM-200F4K-25N50	EM-300F3K-30N80	EM-400F3K-30N80	EM-600F3K-40N120	EM-1000F2K-50N250
Rated Force (kgf)	200	300	400	600	1000
Frequency Range (Hz)	4000	3000	3000	3000	2000
Max. Acceleration (g)	36	34	44	50	66
Max. Displacement (mm)	25	30	30	40	50
Max. Velocity (cm/sec)	160	190	190	220	230
Max. Payload (kg)	50	80	80	210/250	250/400
Armature Mass (kg)	5.5	9	9	12	15
Armature Diameter (mm)	140	150	150	200	200
Size of Machine (mm)	660 x 650 x 720	730 x 660 x 750	730 x 660 x 750	900 x 900 x 900	1000 x 1000 x 900
Weight of Shaker (kg)	250	700	700	1300	1900
Functions/Options	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System

Model	EM-2000F2K-50N250S	EM-2000F2K-50N2504	EM-3000F2K-50N6004	EM-3000F2K-50N6006
Rated Force (kgf)	2000	2000	3000	3000
Frequency Range (Hz)	2000	2000	2000	2000
Max. Acceleration (g)	100	65	107	50
Max. Displacement (mm)	50	50	50.8	50.8
Max. Velocity (cm/sec)	230	230	140	140
Max. Payload (kg)	250/400	250/400	600	600
Armature Mass (kg)	20	31	31.6	40.8
Armature Diameter (mm)	260	450	440	640
Size of Machine (mm)	1500 x 1300 x 110	1000 x 1000 x 900	1042 x 1266 x 848	1042 x 1266 x 848
Weight of Shaker (kg)	3000	1900	3000	1300
Functions/Options	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System ☒ Large Armature 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System 	<ul style="list-style-type: none"> ☒ Power Amplifier ☒ Exhaust Fan and Tube ☒ Protection System

Specifications subject to change without notice

