

WIDE BANDWIDTH/ FREE OPERATING ENVIRONMENT

VE series Mini Shaker is a high precision, high reliability and wide frequency band vibration equipment developed by ECON on the basis of accumulated years of vibration control technology.

The frequency range is 2Hz-10,000Hz, and the force range is 20N-1,000N. The shaker is widely used in the fields of stress screening of small components, vibration testing of electronic components, sensor detection, vibration simulation of small civil structures, energy capture/recovery, modal excitation test, teaching and scientific research, etc.



Features

- Closed-loop control, high-precision vibration excitation;
- Excellent structural design, exquisite and reliable;
- Advanced control system, precise and stable;
- Digital power display, accurate and visual;
- Small body, easy to move, convenient to use.

Applications

- Energy capture/recovery;
- Seismic simulation of small civil structures;
- Stress screening of semiconductor materials;
- Teaching and research.



■ Vibration testing of electronic components



■ Modal analysis of building structure



■ Teaching Demo System



■ Vibrational energy capture

Specification

System Model	VE-5102	VE-5110	VE-5120	VE-5150	VE-51100M
Sine Force Peak(N)	20	100	200	500	1000
Frequency Range (Hz)	5~10k	2~7k	2~8k	5~5k	2~6.5k
Max. Acceleration (m/s ²)	200	400	800	340	600
Max. Velocity (kg)	0.8	2	2	8	20
Max. Displacement p-p(mm)	5	13	13	10	25.4
Screw Dimensions (standard)	5×M5	5×M5	5×M5	5×M5	M6
Weight(kg)	5	18	18	55	130
Dimension(L×W×H)(mm)	165×150×160	245×210×240	245×210×240	315×284×280	472×394×510
Cooling Method	Natural Cooling	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Slip Table	Model	VE-5102ST	VE-5110ST	VE-5120ST	VE-5150ST
	Max. Acceleration(m/s ²)	49	49	79	79
	Frequency Range(Hz)	5~4k	5~3k	5~3k	5~2.5k
	Max. Displacement(mm)	5	10	10	10
	Dimension(L×W×H)(mm)	295×163×165	420×270×270	450×270×270	560×315×354
Weight(kg)	6.5	40	50	95	
Power Amplifier	Model	VSA-H40A	VSA-H181A	VSA-H751A	VSA-H102A
	Max. Power Output(VA)	40	180	750	1000
	Dimension(L×W×H)(mm)	—	455×490×110	455×505×110	445×505×110
	Weight(kg)	—	9.2	—	10.5
Notes	Built-in power amplifier	—	—	—	

VSA series Power Amplifier

VSA series

The VSA series high-performance power amplifier has a maximum output power of 1,000VA, energy conversion efficiency of 95%, frequency range from 0.1Hz to 10,000Hz, compatible with a variety of small shakers and exciters. Its built-in digital LCD display and push-button gain adjustment buttons enable precise control of output voltage/current and visual display of values. A variety of safety protection design and status indication, to ensure the safety performance of the equipment at the same time, can be easily troubleshooting.

Performance

- Low frequency to 0.1Hz;
- Excellent frequency response;
- High SNR and low harmonic distortion;
- Manual adjustment and multiple safety guarantees

