

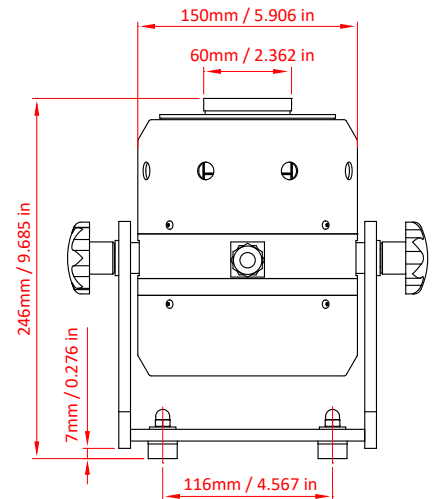
VR4022

The VR4022 is a permanent magnet shaker that is used for both modal and general purpose testing. The compact size and light weight make a very portable package. This size is ideal for desktop applications. This lightweight armature shaker runs higher test levels without forced air cooling. It's perfectly suited for testing of small transducers as well as electrical and mechanical assemblies. High lateral and axial stiffness reduce problems caused by off-center loads. Unsupported horizontal operation is possible on many loads. The frequency limit of 7000 Hz satisfies high frequency test requirements.



VR4022 SYSTEM SPECIFICATIONS

Sine Force	22F-lb pk
Random Force	15F-lb rms
Shock Force	31F-lb pk
Frequency Range	DC to 6kHz
Max Acceleration	45/30/45
Max Velocity	59ips
Max Displacement	.51" pk-pk
Power Requirements	120VA @ 120VAC 1Ø, 50/60Hz



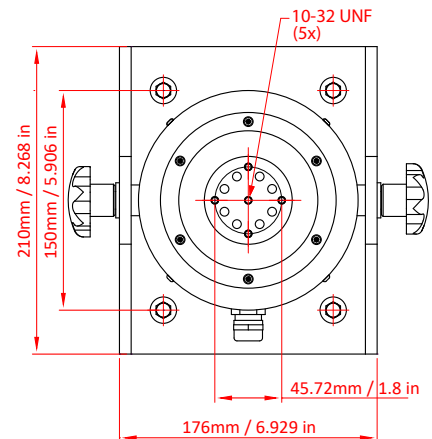
SHAKER PARAMETERS

PHYSICAL

Armature weight	.51lb
Suspension stiffness	45.7lbf / in
Dimensions	10.08"H x 9.76"W x 8.27"D
Shaker weight	26.46lbs
Rated armature current	5.5Amps
Fundamental resonance ¹	6.5kHz

LOAD DEPENDENT PERFORMANCE

Bare table	45g pk
.2lbs Load	32g
1lbs Load	15g pk
Cooling	Natural Convection



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Power Amplifier



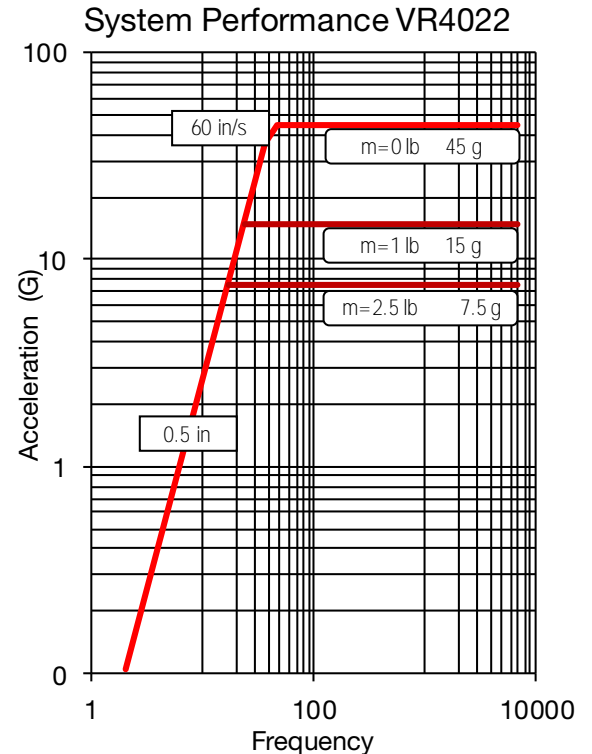
VR4022 SYSTEM OPTIONS

- Vibration isolation mounts
- Modal Stingers & Mounts
- Rack Cabinets
- Vibration Controllers
- Accelerometers

The system features a high quality, air cooled, direct coupled linear power amplifier. This amplifier is designed specifically for use with small, permanent magnet vibration systems. This amplifier has been designed to directly drive low impedance loads. It can be used in any application requiring continuous duty, high quality power. The amplifier features protection from both over an adjustable current limit and over temperature limit. This protection insures long term reliability. A quick connect power port connects to the shaker. The amplifier includes full interlock capabilities. A simple button inverts the output phase. A LCD display monitors peak voltage and RMS current. This amplifier is configured as either a wide bank, highly damped voltage source, or as a high impedance current source. DC and AC coupled inputs are included. The amplifier is designed for standard 19" rack mounted installation and requires 120, 220 or 240V 48-60Hz power.

AMPLIFIER PARAMETERS

Output voltage	22V rms
Output current	5.5A rms
Max. continuous dissipation	120VA
Max. voltage gain	<5 VRMS
Cooling	Fan, automatic
Input impedance	>10 kOhm
Meters	VRMS, ARMS
Interlock circuit	Overload, Temperature, Clipping
Input power	120 VAC
Dimensions	19"H x 3.5"W x 17.7"D
Weight	35.3lbs



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