

VR4600

The VR4600 is one of the largest of the current family of Vibration Research shakers. The large diameter armature adapts to many test requirements with a minimal amount of fixturing. High lateral and axial stiffness decrease problems associated with off-center loads. Unsupported horizontal operation is possible on many loads. The cooling blower is direct coupled to the shaker to give the maximum performance. An optional slip table is available for horizontal testing. Optional load supports allow testing loads with a high center of gravity. The suspension stiffness is adjustable. Electronic load compensation allows heavier loads.



VR4600 SYSTEM SPECIFICATIONS

Sine Force	606 F-lb pk
Random Force	449 F-lb rms
Shock Force	1348 F-lb pk
Frequency Range	2Hz to 4000Hz
Max Acceleration	98/73/148
Max Velocity	59/59/98 ips
Max Displacement	1.77" pk-pk
Power Requirements	4500VA @ 480VAC 3Ø, 50/60Hz

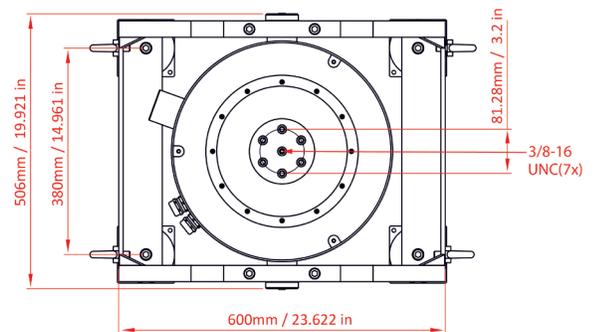
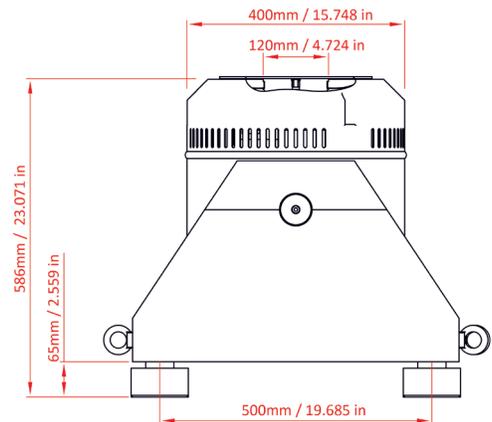
SHAKER PARAMETERS

PHYSICAL

Armature weight	6.2lb
Suspension stiffness	Adjustable
Dimensions	20"H x 23.25"W x 23.62"D
Shaker weight	617.3lbs
Rated armature current	40 Amps
Fundamental resonance ¹	>3700Hz

LOAD DEPENDENT PERFORMANCE

Bare table	98Gpk (sine)
.5lbs Load	55Gpk (sine)
10lbs Load	37.5Gpk (sine)
Cooling	Cooling Blower



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Power Amplifier

The power amplifier A10111010TVR consists of a 19" cabinet with 31RU. The displaceable cabinet contains the measuring and control electronics, the voltage supply unit, the power amplifier modules, the field supply unit of the vibration exciter, the middle control unit, the connection for the air-cooling fan and the supply unit for the demagnetization unit, so that the complete vibration testing system can be fed from one power supply point. The A10111010TVR is an air-cooled, single axis pulse width modulated amplifier, having a nominal output of 4200VA. The amplifier offers exceptionally low output noise, extremely high bandwidth and excellent stability. Utilizing advanced hybrid digital and analog control architecture, the A10111010TVR provides a host of powerful features. These include digital tuning, digital set-up, diagnostic tools, programmable protection for loads, and more. Quick-acting monitoring systems protect the amplifier reliably from any overloading.



VR4600 SYSTEM OPTIONS

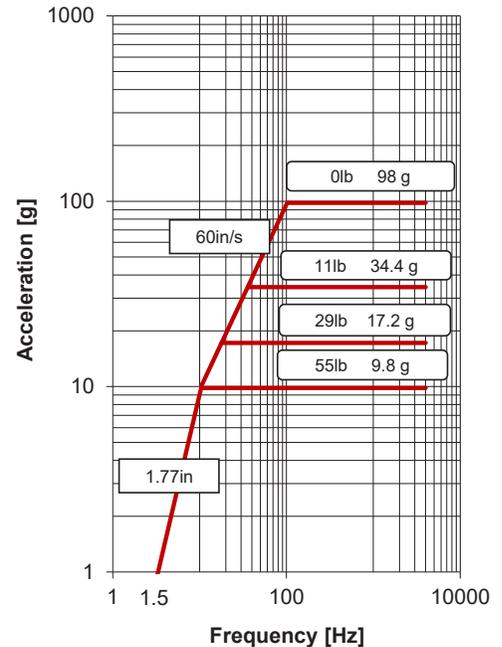
- Slip Table
- Metric Inserts
- Head Expander
- Rock Cabinets
- Vibration Controllers
- Accelerometers

AMPLIFIER PARAMETERS

Output voltage	105V rms
Output current	40A rms
Max. continuous dissipation	4200VA
Cooling	Fan, automatic
Input impedance	N/A
Meters	VRMS, ARMS
Interlock circuit	Overload, Temperature, Clipping and More
Input power	480 VAC
Dimensions	23.6"H x 70.9"W x 31.5"D
Weight	575lbs

System Performance VR4600

Force: 607F-lb pk max. Acceleration: 98g
 max. Velocity: 59in/s max. Displacement: 1.75in



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