



THE INNOVATOR IN
**SOUND & VIBRATION
 TECHNOLOGY**

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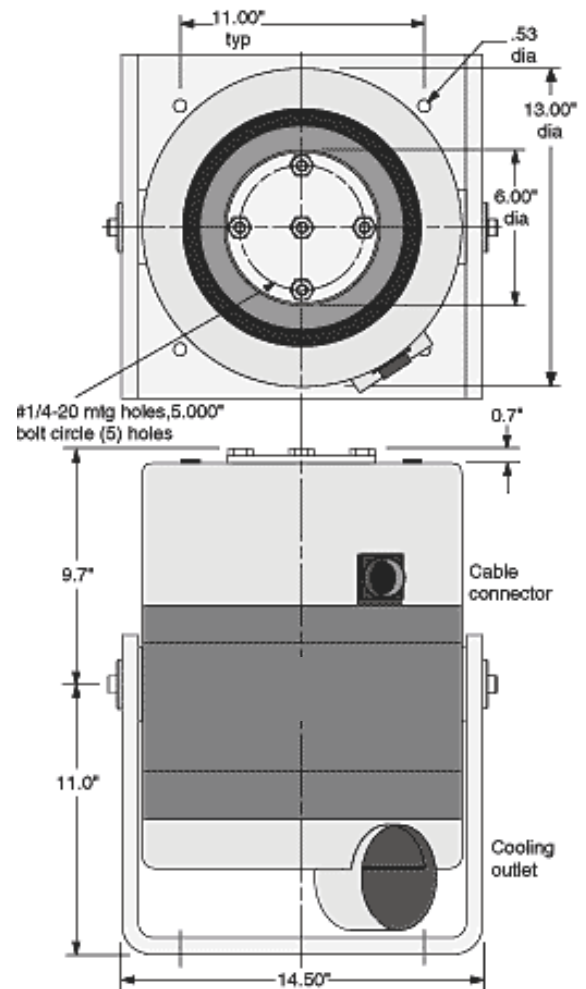
VR5800 **Electrodynamic Shaker**

The large 6" diameter armature table makes it easy to adapt to almost any test requirement with a minimum of fixturing. The high lateral stiffness carbon composite armature suspension reduces problems associated with off-center loads and allows unsupported horizontal operation with many loads. The VR5800 is equipped with a degauss coil to ensure low stray magnetic field for sensitive applications. The modular, air cooled amplifier is direct coupled to the shaker to give the maximum performance at low and high frequencies. Digital meters display the system operating levels and complete shaker and external interlocks help protect the system from accidental abuse. Oil film slip table base systems are available for larger and heavier loads or loads with high centers of gravity.



VR5800 SYSTEM SPECIFICATIONS

SINE FORCE	500F-lb pk
RANDOM FORCE	350F-lb rms
SHOCK FORCE	1,000F-lb pk
FREQUENCY RANGE	DC to 4,500Hz
MAX ACCELERATION	100g pk, bare table 50g pk, 5lb load 11g pk, 40lb load
MAX VELOCITY	70ips
MAX DISPLACEMENT	1" pk-pk
POWER REQUIREMENTS	5,200VA @ 100V*, 110V*, 200V, 208-230V 1Ø, 50/60Hz *request low line voltage operation details
COOLING	Cooling vacuum
ARMATURE WEIGHT	5lbs
SUSPENSION STIFFNESS	250F-lb/in
DIMENSIONS	21"H x 14.5"W x 14"D
SHAKER WEIGHT	475lbs
STRAY MAGNETIC FIELD	Measured 3" above table: <10gauss Measured 2" from body: <15gauss
FUNDAMENTAL RESONANCE	3,300Hz to 4,000Hz 3,700Hz typical



POWER AMPLIFIER

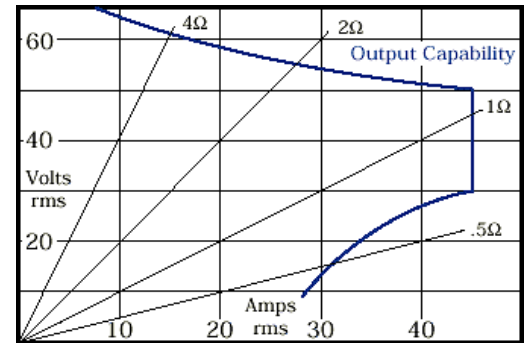
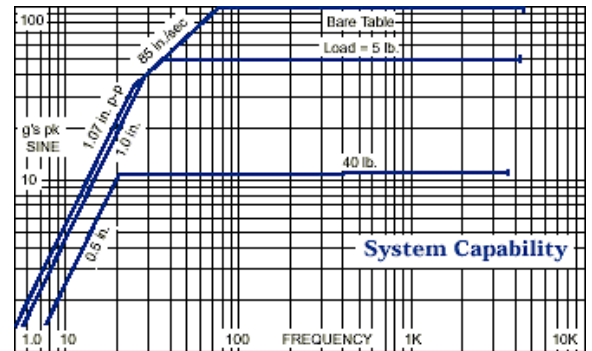
The amplifier houses a field and De-Gauss power supply specifically designed to drive the VR5800 shaker. It is a class AB, air-cooled unit with a power output of 2,600VA, and is made up of three separate interconnected chassis. The flexible modular design allows this amplifier to be configured for use with other shakers.

The Control Panel features a low noise preamplifier, amplifier output voltage and current metering, adjustable output current limiting, and complete interlock circuitry. The power and field supply chassis houses input power transformers, power supply circuitry, the shaker interface, shaker cooling blower power source, and field cooling interlock circuitry.



AMPLIFIER PARAMETERS

Output voltage	65V rms
Output current	40A rms
Max. continuous dissipation	2,250W
Max voltage gain	40dB
Cooling	2-speed fan, automatic
Input impedance	10,000ohms
Meters	Volts pk: 3-digit meter Amps rms: 3-digit meter
Interlock circuit	External, user: N.O./N.C. switch or TTL
Dimensions	28"H x 21"W x 20"D
Weight	280lbs



OPTIONS

- Vibration isolation mounts
- Metric inserts
- Pneumatic payload support
- Head plates & fixtures
- DuoBase horizontal/vertical table
- Vibration controllers
- Thermal chamber interface

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