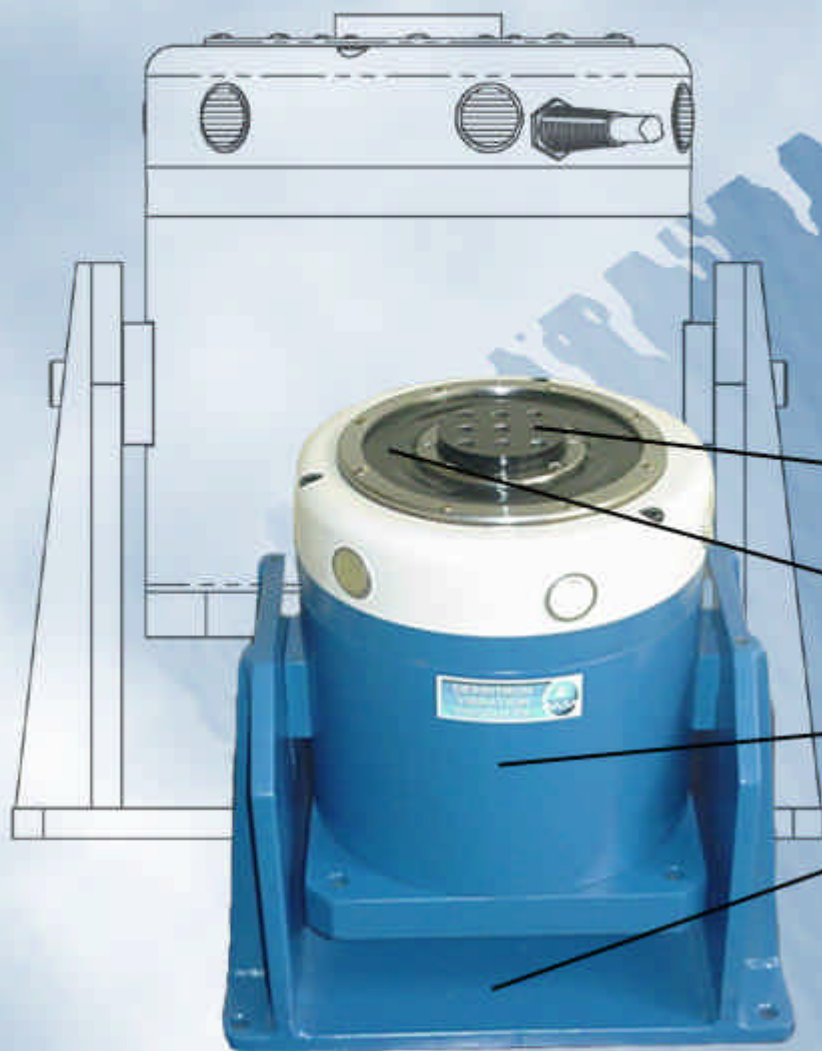


Derritron VP5

Features:

- 50 lbf (222N) Capability
- Sine, Random, & Shock
- High Lateral Stiffness
- High First Major Resonance
- Air-Cooled
- Trunnion or Base Mounting
- Modal Adapters



Stainless Steel Inserts

240 lbf/in Flexures

Permanent Magnet

Solid Trunnion Base

Applications

- Semiconductor Component
- Acceleration Calibration
- Structural Excitation (Modal)
- PC Card Testing
- Linear Actuator
- Piston Phone exciter

The Model VP5 incorporates many unique features which allow this 50 lbf shaker to be configured for a wide variety of vibration simulation applications. The high lateral stiffness of the guidance and suspension system makes it ideal for large structural analysis or Modal excitation. The high first major resonance allows calibration of piezoelectric transducers or testing of integrated circuits.



VP5 with Modal Adapter

Specifications

Parameter

Rated output force

Sine force	50 lbf pk (222 N) (force air cooled)
Random force	24lbf rms (106 N)
Shock Force	150 lbf pk, 11 msec pulse
Displacement	0.4" pk-pk (10.1mm), continuous
Velocity	60 inches (1.52m/s) per second pk
Acceleration	50 g pk, driven 90 g pk, resonant 95 g pk, shock pulse
Frequency Range	DC- 8,500 Hz, bare table

Physical Characteristics

Moving element weight	1.1 pounds (0.5 Kg)
Fundamental resonance	8500-8900 Hz
Rated armature current	30 A rms, max
Specimen mounting	9 internally threaded, replaceable stainless steel inserts (1/4-20 or M6) arranged on a 0.75" grid

Armature guidance and suspension system	Six Linen Phenolic Flexures for lateral and rotational restraint
Axial suspension stiffness	240 lb/in,(4.3 Kgf /mm)
Stray Magnetic Field	<15 gauss @ 4" above table mounting surface
Shaker weight	110 lbs (50 kg) Shaker only 153 lbs (70 kg)w/Solid Mount Base
Shaker cooling	Air cooled by suction type remote centrifugal blower w/ 5 ft hose
Heat dissipation	1700 BTU/hr @ 20 CFM max.

Environmental conditions

Ambient temperature	40° f to 100° F @ 85% RH max.
Force derating	Reduce 1% per 4° F
Options	<ul style="list-style-type: none"> ☒ Trunnion Base ☒ External Load Support ☒ Optional M6 inserts

"Give us a challenge, we will exceed your expectations."

