

Vibration Systems from 6000 lbf. to 8000 lbf.

The series of Derritron “High Performance Air Cooled” shakers are designed for a wide variety of dynamic test conditions including Sinewave, Random, Shock and Seismic simulations over a wide frequency range. We offer a complete turnkey solution for all of your testing needs by supplying complete Shaker, Amplifier and Controller packages at reasonable prices. These systems are indispensable for complete and thorough product testing.

Derritron shakers are designed to run for extended periods over a long life span. These rugged shakers offer high transverse vibration strength and high axial stiffness and can be operated in either vertical or horizontal mode. A built-in Automatic Load Support System allows the armature to remain stable even with high test loads. A high power blower insures proper cooling of the shaker and is included.



The standard Swivel Trunnion includes air isolation mounts to reduce the vibrations of the shaker from transmitting to the floor. The optional Air Isolated Trunnion is the optimal choice if you need to isolate the vibration of the shaker from the floor and also provides linear guidance of the shaker body. These shakers offer a variety armature head sizes to fully accommodate your test requirements and will allow you to verify and improve the quality of your products.

Technical Specifications:

	DVS-6000-13	DVS-6000-17	DVS-6000-25	DVS-8000-13	DVS-8000-17	DVS-8000-25
Shaker	VP600-13	VP600-17	VP600-25	VP800-13	VP800-17	VP800-25
Amplifier	DSA-36-6	DSA-36-6	DSA-36-6	DSA-48-6	DSA-48-6	DSA-48-6
Rated Peak Force (lbf) Sine/Random/Shock	6000/6000/12000	6000/6000/12000	6000/6000/12000	8000/8000/16000	8000/8000/16000	8000/8000/16000
Frequency Range (Hz)	DC-3000	DC-3000	DC-3000	DC-3000	DC-3000	DC-3000
Max. Displacement (In. pk-pk)	2	2	2	2	2	2
Max Velocity (in/s) Sine/Random/Shock	70/70/98	70/70/98	70/70/98	70/70/98	70/70/98	70/70/98
Max. Acceleration (g) Sine/Random/Shock	103/103/206	97/97/194	68/68/136	123/123/246	99/99/198	85/85/170
Rated Current (A)	200	200	200	300	300	300
Nominal Impedance (Ohm)	0.3	0.3	0.3	0.3	0.3	0.3
Suspension Stiffness (lbf/in)	856	856	856	856	856	856
Effective Moving Mass (lb)	58.4	61.7	88.2	63.9	79.4	92.6
Max Weight Tested (lb)	1345	1345	1345	1345	1345	1345
Main Resonance Frequency (Hz)	>2000	>2000	>2000	>2000	>2000	>2000
Weight With Swivel Trunnion (lb)	5842	5842	5842	5842	5842	5842
Weight With Air Isolated Trunnion (lb)	6349	6349	6349	6349	6349	6349
Stray Magnetic Field (G) Without/With DG Coil	200/5	200/5	200/5	200/5	200/5	200/5
Armature Size (in)	13.00	17.32	25.20	13.00	17.32	25.20
Interlocks	Temperature Overtravel Airflow	Temperature Overtravel Airflow	Temperature Overtravel Airflow	Temperature Overtravel Airflow	Temperature Overtravel Airflow	Temperature Overtravel Airflow

