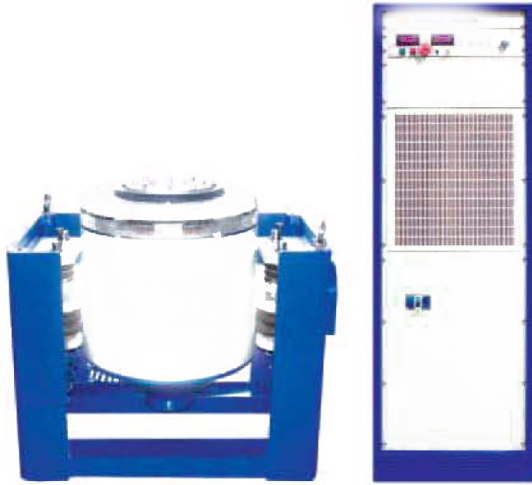




www.dynsolusa.com

100% AIR COOLED SHAKER SYSTEMS 2,200-15,400 LBF



FEATURES

- Air Cooled
- Sine Force Range:
1,000 kgf (2,200 lbf) to 7,000 kgf (15,400 lbf)
- Random Force Range:
1,000 kgf (2,200 lbf) to 7,000 kgf (15,400 lbf)
- Displacement Peak to Peak: 51mm (2")
- Large diameter, lightweight armature
- Double Field Coils (Upper and Lower) design
- Ultra-Compact energy efficiency amplifier
- Available combined with slip table
- Sine, Random and Transient Testing
- Standard cooling blower silencer
- Specially Designed Worm Wheel System for Vertical and Horizontal Operation

Typical Application

Dynamic Solutions medium force AIR COOLED vibration test systems offer versatile wide band frequency electrodynamic solutions for the majority of commercial test applications. Designed for payloads ranging from ten to 2,000 pounds, Dynamic Solutions offers 16 different models rated between 2,200 and 15,400 force pounds.

Reliably built for years of dependable service, every system is built, rated and tested in full compliance with ISO5344. Each system consists of an electrodynamic shaker mounted in a 180 degree rotating trunion base, a switching power amplifier with integral field power supply, cooling blower with silencer and all interconnecting cables and hoses.

Optional features include slip table assemblies, head expanders, thermal barriers and custom fixtures.

○ Wide Useable Frequency Range

Dynamic Solutions Air Cooled medium force shaker systems include our SA-series switching amplifiers based on state-of-the-art, high density IGBT power technology. Extremely efficient and compact, the SA series amplifiers operate from 5 to 3000Hz, with full spectrum output to 3000 Hz. with most systems.

○ High Fundamental Resonance Frequency

The unique armature designs of our air-cooled shaker series provide high fundamental resonance frequencies of 2,400 Hz or better on most models. Many models are available with various armature diameters to meet your specific testing needs.

○ Air Cooled

Dynamic Solutions medium force shaker series are 100% suction air-cooled by remote cooling blowers, making it easy to remove heat and noise from the test area.

○ High Overturning Moment

Dynamic Solutions medium force shakers use a dual armature guidance system consisting of upper and lower guidance mechanisms for increased stability when testing heavy payloads and test articles with high CGs. Optional bearing line tables and head expanders with external guidance are available for ultra heavy, unstable loads.

○ Standard Cooling Blower Silencer

All Dynamic Solutions medium force shaker systems include a silencer for the remote cooling blower which reduces the ambient noise generated by the system.

○ Automatic Internal Pneumatic For High Payload

Our superior pneumatic load support design and automatic armature positioning using an "OPCS" optical position centering sensor guarantee full nominal displacement, even with maximum payload, when testing in the vertical axis.

○ Worm Wheel System for Vertical and Horizontal Operation

Dynamic Solutions shaker systems are standardly equipped with a pneumatically isolated 180 degree rotating trunion base. All models are designed for use in the vertical or horizontal orientation and can be configured with a variety of optional slip table assemblies with or without a unitized base. An optional worm wheel feature can be applied to the trunion for optimal efficiency when changing axes.

○ Safety

Dynamic Solutions shakers systems include an emergency stop switch and a variety of interlocks and redundant safety systems to insure the safety of the operator and the equipment. As with all high density power electronics, shaker systems should always be run by a properly trained professional.

...equipment that is reliable
and affordable.

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