

Shock and Vibration for Extreme Conditions

Experior Laboratories is a MIL-STD-790 approved and ISO-17025:2005 accredited test facility



Experior Laboratories' MIL-STD-790 approved and ISO-17025:2005 accredited laboratory houses multiple state-of-the-art electrodynamic vibration shaker systems that can handle the most demanding vibration and shock test specifications.

For extreme vibration applications or large units, shakers can be used in tandem to provide a combined 50,000 lbf for testing large articles (example: 14 ft actuator for stage separation). Custom-made vibration fixtures and slip plates allow us to test parts of almost any shape and size.

Capabilities

- Sine sweep vibration: >220 G pk
- Random vibration: >175 G rms
- SRS Shaker Shock: >5,000G
- SRS Pyroshock Simulation: >30,000G
- Cleanroom option available
- Combined environment testing from -67° to 170° C
- Up to 128 channels of data recording
- Time history data recording up to 200kHz

Experior Labs uses shakers optimized for high G shock. Our shakers have inductively coupled solid metal coil armatures to prevent driver coil failure. Shakers with 3" stroke and 180 in/s of velocity allow for high G shock tests with large displacement requirements or short transients.

For near or midfield Pyroshock or SRS Shock requirements that exceed the limits of an electrodynamic shaker, Experior Labs uses a custom Kinetic Impact Pyroshock Simulation system which allows highly customizable shock generation at levels in excess of 30,000G.

Applications

- Sine Sweep
- Sine Dwell
- Sine Burst
- Random
- Sine on Random
- Random on Random
- Classical Shock
- SRS Shock
- Windmilling
- Gunfire
- Cargo & Transportation

Experior Laboratories...helping customers ensure the reliability of their products and reduce the overall time-to-market.

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