

# Shock and Vibration

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 shaker and shock systems that can handle the most demanding test specifications.



For large and/or heavy test articles, shakers can be used in tandem to provide a combined 80,000 lbf (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.

Experior Labs uses shakers with inductively coupled solid metal coil armatures to prevent driver coil failure, optimized for high G shock. 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 multiple custom designed Kinetic Impact Pyroshock Simulation systems which allow highly customizable shock generation at levels in excess of 30,000G.

## 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

## Applications

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

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

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