

"...A WIDE RANGE OF SHOCK AND VIBRATION TESTING SERVICES..."

[ESL MAIN](#)

[CLIMATIC](#)

[CORROSION](#)

[DYNAMIC](#)

[FACILITIES](#)

[MATERIALS](#)

[PACKAGE](#)

[PRESSURE](#)

DYNAMIC TESTING

The Environmental Simulation Lab provides a wide range of shock and vibration testing services. We can simulate a variety of transportation or operational vibration scenarios ranging from commercial trucking to military tracked vehicles, and simulate shocks from satellite deployment to warehouse handling.



Vibration:

- 12,000 lbf electrodynamic shaker
- Sine, Random, mixed mode vibration and shock to 100 g, 2 inch disp, 70 in/sec

Loose Cargo Vibration:

- 48 x 52 inch bed; 1250 lb maximum payload
- Circular synchronous, vertical linear motions
- 150 to 300 RPM
- ASTM D-999, ISTA procedures, MIL-STD-810, etc

Classic Shock:

- Half-sine, sawtooth or trapezoidal pulses, 0.5 to 30 msec duration
- Up to 70 g on shaker (depending on duration & shape).
- 1000 g or more on accelerated drop type shock machine
- Shock Response Spectrum Analysis



Navy High Impact Shock:

- MIL-S-901 Lightweight Shock Machine for Navy equipment weighing up to 250 lb

Drop Shock:

- Free-fall drops up to 30 ft
- Bench handling

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[PROFILE](#)

[TECHNOLOGY](#)

[SERVICES](#)

[QUALITY](#)

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