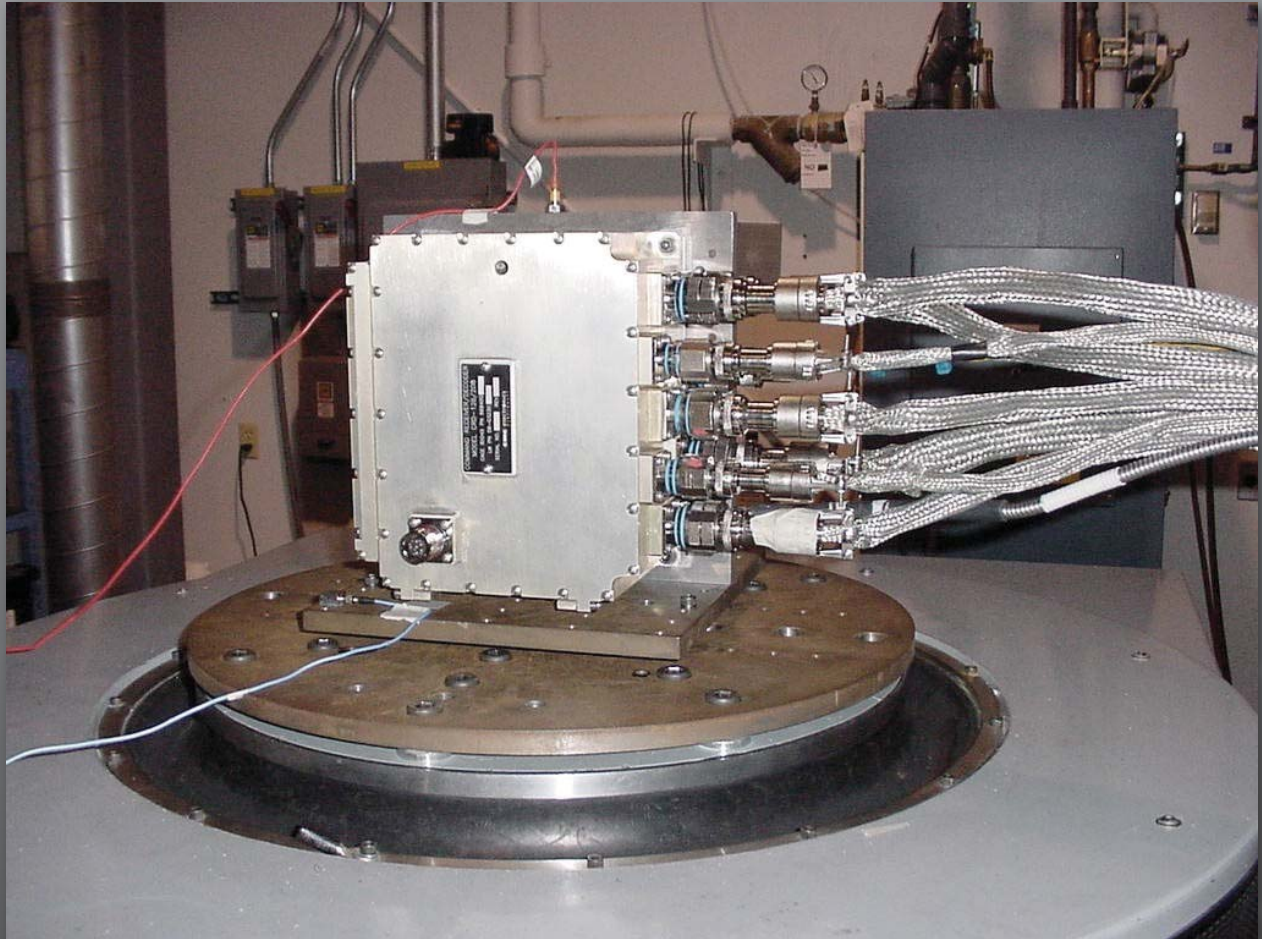


SIMULATED ENVIRONMENTS

L-3 Cincinnati Electronics' simulated environmental testing is essential to qualify products for use in a wide range of environmental conditions. L-3 CE's Environmental Testing Laboratory specializes in testing products in their intended operating environments. With over fifty years of advanced testing experience in the aviation, aerospace and defense industries, L-3 CE can offer a variety of knowledgeable, professional and confidential services.



OVERVIEW

- Climatic Testing - Temperature and Humidity, Altitude (Low Pressure) and Temperature Cycling.
- Vibration and Shock Testing - Two (2) T1000 Unholtz Dickie Shakers with slip plates, D300 Ling Shaker with slip plate and A395 Ling Shaker with slip plate.
- Environmental Stress Screening - Thermal Shock.
- Please contact Environmental Services for complete capabilities.



SIMULATED ENVIRONMENTS

Testing Capabilities

CLIMATIC TESTING:

Temperature and Humidity

One 32 Cubic Foot Chamber (38" x 38" x 38" working area)

Temperature: -68°C to +177°C (-90°F to +350°F)

Controlled Humidity: 20-95% RH

Temperature Cycling Capabilities

Microprocessor Controlled

Altitude (Low Pressure)

One 64 Cubic Foot Chamber (4' x 4' x 4' working area)

Temperature: -73°C to +177°C (-100°F to +350°F)

Controlled Altitude to 10mbars (100,000 ft)

Temperature Cycling Capabilities

Microprocessor Controlled

Temperature Cycling

Three Chambers Available

One Chamber up to 6' x 4' x 4'

Two Chambers up to 54" x 54" x 42"

Temperature: -73°C to +177°C (-100°F to +350°F)

Temperature Cycling Capabilities

Temperature Change of 10°C/minute

Microprocessor Controlled

ENVIRONMENTAL STRESS SCREENING:

Thermal Shock

Dual Basket System (28" x 28" x 28" work space)

Temperature: -73°C to +177°C (-100°F to +350°F)

Microprocessor Controlled

VIBRATION AND SHOCK TESTING:

Vibration Testing

Electrodynamic vibration shakers provide the following maximum performance spectrum:

T1000 Unholtz Dickie shaker with slip plate:

Frequency Range: 5Hz to 3000Hz

Peak Thrust (Sine): 20,000 force pounds

Peak Thrust (Random): 18,000 force pounds

Displacement: 2" peak-to-peak

T1000 Unholtz Dickie shaker with slip plate:

Frequency Range: 5Hz to 3000Hz

Peak Thrust (Sine): 19,000 force pounds

Peak Thrust (Random): 17,500 force pounds

Displacement: 1.25" peak-to-peak

D300 Ling Shaker with slip plate:

Frequency Range: 5Hz to 3000Hz

Peak Thrust (Sine): 9,000 force pounds

Peak Thrust (Random): 7,000 force pounds

Displacement: 1" peak-to-peak

A395 Ling Shaker with slip plate:

Frequency Range: 5Hz to 3000Hz

Peak Thrust (Sine): 6,000 force pounds

Peak Thrust (Random): 5,750 force pounds

Displacement: 1" peak-to-peak

Shock Testing

Electrodynamic vibration shakers provide the capability of classical shock and shock response spectrum (SRS) shock:

Frequency Range: 10Hz to 10kHz

Peak Thrust (sine): 20,000 force pounds

Peak Thrust (random): 18,000 force pounds

Displacement: 2" peak-to-peak

Cincinnati Electronics

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