



Singer Laboratories

Testing Services

Specifications on reverse



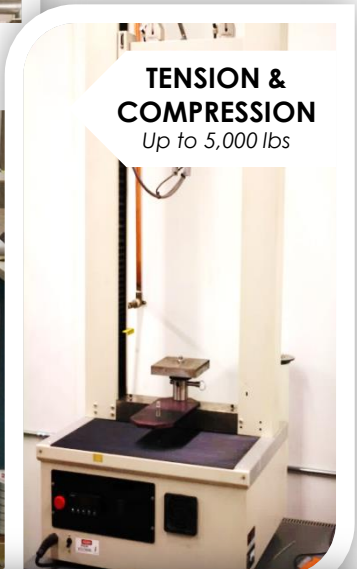
SALT SPRAY



VIBRATION
Random, Sine
Sawtooth



**MECHANICAL
SHOCK**



**TENSION &
COMPRESSION**
Up to 5,000 lbs



**THERMAL
SHOCK**
-65°C to 200°C



**THERMAL
CYCLING**



HUMIDITY



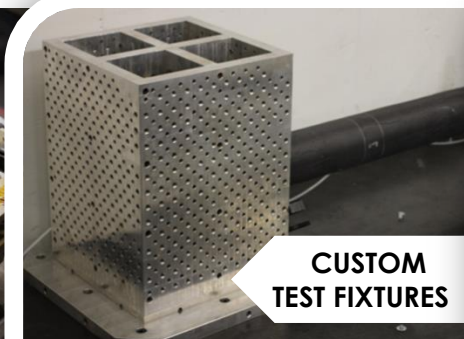
OPTICAL
Inspection
Alignment
Calibration

Specialty Engineering & Machining Capabilities

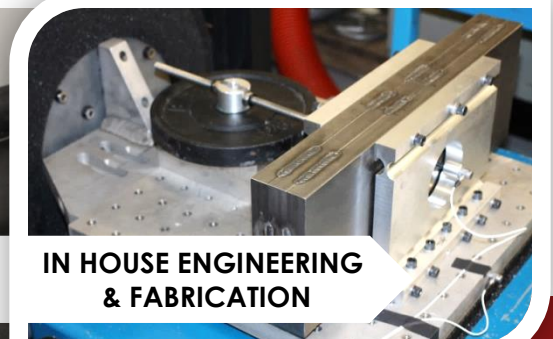
Singer Labs can design and fabricate non-standard fixtures and instrumentation to your specifications.



**NONSTANDARD
SPECIFICATIONS**



**CUSTOM
TEST FIXTURES**



**IN HOUSE ENGINEERING
& FABRICATION**



139 W. Walnut Ave
Monrovia, CA 91016



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www.singerlaboratories.com
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Customer oriented

- Quick quotes
- Fast turnaround
- Expediting available
- Test witnessing

Professional test reports

- PDFs with color photos
- Laboratory or customer format
- NIST traceable, cal certs included
- ISO 17025-compliant

Fast and flexible setups

- In-house engineering, from design to fabrication
- CNC machine shop & welding
- Wiring & programming

EQUIPMENT

Mechanical

Vibration Shaker Table with Slip Table

- 6,000 pound-force Sine profile
- 5,000 pound-force Random profile
- 24" x 24" slip table
- Long stroke up to 1.5"

Feature specifications: 38999, EIA-364-28

- Boeing Enhanced Vibration Tests

Mechanical Shock Tester

- Up to 300 G

Feature specifications: 38999, EIA-364-27

Tension & Compression

- 5,000 lb capacity in tension and compression

Electrical

- Up to 1,000 ADC high current testing
- $\mu\Omega$ resistance testing
- Signal and power discontinuity

Environmental

Thermal Shock Chamber

- 24" W x 24" H x 24" D envelope
- 50 lb. capacity
- +200°C to -65°C in 5 seconds
- 3 chambers: two hot, one cold
- Two simultaneous tests

Temperature Aging & Temperature Life

- -182°C to +1600°C
- Test duration from minutes to months

Ultra High Temperature Testing

- 12" W x 12" H x 16" D envelope
- Temperatures up to 1600°C

Salt Spray

- 2 cu. ft. capacity

Feature specifications: EIA-364-26

Humidity

- Up to 99.9% at -65°C to 85°C

Pressure & Hermeticity

- Hydraulic pressure up to 30,000 psi
- Altitude up to 70,000 feet at temperature



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