

All testing performed to strict MIL-STD, IEEE, IBC, UBC, NIST, Bellcore standards/methods under our 10 CFR 50 Appendix B Quality Assurance Program

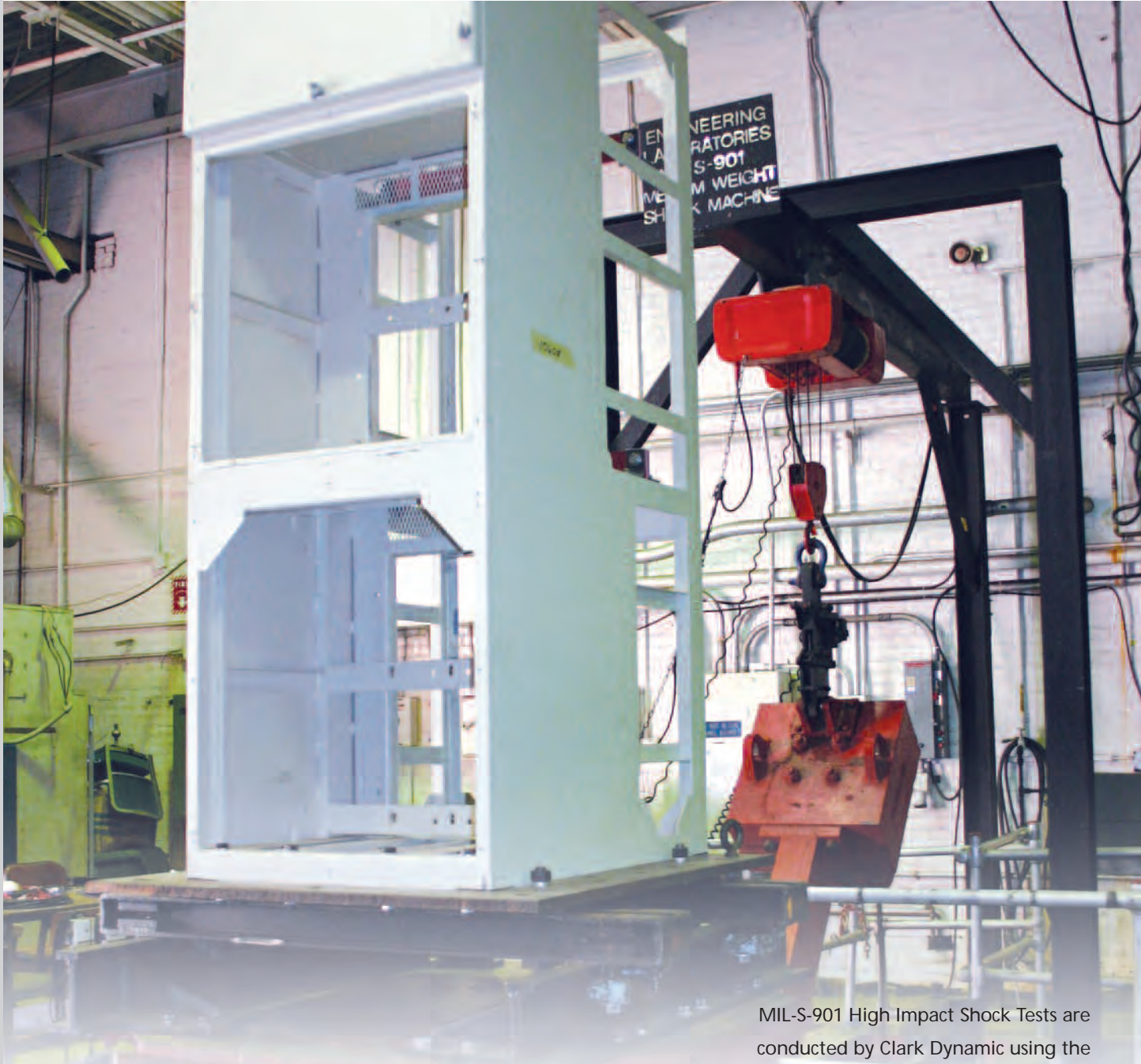


CLARK

Dynamic Test Laboratory, Inc.

A Division of Clark Testing Group

Clark Dynamic Test Laboratory Shock Testing



MIL-S-901 High Impact Shock Tests are conducted by Clark Dynamic using the Medium-weight and Light-weight Shock Machines located in our Laboratory. While the Medium-weight Shock Machine is used for the qualification of equipment, the Light-weight Shock Machine is available for equipment evaluation during the design phase.



Shock Testing



Capabilities

Calibration & Standards Laboratory

The Clark Dynamic Calibration & Standards Laboratory repairs and calibrates measurement and test equipment (MT&E) and maintains direct traceability to NIST Standards.

- Load Testing - #20, 000
- Gas Flow - 50 cu. ft. hr.
- Humidity
- Accelerometers
- Air Flow - 2,000 fpm
- Water Flow - 3 gpm
- Temp. - RTD
- Load Cells

Shock Testing

The Medium-weight High Impact Shock Tests are performed by hitting the anvil plate of the machine with a 3,000 lb. hammer which falls under gravity. The test units are mounted on the anvil plate, and as a result of the hammer hit, the test units are subjected to high impact. This test is performed for the weight range of 250 lbs. to 7,400 lbs. (on the anvil plate which is the sum of equipment weight plus weight of the mounting). The hammer height which varies from 0.75' to 5.5' is determined by the weight on the anvil plate as specified in Table I of MIL-S-901.

Clark Dynamic Test Lab has one of the few qualified Medium-weight Shock Machines in the country approved by the Commander, Naval Sea Systems Command, to perform medium-weight shock tests according to military specification MIL-S-901. Clark Dynamic possesses all necessary fixtures to mount the test articles and is capable of designing and fabricating any special fixture necessary to meet customer requirements.

Related Testing Services

The Clark Dynamic Test Lab is an independent, comprehensive lab that can provide custom test programs. Other testing services provided by Clark Dynamic include:

Electrical Testing

- | | |
|-----------------------|--------------------------------------|
| Megger Insulation | High Voltage to 15,000V |
| Leak Detection Hi-Pot | Frequency Counter: 2.9×10^3 |
| Current to 100 Amps | Amplitude |

Field Testing

- Vibration Excitation:
50 – 1,000lbs. Shakers
- Data Acquisition:
Pressure, Acceleration, Velocity
& Displacement, Strain Gage Measurement
- Digital and Analog recording
- Analysis – Fast Fourier & Transient Capture

Structure & Airborne Noise

- Sound Pressure Measurements
- Sound Power Measurements
- Structure borne Noise Measurements

Corrosion & Salt Spray

- Salt Spray (fog) & Corrosion testing
- Qualifications to ASTM B117 to replace 811.1 Federal Test Method
- Sample Size: 47.5" (L) x 29.5" (W) x 33.5" (D)

NEMA 250

- Cabinet & Enclosure Qualification



CLARK

Dynamic Test Laboratory, Inc.

A Division of Clark Testing Group

Clark Dynamic Test Laboratory, Inc.

1801 Route 51 South, Building 8
Jefferson Hills, Pa 15025
TEL: 412.382.7173
FAX: 412.382.4927

Email: info@clarkdynamic.com
www.clarkdynamic.com
www.clarktestinggroup.com