

# SHIPBOARD TESTING

With special attention to:

**MIL-S-901D and MIL-STD-167-1A**

**Innovation.  
Integrity.  
Dependability.**



*Dayton T. Brown, Inc. has developed a host of shipboard testing and simulation capabilities over its 57 years of service to the maritime community. Between the US Navy, US Coast Guard, commercial ships and ferries, DTB has become well versed in the unique and critical aspects of high performance on the high seas.*

## Our Engineering and Testing services include:

- Shock
- Environmental / Climatics
- Inclination
- Shipboard Power Simulation
- DDAM
- Vibration
- EMI / EMC
- Structural
- Noise

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# TYPICAL TESTS

## MILITARY & COMMERCIAL

TEST	SPECIFICATION(S)	FEATURES
Hammer Shock	MIL-S-901D	Light Weight and Medium Weight
Vibration	MIL-STD-167-1A	30,000 Force-Pounds
EMI/EMC	MIL-STD-461/462	Greater Than 200 V/M Field Strength
Climatics	MIL-STD-2036 MIL-STD-810 MIL-STD-108	High Temperature Low Temperature Humidity, Salt Fog Solar Radiation Drip, Spray Water Tightness Accelerated Life
Inclination	MIL-STD-2036	15 to 60 Degrees
Shipboard Power	MIL-STD-1399	400Hz, 60 Hz, DC Power, Transient and Magnetic Field Capabilities
Noise	MIL-STD-740	Airborne and Structureborne
Dynamic Design Analysis Method (DDAM)	NAVSEA 0908-LP-000-3010 Rev1. (Navy Spec.)	<ul style="list-style-type: none"> <li>• Problem formulation including shock grades, mounting, shock design values</li> <li>• Simulaiton Phase - Finite element analysis in ANSYS DDAM motion inputs, modal and stress analysis</li> <li>• Evaluation phase - modal stresses, NRL stresses,</li> <li>• pass/fail criteria</li> </ul>

Note: The above specifications are the most frequently used. Similar tests can be provided for other specifications or for individual requirements.



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**DAYTON T. BROWN, INC.**  
**ENGINEERING & TEST DIVISION**



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