



Test Vehicle Specifications

HI-TEST offers Type I and Type II Vibration testing (MIL-STD-167), Lightweight, Medium Weight, and Heavyweight Shock testing (MIL-S-901), Airborne and Structureborne Noise testing (MIL-STD-740), as well as Inclination testing (former MIL-E-16400G). In addition to these standard tests, we also manage and conduct unique test programs including underwater explosion (UNDEX) for research and development in the study of weapons effects and bubble behavior.

| TEST | VEHICLE | SIZE | CAPACITY |
|---|--------------------|--------------|--------------------------|
| MIL-S - 901D Shock Testing | | | |
| Heavyweight | FSP 1 ¹ | 16' x 31' | 120,000 lbs ² |
| Heavyweight | FSP 3 ¹ | 16' x 30' | 105,000 lbs ² |
| Heavyweight | FSP 4 ¹ | 16' x 28' | 80,000 lbs ² |
| Heavyweight | FSP 5 ¹ | 16' x 22' | 55,000 lbs ² |
| Heavyweight | IFSP | 20' x 40' | 250,000 lbs |
| Medium Weight | MW Shock Machine | as practical | 7,400 lbs |
| Lightweight | LW Shock Machine | as practical | 550 lbs |
| Shock Simulator | LDSS | 3' x 3' x 5' | 300 lbs |
| MIL - STD - 167 Vibration Testing | | | |
| Type I | Vibration Table | 16' x 16' | 65,000 lbs |
| Type I | Vibration Table | 8' x 8' | 10,000 lbs |
| Type I | Vibration Table | 5' x 5' | 3,000 lbs |
| Type II | Vibration Facility | as practical | as practical |
| Underwater Explosion Testing | | | |
| 4' Paddlewheel Test Vehicle | | | 1,000 lbs |
| Submarine Underwater Test Vehicle (SUTV) | | | as practical |
| Other Tests | | | |
| MIL 1399 Inclination (Pitch & Roll) | | | 30,000 lbs |
| MIL-STD-740 Noise (Airborne & Structureborne) | | | as practical |

1 - Four Deck Simulator Fixtures (DSF) available for the following frequencies:

- 8-10 Hz
- 12-16 Hz
- 25+ Hz

Payload capacity depends on frequency desired and payload footprint.

2 - Maximum payload tested with prior approval granted by NAVSEA.