

# Aerospace

ENGINEERING & TESTING  
TECHNICAL PUBLICATIONS & LOGISTICS SERVICES



We're There.



[dtb.com](http://dtb.com)



# Aerospace SERVICES



*Vibration Testing lunar lander*



*Direct Field Acoustic Testing on lunar lander*



*Our team of specialists will work with you to analyze and determine your program requirements*

## ◆ DTB Aerospace Services

Dayton T. Brown, Inc. (DTB) has been supporting the aerospace industry with advanced engineering, testing solutions, technical publications, and logistics support by offering a powerful blend of expertise, superior customer service, and a thorough understanding of product life cycle needs and customer requirements. We offer engineering and analysis, testing and system evaluation, and technical services on a wide range of aircraft, space vehicles, satellite technology, systems, and components.

## ◆ Serving:

- National Aeronautics & Space Administration (NASA)
- Jet Propulsion Laboratories (JPL)
- U.S. Space Force
- Commercial Space
- Aerospace & Defense
- Department of Defense
- Department of Homeland Security

## ◆ Engineering & Testing Services

Our extensive test facilities, team of experienced aerospace testing engineers, and support staff provide 24/7 operations to complete your test requirements quickly and efficiently, keeping your programs on schedule and within budget. We can design custom test plans, chambers, and fixtures to simulate a range of space related phenomena and extreme conditions.

Testing service include:

- Dynamics & Vibration
  - Vibration, including Unholtz Dickie T-5500 with increased power capacity
  - Shock Hammer & Pyrotechnic
  - Direct Field Acoustic (DFAT)
  - Acceleration
  - Combined Environments
- Environmental
  - Low Pressure (Altitude)
  - Solar Radiation
  - Explosive Decompression
  - Temperature
  - Thermal Vacuum
  - Combined Environments – Temp, Altitude, Humidity
- EMI/EMC
- Structural
- Wind Blast
- Proof, Burst, & Pressure Cycling

## ◆ Engineering & Analysis

- Dimensional & Metallurgy Inspection
- Structural Analysis
- R&D / SBIR Engineering
- Design Engineering
- Reverse Engineering



## ◆ Technical Publications & Logistics Services

Regardless of the size or complexity of your platform, system, or component, our team of documentation experts will analyze your requirements, assimilate and evaluate all of the source data, and develop technical manuals that complement the maintenance and performance for servicing your platform and equipment. Additionally, we maintain a tear-down facility for equipment analysis and technical manual validation, or we can perform these activities as part of certification or client delivery.

Experience has shown that performing logistics planning efforts early and often in system development yields the best results for program lifecycle support. We assess logistics analysis requirements at each level, and include traceability for all procedures for higher maintenance fidelity. Good logistics analysis provides the information needed to make proactive decisions, building the framework for efficiency, optimal maintenance practices, parts availability, and ultimately pave the way to maintenance-focused technical manuals.

Our team of technical writers, illustrators, engineers, programmers, analysts, logisticians, and data specialists deliver world-class technical publications, logistics analysis, and training courseware / curriculum development tailored to meet your needs. We are experts across the spectrum of mechanical, electrical, hydraulic systems, and equipment, and we can produce technical publications and logistics deliverables – prepared for today's sophisticated requirements.

## ◆ Defining the Specification Requirements

We are experts in commercial and aerospace standards and specifications for technical documentation development. We will work directly with you to determine your needs in order to make your project successful and comply with specification requirements.

- All Standards, including MIL-STD-40051, ATA iSpec 2200, GEIA-STD-0007
- S1000D – All Issues (Revisions)

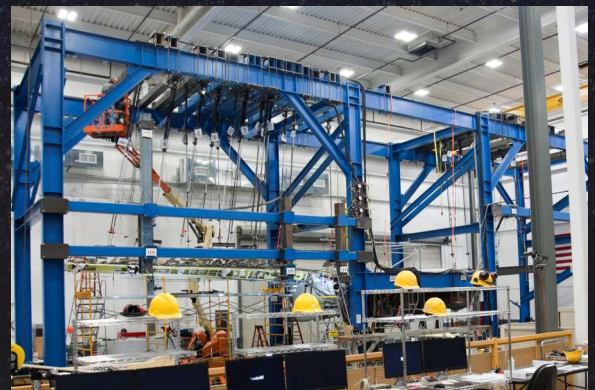
## ◆ Technical Documentation & Information Data Services

- Operator Guides
- Aircraft Flight Manual
- Illustrated Parts (IPB/IPC/IPL/IPD/RPSTL)
- Wiring Diagram Manual (WDM)
- Fault Isolation & Troubleshooting Manuals (FIM/TSM)
- Repair Manual – Structural & Component
- Service Bulletins (SB)
- Logistics Maintenance Planning/Product Support Analysis including Provisioning
- Training, Safety, & System Documentation
- Interactive Electronic Technical Manuals/Publications (IETM/IETP)
- Revision Services
- Legacy Conversion

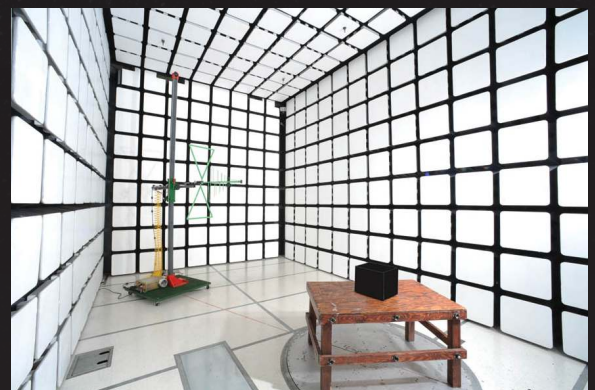
# Aerospace SERVICES



*Rocket/Missile structural testing*



*Structural Testing in high bay area to verify static or fatigue strength*



*EMI/EMC Semi-Anechoic Testing Chamber*



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ENGINEERING & TESTING  
TECHNICAL PUBLICATIONS & LOGISTICS SERVICES

Dayton T. Brown, Inc. contributes to your mission by leveraging more than 70 years of experience to offer comprehensive engineering services, testing, logistics, technical publications, and military mission systems support services. Through communication and teamwork, we are an extension of your engineering team with a thorough understanding of product life cycle needs and customer requirements. Our engineers and technicians tackle challenges and find solutions to tough problems, producing the results you need to stay on schedule.

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