BUILD/INTEGRATE
The extensive mechanical and electronic fabrication capabilities of Teledyne Brown’s 175,000+ square-foot manufacturing facility can provide a complete end-to-end solution for your hardware design and fabrication needs. Our capabilities range from small scale to large products and systems to be deployed from the bottom depths of the ocean to the highest heights in space. We provide solutions to the Defense, Energy, Marine, Space, and Commercial Industries.

Mechanical Fabrication Capabilities
- General and precision machining
- Sheet-metal work
- Welding
- Assembly
- Finishing
- Tolerances as close as 0.0001 inch can be maintained on a sustained basis.

Electronic Manufacturing
- Printed-circuit card assembly
- Potting
- Molding
- Wiring
- Cabling
- Testing
- Soldering meets the requirements of J-STD-001 and NHBS300.4

Acceptance and Testing
- Environmental screening
- Qualification Testing
- Integrated Verification Analysis
- Reliability Testing
- First-Article Testing
- Final Acceptance Test

TBE’s engineering staff is highly skilled in all types of hardware development, with particular specializations in mechanical, structural, hydraulic, electrical, electronic, optical, and embedded software design.

Our processes are certified to ISO 9001 and include statistical control, closed-loop defect tracking and corrective action, computerized work-in-process tracking, and computerized material planning.

TBE forms an integrated product team to develop new hardware. This team consists of specialists from design, manufacturing, test, and quality assurance, all of whom work closely with customer representatives. We take pride in generating products and systems that meet requirements within the desired schedule at a reasonable cost.

Facilities
- Over 175,000 sq. ft. of manufacturing space
- Machine shop
- Electrical/electronics assembly area
- Class 100K and 10K clean rooms

Skilled Personnel
- Design and development engineers
- Structural and thermal analysts
- Skilled machinists and certified welders

Quality Approvals
Certified and compliant with industry and government quality standards.
- AS9100C Third-Party Registered
- ISO 9001:2008 Third-Party Registered
- SEI CMMI Maturity Level 3
- NASA SSP-41173 Compliant
- ASME – Section VIII – Pressure Vessels
- U Stamp, Pressure Vessels, No. 33,360
- R Stamp, Repairs, No. R-2240
- Nadcap Certified
- Welding
- Nondestructive Testing – RT, UT, PT
- ASNT Level III Certified – TBE has the only individual in the United States with 22 Level III certifications in Nondestructive Testing.
- P-9290 Certification for Deep Submergence Systems
- NAVSEA Notice 5000

Quality workmanship, modern equipment, highly trained employees, and precision inspection make TBE’s Hardware Design and Fabrication the standard for measuring excellence.

From the depths of the ocean to the farthest reaches of space, Teledyne Brown Engineering is Everywhere You Look.