DESIGN, PROTOTYPE, MANUFACTURE
FULL-SPECTRUM CAPABILITIES
BASED IN ONE LOCATION
The Solutions Complex provides laboratory, assembly, fabrication, exploitation, integration, and collaboration space to facilitate rapid and affordable technology development for both commercial and government customers. The 226,500 ft² facility contains areas that range from unclassified conference and collaboration areas to Top Secret and Sensitive Compartmented Information (SCI)-cleared areas.

We offer mission-focused engineering services, including modeling and simulation, design and analysis, software development, reverse engineering, and advanced systems integration and test. Our experts provide specialized system and subsystem development for the following:

- Radars and sensors
- Intelligence and electronic warfare
- Missiles and strike systems
- Unmanned systems
- Cyber and IT solutions
- Space systems
- Critical infrastructure protection
- Avionics

DESIGNED FOR MANUFACTURABILITY

Our colocated engineers, prototyping equipment, and manufacturing line ensures our products are designed with manufacturability in mind—maximizing efficiency and lowering costs.
COLLABORATIVE DESIGN

The Solutions Complex offers the ability to bring government and industry engineers together for collaborative research and development. Our production experts are embedded in the design process, ensuring manufacturable design and maximizing efficiency for our customers.
Dynetics Technical Solutions in-house machining center offers the equipment and expertise for precision machining and fabrication. The robust combination of highly skilled personnel, state-of-the-art machinery, and high-end software provides the ability to rapidly develop hardware for research and development (R&D) prototyping and limited production.

- Computer-aided design and manufacturing (CAD/CAM)
- 5-axis high-speed computerized numerical control (CNC) machining
- 3- and 4-axis CNC machining
- Manual mill and lathe operations
- Sheet metal fabrication
- Metal inert gas (MIG) and tungsten inert gas (TIG) welding
- Assembly and test support
- Quality control analysis
- Coordinate measuring machine (CMM) and portable FARO arm verification
- Estimating, planning, and scheduling

The machining center utilizes ISO-compliant management information systems to track, in real time, all aspects of a project from planning through material ordering, production, in-process inspection, final inspection, packaging, and shipping. Additionally, it is fully capable of operations in a Department of Defense (DoD) classified environment.

Dynetics operates the largest electron beam welding system in the western hemisphere. The 22’x22’x22’ system is capable of supporting government and commercial programs, classified and unclassified. Dynetics also operates a smaller system that is 20’x7’x7’.

Exceptional weld strength with minimal distortion
RAPID, AFFORDABLE PROTOTYPING

We offer high-tech prototyping facilities, incorporating the latest resources available to produce quality products rapidly and affordability for both commercial and government customers.
The Dr. Stephen M. Gilbert Advanced Manufacturing Facility provides an advanced automation manufacturing and assembly production capability. With sophisticated software, the facility provides increased production volume, enables rapid changeover, increases reliability, and houses a detailed inventory system. It also offers classified manufacturing.

Major production and assembly programs:
- Automotive manufacturing
- Cable production
- Electronics manufacturing for printed circuit boards (PCBs)
- Final product assembly for large and small systems
- GroundAware® surveillance system

For more than 15 years, we have honed our electronics manufacturing expertise. Our Surface Mount Technology (SMT) laboratory offers space for two full lines and a capacity reaching 30,000 printed circuit boards annually.
AGILE, INNOVATIVE MANUFACTURING

Our foundational core processes, modern systems, and talented workforce enable us to rapidly tackle tough technical challenges from concept analysis and development through testing and production.
THIS IS EXCELLENCE—REIMAGINED.

At Dynetics, our history of technical excellence is built on a foundation of innovation. We have always provided end-to-end technical solutions to address our nation’s most challenging and technologically advanced missions.

Our state-of-the-art low-volume manufacturing facility provides agility to rapidly tackle tough technical challenges from concept analysis and development through testing and production—in one location.

Our team of experts collaborates throughout the design, prototyping, and manufacturing process to create manufacturable designs, decreasing costs and saving time.