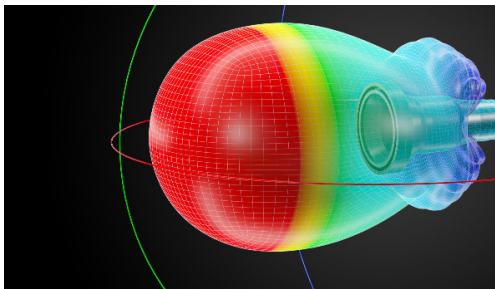


Capabilities Overview

End-to-End Program Solutions

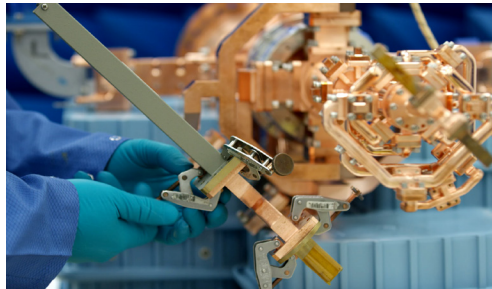
At-A-Glance Capabilities

We provide integrated solutions with deep expertise in antenna design, thermal management, and power distribution. Backed by 50 years of experience and over \$35M invested in engineering, manufacturing, and testing capabilities, our team rapidly delivers optimized designs using additive manufacturing and a full range of test capabilities for program assurance. As a vertically integrated partner, we work closely with OEMs to execute complex programs efficiently, reducing timelines and supporting every phase from concept through full-rate production.



Engineering Support

With over 40 engineers, including 3 PhDs, we design and support optimized RF and mechanical components, meeting demanding performance and manufacturability requirements from concept to production.



Manufacturing

Vertically integrated across five centers of excellence, we offer a full range of precision machining, additive manufacturing, thermal fabrication, complex assembly, and full-system integration capabilities.



Test & Quality

Comprehensive verification and validation across all stages—from design through qualification—ensuring every component meets the highest standards for performance, reliability, and environmental compliance.

We are proud to collaborate with some of the most innovative OEM brands on the planet.

Raytheon
Northrop Grumman
AST Space Mobile
NASA
Boeing
Space X
Astranis

Lockhead Martin
BAE Systems
Capella Space
Tendeg
Blue Origin
Viasat
Amazon Project Kuiper

Liebherr Aerospace
GE Aviation
Areva/Siemens
Moog
Parker Aerospace
Honeywell Aerospace
Tendeg

Capabilities Overview



Engineering Support

Advanced capacity planning, financial modeling, machine utilization, and trend analysis tools drive predictive business and operational decisions.

Our engineering team uses Materialise Magics and deep printing expertise to deliver print-ready RF designs—continuously advancing design principles and printer-friendly innovations.

Design and engineering of components for modernized communications networks by improving signal resolution and minimizing return loss.

Utilizing design methodologies like Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) to ensure designs meet all relevant requirements.

Our engineers use high-precision software, eliminating the need for prototyping and reducing lead times.

Expert in lightweight, launch-ready designs for extreme environments using NASTRAN, ALGOR, COSMOS, and SolidWorks for advanced modeling and simulation.

Ability to partner closely with OEMs throughout the entire program lifecycle, from RFP requirements stage to final delivery.

Assembly expertise, ranging from precision radar busbars to specialty OEM products, leveraging a strong engineering heritage.



Manufacturing and Production

Precision Machining

Specialty

18 x CNC Milling Centers (3, 4, 5 axes)

Additive Manufacturing (Nikon SLM 500)

4 x CNC Turning Centers

Electroforming / Plating
(Nickel, Nickel Cobalt, Copper, Silver, Gold)

4 x CNC Wire EDM

Laser Welding

2 x CNC CMM + Visual Cameras

Assembly

4 x Horizontal CNC Mills

Travel 730/730/880



Test & Quality

Radio Frequency (RF) Testing

Environmental Testing

Inspection and NDT

PIM Testing

Vibration Testing

CMM Inspection with SPC

Near Field Range Testing

Pressure Drop Testing

Helium Leak Testing

Far Field Range Testing

Thermal Cycling Testing

Pressure Testing (Burst/Proof)

RF Bench Testing

Thermal Vacuum Testing

Quality & Risk Reduction

We prioritize quality through rigorous performance modeling, predictive analytics, and continuous improvement. Certified to AS9100 Rev D and NADCAP standards, we leverage advanced planning tools and innovative materials to enhance performance, reduce risk, and deliver lighter, more efficient solutions with confidence.

- Certified to AS9100 Rev D
- NADCAP standards