

AEROSPACE & DEFENSE

PRECISION IN MOTION

Alloy Precision Technologies specializes in designing and manufacturing metal bellows and engineered assemblies for Aerospace and Defense. Our solutions enhance performance, extend part life, and reduce maintenance costs, meeting the toughest industry demands. Designed for extreme temperatures, high-vibration, and precise motion control, our products excel in high-altitude pressure control and temperature regulation.

COMMON APPLICATIONS

- ✓ Accumulators
- ✓ Thermal valves
- ✓ Aneroid valves
- ✓ Pneumatic valves
- ✓ Custom tubing
- ✓ Flexible joints
- ✓ Hydraulic manifolds
- ✓ Cabin pressure control systems



PROUDLY CERTIFIED



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UNIQUELY POSITIONED

FOR YOUR AEROSPACE APPLICATIONS

Precision Machining

- 5-Axis mill/turn machining centers
- 3-5 axis horizontal and vertical mills
- Swiss-type turning center

Precision Welding

- TIG, Plasma & Laser Welding
- Expertise in welding thin and dissimilar metals

Testing & Validation

- Spring Rate Test
- Fatigue Cycle Test
- Altitude Testing
- X-Ray Film & Computer Radiography
- Fluorescent Penetrant Inspection (FPI)
- Nitrogen Bubble Test
- Helium Bomb Test
- Helium Leak Test
- Optical Laser Technology
- Metallographic Testing

Certs & Compliance

- ✓ NADCAP (NDT & Welding)
- ✓ AS9100 Rev D.
- ✓ DFARS Compliant & ITAR Registered
- ✓ CMMC
- ✓ American Welding Society (AWS) D17.1 Compliant
- ✓ ASME Section IX Certified Welding Standards

