



Micro Aerospace & Defense Group

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MICRO INSTRUMENT CORP AEROSPACE & DEFENSE GROUP

- **Founded in 1944**
- **Aerospace Group formed in 2004**
- **Stable Ownership**
Family owned, on-site presence
- **Financially Secure**
No debt, strong capital & borrowing power
DCAA audited and approved
- **Experienced Workforce**
50% of employees average 20+ years tenure
90+ employees
- **Quality & Continuous Improvement**
DOS registered / ITAR compliant
ISO 9001:2000 + AS9100B certified
NASA approved



FACILITIES

- Over 55,000 square feet
- Four assembly bays
- Overhead cranes (3 or 5 tons)
- Privacy screens
- Clean room, class 1000/ISO6
- Dry room, 5% RH
- Over 60 CNC Precision and Conventional Machine Tools
- Zeiss Spectrum CMM 40" x 60" x 24"





AEROSPACE & DEFENSE INDUSTRY SERVICES

- **Aerospace Electronics**
Instrument Panel Assembly & Test
Cable Manufacturing
- **Mechanical Contract Manufacturing**
CNC Precision Machining
Assembly & Test
Prototype & Development





AEROSPACE ELECTRONICS

NASA trained Controls Technicians provide aircraft instrument panels, cables, soldering, crimping and test and process systems. Micro Instrument Corp is authorized by UL to apply the UL Mark on electrical panels designed and built to UL standards.





MECHANICAL CONTRACT MANUFACTURING

- Fifty-Six (56) Tool-Makers on staff
- Two (2) shift operation
- Largest apprenticeship program in New York
- Test equipment manufacturing
- Prototype CNC precision manufacturing
- Special fixtures, gages and tooling



COMPLETE TOOL ROOM

- (38) Two-axis tool room mills capable of milling, drilling or contouring
- (2) Three-axis tool room mills
- CAM capable or direct program





HIGH ACCURACY MACHINING

- **Jig Bore**

(2) Moore American Models #3, Working Capacity 11 x 24

Accurate to within
+/- 0.00003"



HIGH BAY MACHINING

- (1) Wotan 3 Axis CNC 71" Cross, 54" Vertical and 39" Long 43x55 Power Rotary Table and 20" Spindle Travel

- (1) Wotan 3 Axis CNC 39" Vertical Travel, 48" Longitudinal Travel, 32x39 Rotary Table





CNC PRECISION MANUFACTURING

- Six Turning Centers 14" diameter
- Five Mills 60" x 26" x 25"



WIRE AND CONVENTIONAL EDM

- MITSUBISHI Wire EDM
- MITSUBISHI Conventional EDM





CERTIFIED WELDING

- Certified for 17-4, stainless steel, invar, aluminum & carbon steel
- Certified to MIL STD 1595A
- Certified to weld structural members and non-structural members
- Mig, Tig & Heliarc welding available
- Large or small projects invited





PRECISION CLEANING

- ISO Class 6 room
- Certified under 1,000 particles per foot of air
- Precision-cleaned, triple-bagged and shipped
- Can be made completely dark if required





ENGINEERING



- **Mechanical Design & Analysis**

- SolidWorks
- ProE
- COSMOS Works
- AutoCAD
- CATIA

- **Electrical & Controls**

- Schematics
- I/O Lists
- Hardware
- PLC/HMI/PC
- LabVIEW
- Robotics
- Integrated Vision
- Motion Control
- Validation Protocols
- AutoCAD Electrical



QUALITY POLICY

Micro Instrument Corp, with a commitment to customer satisfaction and continual improvement, will provide products and services that consistently meet our customer's requirements.

QUALITY & DOCUMENTATION



- ISO 9001:2000 + AS9100B certification
- DOS registered / ITAR compliant
- Controls Technicians trained in NASA STD-8739.3 & 8739.4
- Documentation retention as you require
- First article inspection as required
- Excellent calibration system



AWARD WINNING SERVICE





APPROVED BY:



CONTROL TECHNICIANS NASA TRAINED

- Technicians trained on NASA STD 8739.3 & 8739.4
- Soldered connections for flight and critical ground support & process and end item requirements for crimping, interconnecting cables, harnesses & wiring





IN CLOSING...

MICRO'S MANAGEMENT COMMITMENT TO THE AEROSPACE AND DEFENSE INDUSTRY IS SOMETHING WE ARE QUITE PROUD OF.

We entered this business only 6 years ago. Today, we are registered to **ISO 9001:2000 + AS9100B**. We have been registered with the **Department of State (ITAR)** for each of those six years. We have earned quality awards from **NASA, ITT, QED** and others. Our financial system has been audited and approved by the **DCAA**. Micro's controls technicians have been trained on **NASA STD 8739.3 & 8739.4**.

Demonstrating a commitment to a particular industry is best exemplified by action and achievement. Micro Instrument Corp has made the commitment to training, quality, equipment and relationships required for the Aerospace and Defense Industries. Today, and for the past twelve months, Micro Instrument Corp has a 100% on time delivery rating with **ITT Geospatial Systems, Lockheed Martin, QED** and **Schweizer Aircraft**.



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