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ITAR-COMPLIANT MANUFACTURING
AS9100-CERTIFIED MANUFACTURING OPERATIONS



ADVANCED ELECTRONICS MANUFACTURING SERVICES

CORE COMPETENCIES

Arc-Tronics provides high-reliability electronic manufacturing services for aerospace, space, defense, and industrial applications, with specialized expertise in printed circuit board assemblies (PCBAs), cable and wire harness assemblies, electro-mechanical assemblies, and complete box builds. Our company supports low-to-mid volume, high-mix production environments with advanced SMT assembly, prototype-to-production manufacturing, functional testing, inspection, and engineering support. Operating under AS9100, ISO 13485 and ISO 9001 certified quality systems with ITAR registration, Arc-Tronics delivers precision-built, traceable, and mission-critical electronic assemblies for defense contractors and federal agencies.

NAICS CODES

- ✓ **334418 - Printed Circuit Assembly (Electronic Assembly)**
- ✓ **334419 - Other Electronic Component Manufacturing**
- ✓ **335999 - Electrical Equipment & Component Manufacturing**

DIFFERENTIATORS

- Fully Automated Screen Printers with 2D vision
- In-line 3D Solder Paste Inspection (SPI)
- Automated Pick and Place Equipment capable of placing 1005 chip components and micro-BGAs
- 3D Automated Optical Inspection (AOI) is performed on all surface mount components
- Quick-change feeders to maximize efficiency and flexibility during job changeovers
- 2D X-Ray with variable angle view capabilities for BGA and QFN components
- Offline programming on all equipment to minimize machine downtime
- Dedicated lead and lead-free Selective Solder and Wave Solder equipment
- Press Fit Connector capabilities
- Full testing capabilities, including In-Circuit Test (ICT), Flying Probe, JTAG, and functional test

PRODUCTS

Printed Circuit Board Assemblies (PCBAS)
Cable And Wire Harness Assemblies
Electro-Mechanical Assemblies
Complete Box Build Assemblies
Aerospace And Defense Electronic Systems
Prototype Electronic Assemblies
High-Mix Electronic Manufacturing
Defense Industrial Base Services

SERVICES

Electronic Manufacturing Services (EMS)
Surface Mount Technology (SMT) Assembly
Prototype-To-Production Manufacturing
Design For Manufacturability (DFM)
Design For Test (DFT)

PAST PERFORMANCE

CEF - C5, C17, & C30 Actuator electronics replacement (5-year program)
INDRA / FAA - Ground radar equipment replacement (5-year program)
PARKER GAS / TURBINE - Multiple projects supporting various military aircraft platforms
OXLEY GROUP - Lighting for several military and commercial aircraft

ARC-TRONICS, INC.

1150 Pagni Drive
Elk Grove Village, IL 60007
ARC-TRONICS.COM



CONTACT:

DAVID SPAHIC
DavidS@arc-tronics.com
847.437.0211