



End-to-End Manufacturing Solutions

DELIVERING WITH SPEED. STRENGTH. SCALE. DEPTH.

General Atomics Electromagnetic Systems' (GA-EMS) manufacturing solutions offer OEMs and system integrators convenient, scalable, on-shore contract manufacturing services for fabricating, assembling, testing, and finishing specialized components for aerospace/defense, energy, industrial, and commercial applications. Our manufacturing Center of Excellence near Tupelo, Mississippi combines extensive manufacturing and testing expertise with cutting-edge equipment to support exacting component and product designs.

Specialized materials, precision machining,
and welding

Multi-megawatt testing
(electrical, mechanical and hydraulic)

Fabrication

Advanced Printed Circuit Board
Assembly (PCBA) with best-in-class
automation including Surface Mount
Technology (SMT)

Supply chain management

CAPABILITIES AND SERVICES

Classified to collateral top secret level

Surface Mount Technology (SMT)

Complex cabling

Complex electrical motor winding

High voltage corona and partial discharge testing

Routine electrical (surge comparison, AC & DC HI-POT, Micro-PHM)

Structure and airborne noise

Logistics services, including obsolescence management

Aftermarket services (RMA, repair/warranty, failure analysis)

Robotic soldering cells

Automated testing

X-Ray with 3D X-Plane

Ball grid array rework capability

Flying probe in-circuit

Automated optical inspection

Automated conformal coating application

Welding

Methods: GTAW, GMAW, FCAW, SMAW, SAW

Qualified Materials: Carbon Steel, Stainless Steel, High Strength Low Alloy (HSLA), HY-80, HY-100, ASTM 514, Monel, Nickel Copper, Copper Nickel, Inconel

Qualified Procedures/Personnel: AWS D1.1, D1.2, D1.6, D9.1, D17.1, D17.2, ASME BPVC Section I, Section VIII Division 1, Section IX, U-Stamp and S-Stamp, National Board R-Stamp, NAVSEA Tech Pubs 248, 1688, 278

Blast and Paint

AMPP SSPC - QP3 Accredited Shop
Painting, C-7 Certified Sand Blasters,
C-14 Certified Painters



CONTACT INFORMATION

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SCAN TO LEARN MORE

Manufacturing Solutions

GA-EMS' manufacturing solutions delivers end-to-end manufacturing, from prototyping to full production. We support low to high volumes, with precision manufacturing, assembly, and testing to meet tight tolerances, harsh environments, and the highest quality, safety, and compliance standards. With a proven record of competitive pricing, on-time delivery, and high first-pass acceptance, GA-EMS is a trusted manufacturing partner.

QUALITY AND CERTIFICATIONS

ISO 9001:2015 and AS9100:2016

Capability Model Maturity Integration (CMMI) V2.0 level 5 for services and development

10CFR50 Appendix B, NQA-1 compliant

MIL-STD-2037 sealed insulation system

IPC-A-610/IPC J-STD-001 (including space addendum), IPC-A-620

Six Sigma (green and black belts)

ANSI/ESD S20.20-2014 Electrostatic Discharge (ESD) control certified

ASNT Nondestructive Testing (NDT) and NACE certified inspectors (MT, PT, UT)

MIL-STD-2073-1E DoD standard practice for military packaging

ENVIRONMENTAL PROGRAMS / PERMITS

Mississippi industrial storm water general permit

Spill, Prevention, Control & Countermeasure (SPCC) plan

Small Quantity Generator (SQG) of hazardous waste

Electronic Permitting System/Department of Transportation (EPS/ DOT)

ANSI Y14.5 Geometric Dimensioning & Tolerancing (GD&T)

Comprehensive environmental, health, & safety program and procedures manual

Hazardous Waste Management (40 CFR Part 262)

Hazardous Materials Transportation (HMT P30)

OSHA REQUIRED TRAININGS

Fire and fall protection

Powered industrial trucks, cranes, man-lifts

Hazardous materials / communication

HAZWOPER Certified (29 CFR 1910.120)

Emergency Action Plan (29 CFR 1910.38)

First Aid, CPR, AED

Emergency Action Plan

Control of Hazardous Energy