



IGCS DEFENSE

CONTACT DETAILS:

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-  Certifications & Identifiers:
 - CAGE: 6SPP7
 - UEI: CJKQM8GJU6C7
 - DUNS: 033577993
 - Business Size: Certified SDVOSB

GSA Approved Vendor
MAS: 47QSHA18D001F
DLA Approved Vendor

CORE CAPABILITIES

With over 20 years as a GSA-approved vendor and a proven track record as a Tier-1 automotive supplier, IGCS Defense specializes in advanced composites, injection molding, electroplating, painting, and comprehensive testing. Our 6,500+ MRO products and fully USA-based operations ensure quality, reliability, and scalability.

IGCS MANUFACTURING SERVICES: CAPABILITIES OVERVIEW

Welcome to IGCS Defense, a trusted leader in advanced manufacturing with over 60 years of expertise. As a certified Service-Disabled Veteran-Owned Small Business (SDVOSB), we deliver innovative, USA-made solutions from our state-of-the-art facilities in Grand Rapids, Michigan.

Explore our comprehensive capabilities designed design to meet your manufacturing needs with precision and excellence.



Contract Holder
Contract # 47QSHA18D001F





Advanced Manufacturing Service

Advanced Composites:

- Industry-leading carbon fiber reinforced polymer (**CFRP**) solutions
- Exclusive US-based OEM supplier of composite wheels with 12,000+ annual capacity
- In-house polymer resin formulation, prepregging, converting, and testing

Injection Molding:

- **7 facilities** in Grand Rapids, MI with **115+ machines** (250 to 4,400 tons)
- Expertise in **Class-A moldings and 2-shot molding**

Testing & Inspection:

- Advanced **Comet CT/X-Ray scanning** with automatic defect recognition
- **Thermographic NDT, CMM (laser, CT, vision), Instron tensile testing (10kN)**
- **2D/3D/X-Ray microscopy, FTIR, viscosity/rheology, and differential scanning calorimetry**
- Full environmental testing (thermal shock, salt spray, UV)

Electroplating:

- **4 facilities** offering trivalent and hexavalent chrome plating
- Integrated traceability and state-of-the-art water/waste treatment

Painting & Finishing:

- **3 facilities** with high-volume capabilities:
- **Line Painting:** 60,000+ parts/day, robotic application, patented paint-over-chrome pre-treatment
- **Cell Painting:** High-volume masked painting, robotic pre-treatment, and curing
- ISO/IEC 17025-accredited in-house coatings development

State-of-the-Art Facilities

- 80,000 ft² Composites Manufacturing Facility:
- Full plant-wide digital traceability system
- 5'x10' autoclave, bladder molding press, multiple curing ovens
- CNC machining centers with diamond grinding and robotic sanding



Corporate Advanced Technology Development Center:

- Staffed with R&D chemists, PhDs, automation, and materials engineers
- Full in-house materials and coatings development labs

Our Manufacturing Processes

- Composites: In-house resin formulation, hot-melt resin filming, prepregging, autoclave, and bladder molding
- Subcontractor Capabilities: Carbon fiber braided fabrics and conventional resin mixing

3 Paint/Finishing Facilities:

- High-capacity robotic painting (up to **1M+ parts/year**)
- Integrated pre-treatment, curing, and traceability systems

Our Expert Team 40+ Product and Manufacturing Engineers

specializing in:

- CFRP component design and automation
- Tooling design and materials testing
- Robotics and full IT/software development

60+ years of OEM automotive product development and launch expertise

Supported by subject matter experts and PhDs in coatings and electroplating and advanced composites.

Why Choose IGCS Defense?

- **Proven Excellence:** Over 60 years as a Tier-1 automotive supplier and 20 years as a GSA-approved vendor. Veteran Owned
- **USA-Made Quality:** All facilities and products proudly manufactured in Grand Rapids, Michigan.
- **Cutting-Edge Technology:** Proprietary automation, digital traceability, and advanced testing ensure precision and reliability.
- **Scalable Solutions:** High-capacity facilities and diverse capabilities to meet your needs.