

# FABRICATION AND PROTOTYPING



## Point of Contact

**Dennis Card**

tel 410.417.5815

dcard@dcscorp.com



DCS has supported the integration of the U.S. Army's Capability Sets (CS), Integrated Bridge and WIN-T mission equipment packages on MRAP and M-ATV platforms for over 10 years. Our efforts include the prototyping and fabrication of A-Kit components exceeding:

- 3000 Brackets
- 3500 LRUs
- 50,000 Cables and Harness

DCS produces specially cables to Military Standards to include MIL-DTL-38999, MIL-PRF-GCS600A (600V), MIL-STD-461 (EMI), MIL-STD-810 (Environmental), MIL-STD-1472:

- High Voltage DC cables for vehicle electrification
- High Speed data cables
- RF cables

## CAPABILITIES

DCS specializes in addressing challenging and complex engineering and management issues in defense systems Research, Development, Testing & Evaluation (RDT&E), acquisition, and sustainment. Core technology areas include platform electronics; ground vehicles systems; Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR); and active protection systems.

We leverage our ISO 9001:2015-registered Quality Management System for systems design, development and fabrication supporting a wide spectrum of programs in different phases of the DoD 5000 acquisition process. DCS employs our experience in program management strategies and product life-cycle support to meet increasing challenges in the acquisition, development, fielding and sustainment of complex military systems.

DCS supports DoD initiatives that include Rapid Prototyping, Developmental and Operational Testing (DT/OT), Low-Rate Initial Production (LRIP), rapid fielding in support of Operational Needs and Field Problems reported. Leveraging facilities and capabilities designed around customer and Warfighter needs, we rapidly fill orders for Army Product Managers to avoid production line shutdown due to OEM late deliveries.

DCS blends experience and innovation to deliver solutions and services to support the mission and goals of our customers. Our Fabrication and Prototyping capabilities and equipment include:

- Manufacturing surge support
- Component fabrication and assembly
- IPC-compliant fabrication processes
- 3D printers and 3D scanner
- Milling and turning machining
- 4-axis programmable control CNC machines
- CNC controlled Lathe Centers
- Precision sheet metal
- MIG and TIG welders, tooling and fixturing
- Fabricate A-Kits components, brackets, cables and harnesses
- Custom Hi-pot cable testers and automated cable testers
- High volume heat shrink ovens
- Laser wire stripper and automated wire cutter and braid cutter
- MIL Spec. braiding machines
- Overmold machine
- QC inspection equipment
- EMI flooring for sensitive electronics fabrication and assembly





Warfighter machine interface/radio network interface (WMI-RNI) components fabricated for Leader-Follower

## STATE-OF-THE-ART FACILITIES

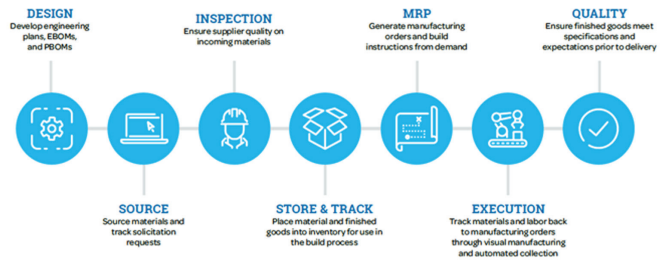
DCS facilities include a state-of-the-art engineering capability supporting customer R&D rapid prototyping efforts up to LRIP for Technical Data Package development and validation to support fielding of Capability Sets Mission Equipment Packages and C5ISR systems and components. We make strategic investments in capital equipment and facilities consistent with, or in anticipation of, customer requirements and needs.



## MRP & PROCESS IMPROVEMENT

A key recent investment, DCS employs Materials Requirements Planning (MRP) to provide several benefits important to our customers:

- Decreased costs, increased financial predictability and improved cost estimating ability
- Automation of manufacturing processes and procedures
- Quality and process consistency of manufactured products
- Accurate delivery schedule forecasting
- Automated tracking of Government contracting compliance
- Lean and paperless manufacturing order and inventory tracking
- Realistic basis for future work and cost estimation
- Real-time decision making and capability to quickly manage risk
- Integrated with current business systems including:
  - Engineering (CAD and PLM)
  - Accounting
  - Procurement
  - Contracts and Government Property
  - Logistics



www.dccorp.com

DCS emphasizes customer satisfaction and continuous improvement. We invest in our employee-owners and emphasize customer satisfaction at all levels. Our work environment is grounded in uncompromising ethics and integrity—a time-tested value proposition benefiting customers and employees alike.