



DRONE FACTORY 01

Introducing a new era of American defense manufacturing in Huntsville, AL

Purpose-built to support rapid iteration and full-rate production of the C100 multi-mission UAS and the AM-FPV, DF01 was built to meet and exceed the surging demand from U.S. and allied forces.

DF01 will bring the full production lifecycle of PDW's products under one roof – from design and manufacturing to flight test and delivery. The new facility vastly increases the company's build rates and output capacity, enabling the production of up to 350 C100s and 5,000 AM-FPVs per month.

Located in close proximity to the U.S. Army's Redstone Arsenal, PDW's new facility will house the team delivering drones designed, engineered and manufactured in America. It also features 99.9% pathogen reduction via Lit Thinking's Visium Far-UVC devices, ensuring DF01 is the cleanest engineering facility in the world.

Engineering at the Speed of War

- Modeled on the Army's Transformation in Contact initiative, emphasizing rapid decision-making and operational resilience at the edge of conflict.
- Built to continue PDW's demonstrated capacity to adapt quickly to shifting requirements and operational priorities.
- Integrated facility floorplan designed to enable real-time communication and fast feedback between operations, engineering, and testing.
- Responsible onshoring of components to reduce dependency, safeguard continuity, and strengthen national industrial capacity.



Manufacturing capability as a critical advantage



Rapid scaling to meet new needs



Feedback loop between integrated departments



Resilience under supply-chain stress



Proven ability to iterate at speed



Battlefield insight into rapid innovation

Process Capabilities

Production:

- Electromechanical Assembly
- Electromechanical Final Assembly
- Injection Molding
- 3D Printing
- Five-axis CNC machining
- Cable Assembly
- Battery Charger Assembly
- Payload Assembly
- Provisioning
- Arm Subassembly
- Conformal Coating

Quality:

- Quality Coordinate Measuring Machine (CMM)
- Quality Engineering
- Statistical Evaluations
- Quality Supplier Management

Materials Management:

- High Bay Materials Warehouse & Kitting
- Mobile Manufacturing and Warehouse Management System
- Hardware & Systems to enable Real Time Transactions

Engineering

DF01 enables enhanced manufacturing and engineering capabilities, including:

- Rapid, high-quality prototyping
- Enhanced production support
- Five-axis CNC machining
- Injection Molding
- Expanded tool shop
- Additive manufacturing
- PCBA Bringup
- CMM inspection

Flight Testing

DF01 allows PDW to house engineering, manufacturing and flight testing all under one roof, streamlining development and enabling a rapid iteration feedback loop. The flight testing group:

- Execution of all PDW flight and operations
- Production light acceptance testing
- Rapid design flight validation
- Oversight of PDW's FAA UAS regulatory compliance

