

# Process Automation with RFID

## Key Areas in Aerospace Manufacturing





### RECEIVING

**Assets Tracked:**

- Component Shipments from Suppliers

**Performance Metrics:**

- Reduced Handling Time
- Fewer Expedites




### FREEZERS

**Assets Tracked:**

- Composite Prepreg Material – Out Time, Expiration Dates
- Layup Kits – Out Time, Expiration Dates

**Performance Metrics:**

- Reduced Waste
- Reduced Quality Risk



### STORAGE AREAS

**Assets Tracked:**

- Raw Materials
- Indirect Materials (Molds, Jigs, Conveyances)

**Performance Metrics:**

- Reduced Material Costs
- Increased Asset Utilization




### CLEAN ROOMS

**Assets Tracked:**

- Indirect Materials (Molds, Suits, Equipment)
- Work-in-Process

**Performance Metrics:**

- Reduced Material Costs
- Improved Work Order Tracking
- Increased Asset Utilization



### AUTOCLAVES

**Assets Tracked:**

- Composite Parts
- Composite Molds and Tooling – Duty Cycles

**Performance Metrics:**

- Improved Work Order Tracking
- Increased Asset Utilization
- Reduced Quality Risk



### ASSEMBLY LINES

**Assets Tracked:**

- Indirect Materials (Conveyances, Equipment)
- Component Parts

**Performance Metrics:**

- Automated Line-Side Replenishment
- Reduced Material, Labor and Documentation costs



### TOOL STORES

**Assets Tracked:**

- Right-to-Use Tools, Tooling
- Composite Molds & Tooling
- Specialized Tools & Equipment – Calibration & Maintenance

**Performance Metrics:**

- Reduced Fines from Non-Compliance
- Reduced Tool Inventory
- Reduced Quality Risk



### WHOLE GOODS STORAGE

**Assets Tracked:**

- Finished Goods, Subassemblies

**Performance Metrics:**

- Reduced Inventory
- Improved Asset Utilization



### AUDIT & ATTESTATION

**Assets Tracked:**

- All Components in Aircraft Manifest, Manufacture Dates, Serial #s

**Performance Metrics:**

- Reduced Fines from Non-Compliance
- Reduced Labor and Documentation costs



### KITTING & SHIPPING

**Assets Tracked:**

- Outgoing Component Shipments
- Customer Orders

**Performance Metrics:**

- Fewer Mis-shipments
- Reduced Labor and Customs Documentation Costs
- Improved On-time Delivery, Customer Satisfaction

Receiving

Materials Management

Assembly & Production

Final Assembly

Shipping