



OEM PROGRAM FACTS

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PREMIUM PRODUCTS WITH PREMIUM SERVICE FROM
AN ESTABLISHED OEM PROVIDER



WHY DUNCAN AVIATION OEM SERVICES?

- 55 Years of industry connections & experience
- Experience working with major OEMs
- Long-standing relationships with suppliers
- Dedicated OEM production facilities
- Proven OEM processes

OEM EXPERIENCE

- Bombardier–Global, Challenger Paint
- Cessna–Citation X, Mustang Paint
- Dassault–Falcon 7X Paint & Interior
- Embraer–Legacy 600 / ERJ 135
- IAI/Gulfstream–Astra SPX Interior/G100 Interior Kits
- IAI–Astra SPX Paint
- Piaggio–P180 Avanti
- Raytheon–Hawker 800 Interiors

OEM PROCESSES

- ENG–4233 Document Control
- ENG–7363 Configuration Management
- ENG–4202 Engineering Modeling Standards
- ENG–4232 Duncan Aviation Drafting Standards
- ENG–7301 ECR/ECO/EO/Redline Process
- ENG–4238 Communiqué Process
- ENG–7302 Electrical Load Analysis
- ENG–7362 Design Review
- ENG–7365 Flammability Testing
- Production and QA Processes

DEDICATED OEM PRODUCTION FACILITIES

- Cabinet Production, Construction, Finish and Final Assembly
- Metal Fabrication & Parts
- CNC Flatstock Cutting
- CNC Fabric/Leather Cutting
- Softgoods Production/Upholstery
- Flammability/Burn Lab
- Paint
- Maintenance/Modification Hangars

QUALITY ASSURANCE

- Quality Assurance Plan

- RTS (Return to Service) Team
- QI (Quality Inspectors) Team

PROJECT MANAGEMENT

- Milestone Control–Critical Path
- Change Request Management
 - myDuncan.aero Item Approval System
- Quoting Process
 - Based on Specifications
- Well-Defined Pricing
- Electronic Work Order
- Certification Oversight for Delivery Paperwork
- IPC (Illustrated Parts Catalog)
- SMM (Supplemental Maintenance Manual)
- Inspection Handbook
- International Experience
- Country of Origin/Registration Requirements

SPECIFICATION

- Specification Receipt
- Analysis of Requirements
- Quote Proposal
- Clarification
- Final Quote

ENGINEERING (& CERTIFICATION)

- Using OEM data or designing from conceptuais
- Configuration Control
- Analysis
- Document Control–SmarTeam
- Design–CATIA, SolidWorks, AutoCAD
- Structural Analysis (FEM, Rigid Body)
- Flammability–Planning, Lab Testing, Reports

PLANNING & PURCHASING

- Integrated System
 - From Engineering
 - To Planning
 - To Purchasers
 - To Suppliers
 - To Production
 - To Delivery



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PARTS FABRICATION

The aviation industry requires the fabrication of complex parts and unique materials cut to demanding specifications. Duncan Aviation has the technological solutions and expertise to solve your parts fabrication needs.

EQUIPMENT/CAPABILITIES

- Waterjet
- CNC press brake
- Multi axis machining
- Enclosed milling machine with an envelope of 32" x 76" x 30"
- AWS Code D17.1 certified welding in hastelloy, titanium, 4130, stainless, aluminum
- Heat treating aluminum with an envelop of 24" x 24"
- Mil spec painting/priming capabilities
- Assembly/Fabrication
- Engraving
- CAGE - 4G242
- JCP - 0018221
- DUNS - 686136238

CUSTOMER BENEFITS

- Expedited turntimes
- Prototype and design service capability
- Staffed with 13 employees with 200 years of aviation/machining experience
- Prototype to production capable
- CAD modeling Catia and Solidworks modeling capabilities
- PMA approved (Parts Manufacturing Authority) PMA # PQ3429-CE
- FAA repair station #JGVR194F
- ODA authorization (Organizational Delegated Authorization) #ODA-501013-CE

CUSTOMERS

Nordam, Bombardier, Embraer, Cessna, Piaggio, Dassault, U.S. Dept of Defense, U.S. Dept of Energy, U.S. Dept of Homeland Security, U.S. Dept of Transportation, NASA, Norwegian Air Force, Mexican Navy, Egyptian Air Force, Malaysia CAA, Chinese Air Authority

CONTACT US

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CABINETRY

Duncan Aviation's cabinetry services include prototype to production capabilities and the ability to complete custom work in a production manner. Our fully staffed production team has experience conforming to OEM engineering standards and is able to deliver complete assemblies that include potted inserts, hinge blocks, hardwood fillers, edgfill, etc.

CNC ROUTER CAPABILITIES

Duncan Aviation has a Shoda Maxim CNC Router for the manufacturing of parts and the cutting of materials. With a 60" x 120" x 8" capacity, this router gives Duncan Aviation the ability to machine a wide range of materials from Fiberglass and Carbonfiber honeycombs, solid aluminum sheet, hard foams, hard woods, plastics, solid surface and many other specialty materials. The machine has full three-axis capabilities, which allows for a wide range of shapes and profiles, and computer-controlled accuracy.



EFFICIENT WORKFLOW

Duncan Aviation's cabinet technicians are fully trained in multiple CAD/CAM platforms including SolidWorks/CamWorks and Catia V5/Prismatic machining. They are also familiar with streamlined engineering data flow through the SmarTeam product data management system.

CUSTOMER BENEFITS

- Highly motivated workforce of skilled craftsmen
- Fully equipped production shops
- Ability to respond quickly, minimal set-up time
- Technology based manufacturing processes ESO, electronic work instructions and models at the bench
- Modification capabilities
- Custom capabilities
- Manufacturing capabilities
- Climate-controlled paint booths
- Climate-controlled material storage



PROVEN TRACK RECORD

- Have provided parts, assemblies, kits and green interior completions to OEM customers



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SOFTGOODS/UPHOLSTERY CAPABILITIES

Duncan Aviation has a wide array of upholstery and softgoods capabilities from cutting complete carpet sets to kerfing the backside of aluminum honeycomb sheets. Our team includes experts who digitize patterns, inspect and mark leather for flaws, perform CNC softgoods cutting and sewing and foam constructions. The team has produced PMA'd products, utilized documented standardized upholstery procedures and has assembled foaming / sewing instruction manuals for most of our repeatable designs.

PRECISION & STANDARDIZED DESIGNS

Duncan Aviation uses a Taurus XM Fabric Cutting Machine, which allows for precision repeatable and standardized designs to be produced. With a 132" x 106" x 0.375" capacity, this machine can cut a variety of textiles from cloth to leather to light foam. It has four individual cutting heads, which is great for producing multiple ship sets. Working with the digitizing table, we can digitize patterns and turn patterns into cuttable styles. Each cuttable style can be zoned to accept up to four different flaws within the pattern, thereby increasing yield. We can either nest by hand or autonest for maximum yield. And material for heel mats or cupholder inserts can be cut on the fly.

CUSTOMER BENEFITS

- Prototype to production
- Minimal setup time
- Just-in-time manufacturing
- Wide range of materials
- Standard pricing
- Computer-controlled accuracy
- Programmable specifications
- Turn patterns into cuttable designs
- Utilization of CATIA 3D modeling increases
- Maximum yield from materials programming and return times

PROVEN TRACK RECORD

- Created many exotic parts fabricated over the years
- Created complex GBP panels





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FLAMMABILITY LAB CAPABILITIES

Duncan Aviation's Flammability Lab has testing capabilities for Part 23, 25, 27 and 29 type aircraft. Multiple types of flammability test plans and reports are available. Comprehensive test results in a universal format recognized by the FAA, TCCA, EASA and other CAA entities. This testing includes the following:

- Bunsen Burner—Self Extinguishing, Vertical 12- and 60-second test
- Bunsen Burner—Flame Resistant, Horizontal 2.5- and 4-inch/minute burn rate
- Bunsen Burner—Fire Resistant, 45-degree burn-through test
- Bunsen Burner—Self Extinguishing, 60-Degree wire insulation test
- Open Flame—Fire Containment, Waste Compartment test

COMPLIANCE FINDINGS FOR REGULATIONS

- PART 25
 - 25.853(a) & (h) per current and previous amendment levels
 - 25.855(d) per current and previous amendment levels
 - 25.1351(d) amendments 25-1 up to 25-72
 - 25.869(a)(4) amendments 25-72 thru 25-113
 - 25.1713(c) amendment 25-123 thru current
- PART 23
 - 23.853(a), (d)(1 & 3), & (f)
 - 23.855(b), (c)(2 & 3)
 - 23.1359(c)
- PART 29
 - 29.853(a) & (d)
 - 29.855(a)
 - 29.1359(c)
- PART 27
 - 27.853(a)
 - 27.855(a)
 - 27.1365(c)

CUSTOMER BENEFITS

- Low temperature kiln for accelerating finish cure times
- In-house flammability qualified company DER for data approvals
- On-staff ODA Unit Managers for STC or MRA type project approvals
- Detailed reports providing the needed data for future repairs and/or alterations





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PAINT CAPABILITIES

Duncan Aviation is known throughout the industry as a supplier of excellent-quality paint that looks beautiful and has excellent durability. Our attention to detail and innovative paint processes are held up as a standard. We can apply any custom base paint or stripe scheme on green aircraft and also have paint stripping capabilities. In addition to unmatched quality, Duncan Aviation also offers competitive downtimes and a full three-year warranty on all paint projects.

OEM PAINT EXPERIENCE

Duncan Aviation has painted new aircraft from many different OEMs as well as provided warranty paint work for OEMs. Our new paint application has included work for the following:

- Astra 1125SPX (G100)
- Bombardier Global 5000, Challenger 300
- Cessna Mustang 525, 560XL, 560 Encore, 680 Sovereign, 750X, Caravans
- Dassault 7X
- Embraer Phenom 100

CUSTOMER BENEFITS

- FAA-Approved, Low-Chrome "Green" Paint Process
- Three-Year Paint Warranty
- Full Paint Capabilities
- Proven Paint Technicians with Attention to Detail



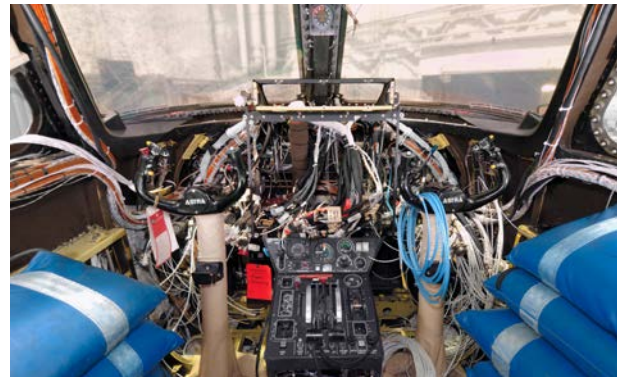


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ENGINEERING PERSONNEL AND CAPABILITIES

Duncan Aviation's engineering team is comprised of an experienced staff of experts who hold the following list of degrees:

- 5 Bachelor's of Aeronautical Engineering
- 2 Master's of Aeronautical Engineering
- 3 Bachelor's of Aerospace Engineering
- 1 Bachelor's of Agricultural Engineering
- 1 Associates Degree of Applied Science/Drafting
- 1 Associates Degree in Architectural Technology
- 1 Bachelor's of Automated Manufacturing
- 1 Bachelor's of Aviation Science
- 1 Bachelor's of Aviation Technology
- 2 Associates of Avionics
- 1 Associates of Avionics Service/Technical Illustration
- 1 Master's of Business Administration
- 1 Bachelor's of Civil Engineering
- 1 Bachelor's of Computer Engineering
- 1 Associates of Drafting Tech Engineering/CADD
- 1 Associates of Electrical
- 1 Associates of Electronics
- 1 Associates of Electronics Engineering
- 5 Bachelor's of Electrical Engineering
- 1 Bachelor's of Finance
- 1 Bachelor's of Industrial Engineering
- 1 Master's of Management
- 1 Bachelor's of Industrial Manufacturing Engineering
- 1 Associates of Manufacturing Engineering
- 1 Associates of Manufacturing Engineering/CADD
- 1 Bachelor's of Manufacturing Engineering Tech
- 1 Associates of Mechanical Engineering
- 8 Bachelor's of Mechanical Engineering
- 1 Master's of Mechanical Engineering
- 1 Bachelor's of Production Technology
- 1 Associates of Technical Drafting
- 1 Associates of Tool Engineering



ENGINEERING CAPABILITIES

Duncan Aviation's engineering team regularly works with OEM data or designs from conceptals. The team has the following capabilities:

- Configuration Control
- Requirements Analysis
- Document Control
 - SmarTeam
- Design—CATIA, SolidWorks and AutoCAD
- Structural Analysis—FEM, Rigid Body
- Safety Analysis
- Flammability Testing—Planning, Lab Testing, Reports
- Delivery Documentation

CUSTOMER BENEFITS

- Experience working with OEM data
- Experience working with conceptals