



TOP FLIGHT AEROSTRUCTURES, INC.

Top Flight Aerostructures is an aerospace manufacturing and repair company that specializes in the manufacture of aerospace composites and adhesively bonded components of military aircraft structures. Top Flight has expertise in areas from CNC machining, to complex sheet metal fabrication, to advanced composite and metal-bonded panels, to classic sheet metal assembly and repair.



Top Flight operates a 40,000 square foot production facilities, located in Dallas, GA, just 30 minutes west of the metro-Atlanta, Georgia. Here we support the exacting requirements of new manufacture and repair to the detailed requirements of the drawings and supporting specification for with in-house capabilities and a highly skilled and motivated work force.

Top Flight is a small business focused on quality and customer service. Top Flight maintains AS9100, Rev D and ISO 9001:2015 quality standards. No project is too big or too small for the diverse capabilities of Top Flight. Our highly skilled and motivated work force takes pride in exceeding our customer's expectations.

AIRCRAFT PLATFORMS:

C-5, AC-130, C-130, B-2, B-1, and B-52

CAPABILITIES AND EQUIPMENT:

- » Prepreg and metal bond fabrication
- » Aluminum, Nomex, fiberglass honeycomb
- » Polyurethane and Rohacell core forming and fabrication
- » Sheet metal forming and assembly
- » Resin infusion and wet layup
- » In-house tooling design and fabrication
- » 3-autoclaves: 10' x 30', 5' x 10', 2' x 3'
- » Vacuum bag curing oven: 8' x 8' x 16'
- » Grieve heat treat oven: 36" x 48" x 36"
- » Paint booth: 24' x 14' x 9'
- » Thermwood 5-axis router: 5' x 10' x 3'
- » Fadal 3-axis CNC: 30" x 62" x 30" working envelope
- » Haas 3-axis CNC: 30" x 12" x 16"
- » 2 clean rooms: 3310 sq ft, 348 sq ft
- » 3 Aligned Vision laser ply projectors
- » Creafom Handy Scan 700 laser scanner
- » Creafom MaxShot photogrammetr
- » FaroArm Platinum portable CMM
- » API Radian Plus laser tracker
- » Verisurf, CAM2Measure, and Creafom inspection software
- » United universal test machine: tension, compression, shear, flexural, peel
- » United environmental test chamber
- » Extensometer, strain gauge, and digital image correlation
- » Thermotron environmental conditioning chamber
- » SolidWorks 3D CAD, CFD, FEA
- » Femap/NASTRAN FEA