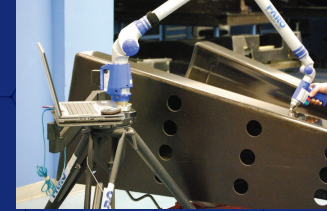
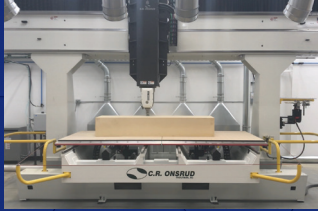




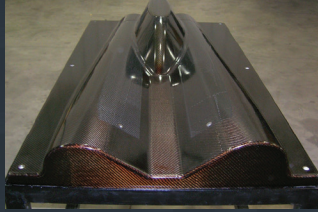
CAPABILITIES



DESIGN
ENGINEERING
PRODUCT DEVELOPMENT

COMPOSITE MANUFACTURING
CUSTOM FABRICATION
MACHINING

INDUSTRIES SERVED



AUTOMOTIVE

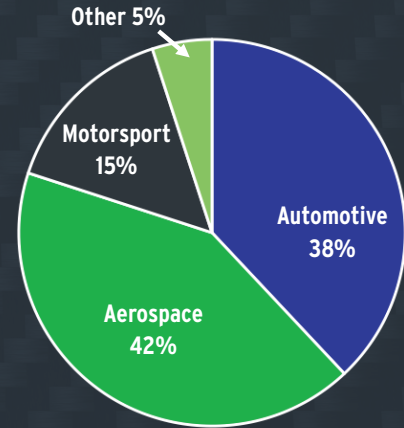
AEROSPACE

MOTORSPORTS

SATCOM

DEFENSE

MEDICAL



35,000-SQ-FT FACILITY



OUR EQUIPMENT

COMPOSITES

- 8' x 14' American Autoclave (150 max psi/450°F max temp)
- 4' x 12' American Autoclave (150 max psi/450°F max temp)
- 12' x 12' Grieve Walk-In Oven (450°F max temp)
- 4' x 4' x 5' Grieve Oven (450°F max temp)
- Gerber DCS 2500 Ply Cutter (6' x 22' cutting surface)
- 24' x 24' Accudyne Heated Press (3000 max psi/500°F max temp)
- Large 12' x 14' Walk-In Freezer
- Temperature-and Humidity-Controlled Clean Room

MACHINING

- C.R. Onsrud F122E15 5-Axis Router: 120" X by 60" Y by 41" Z Travel
- Haas VF4SS CNC Machining Center: 50Ø X by 20Ø Y by 20' Z travel with 4th axis rotary
- Haas VF4 CNC Machining Center: 50' X by 20Ø Y by 20' Z travel
- Haas ST-20 CNC Lathe: 50' X by 20' Y travel with 8' chuck
- Jet Edge Waterjet: 60' X by 96' Y by 12" Z travel
- Various manual lathes and mills



OUR EQUIPMENT

FABRICATION

- Four Welding Stations:
 - MIG for steel and aluminum
 - TIG for stainless, mild steel, cro-moly, and aluminum
 - Argon
 - Brazing
- Spot Welding Machine
- 8' Hydraulic Shear
- 4-Axis CNC Press Brake
- 40-ton Hydraulic Press
- Fly Press (2)
- 48' Brake
- 36' Sheet Metal Roll

- Bead Roller
- Notcher
- Turret Punch
- Tube bender (2.5')
- Tube Roller for "air foil" shapes

QUALITY

- FARO ARM Platinum (Mobile Coordinate Measuring Machine)
- Mitutoyo CMM (Coordinate Measuring Machine)
- Optical Comparator
- MAGNAFLUX (Mag Particle)
- Hardness Tester
- Numerous handheld inspection and measuring tools and devices



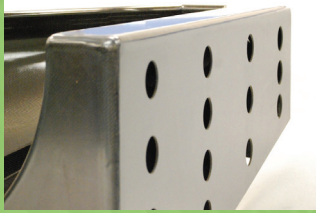
CERTIFICATIONS

"DeltaWing manufacturing strives to consistently provide the highest quality products and services that meet the needs and expectations of our customers. In our pursuit, we are fully committed to continually improving and complying with the requirements of our quality management system while measuring ourselves against our quality objectives."

-- KEVIN BIALAS, VICE PRESIDENT OF MANUFACTURING



COMPLEX GEOMETRY



COMPRESSION MOLDING
BLADDER MOLDING

SANDWICH STRUCTURES
BONDED ASSEMBLIES

COMPOSITE TOOLING

Whether built-to-customer-print or implementing our own tool building designs, composite tooling is our expertise. We deliver top-quality solutions to our aerospace and defense customers.

AEROSPACE TOOLING PROJECTS:

LOCKHEED MARTIN

HAWKER BEECHCRAFT

GULFSTREAM

SIKORSKY

LIBERTY AEROSPACE

KITTY HAWK AEROSPACE

Post machined tooling is a process that DeltaWing Manufacturing has perfected to meet the tight tolerances required by the aerospace industry. The tools are built to a specific lay-up schedule leaving a desired surface finish after the machining for a post seal and polish process that gives a glass like surface finish.

Tolerance Spec: +/- .005"



OTHER CAPABILITIES

MACHINING CAPABILITIES

DeltaWing Manufacturing's machine shop features state-of-the-art CNC equipment. Our highly skilled technicians deliver everything from one-off prototypes to full-run production.

FABRICATION CAPABILITIES

DeltaWing Manufacturing provides superior fabricating services. Our fabricators are expert Mig & Tig welders working with sheet metal and tubing in various material types such as aluminum, structural titanium, stainless and cro-moly steels.

QUALITY CONTROL & FINAL INSPECTION

Using CMM and FARO technologies, DeltaWing Manufacturing tracks the quality of its processes and products from start to finish, guaranteeing excellent quality and accuracy.





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