



Lowest Cost Fast Schedule Carbon/Epoxy Tooling Durable for Low-cycle

Carbon/Epoxy tooling is a high quality tooling system for the aerospace prototype requirement. It is an infused carbon mold that can be accurately machined to complex curves. We developed our carbon tooling family for an optimum balance of cost, schedule and durability for low-cycle, high-temperature tooling. It is the best solution for low run parts and prototypes.



Carbon Fiber with Epoxy Infusion



Nadcap AC7118 CERTIFIED ISO 9001:2008 CERTIFIED AS9100C CERTIFIED AWS D1.1, D1.2 and D17.1 CERTIFIED ASME Section VIII and IX CERTIFIED Boeing Digital Product Definition Approved Supplier Boeing approved processor to D1-4426 requirements



Layup Carbon/Epoxy

Description

- Carbon/Epoxy Facesheet (Infused)
- Machined Surface + / 0.005"
- Carbon/Epoxy Plate Substucture
- 15 Cycles @ 350°F
- Autoclave compatible.



Carbon/Epoxy Panel Eggrate

Application

Janicki has over 15 years experience and successful history providing Carbon/Epoxy Tooling.

- AFP Compatible
- Simulates performance of production composite tools
- Fastest tool delivery in the market due to inventory, and standard practices and patterns.
- Full JI design or modify customer's provided design.
- Size Range up to 2,000 sq ft



Carbon/Epoxy Prototype Tooling

Optional Features:

- High Temp Casters
- Proof Loading
- Fork Tubes
- Custom Hoist Points
- First Article Verification

Carbon/Epoxy material excellent for Prototypes

Prototype Tooling Capabilities | Experience | Equipment

Janicki invests in facilities and equipment to optimize fabrication of large and accurate composite and metal tools. Janicki has the capabilities and experience to build prototype and production tooling for major OEMs, Tier 1 and Tier 2 suppliers across several industries.

Capabilities

- Engineering Design & Analysis
- ► 5-Axis NC Milling (+/- 0.005")
- Large-scale Facilities
- R&D Lab
- Metrology
- Tool leak testing w/ Helium / Autoclave



Engineering Design & Stress Analysis



Large Cure Oven

Program Experience

- Large collapsible Fuselage
 Mandrels for Aerospace OEM
- Complex Wing-to-Body Fairing Tools
- 80 ft carbon fiber lay-up mold for a commercial jet wing
- Fuselage molds for UAV
- Long, curving stringer & beam molds
- Fuselage molds for helicopters

Equipment

- ▶ 9 Large 5-Axis CNC Mills (100' x 20')
- Machine Shop (4 & 5-Axis Mills & Lathes)
- Ovens (100' x 24' x 14')
- Weld Shop (Certified Welders)
- Water & Plasma Cutter (14' x 42')
- Autoclave (12' x 50')
- Annealing Furnace (24' x 72')
- 25 Ton Overhead Cranes
- Grit Blasting & Paint Booth (60' x 16' x 10')
- 1,100 Ton Forming Press





Waterjet Cutter



Large-Scale, Precision 5-Axis NC Mill



12' X 50' Autoclave

quality promise

- Dedicated Continuous Improvement
- Deliver Quality Products
- Exceed Customers' Requirements



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