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.

**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

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

**Optional Features:**
- High Temp Casters
- Proof Loading
- Fork Tubes
- Custom Hoist Points
- First Article Verification

**Carbon/Epoxy Prototype Tooling**

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

**Program Experience**
- Large collapsible Fuselage Mandrels for Aerospace OEM
- Complex Wing-to-Body Fairing Tools
- 80ft 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

**Employee Information**
- Sedro-Woolley, WA
  - 117,000 ft²
  - 325 Employees
- Hamilton, WA
  - 164,000 ft²
  - 350 Employees
- Layton, UT
  - 100,000 ft²
  - 50 Employees

**Dedicated Continuous Improvement**
- Deliver Quality Products
- Exceed Customers’ Requirements

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