



Low Cost Tight Tolerances 250°F Tooling System

250°F Tooling for Prototypes and Low Rate Production Parts

The Janicki 250°F tooling system is a low cost solution that delivers high surface quality on a durable steel substructure. It is an excellent product for prototypes and low cycle parts production. Designed for Pre-preg and VARTM parts, these tools have a proven track record across multiple industries. As a standard product they can be produced quickly with short lead times. Engineered for use in or out of autoclave.

Description	CTE x 10 ⁻⁶ in/in/°F	Use Temp	Typical Cycles	Surface RMS
Fiberglass/Carbon Hybrid Tooling	5.5	250°F	25	32

Tooling Solution Serving Many Industries

- ▶ Low Cost Tooling
- ▶ High Surface Quality
- ▶ For Prototype & Parts Production
- ▶ Standard Product Efficiencies
- ▶ Proven Industry Record
- ▶ Short Lead Time to Completion
- ▶ Designed for Pre-preg and VARTM Part Fabrication
 - LTM45 • MTM45



High Tolerance Machined

250°F Tooling Characteristics

- ▶ CTE Matched Facesheet and Substructure
- ▶ Infused Carbon and Glass
- ▶ Machined, Durable, High-gloss surface coat
- ▶ Size Range up to 500 Square Feet
- ▶ Stable Steel Structure
- ▶ Handling Provision to Meet Your Shop Needs



250°F Production Tooling

Low cost Tooling for Prototypes & Low Rate Production



Low Cost Prototype Tooling



Nadcap AC7118 CERTIFIED

ISO 9001:2008 CERTIFIED

AS9100C CERTIFIED

AWS D1.1, D1.2 and D17.1 CERTIFIED

ASME Section VIII and IX CERTIFIED
(for Pressure Vessels)

Boeing Digital Product Definition
Approved Supplier

Boeing approved processor to
D1-4426 requirements

Production 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 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



Carbon Fiber Lay-up



Annealing Furnace

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)
- ▶ Oven (100' x 24' x 14') w/ Automated Controls
- ▶ Weld Shop (Certified Welders)
- ▶ Waterjet & 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



Forming Press



Large-Scale, Precision 5-Axis NC Mill



12' X 50' Autoclave

our
quality promise

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

Sedro-Woolley, WA

117,000 ft²

325
Employees

Hamilton, WA

164,000 ft²

361
Employees

Layton, UT

100,000 ft²

50
Employees



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