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.

<table>
<thead>
<tr>
<th>Description</th>
<th>CTE x 10^-6 in/in/°F</th>
<th>Use Temp</th>
<th>Typical Cycles</th>
<th>Surface RMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiberglass/Carbon Hybrid Tooling</td>
<td>5.5</td>
<td>250°F</td>
<td>25</td>
<td>32</td>
</tr>
</tbody>
</table>

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

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

Low cost Tooling for Prototypes & Low Rate Production

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
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

**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)
- 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

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

1476 Moore Street
Sedro-Woolley, WA 98284
360.856.5143
888.856.5143 toll free
www.janicki.com
info@janicki.com