

**High Quality
Fast Turnaround**

Marine Composite Tooling

Plugs • Molds • Mockups • Parts

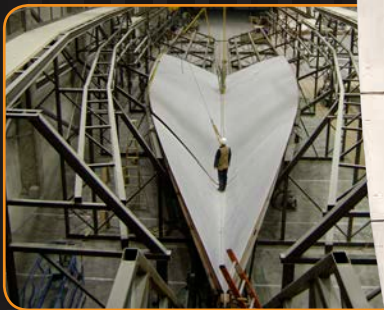
In 1993 Janicki Industries revolutionized marine tooling with the introduction of 5-axis machined plugs and direct molds using a proprietary machine-able putty system. With more than 20 years of proven experience we still lead the marine tooling industry with our broad range of marine tooling solutions. Whether you are building your first small boat or pushing the boundaries of size, structure or speed Janicki has the right tooling solution to fit your project budget, schedule and performance needs.



Hull Plug



Composite Fly Bridge



Multi-Segment Hull



ISO 9001:2008

AS9100C CERTIFIED



Plug Production Tooling

Prototype Tooling Schedule Critical

- ▶ Machined Putty
- ▶ 160°F Max Use Temp
- ▶ 1-5 Typical Part Count
- ▶ Wood Base
- ▶ Foam Underlayment
- ▶ Fiberglass & Putty
- ▶ Plugs, Direct Molds, Part Mockups

Specialty Tooling Performance Critical

- ▶ Carbon/Fiberglass/Foam
- ▶ High Temp Tool | CTE Matched
- ▶ Design Specific Part Count
- ▶ Steel Truss or Composite Eggcrate Frame
- ▶ Tight Tolerance +/- 0.015"



Gelcoat Tooling

Production Tooling Quality Critical

- ▶ Fiberglass Facesheet
- ▶ 200°F Temp Tool
- ▶ 200+ Parts Typical
- ▶ Trussed Steel Frame
- ▶ 400 Grit to Polished Finish
- ▶ Spinners
- ▶ Inserts
- ▶ Split Tools w/ Gasketing



High Performance Specialty Tooling

**Tooling that delivers
extraordinary value**



Facilities Optimized for Marine Composite Tooling

Our large-scale facilities and equipment give us the capability to support your Marine projects. Janicki can deliver your largest or smallest projects in the fastest time. Bring us your challenges.

5-Axis CNC Milling

Janicki's large proprietary 5-Axis mills are unsurpassed in size and precision. Our custom volumetric error compensation algorithms provide unprecedented accuracy for very large marine projects.



5-Axis CNC Milling: Large Scale & Precise

Equipment

- ▶ 9 Large 5-Axis CNC Mills (100' x 20')
- ▶ Oven w/ Automated Controls
- ▶ Waterjet & Plasma Cutter (14' x 42')
- ▶ Autoclave (12' x 50')
- ▶ Annealing Furnace (24' x 72')
- ▶ Grit Blasting & Paint Booth
- ▶ 1,100 Ton Ship Building Press
- ▶ 45' Eastman Ply Cutter
- ▶ Gerber Ply Cutter



Engineering Design

Engineering

Janicki marine engineers are proficient with designing and surfacing using CAD programs. No matter how complex or challenging your project, our team of talented designers will help you attain the marine tooling you need.

- ▶ Concurrently develop tooling with manufacturing process
- ▶ Expert in optimization for manufacturability
- ▶ Manage configuration with SAP-PLM



1,100 Ton Ship Building Press



Wooden Buck



Spray-on Machineable Putty



Machine Final Dimensions

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

63
Employees



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