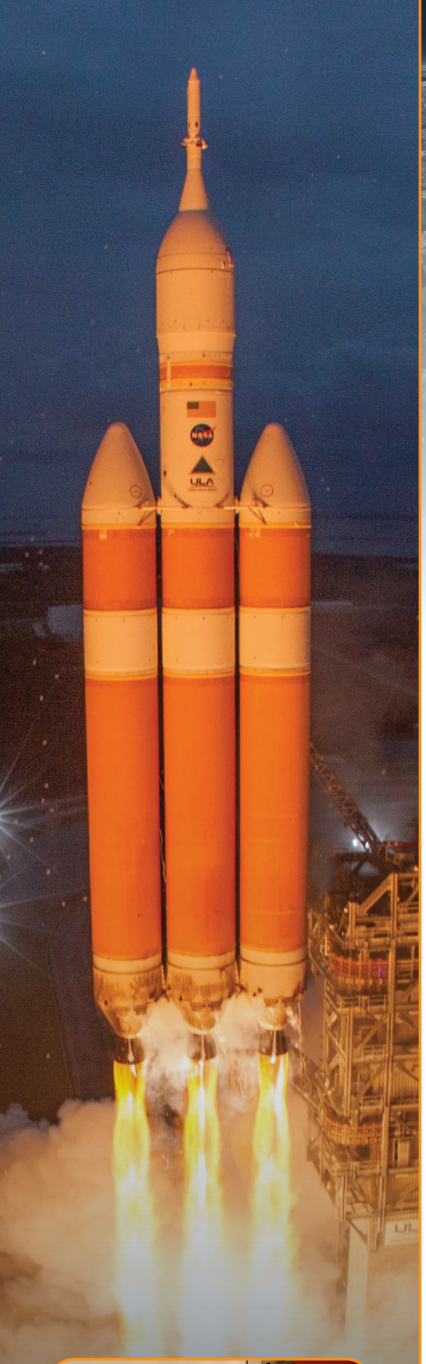


Large-Scale 5-Axis CNC Milling

Accredited Nadcap™ Composites

Nadcap AC7118 CERTIFIED
ISO 9001 CERTIFIED
AS9100 CERTIFIED
BAC 5578 & BAC 5317 APPROVED
Boeing Approved D1-4426

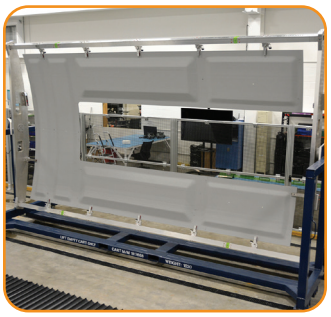
SPACE

Carbon Fiber Parts and Tooling

In the outer-space environment Janicki Industries (Janicki) understands your need to push the limits on material performance. Janicki has over 20 years experience building fly-away aerospace parts made of advanced composite materials that will exceed mission requirements. Janicki brings specific equipment, processes and talented people to your project to assist you in building space vehicles that will thrive in the rigorous environment of space.

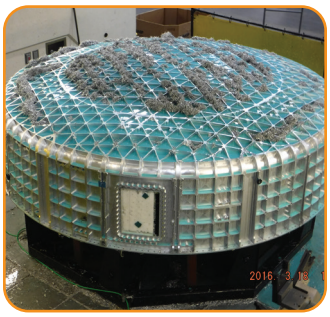
Space Products and Experience

Flight Hardware



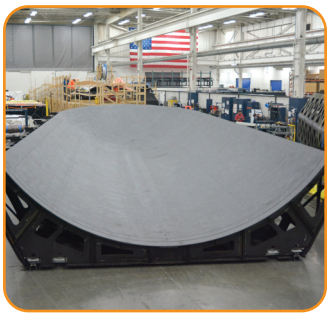
Fly-Away Aero Parts
Janicki is Nadcap Certified to make Carbon Fiber Aerospace Parts with nomex and aluminum core.

Contamination Barrier
Janicki builds a 350°F Carbon Fiber Tool followed by a fly-away barrier used in the Space Launch System Rocket.



Boeing Starliner Dome
Janicki milled both sides of an aluminum billet to precise tolerances. This is part of the Boeing Commercial Crew program.

Production Tooling



Carbon Fiber Tooling
Janicki specializes in large-scale projects with out-of-autoclave carbon fiber tooling.

Cryo Tank Tool
Janicki has technical abilities to make complex parts and tools.

Heat Shield Tooling
Janicki builds high-cycle aluminum tooling for heat shields.

Janicki builds flight hardware of all sizes and complexity that our customers can trust will meet their requirements. Space hardware is typically loaded with stress throughout all structure, and requires a meticulously planned and documented build record, at which Janicki excels.

JANICKI INDUSTRIES

Facilities Optimized

For Outer-Space Parts & Tooling

Our newest building in Hamilton adds 90,000 square feet of manufacturing space dedicated to flight-quality, aerospace parts made of composites. It adds 15,000 square feet of cleanroom, drive-in freezer, Ultrasonic Core Cutter, 5-Axis CNC Mills, Non-destructive testing and is climate controlled.

5-Axis CNC Milling

Janicki's mills are unsurpassed in precision and scale with repeatable tolerance of ± 0.003" and envelope up to 100′ × 20′ × 8′. Our proprietary, CNC software uses custom volumetric error compensation algorithms that provide unprecedented accuracy.

5-Axis Zimmermann Mill

Clean Room

25,000 sq. ft. Clean Rooms with 16' ceilings.

- Dedicated to Aero Parts Production
- Certified Technicians
- Access Controlled for Sensitive Projects

Meets requirements for:

- ISO Class 8 (Upgradeable to 5)
- BAC5317, BAC5578
- D012Z062-001

Engineering

Janicki engineering rivals our competition in technical abilities to design and build highly complex parts, necessary for demanding aerospace requirements. Engineering supports customers with one-off conceptual prototypes to high-volume serialized build-to-print flight hardware.

- Concurrently develop part & tooling
- Expert in highly comlex parts.
- CATIA Composite Design workbench to analyze designs and create ply kits and laser projection files
- Rapidly incorporate revisions
- Manage configuration with SAP-PLM

Equipment

- 10 Large 5-Axis CNC Mills (100′ × 20′)
- 5-Axis Zimmermann Mill
- Genesis Non-Destructive Testing
- AGFM Core Cutter
- Oven (100′ × 24′ × 14′) w/ Automated Controls
- Weld Shop (Certified Welders)
- Waterjet & Plasma Cutter (14′ × 42′)
- Autoclave (12′ × 50′)
- Annealing Furnace (24′ × 72′)
- Grit Blasting & Paint Booth
- 1,100 Ton Forming Press
- 45′ Eastman & Gerber Ply Cutter

Janicki has the level of engineering support, capabilities that allow us to be very schedule competitive on large Design, Build, Deliver programs. Relative to our competition, we have a solid project management culture that adds a lot of communication value to our customers.

Composite Parts Manufacturing Bldg.

AGFM CNC Core Cutter

12′ × 50′ Autoclave

Non-Destructive Testing

Sedro-Woolley, WA
160,000 ft²
325
Employees

Hamilton, WA
254,000 ft²
361
Employees

Layton, UT
100,000 ft²
100+
Employees

our quality promise

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

JULY 2020

www.janicki.com
info@janicki.com

719 Metcalf Street
Sedro-Woolley, WA 98284
888.856.5143 toll free

JANICKI INDUSTRIES