

facilities and equipment



FACILITIES

From prototypes to production part runs

Janicki Industries is a technical engineering company that creates precision composite and metal tools, prototypes and production parts for transportation, aerospace, space and defense, marine, alternative energy and other innovative markets throughout the world.

For more information please visit:
www.janicki.com

Washington

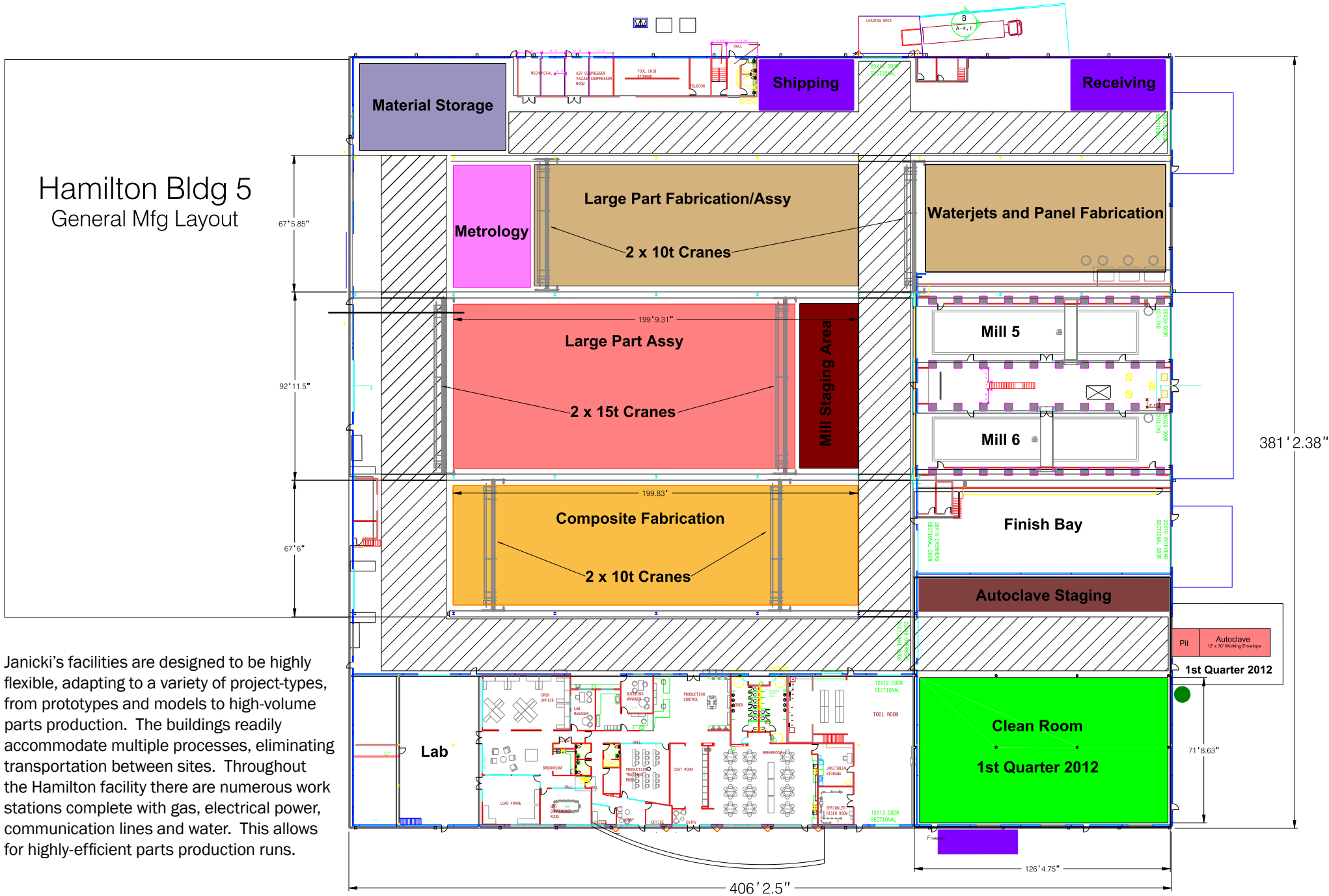
- 5 manufacturing buildings
- 289,000ft²/26,849m² production capacity
- 6 large-scale high precision (± 0.002 in/ ± 0.05 mm) 5-axis CNC mills
- Milling envelopes of 100ft x 20ft x 8ft/ 5.5m x 4m x 2m
- High bays
- Multiple work stations for large- volume production
- Temperature and humidity controlled
- 118 acres/47.7hectares

Utah

- 100,000ft²/9,290m² production capacity
- Plant expansion options
- 3 large-scale, high precision (± 0.002 in/ ± 0.05 mm) 5-axis CNC mills
- Milling envelopes of 80ft x 14ft x 6ft/ 24m x 4m x 2m
- Designed for high-volume, large scale parts production
- Temperature and humidity controlled
- Located adjacent to Hill Air Force Base
- 6 acres/2.4hectares



Hamilton Bldg 5 General Mfg Layout



Janicki's facilities are designed to be highly flexible, adapting to a variety of project-types, from prototypes and models to high-volume parts production. The buildings readily accommodate multiple processes, eliminating transportation between sites. Throughout the Hamilton facility there are numerous work stations complete with gas, electrical power, communication lines and water. This allows for highly-efficient parts production runs.

EQUIPMENT

Extensive equipment resources

Janicki Industries Premier Equipment: Proprietary 5-axis machining centers

Janicki Industries' machining centers are some of the largest, most precise in the world.

These 5-axis, gantry style CNC machines are designed, built, programmed, automated and maintained by Janicki.

Rotary axes on the machines have continuous contouring capabilities.

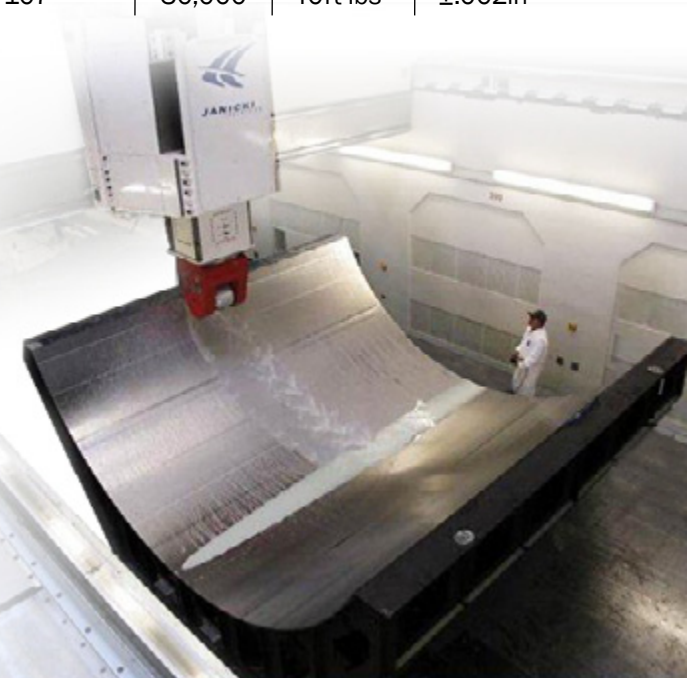
[▶ Metric Units Chart](#)

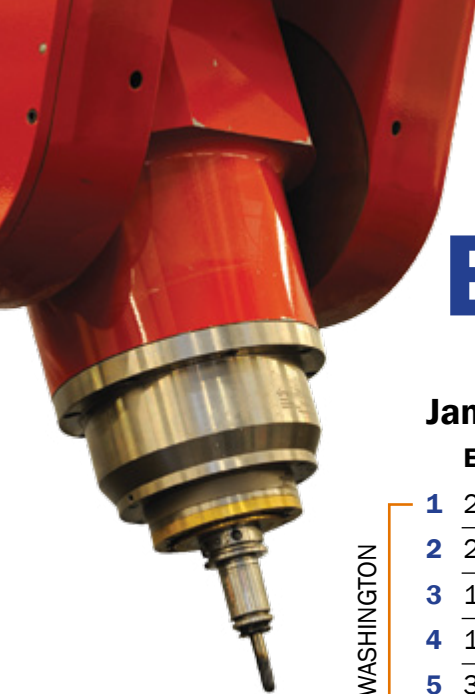
Janicki Proprietary Mills ENGLISH UNITS

	Envelope Size	X-Axis	Y-Axis	Z-Axis	Rotary Axes	Spindle RPM	Spindle Torque	Accuracy
WASHINGTON	1 68ft x 19ft x 8ft	816in	228in	96in	± 195° / ± 100°	13,000	27ft lbs	±.015in
	2 88ft x 19ft x 8ft	1065in	235in	96in	± 203° / ± 106°	10,000	230ft lbs	±.006in
	3 40ft x 12ft x 5ft	480in	144in	60in	± 204.5° / ± 110°	20,000	32ft lbs	±.004in
	4 58ft x 14ft x 6ft	696in	144in	72in	± 204.5° / ± 110°	20,000	32ft lbs	±.004in
	5 100ft x 20ft x 8ft	1200in	240in	96in	± 204.5° / ± 110°	24,000	64ft lbs	±.004in
	6 100ft x 20ft x 8ft	1200in	240in	96in	± 204.5° / ± 110°	24,000	64ft lbs	±.002in
UTAH	7 18ft x 14ft x 6ft	216in	168in	72in	± 251° / ± 107°	30,000	40ft lbs	±.002in
	8 18ft x 14ft x 6ft	216in	168in	72in	± 251° / ± 107°	30,000	40ft lbs	±.002in
	9 80ft x 14ft x 6ft	960in	168in	72in	± 251° / ± 107°	30,000	40ft lbs	±.002in

Cranes ENGLISH UNITS

	Brand	# of Cranes	Tons Capacity	Span	Hook Ht .
WASHINGTON	Demag	5	15		
	Demag	1	10		
	Demag	2	25	77'8"	28'8"
	Demag	1	15	36'4"	22'10"
	Konecrane	2	10	64'5"	32'2"
	Konecrane	2	15	86'10"	30'9"
UTAH	Konecrane	2	10	64'5"	32'2"
	Hoj crane/ Kone hoist	1	15	88'9"	25'4"





Equipment CONTINUED

Janicki Proprietary Mills METRIC UNITS

	Envelope Size	X-Axis	Y-Axis	Z-Axis	Rotary Axes	Spindle RPM	Spindle Torque	Accuracy
WASHINGTON	1 20.7m x 5.8m x 2.4m	2072.6cm	579.1cm	243.8cm	± 195° / ± 100°	13,000	36.7Nm	±0.38mm
	2 26.8m x 5.8m x 2.4m	2705.1cm	596.9cm	243.8cm	± 203° / ± 106°	10,000	312.8Nm	±0.15mm
	3 12.2m x 3.7m x 1.5m	1219.2cm	365.8cm	152.4cm	± 204.5° / ± 110°	20,000	43.5Nm	±0.10mm
	4 17.7m x 4.3 x 1.8m	1764.8cm	365.8cm	182.9cm	± 204.5° / ± 110°	20,000	43.5Nm	±0.10mm
	5 30.5 x 6.1 x 2.4m	3048.0cm	609.6cm	243.8cm	± 204.5° / ± 110°	24,000	87.0Nm	±0.10mm
	6 30.5 x 6.1 x 2.4m	3048.0cm	609.6cm	243.8cm	± 204.5° / ± 110°	24,000	87.0Nm	±0.05mm
UTAH	7 5.5m x 4.3m x 1.8m	548.6cm	426.7cm	182.9cm	± 251° / ± 107°	30,000	54.4Nm	±0.05mm
	8 5.5m x 4.3m x 1.8m	548.6cm	426.7cm	182.9cm	± 251° / ± 107°	30,000	54.4Nm	±0.05mm
	9 24.4m x 4.3m x 1.8m	2,438.4cm	426.7cm	182.9cm	± 251° / ± 107°	30,000	54.4Nm	±0.05mm

Cranes METRIC UNITS

	Brand	# of Cranes	Metric Tons Capacity	Span	Hook Ht .
WASHINGTON	Demag	5	13.6		
	Demag	1	9.1		
	Demag	2	22.7	23.7m	8.7m
	Demag	1	13.6	11.1m	6.9m
	Konecrane	2	9.1	19.6m	9.8m
	Konecrane	2	13.6	26.5m	9.4m
	Konecrane	2	9.1	19.6m	9.8m
UTAH	Hoj crane/ Kone hoist	1	13.6	7.7m	

[▶ English Units Chart](#)



Equipment CONTINUED

Complete Machine Shop

- Haas SL-20 CNC lathe
- Republic Lagun RL-14X40 manual lathe
- Mazak VTC-300C vertical mill
- Bridgeport EZVISION mill
- OMV Brave mill
- Mitsubishi 4-axis horizontal boring mill



CNC Waterjet Cutters

- Ward 2-Axis Waterjet
12ft x 40ft x 10in/3.4m x 12m x 25cm
- Flow 2-Axis Waterjet
6ft x 12ft x 10in/1.8m x 3.4m x 25cm

CNC Komo Router #VR510TG

- 3-axis
- 5ft x 10ft x 12.5ft/ 1.5m x 3.1m x 3.8m

Ovens

- 400°F/204°C oven — 100ft x 24ft x 14ft/
30m x 7m x 4m
Modular
- 500°F/260°C
modified Despatch oven
30ft x 10ft x 10ft/9m x 3m x 3m
- 250°F/121°C
40ft x 20ft x 10ft/12m x 6m x 3m
- Multiple modular tent ovens
- 2 Wisconsin ovens 500°F/260°C
- 2 testing ovens 500°F/260°C

Autoclaves

LAB AUTOCLAVE

- 500°F/260°C
- 150psi/10.5Kg/cm
- 30in/.76m diameter, 36in/.91m deep



Production Autoclave

- 550°F/288°C
- 150psi/10.5Kg/cm
- 12ft/3.6m diameter, 50ft/15.2m deep
(5,625ft³/160m³)
- 50,000lb/22.7 metric tonnes load capacity



Annealing Furnace

- 1600°F/871°C
- 72ft x 24ft x 11ft/22m x 7m x 3.4m
- Heat distribution delta T 35°F/19.4°C
- Semi-truck accessible
- Modular for expansion to 108ft/33m



Cleanroom

- 9300 ft²

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Equipment CONTINUED



Painting and Curing Booth

PAINT

- 60ft x 16ft x 10ft/18m x 4.8m x 3m
- Door 9ft x 12ft/2.7m x 3.6m
- Permitted for chromated aerospace paints

CURE BOOTH

- 26ft x 16ft x 10ft/7.9m x 4.8m x 3m
- Door 9ft x 12ft/2.7m x 3.6m



CNC Waterjet Cutters

- Ward 2-Axis Waterjet
12ft x 40ft x
10in/3.4m x 12m x
25cm
- Flow 2-Axis Waterjet
6ft x 12ft x 10in/1.8m
x 3.4m x 25cm

CNC Komo Router

- 3-axis
- 5' x 10' x 12.5' / 1.5m x 3.1m x 3.8m

Weld Shop

- Eight modular weld tables can be configured as needed
- Each table 18ft x 18ft/ 5.5m x 5.5m
- Surfaces laser tracked for accuracy (± 0.02 in/.05cm)
- Two 25 ton/22.6 metric ton capacity cranes in invar shop
- 4 Fronius push/pull pulsed GMAW welding machines
- Lincoln and Miller welding machines
- Tube and pipe pinch/bend machine

AWS CERTIFIED PROCESSES FOR:

- GMAW-P Invar36*
- GTAW Invar36*
- GTAW Aluminum Alloy 6061 and other M23 alloys
- GMAW Aluminum Alloy 6061 and other M23 alloys
- GMAW Aluminum for class M25 alloys
- FCAW steel
- GMAW steel
- FCAW stainless steel

** Invar welding processes certified per AWS D1.1 standards*

Certifications

- AS9100C
- ISO 9001:2008
- Registered/ITAR compliant with DoS, DDTC
- Digital Product Definition (Metrology) approved by Boeing to D6-51991 Standard
- 6 Internal Auditors, trained in both ISO 9001 and AS 9100 Standards
- Calibration Program meets requirements of ISO/IEC 17025:2005, ANSI/NCSL Z540-1-1994 and A2LA
- Approved source for Lockheed Space Systems Co.



[▶ Weld certifications](#)



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ISO 9001:2008

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