



**THE GILL CORPORATION**



## **PRECISION MACHINING**

**Build-to-Print Metallic Parts and Assemblies for Aerospace Applications**

# Inspection Equipment

Machine	Function	Size	Comments
Romer Inspection Arm	Manual Dimensional Inspection	8.2 ft. Measuring Range/ 7 Axis	Volumetric Accuracy: +/- 0.008 Single Point Accuracy: +/- 0.0011 Polyworks Software
Faro Inspection Arm	Manual Dimensional Inspection	8 ft. Measuring Range/ 7 Axis	Volumetric Accuracy: +/- 0.016 Single Point Accuracy: +/- 0.0011 Polyworks Software
Hexagon Metrology 710.7SF	Brown & Sharpe DCC Programmable Measuring Machine	28" x -39.8"Y -26.8" Z Measuring Capacity	Single Point Accuracy: +/- .000013 PC DMIS Software
FabriVision	Flat Pattern Scanner	48" Wide x 72" Long Measuring Capacity	Optical Scanner for Measuring/ Inspection of Flat Patterns
Non-Destructive Testing	Liquid Penetrant Inspection	48" x 48" x 30" Tanks	Special Process Inspection ASTM-1417, BAC5423, and BSS7039

**Precision Machining** maintains DPD/MBD approvals from airframe OEM as well as having Nadcap approval for liquid penetrant inspection.

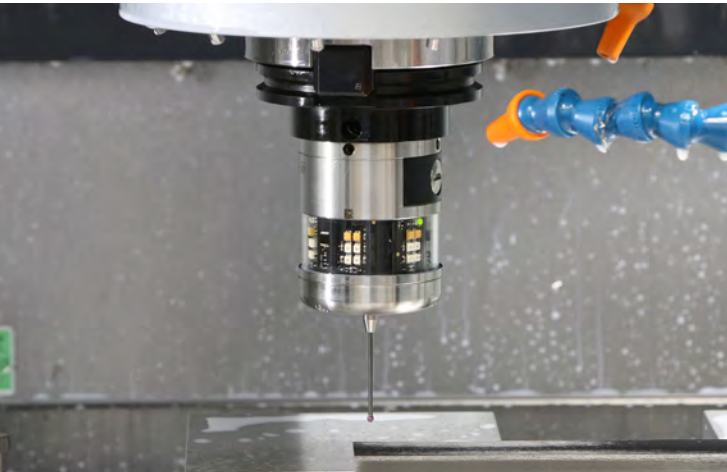
Please consider **The Gill Corporation, Precision Machining**, for your programs requiring close tolerance machining. We specialize in the machining of titanium and can provide turn-key solutions involving kitting and fabrication.



Romer Inspection Arm



Faro Inspection Arm Measuring an Aluminum Hog-Out



Renishaw Inspection Probe Mounted on a Vertical Machining Center



Brown & Sharpe DCC Programmable Measuring Machine

## Precision Machining

### Close Tolerance Machining For Aerospace Applications

The Gill Corporation was founded in 1945 and is headquartered in El Monte, California with additional manufacturing facilities in the Maryland, France and Northern Ireland. We are an original equipment manufacturer of high performance composite products including honeycomb core, sandwich panels and laminates. Our products are used in a diverse range of aerospace, defense and non-aircraft applications. The corporation occupies over 700,000 square feet of manufacturing space and has over 1,000 employees.

Our newest business unit, **Precision Machining**, is focused on the machining and forming of metallics and assembly of metallic structures. This manufacturing capability provides The Gill Corporation with a unique opportunity to support composite programs with metallic content in addition to providing stand-alone machined parts and assemblies.

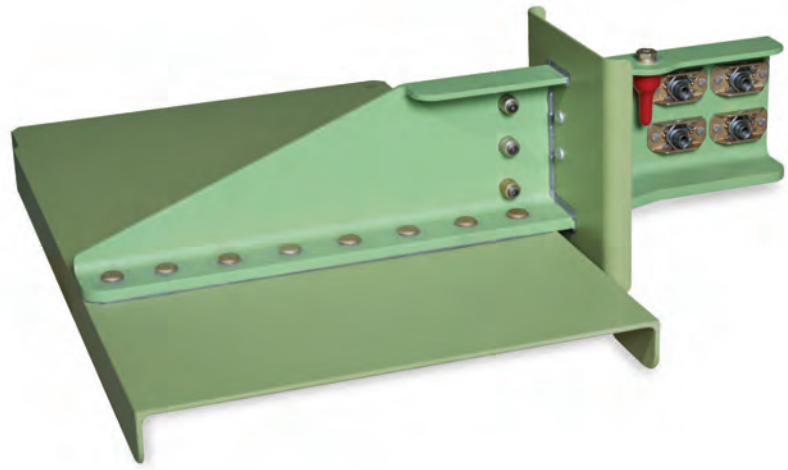
We manufacture extreme precision parts, on time, with the highest degree of customer service.



Two OKK Horizontal machining centers mated to a Fastems linear transport pallet changer  
Eliminates repetitive set-ups; operator labor limited to loading material and unloading finished product; a true lights-out manufacturing operation.

## Manufacturing Expertise

- 3 Axis machining of hard alloys with an emphasis on Ti 6AL-4V  
Plate | Extrusions | Sheet
- Fabrication of complex assemblies
- Forming of Aluminum and Titanium sheet
- Surface treatments; primer and top coat applications
- Non-destructive testing; Nadcap Certified liquid penetrant inspection



## Our Machining Centers

- All of our machining centers have robust frames for stable and rigid machining platforms
- High torque value machines ideal for hard alloy work
- 50 taper tool holders
- Thru-spindle and 1000psi coolant pumps for max chip removal
- Equipped with Renishaw touch probe technology for in-cycle measurement
- Utilize the latest high performance cutting tools for maximum material removal and optimal part quality



Flexible Container System with 20 Pallets

## Machine List

Count	Machine	Machine Type	Size	Comments	Spindle Speed	HP	Tool Capacity	Axis
1	2016 Yama Seki BL 1600	Vertical Machining Center	67" x 31.5" Table	50 Taper	6000 RPM	35 HP	120	3 and 4th Prewired
8	2016 Yama Seki BL 1200	Vertical Machining Center	51.2" x 23.6" Table	50 Taper	6000 RPM	25 HP	30	3 and 4th Prewired
2	2016 OKK HM800S	Vertical Machining Center	31.5" x 31.5" Table	50 Taper	1200 RPM	40 HP	188	3 and 4th Prewired
1	Fastems	Flexible Container System	20 Pallet Capacity	Scheduling Software	<b>CAD SOFTWARE</b> - Mastercam - Catia V5 and V4 - AutoCAD - Solidworks			
1	Spray Systems	Paint Booth and Cure Oven	32' Long x 15' Wide	Primer/Top Coat Applications Mil-PRF-23377; 22750; 85582; 35177; BMS10-11; 10-60 & Other				
1	Broach Machine	Vertical Pull	24" Stroke 24 Tons	15-30 FPM; Specialty Machine for Machining Hex Shaped Holes				
1	2016 Cincinnati Max Form 8	Press Brake	10' Wide	5 Axis Backgagge; Thickness Compensation; Bend Simulation; Fully Programmable				
1	HTC	Press Brake	12' Wide	200 Ton Mechanical; Conventional				
1	Atlantic	Shear	10' Wide	Ti and Al Sheet				
1	Cincinnati	Shear	10' Wide	1/4 Mild Steel; 3/16th's SS				

High Performance Cutting Tools

Our extensive range of state-of-the-art equipment allows us to offer our customers extreme precision, fast turn-around, and competitive pricing.

## **QUALITY POLICY**

The Gill Corporation provides products and services that always meet or exceed our customer requirements. We will continually improve the effectiveness of the quality management system to meet the needs of all interested parties - our employees, suppliers and customers.



**THE GILL CORPORATION**

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