

## ***Facilities and Equipment***

### ***Milling Equipment***

- 4" DeVlieg Horizontal Jig Mill, 60" x 60" travels 4 axis CNC with positioning 30" x 40" rotary table
- Johnford 35" x 120" Vertical Machining Center with 20 position
- Automatic tool changer
- Yang 20" x 40" Vertical Machining Center with 4th axis and 20 position automatic tool changer
- Cincinnati VMC 32" x 100" Travels with 36 position automatic tool changer 2008
- Johnford VMC 26" x 48" travels with 24 position automatic tool changer 2009
- 2018 VMC VIPER 51" Y x 126" X, 38" Z travels with 40 position automatic tool changer.
- 2019 VMC HAAS VF-3YT/50 40" X , 26" Y X 25 Z with 4th axis and 30 position automatic tool changer.
- 4" DeVlieg Horizontal Jig Mill, 48" x 60", Travels with 3 Axis DRO
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- 3" DeVlieg Horizontal Jig Mill, 48" x 72", Travels with 3 Axis DRO
- 5" Lucas Horizontal Boring Mill, 72" x 108", Travels with 3 Axis DRO
- 4" Lucas Horizontal Boring Mill, 48" x 78", Travels with 3 Axis DRO,
- 4" Innocenti Planer Type Horizontal Boring Mill 87" x 258" Travels Rebuilt 2010
- Giddings and Lewis 5" HBM, 72" x 108", Travels with 3 Axis DRO
- Climax Portable Key Mill
- Three (3) Bridgeport Style Vertical Milling Machines with 2 Axis DRO and Power Feeds
- Baker Keyseater, 2-1/2" x 24" Capacity
- Various Airlift Rotary Tables from 48" x 72" to 25" Square
- Complete Assortment of DeVlieg Angle Plate
- Complete Assortment of DeVlieg Microbore Boring Equipment
- Wohlhaupter Boring & Facing Head to 38" capacity
- Right Angle Head – 50 Taper
- Wohlhaupter Boring & Facing Head to 18" capacity

### ***CNC Turning***

- Clausing 20" Swing, 80" Center CNC
- Daewoo – 28" Swing, 118" Centers, CNC Long Bed – 6-7/8" Diameter Bore, Double 20" Pneumatic
- HAAS ST-20Y with Live Tooling/Milling, 11.75" Swing, 22.5" Centers

### ***Manual Turning***

- Bullard 60" Swing VTL CNC
- Leblond 15" Swing, 36" Centers Tool Room Lathe
- Hwacheon 28" Swing, 118"Centers, Travels with 2 Axis DRO
- Mazak Engine Lathe 20" x 80" Centers, Travels with 2 Axis DRO

### ***Drilling Equipment***

- Ikeda 9" Column x 4'0" Radial Arm
- 20" Clausing Drill Press with Power Feeds
- Slugger Magnetic Drill
- Four (4) Flexarm Portable Tapping and Drilling Units

### ***Grinding Equipment***

- 12" x 48" G & L Surface Grinder
- Dumore Tool Post Grinder
- Hammond Carbide Chip Breaker Grinder, Model CBW-6
- Belt Sander, 10" x 71" Belt, Vertical
- Pedestal Grinders 6" to 12"
- Ryman Belt Grinder Adaptable to Large Engine Lathes

### ***Inspection Equipment***

- Faro portable coordinate measuring machine (CMM), 3D inspection tool for dimensional analysis, tool certification, and reverse engineering with CAM2 Measure 10.1 inspection software and laser scanner.
- Set Aside Inspection Area
- Sunnen Dial Bore Gauging System, .4" to 9" Diameter
- Vernier Calipers to 72"
- Outside Micrometers up to 36" depth, micrometer .0005 increments
- Certified Gage Blocks, Gage Pins and Micrometer Standards
- 38" x 72" Granite Inspection Table
- Rockwell Hardness Tester
- Surface Finish Analyzer
- 0" to 60" Height Gages
- 1/2" to 6" Telescoping Gages
- 2" to 107" Inside Micrometers
- 0" to 12" Depth Micrometers

- 3" to 5" Starrett Bore Gage
- 10" and 20" Sine Bars
- 0" to 1" Chamfer Gage (90 Deg to 127 Deg)
- Go/NOGO Thread Gages
- Go/NOGO Pin Gages
- Mil Thickness Gage (Wet/Dry)
- Hydraulic and Hydrostatic Test Equipment
- ISO 9001:2015 certified

### ***Mastercam Offline Programming***

- Capability to send, receive, and plot drawings electronically through a wide range of software. (IGES,DWG,DXF,PDF,MC9)

### ***Fabricating Equipment***

- Miller Semi-Auto Welder with Aluminum Hand Guns, 225 AMP
- 600 AMP AC/DC Welding Machine
- 800 AMP Lincoln Semi-Automatic Welder with Wire Feeder
- 400 AMP Linde Mig Welder
- Miller Mig Welder, 200 AMP
- 300 AMP Linde Mig Welder with Wire Feeders
- 600 AMP Hobart Mig Welder with Wire Feeders and Boom
- 200 AMP Hobart Mig Welder
- Inert Atmosphere Welding Chamber
- Thermal Dynamics Cut Master 51 Plasma Unit
- 600 AMP Lincoln M.G. Set Carbon Arc
- Piranha Iron Worker 110 Ton
- 25 Ton Hydraulic Press-Vertical
- 100 Ton Wheel Press-Horizontal
- 150 Ton Vertical Press
- Pacific Hydraulic Press Brake ¼" @10'0
- Watson Stillman 400 ton Straightening Press
- With 15'0 table
- Sand Blasting Unit-Enclosed Cabinet Style
- Electrode Warming Ovens
- Wheel Pre-Heater, Gas Fired
- Welding Certified to D1.1

- Welding Certified to NAVSEA S9074-AR-GIB-010/248
- Welding certified to D14.1
- Blinks Paint Booth
- Specialized Coatings, Industrial, Automotive and Military

### ***Cutting Equipment***

- Doall Vertical Bandsaw, 36" Throat with Blade Welder
- Doall Vertical Bandsaw, 18" Throat with Blade Welder
- Cosen SH-500M Horizontal Saw
- Supercraft Abrasive Cut-off Saw 24" Wheel, 15 H.P
- Marvel 18"x 20" Vertical Band Saw with 45 deg tilting head
- Bailey 14" Precision Cold Saw

### ***Lifting Equipment***

- 12,000 Pound Caterpillar Fork Lift
- 5,000 Pound Caterpillar Fork Lift
- 10,000 Pound Overhead Crane 13' – 0 to Hook (Weld Shop)
- 10,000 Pound Overhead Crane 13' – 0 to Hook (Weld Shop)
- 10,000 Pound Overhead Crane 13' to Hook (Machine Shop)
- 10,000 Pound Overhead Crane 13' to Hook (Machine Shop)
- 4,000 Pound Jib Crane
- 1,000 Pound Jib Crane
- 2,000 Pound Jib Crane

### ***Assembly***

- Complete Mechanical, Hydraulic, Pneumatic and Electrical
- Induction Bearing Heaters
- 10,000 lb. Crane in Assembly Area
- Hydraulic Test Unit

### ***Shipping***

- Complete Crating and Boxing Facilities