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# Facilities List

July 2018

*Waterjet/Plasma  
Fabrication  
CNC Machining  
Sheet Metal  
Assembly  
Painting (CARC)  
CMM Inspection*

*Full-Service Contract Manufacturers  
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## HIGHLIGHTS

### Machine Shop

- 3 OMAX waterjet machining centers (including 5-axis)
- 2 Haas VF-9/50 vertical machining center
- Haas ST-30Y Turning Center
- Okuma Cadet Mate CNC vertical machining center
- Okuma MC-30VA CNC vertical machining center
- Leadwell MCV-1300 CNC vertical machining center
- 2 Bridgeport CNC milling machines
- Lathes: assorted manual
- Drill Presses: assorted

### Fabrication

- Welding: MIG, TIG, Stick
- Materials: carbon steel, stainless, aluminum, copper, copper-nickel alloys, alloy tool steels, titanium
- Certified to AWS standards D1.1 (steel), D1.2 (aluminum), D1.3 (sheet steel), D1.6 (stainless steel), D1.9(titanium), D17.1 (aerospace) and NAVSEA
- Ironworker: Piranha Model P-70
- Hy-Definition CNC plasma cutter
- Press Brakes: gauge and plate
- Saws: band, vertical, disc, cold and hot saws

### Sheet Metal

- Murata-Wiedemann Motorum 2044 turret punch press
- Saws: Do-All, Walker, Turner
- Kuhlmeier Model ZBS 1 Twin-Belt Grinding and Polishing Machine
- Shear

### Engineering and Inspection Equipment

- AutoCAD Mechanical 2019, Autodesk Inventor 2019, Mastercam 2019, Sigma Nest, Striker Systems
- 5-axis CMM with PC Demis software
- Quality Assurance Manual per MIL-I-45208A

### Other

- Finishing: sandblasting, painting including CARC painting
- Local delivery in company-owned trucks

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## MACHINE SHOP

### CNC Machines

- 2 OMAX 80160 waterjet machining centers, table size: 174" x 91", X-Y Travel: 168" x 80",
- 1 OMAX EnduroMAX, 5-axis waterjet machining center, table size: 180" x 89", X-Y Travel: 165" x 80"
- 2 Haas VF-9 vertical machining center with 50-taper geared head, 30 hp (22.4 kw) vector drive, 7500 rpm Haas rotary axis HRT210, 80" X-axis, 40" Y-axis, 30" Z-axis, equipped with 3-jaw chuck or 6T-slot for fixturing or work holding, new 2008 and 2017
- 1 Haas ST-30Y Turning Center with 3400 RPM/30hp spindle, 12" chuck with 3" thru bore, 18" diameter with 23" travel in Z capability, programmable tailstock, live tooling
- 1 Okuma Cadet-Mate CNC vertical machining center, 40" X-Axis, 20" Y-Axis, 20" Z-Axis, 20-tool changer, 8,000 RPM
- 1 Okuma CNC vertical machining center, Model MC-30VA, 20" X-Axis, 13" Y-Axis, 15-3/4" Z-Axis, 16-tool changer, 6,000 RPM
- 1 Leadwell CNC vertical machining center, Model MCV 1300D, 50" X-Axis, 30" Y-Axis, 23" Z-Axis

### Milling Machines

- 1 Tree Tool & Die Works turret type milling machine, Model 2UV, swivels from vertical to horizontal positions, 8 spindle speeds
- 1 Bridgeport vertical type milling machine, 8 spindle speeds, Model F 7347 00217
- 1 Bridgeport vertical type milling machine with slotting head attachment, Model 20V, digital readout, Lyman power-feed 9" x 45" table

### Lathes

- 1 Monarch engine lathe, Model 612, 20" swing, 14-foot bed, 36 spindle speeds
- 1 Warner & Swasey turret lathe, universal type, Model M-2240, Number 4

### Saws

- 1 Do-All metal cutting band saw, Model ML, 16" capacity, 24" x 24" table
- 1 Do-All horizontal metal cutting band saw, Model C-260A, 10" diameter capacity
- 1 Walker-Turner metal cutting band saw 7" capacity, 16" x 16" table
- 1 Delta abrasive cut-off saw, 10" blade, radial type
- 1 Cosen horizontal miter-cut band saw, Model SH-330ER, 12" x 12"

### Drill Presses

- 1 Ikeda radial drill press, Type RM 1300 column, 3-foot arm, 3.7 KW motor
- 1 Sequorney 4-spindle drill press, 11" capacity, sliding-spindle head

- 1 Delta 5-spindle drill press, 17" capacity, 8' x 30" table
- 1 Burgmaster 6-spindle automatic indexing turret drilling machine, 12" x 18" table
- 1 Powermatic 6-spindle drill press, Model 1200

### **Grinders**

- 1 Do-All hydraulic surface grinder, 8" x 24" magnetic table
- 1 Do-All hydraulic surface grinder, 6" x 18" magnetic table
- 1 Brown & Sharpe Number 2 surface grinder, 6" x 18" magnetic table
- 1 Reid surface grinder, Model 618V, 6" x 18" magnetic table, Pope spindle style P-32-T
- 1 K.O. Lee tool and cutter grinder, Model B600-12-50, 24" x 5" single-slot universal table, motor driven head
- 1 Rotorex-Hunder Engineering tool and cutter grinder, Model 101A, single-slot universal hand-feed 24" x 6" table, ID attachment
- 1 Black Diamond drill grinder, for ½" to 2½" diameter drills
- 1 Black Diamond precision drill grinder, Number 9095, Size 2
- 1 Heavy duty double-end grinder, 10" diameter grinding wheels
- 1 Kalamazoo Industries heavy duty ball bearing double-end grinder, Model 67-195-30, 6" diameter grinding wheels

### **Miscellaneous Machine Shop Equipment**

- 1 Demag jib crane, ½-ton capacity, 8" x 1" x 10' beam, 1½ ton Hitachi electric hoist
- 1 Shepard Niles Crane and Hoist 5-Ton monorail, Model 540, wire cable hoist
- 1 Demag 5-Ton traveling bridge crane, 26-foot span

## **FABRICATION AND SHEET METAL SHOP**

### **Brakes and Shears**

- 1 Niagara press brake, Model 1B-60-8, 3" stroke, ram adjustable 5", 60-ton x 10' capacity
- 1 Niagara press brake, Model HBM-135-10-12, 135 ton x 12' capacity with Hurco CNC back gauge
- 1 Piranha Model P-70 Single Operator Ironworker
- 2 Manual bending brakes, 48" and 60" long
- 1 Cincinnati 100-Series hydraulic shear, 250 ton x 120" capacity
- 1 Pexto power shear, 14" x 48" bed, 14-gauge x 48" capacity
- 1 Heckert plate shear, Model ScTP 16 x 3150, 5/8" x 10' capacity
- 1 Pacific press brake, Model 211-12, 235 ton x 10' capacity

**Forming Equipment**

- 1 Cole-Tuve plate bending rolls, initial pinch type, 60" x 5"
- 1 Tennsmith roll forming machine, Model SR48P, 16-gauge capacity (mild steel)
- 1 Pexto vertical roll forming machine, two 2½" diameter x 2" wide rolls
- 1 Milton Equipment power-operated pyramid forming rolls, three 3" diameter x 48" long rolls
- 1 Niagara bending machine, manually operated, 50" long
- 1 Parker tube bender, Model 1216, hydraulically operated cylinder, 6" bending diameter capacity

**Presses**

- 1 Murata-Wiedemann Motorum 2044 turret punch press, 20-metric-ton punching capacity, 300 hits-per-minute punching, 500 hits-per-minute nibbling, 2 auto indexing stations
- 1 Wiedemann-Warner & Swasey Templematic turret punch press, type RA42P, 24 indexing stations, pneumatic material clamp, 7' x 5' table, 36" throat

**Fabrication Welding Equipment**

- 1 Millermatic 250X mig welder
- 5 Miller CP-302 mig welders with S-64 wire feeders
- 1 Deltaweld 302 MIG and Stick welder
- 1 Deltaweld 452 MIG and Stick welder
- 1 Millermatic 350 P Welder
- 1 Miller Syncrowave 351 TIG welder
- 1 Miller Syncrowave 350 TIG welder
- 1 Nelson stud welder, Model TR-850

**Sheet Metal Welding Equipment**

- 1 Welding Technologies spot welder, Model DN 55, 55 KVA
- 1 Peer Inc. spot welder, Model AR 335, 35 KVA, 24", with sequence timer panel Model 5B7C and heat control panel Model 75
- 1 Ace spot welder, 12", 3 KVA, water-cooled
- 1 Airco "Phase Arc 350" arc welder with auto-reel
- 1 Lincoln Idealarc TIG/Stick welder, 300-amp, Model 300/300
- 1 Miller Syncrowave 350 TIG welder

**Other Fabrication Equipment**

- 2 Metal Master MG CNC Hy-Definition plasma cutting center, table size 72" x 120", 1" thick aluminum and stainless steel, 1-1/4" thick mild steel, near-laser quality cutting
- 1 Esab plasma cutter, Model 34828, 1" stainless cutting capacity
- 1 Atlas welding positioner, Model 200
- 1 K.N. Aronson welding positioner, Model HD20A-PTVR2, 21,000 inch-pound tilt torque capacity
- 2 Bridge cranes, 5-ton, 40' span, 1 - Demag and 1 - Robbins & Myers
- 1 Steelmax SM-BM21 Beveling Machine

**FINISHING EQUIPMENT****Blasting & Sanding Equipment**

- 1 Empire sand blast system in isolated 15' x 20' x 10' high enclosure, with Effective Control dust collection system
- 1 Kuhlmeyer Model ZBS1 Twin-Belt Grinding and Polishing Machine
- 1 Zero Blast-N-Peen machine, Model BNP 55-6, 20" x 42" surface x 26" high enclosure
- 1 Delta disc sander, 12" diameter
- 1 Mead vertical sander, 1" x 19"

**Painting Equipment**

- 1 Paint booth, 24' long x 14' wide x 10' high
- 1 Graco AirPro Spray Gun, compliant, with 3M PPS cup
- 1 PosiTector 6000 Coating Thickness Gage (DeFelsko Corporation)

**ENGINEERING AND INSPECTION**

- Knowledgeable in mechanical, pneumatic, hydraulic, electrical and electronics design
- Operating software: AutoCAD Mechanical 2019, Autodesk Inventor 2019, Mastercam Sigma Nest, Striker Systems
- Brown & Sharpe Xcel 9129 CMM with Tesa-Star-m TKJ Motorized Probe Head, Tesa-Star Touch Trigger Probe and PC-DMIS CAM (GD & T) software.  
Measuring range: X: 900mm (35.4), Y:1200mm (47.2"), Z:850mm (33.5")
- 1 SIC Standalone dot peen marking station (e10 range)
- Connected to Internet via networked broadband connection
- Multiple, large-drawing plotters

**MISCELLANEOUS PLANT FACILITIES**

- 1 Endoscope, 6 LED low lux luminate, waterproof usb
- 1 Ingersoll-Rand air compressor, Model SSR-XF50, 216 CFM, 50 HP
- 1 Atlas Copco air compressor Model GAU 40-100/125
- 1 Worthington air compressor, Model AV type "U", 15 HP
- 1 International (2006) flat-bed truck
- 1 Isuzu (2010) stake body truck, 14' bed
- 3 Fork lift trucks, 6,000-pound capacity
- 1 Raymond electric fork truck, Model 251, 2,000- pound capacity
- 1 Newton hydraulic hydrotruck
  - 440-Volt, 1200-amp service in 3 bays
  - 20,000 square foot machine shop
  - 10,000 square foot sheet metal shop
  - 20,000 square foot fabrication shop
  - 10,000 square foot sheet assembly area
  - 10,000 square foot engineering, design and office area