

## FACILITIES LIST

### HORIZONTAL MACHINING CENTERS

**(1) Toshiba BP-150 P45 Boring Bar**

- Travel: X=180" Y=90" Z=71" W=32"  
w/36" x 48" Rotary Table
- Tosnuc 888 Control • 38 Tool Magazine
- Renishaw Probe
- Max Weight: 44,000 lbs.

**(1) Toshiba BTD-13F, R22 CNC Boring Bar**

- Travel: X=118" Y=90.5" Z=63" W=27.5"  
w/ Rotary Table
- Tosnuc 888 Control • 38 Tool Magazine
- Max Weight: 22,000 lbs.

**(2) Toshiba BTD-200QF CNC Boring Bar**

- Travel: X=59" Y=47" Z=28" (w/Rotary Table)
- Tosnuc 888 Control • 30 Tool Magazine
- Max Weight: 6600 lbs.

**(1) Mazak FH-4800 HMC**

- Travel: X=22" Y=24" Z=22"
- (2) 400 mm Pallets & (2) Auxiliary Pallets
- Mazatrol 640 PC-Fusion CNC Control
- 40 Tool Magazine
- Max Weight: 880 lbs.

**(1) Niigata HN80-C HMC**

- Travel: X=60" Y=48" Z=36"  
w/31.5" x 31.5" Rotary Table, 2-Each Pallet System
- Fanuc 15M Control
- Max Weight: 3310 lbs.

**(1) Niigata HN130-B Boring Bar**

- Travel: X=78.8" Y=61.8" W=15.8"
- (2) 1360 mm Pallets & (2) Auxiliary Pallets
- Fanuc 15M Control • 120 Tool Magazine
- Renishaw Probe
- Max Weight: 5500 lbs.

**(1) HNK HB-150 Boring Bar**

- Travel: X=118" Y=98" Z=63" W=27.6"
- Table Size: 78.7" x 86.6" (w/Rotary Table)
- Fanuc 31i Control • 60 Tool Magazine
- Max Weight: 44,000 lbs.

**(1) Mazak HTC-400 HMC**

- Travel: X=22" Y=20" Z=20"
- (2) 400 mm Pallets & (2) Auxiliary Pallets
- Mazatrol M Plus CNC Control • 30 Tool Magazine
- Max Weight: 660 lbs.

**(1) Mazak Nexus 6800-II HMC**

- Travel: X=41.3" Y=35.5" Z=38.6"
- (2) 630 mm Pallets
- Mazatrol Matrix CNC Control • 120 Tool Magazine
- Max Weight: 3310 lbs.

**(1) OKK HM800S HMC**

- Travel: X=41.3" Y=35.43" Z=34.64"
- (2) 800 mm Pallets
- Fanuc 31i Control • 60 Tool Magazine
- Renishaw Probe-
- Max Weight: 2,645 lbs

### VERTICAL MACHINING CENTERS

**(1) Mazak VTC 200G 4-Axis VMC**

- Travel: X=154" Y=20" Z=26"  
w/Rotary (A) Axis
- Fusion 640M Conversational Control
- 48-Tool Magazine
- Max Weight: 4600 lbs.

**(1) Mazak VTC 250-50D 4-Axis VMC**

- Travel: X=70" Y=25" Z=26"  
w/Rotary Axis (A) Axis
- Fusion 640M Conversational Control
- 24 Tool Magazine
- Max Weight: 3000 lbs.

**(1) Sigma SDV 3219 CMC**

- Travel: X=125" Y=75" Z=39"
- Fanuc 18i Control • 40 Tool Magazine
- Max Weight: 20,000 lbs.

**(2) Trak VMC**

- Travel: X=36" & Y=16"
- Protrak CNC Control

**(1) Mazak Nexus 510-II VMC**

- Travel: X=41.3" Y=20" Z=20"
- 12,000 RPM/30 HP • 30 Tool Magazine
- Mazatrol Matrix Control
- Max Weight: 2640 lbs.

**VERTICAL MACHINING CENTERS CONTINUED**

**(2) Mazak VTC-300C VMC**

- Travel: X=65.25" Y=30" Z=26" w/Rotary (A) Axis
- Mazatrol 640MN Control
- 24 Tool Magazine ● Max Weight: 3300 lbs

**(1) Trak DPM V7 Milling Machine**

- Travel: X=60" Y=23" Z=20.5"

**CNC Lathes/Turning**

**(1) Mazak Quick Turn Nexus 400-II Lathe**

- Max Chuck Diameter: 18"
- Max Turning Diameter: 22.8"
- Max Turning Length: 80"
- Max Thru Bore: 3.6"
- Max Swing: 33.2"

**(1) Doosan LB 4100LB**

- Max Chuck Diameter: 18"
- Max Turning Diameter: 21.7"
- Max Turning Length: 82.4"
- Max Thru Bore: 5.2"
- Max Swing: 31.1"
- Two-Axis

**(1) Mazak Quick Turn Nexus 350-II**

- Max Chuck Diameter: 12"
- Max Turning Diameter: 16.5"
- Max Turning Length: 23.8"
- Max Thru Bore: 4"
- Max Swing: 26.7"

**(1) Doosan Puma 2600-II Y**

- Twin Chucks Diameter: 10" & 8"
- Max Turning Diameter: 14.8"
- Max Turning Length: 29.9"
- Live Tooling-12
- Bar Feeder-3.5"

**(1) Southwestern Industries Trak-1630SX**

- Max Chuck 8"
- Max Turning Diameter: 13.8"
- Max Turning Length: 30"
- Max Thru Bore: 2.1"
- Max Swing: 16"

**(1) American Pacemaker Manual Lathe**

- Max Chuck Diameter: 14"
- Max Turning Length: 76"
- Max Swing: 18"
- Digital Readout

**(2) Southwestern Industries Trak TRL 2460V**

- Max Chuck Diameter: 21"
- Max Turning Diameter: 21"
- Max Turning Length: 55"
- Max Thru Bore: 4"
- Max Swing: 24"

**MISCELLANEOUS EQUIPMENT**

**(2) Flow I-6024 Dual Zone 87KD Water Jet**

- 5-Axis w/Dynamic Cutter Head ● 87,000 PSI
- Twin 6' x 12' Work Envelopes per machine ● 8" Cutting Thickness
- Flow Master PC-Based Controller

**(2) Habeler AL350/B Circular Saw**

- Double Air Vise System
- 6.3" Round Capacity

**(1) Marvel Cut-Off Saw 380A-PC60**

- 15" x 20" Capacity ● Touch Screen Programmable Control
- Programmable Miter Cutting & Bar Feed

**(1) Carlton Radial Arm Drill**

- 4 Foot Arm Length, 11" Column Diameter
- Working surface of base: 120" x 32"

**(1) Marvel Saw Spartan PA13/3EPL**

- 13" x 14" Capacity
- Programmable Bar Feed w/Bundle Capacity

**(1) Okamoto Precision Surface Grinder**

- 14" x 6" Table

**(1) Clausing 20" Drill Press**

- Floor Model
- 1-1/2HP ● 150-2000 RPM

**(5) Delta Drill Presses**

- Floor & Bench Models

**(1) SPX Power Team 100 Ton H-Frame Press**

- Electric Pump, Dual-Acting Cylinder

**MISCELLANEOUS EQUIPMENT CONTINUED**

- (1) Dadson K1375-1 Fagor Gundrill**
- Knee Type
  - 3 Axis Table
  - 1.375" Diameter x 31" Blind Depth / 62" Thru Depth

- (1) Mitsubishi FA10 CNC Wire EDM**
- Max Workpiece Dimensions: 31.4" x 23.6" x 8.4"
  - Maximum Workpiece Weight: 1,100 lbs

**INSPECTION EQUIPMENT**

- (1) Romer Model 7540 Portable CMM Arm**
- 6 Axis Absolute Arm for Tactile Measurements
  - Measuring Range: 13.1 ft. (4.0 m)
  - Point Repeatability: +/-0.0022 in. (0.055 mm)
  - Volumetric Accuracy: +/-0.0027 in. (0.069 mm)
  - Arm Weight: 19.6 lbs. (8.9 kg)

- (1) Brown & Sharpe CMM**
- 27.6" x 39.4" x 25.6"

- Brown & Sharpe Tri-Micrometers**
- 0.200" to 6.00"

**Mitutoyo Gage Blocks**

- (2) Granite Surface Plates**
- 48" x 72"

- Mitutoyo Micrometers**
- 0" to 24"

- (2) Mitutoyo Digimatic Height Gages**
- 1 at 24"
  - 1 at 40"

**Mitutoyo Dial Bore Gages**

- Starrett Inside Micrometers**
- 4 to 40"

- Mitutoyo Vernier Caliper**
- 40"

**Regal-Beloit Thread Gages**

**Federal Portable Surface Roughness Gage #EMD 1500**

**SHEET METAL and WELDING FABRICATION**

**Fitter Welders certified to AWS D1.1, D14.8 and D15.1**  
**Certified to weld A514 material**

**Brazing, Silver Solder & Cut-Off Torches**

- (1) Miller 350P Pulsed MIG Welder (350 amp)**

- (3) Welding Tables**
- 1 @ 60" x 96"
  - 2 @ 48" x 144"

- (1) Miller 351 TIG Welder (350 amp)**

- (1) Profax Welding Positioner**
- Table Diameter: 24.5"
  - Horizontal Weight Capacity: 1750 pounds
  - Vertical Weight Capacity: 1000 pounds

- (1) Lincoln 255 Deltaweld 451 MIG Welder (450 amp)**

- (1) Lincoln CV-300 MIG Welder (300 amp)**

- (1) Arbor Press @ 6 Ton**
- 21-1/2" Clearance

- (1) Lincoln CV-400 MIG Welder (400 amp)**

- (1) Miller Millermatic 185 MIG Welder (200 amp)**

- (1) Sheet Metal Brake: 48" x 16 gauge**

- (8) Weld Platen Tables**
- 6 at 5' x 5'
  - 2 at 5' x 8'

- (1) Sheet Metal Brake: 52" x 16 gauge**

- (1) Hydraulic Press @ 55 Ton**

- (1) Press Master - Broach Press @ 12 Ton**
- 24" Throat Opening

### DESIGN and ENGINEERING

- Solid Works 2017
- MasterCam 3-D (2017) CAD/CAM
- AutoCAD 2017
- Windows Workstations
- Canon iPF670 "D" Size Color Plotter
- PC DMIS CAD

### PREP and PAINT

- (1) Paint Spray Booth: 8' High x 12' Wide x 20' Deep
- (1) Paint Spray booth: 7' High x 5' Wide x 5' Deep
- (1) Paint Storage: Explosion-Proof Room: 10' x 12'
- (1) Pressure Blast Cabinet: 48" x 48" w/1 Ton Turntable
- (2) Abrasive Finishing Vibratory Tumbler
  - Burr Bench Model 2016
- (1) Vibratory Bowl Finishing Machine
  - Model AB-14
- (1) Alliance Aquamate RF-3648 Parts Washer
  - Rotary Table, Front End
  - Basket: 36" diameter x 48" Height (1250 lbs.)

### DELIVERY - SHIPPING and RECEIVING

- GMC C-7 10 Ton 24' Bed
- Ford F350 12' Flatbed
- Ford Transit Connect Van
- (3) Hyster S50XM Forklifts, 5,000 lb. Capacity
- (1) Toyota Forklift, 12,000 lb. Capacity
- (4) Pallet Trucks

### SHOP FLOOR CONTROL

- M-1 by Bowen-Groves: Software to manage resources, schedules and costing
- Quoting
- Shop Vision
- Production
- SupplyPro POU (Point-of-Use) System
- Accounts Payable
- Data Collection - Bar Code
- Accounts Receivable
- Purchasing
- General Ledger

### BUILDING and GROUNDS

- Shop Area: 120,000 Sq. ft.
- Office Area: 6,500 Sq. Ft.
- Lappen Security System w/Digital Cameras
- (6) Below Grade Loading Docks
- (7) At grade loading docks
- Shop air Filtering System (Hasting Air Energy Control)
- (2) Atlas 190 CFM Screw Compressors
- Airtek Refrigerated Air Dryer (SC 130)
- (10) Contrx Bridge Cranes, 10 Ton Capacity
- (6) Contrx Bridge Cranes, 5 Ton Capacity
- (2) Contrx Bridge Cranes, 2 Ton Capacity
- (3) Contrx Jib Cranes with 1/2 on Coffing Hoist
- Autoquip Powered Loading Docks, 5,000 lb. Capacity

### ASSEMBLY and ELECTRICAL

- Approximately 60,000 Sq. Ft. total in Four Separate Assembly Bays
- Max Lifting Capacity of 10 Ton @ 20 ft. Under Hook
- Customer offices with private entrances, lunchrooms & restroom areas, fully secured
- Mechanical & Pneumatic Assembly