



Providing World Class Machining and Fabrications Since 1995

## Innovative Machining Facility List

- **Business Established in 1995**
- **Approximately 125,000 square feet of manufacturing space**
- **Entire plant is climate controlled**
- **Turnkey Operations Include:**
  - **Production Machining**
  - **Prototype Machining**
  - **Fabrications**
  - **Value Added Assembly**
  - **Vibratory Finishing Equipment**
  - **Welding**
  - **Part Washing**
- **Equipment and Experience to machine multiple types of material. Included but not limited too: Aluminum, Stainless, Steel, Castings, Forgings, Plastics, and Alloys.**
- **Owns and operates fleet of trucks for local delivery**
- **Software Includes**
  - **ERP: M1**
  - **SolidWorks 2021**
  - **MasterCam 3D 2020**
  - **AutoCAD 2020**
  - **Micro Estimating**

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### Horizontal Machining Centers

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

- Travel | X: 180" Y: 90" Z: 71" W: 32"
- Rotary Table: 36" x 48"
- Tosnuc 888 Control
- 38 Tool Magazine
- Max Weight: 44,000 LBS
- Table: 70" x 180"

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

- Travel | X: 22" Y: 24" Z: 22"
- (2) 400 mm Pallets & (2) Auxiliary Pallets
- Mazatrol 640 CNC Control
- 40 Tool Magazine
- Max Weight: 880 LBS
- Table: 15.75" x 15.75"

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

- Travel | X: 22" Y: 20" Z: 20"
- (2) 400 mm Pallets & (2) Auxiliary Pallets
- Mazatrol M CNC Control
- 30 Tool Magazine
- Max Weight: 660 LBS
- Table: 15.75" x 15.75"

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

- Travel | X: 41.3" Y: 35.5" Z: 38.6"
- (2) 630mm Pallets
- Mazatrol Matrix CNC Control
- 120 Tool Magazine
- Max Weight: 3,310 LBS
- Table: 24.5" x 24.5"

#### **OKK HM800S HMC (1)**

- Travel | X: 41.3" Y: 35.43" Z: 34.64"
- (2) 800 mm Pallets
- Fanuc 31i Control
- 60 Tool Magazine
- Max Weight: 2,645 LBS

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

- Travel | X: 59" Y: 47" Z: 28"
- Rotary Table
- Tosnuc 888 Control
- 30 Tool Magazine
- Max Weight: 6,600 LBS
- Table: 39.5" x 39.5"

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

- Travel | X: 78.8" Y: 61.8" Z: 15.8"
- (2) 1360 mm Pallets & (2) Auxiliary Pallets
- Fanuc 15M Control
- 120 Tool Magazine
- Max Weight: 5,500 LBS
- Table: 52" x 52"

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

- Travel | X: 118" Y: 98" Z: 63" W: 27.6"
- Rotary Table
- Fanuc 31i Control
- 60 Tool Magazine
- Max Weight: 44,000 LBS
- Table: 78.7" x 86.6"

#### **Mazak HCN 6800(2)**

- Travel | X: 41.3" Y: 35.5" Z: 38.6"
- (6) 630mm Pallets
- Mazatrol Smooth Technology Control
- 160 Tool Magazine
- Max Weight: 3,310 LBS
- Table: 24.5" x 24.5"

#### **SMART NX 7000 (1)**

- Travel | X: 39.4" Y: 37.4" Z: 41.3"
- (2) 630mm Pallets
- Fanuc 31i Control
- 64 Tool Magazine
- Max Weight: 2,640 LBS

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### Vertical Machining Centers

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

- Travel | X: 154" Y: 20" Z: 26"
- Rotary A Axis
- Fusion 640M Conversational Control
- 48 Tool Magazine
- Max Weight: 4,600 LBS

#### **Sigma SDV 3219 (1)**

- Travel | X: 125" Y: 75" Z: 39"
- Fanuc 18i Control
- 40 Tool Magazine
- Max Weight: 20,000 LBS

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

- Travel | X: 41.3" Y: 20" Z: 20"
- Mazatrol
- 30 Tool Magazine
- Max Weight: 2,640 LBS

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

- Travel | X: 65.25" Y: 30" Z: 26"
- Rotary A Axis
- Mazatrol 640MN Control
- 24 Tool Magazine
- Max Weight: 3,300 LBS

#### **Smart SV2 VMC (1)**

- Travel | X: 31.4" Y: 19.6" Z: 19.6"
- Sumitomo Rotary Indexer
- Fanuc Control
- 30 Tool Magazine
- Max Weight: 1,320 LBS

#### **Trak VMC (2)**

- Travel | X: 36" Y: 16"
- Protrak CNC Control

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

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

### CNC Lathe Machining Centers

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

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

#### **Doosan LB 4100LB (1)**

- Max Chuck Diameter: 19"
- Max Turning Diameter: 21.7"
- Max Turning Length: 82.4"
- Max Through Bore: 5.2"
- Max Swing: 31.1"
- Two Axis

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

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

#### **Southwestern Trak-1630XSX (1)**

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

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### CNC Lathe Machining Centers

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

- Twin Chuck Diameter: 10" & 8"
- Max Turning Diameter: 14.8"
- Max Turning Length: 29.9"
- Live Tooling
- Automated Bar Feeder

#### **Southwestern Trak TRL 2640V (1)**

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

### Fabrication Department

#### **Flow I-6024 Dual Zone Waterjet (2)**

- 5 Axis with Dynamic Cutter Head
- 87,000 PSI
- Twin 6' x 12' Work Envelope
- 8" Cutting Thickness
- Flow Master PC Controller

#### **DadsonK1375-1 Fagor Gundrill (1)**

- Knee Type
- 3 Axis
- 13.75" diameter x 31' Blind Depth
- 62" Through Depth

#### **Mitsubishi FA10 CNC Wire EDM (1)**

- Max workpiece dimensions: 31.4" x 23.36" x 8.4"
- Max Weight: 1,100 LBS

#### **Presses**

- 55 Ton Hydraulic Press (1)
- 6 Ton Arbor Press (1)
- 12 Ton Press Master - Broach Press (1)

#### **Marvel Cut-Off Saw 380X-PC60 (1)**

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

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

- 13' x 14" Capacity
- Programmable bar feed with bundle

#### **Okamoto Precision Surface Grinder (1)**

- 14" x 6" Table

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

- Electric Pump, Dual Acting Cylinder

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### Fabrication Department

#### **Welders**

- AWS Certified Welders | D1.1, D14.8, 15.1
- Miller 350P Pulsed MIG Welder (350amp)
- Miller 351 TIG Welder (350amp)
- Lincoln 255 Deltaweld 451 MIG Welder (450amp)
- Lincoln CV-300 MIG Welder (300 amp)
- Lincoln DV-400 MIG Welder (400 amp)
- Miller Millermatic 185 MIG Welder (200 amp)

#### **Weld Equipment**

- Weld Platen Tables (8)
  - 5' x 5' (6)
  - 5' x 8' (2)
- Welding Tables
  - 60" x 96" (1)
  - 48" x 144" (2)
- Weld Positioner
  - Table Diameter: 24
  - Horizontal Weight: 1,750 LBS
  - Vertical Weight: 1,000 LBS

### Quality Control Equipment

#### **Brown and Sharpe CMM Global S (1)**

- Travel: 47.24" x 59.06" x 39.37"

#### **Brown and Sharpe CMM Global S (1)**

- Travel: 47" x 118" x 39.4"

#### **Romer 7540 Portable CMM Arm (1)**

- 6 Axis arm for Tactile Measurements
- Measuring Range: 13.1 Feet (4.0m)
- Point Repeatability: +/- 0.0022:" (0.055mm)
- Volumetric Accuracy: +/- 0.0027" (0.069mm)

#### **Brown and Sharpe CMM (1)**

- Travel: 27.6" x 39.4" x 25.6"

#### **Misc Quality Equipment**

- Granite Surface Plates (2)
  - 48" x 72"
- Mitutoyo Digimatic Height Gages (2)
  - 24"
  - 40"
- Starrett Inside Micrometers
  - Up to 40"
- Federal Portable Surface Roughness Gage
- Mitutoyo Gage Blocks
- Mitutoyo Micrometers
  - 0" to 24"
- Mitutoyo Dial Bore Gages
- Brown and Sharpe Tri-Micrometers
  - 0.200" to 6"
- Mitutoyo Vernier Caliper
- Regal Beloit Thread Gages

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### Paint and Prep Department

#### **Wet Paint**

- Paint Booth: 8' H x 12' W x 20' L (1)

#### **Powder Coat Paint**

- Paint Booth: 9' H x 11.5' W x 16' L (1)
- Prep: Sand blast booth. 1-1.5 mil blast profile

#### **Prep Equipment**

- Pressure Blast Cabinet: 48" x 48"
- Abrasive Finishing Vibratory Tumbler (2)
  - Burr Bench Model 2016
- Vibratory Bowl Finishing Machine
  - Model AB-14
- Alliance Aquamate RF-3648 Parts Washer
  - Rotary Table
  - Basket: 36" Diameter x 48" Height
  - Weight: 1,250 LBS
- Sand Blast Booth
  - 9' H x 13' W x 18' L
- Paint Oven
  - 8.5' H x 8' W x 15.5' L
- Bead Blast Booth
  - 23" H x 36" W x 24" L
  - Application: Stainless Steel Parts

### Value Added Assembly

#### **Assembly Capabilities**

- Approximately 60,000 square feet of assembly bays
- Max Lifting of 10 Tons at 20 Ft
- Customer offices with private entrances
- Mechanical and pneumatic assembly

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