

Providing World Class Machining and Fabrications Since 1995

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 HCN-5000 HMC (1)

- Travel | X: 28.7" Y: 28.7" Z: 31.5"
- (6) 500mm Pallets
- Mazatrol SmoothG
- 160 Tool Magazine
- Max Weight: 1,500 LBS
- Multiple Pallet Pool & 14,000 RPM Spindle

Mazak HCN-5000/50 (2)

- Travel | X: 28.7" Y: 28.7" Z: 31.5"
- (2) 500mm Pallets
- BT50 | 10,000 RPM
- 43 Tool Magazine
- FANUC Robotic Cell

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

Toyoda FA550-II (1)

- Travel | X: 29.5" Y: 29.5" Z: 23.6"
- (2) 550 mm Pallets
- Fanuc 15i Control
- 40 Tool Magazine
- CAT-50 | 12,000 RPM

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) | HCN-6800 Neo (2)

- Travel | X: 41.3" Y: 35.5" Z: 38.6"
- Mazak Pallatech System
- Mazatrol SmoothG
- 160 Tool Magazine (3) | 240 Tool Hive (1)
- 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 805G

- Travel | X: 118.1" Y: 31.5" Z: 28.3"
- Mazatrol SmoothG
- 50 Taper Spindle
- 40 Tool Magazine
- Max Weight: 4,600 LBS

Mazak VTC 200G 4-Axis VMC (1)

- Travel | X: 144" 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"
- 30 Tool Magazine
- Max Weight: 2,640 LBS

Mazak VTC 250D

- Travel | X: 69.3" Y: 25" Z: 25.9"
- Mazatrol SmoothG
- 50 Taper Spindle
- 24 Tool Magazine
- Max Weight: 3,000 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

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**

Motch 219D Twin Spindle VTL (1)

- **Max Chuck Diameter: 24"**
- **Max Travel: X:12.5 & Z: 17"**
- **6 Position Turret (2)**
- **Fanuc Oi Control**
- **Max Swing: 25"**

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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