



**MAGNA**  
Machine Co.

## EQUIPMENT & FACILITIES

### FACILITY OVERVIEW

- Facility Size: 125,000 sq. ft.
- Manufacturing: 70,000 sq. ft.
- Assembly: 27,000 sq. ft.
- Welding: 20,000 sq. ft.
- Inspection: 3,500 sq. ft.
- Pick-up & delivery service
- ISO 9001 Certified
- 20 overhead cranes (up to 40 tons each) with lifting capability of 160,000 pounds in machining bay
- (8) fork trucks up to 80,000# capacity

### MULTI-PROCESS MACHINING (Horizontal/Vertical)

#### Milling, Turning, Facing, Drilling & Boring

- **Union PCR-160 RAM Type CNC Horizontal Boring Mill (2011):** 17" x 22" RAM, 6 5/16" diameter spindle; 590" x-axis, 236" y-axis, 59" z-axis, 29" w-axis; CNC right angle head, automatic head changer for heads and turning/facing block, 157" x 157" b-axis rotating and turning table, 118" v-axis infeeding table; 120 ton capacity, Heidenhain iTNC-530 control, tool changer vertical/horizontal (60 tools), 189" x 314" long floor plate field.
- **BOST T4F Horizontal Turn/Mill (2012):** 79" swing, 354" center distance, 44,000 pound capacity between centers without steady rest, 93 HP turning power, guillotine turning with Capto C6 tooling, 68 HP milling tower, b-axis head +/- 90 degrees, HSK-125 tooling, 60 station ATC, Qty. (5) steadies 10 5/8 - 22 1/2 capacity, qty. (1) steady 15 3/4 - 35 1/2 capacity, boring attachment 8" capacity, probing, camera, Siemens 840D control



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## EQUIPMENT & FACILITIES

**MILLING DEPARTMENT**

**(Horizontal Boring Mills) - CNC**

### **3, 4 & 5 Axis CNC Milling**

- **Union KC-150 HDT CNC Horizontal Boring Mill (2006):** 6" spindle, 157" x-axis, 118" y-axis, 98" z-axis, 29" w-axis, 78" x 118" contouring rotary table (44,000 lb load capacity), KFUD3 automatic 1° universal head, automatic head changer, Heidenhain iTNC-530 control, tool changer (60 tools)
- **Union TC-150 CNC Horizontal Boring Mill (2010):** 6" diameter spindle; 98" x-axis, 98" y-axis, 59" z-axis, 29" w-axis, 63" x 78" contouring rotary table; Heidenhain iTNC-530 control; tool changer (40 tools)
- **Union T-150 CNC Horizontal Boring Mill (2016):** 6" diameter spindle; 98" x-axis, 98" y-axis, 59" z-axis, 29" w-axis, 63" x 78" contouring rotary table; Heidenhain iTNC-530 control
- **Union TC-130 CNC Horizontal Boring Mill (2000):** 5" diameter spindle; 98" x-axis, 98" y-axis, 59" z-axis, 29" w-axis, 63" x 78" contouring rotary table; Heidenhain iTNC-426 control; tool changer (60 tools)
- **Union T-110 CNC Horizontal Boring Mill (2005):** 4.375" diameter spindle; 80" x-axis, 63" y-axis, 59" z-axis, 22" w-axis, 49" x 63" contouring rotary table; Heidenhain iTNC-530 control
- **Mausa FVM-71 CNC Horizontal Boring Mill (2022):** 5" diameter spindle; 79" x-axis, 63" y-axis, 63" z-axis, 27.6" w-axis, 63" x 70" contouring rotary table, Heidenhain iTNC 640 control; tool changer (60 tools)



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## EQUIPMENT & FACILITIES

**MILLING DEPARTMENT**

**(Universal Mills) - CNC**

### 3, 4 & 5 Axis CNC Milling

- **MTE FBF – X – 8000 X-Travelling Column Universal Milling Machine (2014):** 20.5" x 20.5" RAM, 315" X-axis, 157" Y-axis, 70.8" Z-axis (RAM), 4000RPM, 64" x 288" riser table, 79" x 98" contouring rotary table with 59" V-axis travel, 2-axis automatic orthogonal milling head 1x1 degree, straight milling adapter with Henninger right angle milling head, pick up station for multiple heads, 48" diameter trunion table with tailstock, Heidenhain iTNC-530 control
- **MTE FBF-M-10000 Universal Machining Center (2020):** 17" x 19" Ram; 393" x-axis, 118" y-axis, 59" z-axis (RAM), 6000 RPM, 59" x 393" floor plate, SFK .001" x .001° Automatic indexing head, Heidenhain iTNC 640 control, tool changer (40 tools)
- **MTE FBF-S-6000 Universal Machining Center (2015):** 17" x 19" RAM; 236" x-axis, 79" y-axis, 48" z-axis (RAM), 78" x 236" table, MFK manual universal head, 59" diameter table with tailstock, Heidenhain iTNC 530 control
- **MTE RTV 3040P Universal Machining Center (2022):** 20.5" x 20.5" RAM; 157" x-axis, 107" y-axis, 37" z-axis, 48" w-axis (RAM), 79" x 98" contouring rotary table 44,000 # load capacity, AFK .001° x .001° automatic indexing head, Heidenhain iTNC 530 control
- **MTE RT-30/14 x 16 Universal Machining Center (2011):** 17" x 19" RAM, 118" x-axis, 59" y-axis, 48" z-axis (RAM), 3000 RPM, 55" x 63" contouring rotary table, 1° x 2.5° automatic indexing head (both joints A-C axis), Heidenhain iTNC-530 control, tool changer horizontal/vertical (40 tools).



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- **MTE K-4200 Universal Machining Center (2023):** 13" x 15" RAM, 157" x-axis, 39" y-axis, 43" z-axis (RAM), 34" x 165" table, AFK 2.5° x 2.5° automatic indexing head, 39" Ø rotary table, zero-point fixturing, Heidenhain iTNC 640 control, toolchanger (6 tools)
- **MTE KT-5200 Universal Machining Center (2017):** 17" x 19" RAM; 197" x-axis, 79" y-axis, 59" z-axis, 59" x 204" table, AFK 2.5° x 2.5° automatic indexing head, 39" table with tailstock, Heidenhain iTNC 640 control
- **MTE K-15 CNC Horizontal Mill (2006):** 13" x 15" RAM, 59" x-axis, 39" y-axis, 31.5" z-axis, 26" x 26" contouring rotary table, Heidenhain iTNC-530 control
- **MTE K-15-RT CNC Universal Machining Center (2010):** 13" x 15" RAM, 48" x-axis, 34" y-axis, 31.5" z-axis, 23 5/8" x 23 5/8" contouring rotary table, 2.5° x 2.5° automatic universal head, 3000 RPM, Heidenhain iTNC-530 control, horizontal and vertical ATC (40 tools)

### MILLING DEPARTMENT

(Vertical Mills) - CNC

#### 3, 4 & 5 Axis CNC Milling

- **Trimill VF 10035 (2016):** 5-axis moving gantry machining center, 396" x-axis, 138" y-axis, 59" z-axis, 2-axis fork style continuous milling head, HSK 100A, 13000 RPM, Heidenhain iTNC 530 CNC control, tool changer (30 tools)
- **Hexram MP 1024 (2018):** 5-axis moving portal machining center, 288" x-axis, 120" y-axis, 46" z-axis, 2-axis fork style continuous milling head, HSK 100A, 13,000 RPM, Fanuc 31 iMb CNC control, tool changer (16 tools)



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- **Ibarmia ZVH58 L4000 5-axis travelling column machining center (2008):** 157" X-axis, 39" Y-axis, 34" Z-axis, 6000 RPM continuous tilting head, integrated 39" diameter contouring rotary table, 181" x 41" plain table, Heidenhain iTNC-530 control, automatic tool changer (40-tools)
- **Huron NX 4222 (2022):** 4-axis vertical machining center, 165" x-axis, 86" y-axis, 36" z-axis, HSK 100A, 10,000 RPM, 20" 4th axis table with tailstock, Siemens control, toolchanger (30 tools)
- **(2) Northwood NW FT 138 CS Vertical Bridge Mills (2007):** 168" x-axis, 100" y-axis, 14" z-axis, 96" x 156" work table, vacuum chucks, 20 H.P., CAT 40 taper, 10,000 RPM spindle speed, FANUC Oi control, (32-tools)
- **(2) Lymco Perfect Jet Bed Mill CNC – 36MB (2012):** 40" x-axis, 20" y-axis, 22.5" z-axis, 15.75" x 50" table surface; Heidenhain iTNC-620 control

### MILLING DEPARTMENT

(Manual)

- **Devlieg Jig Mill 4K-60:** 60" x-axis, 48" y-axis, 24" w-axis; 36" pallet travel; 28" x 28" air-lift rotary table
- **Knuth MF 5 VP Knee Mill (2023):** 31" x-axis, 15" y-axis, 15" z-axis, 54" x 10" table, readouts, power draw bar, ISO 40 taper

### TURNING DEPARTMENT

(Horizontal) - CNC

- **ROMI C1800Hx8.5 (2022):** Swing:70.87", swing over cross slide: 47.2" center distance: 334", weight between centers without steady's 66,000 lbs, chuck diameter: 47.24", up to 500 RPM, C-axis for milling, milling tower ISO 50, boring attachment for 200 mm bar x 2000 mm depth capacity, belt sanding attachment, sauter 12-position turret, Siemens 840D CNC control



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## EQUIPMENT & FACILITIES

- **Gurutzpe GL10.5.5.1 (2019):** Swing:39.37", swing over cross slide: 27.56", center distance: 197", weight between centers without steady's: 12,000 lbs, chuck diameter: 31.5", up to 1200 RPM, boring attachment for 150 mm bar x 1500 mm depth capacity, 4th position turret, Fanuc Oi CNC control
- **ROMI C1100H x 5 (2021):** Swing:42.7", swing over cross slide: 28", center distance: 197", weight between centers without steady's: 33,000 lbs, chuck diameter: 28", up to 690 RPM, boring attachment for 150 mm bar x 1500 mm depth capacity, sauter 12- position turret, Siemens 840D CNC control
- **ROMI C1100H x 2 (2023):** Swing:43.7", swing over cross slide: 28", center distance: 79", weight between centers without steady's: 33,000 lbs, chuck diameter: 35", up to 500 RPM, 4- position turret, Siemens 840D CNC control

### TURNING DEPARTMENT

(Horizontal) - CNC

- **ROMI GL450M (2023):** Swing:29", center distance: 47.2" chuck diameter: 15.35", up to 3000 RPM, live milling tools, 12- station turret, Fanuc Oi MF CNC control
- **ROMI GL400M (2016):** 27" swing, center distance: 45", chuck diameter: 10", up to 3000 RPM, live milling tools, 12- station turret, Fanuc Oi MF CNC control
- **Hwacheon Cutex (2017):** 13.78" swing, center distance: 12.91", chuck diameter: 6", up to 6000 RPM, live milling tools, 12- station turret, Fanuc Oi CNC control

### TURNING DEPARTMENT

(Vertical) - Manual

- **Toshiba TX13:** 50" swing, 39" swing under rail, 31" swiveling turret travel, 49" 4-jaw chuck; Heidenhain DRO



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## EQUIPMENT & FACILITIES

### TURNING DEPARTMENT

(Horizontal) - Manual

- **American Pacemaker Lathe:** 50" swing; 40" swing over slide; 252" center distance; 36" chuck diameter; Heidenhain 2-axis D.R.O.
- **Knuth Sinus D400/2000 Lathe (2023):** 31" swing, 22" swing over carriage, 80" center distance, taper attachment, threading, 3-jaw & 4-jaw chucks, readouts
- **Knuth Sinus D330/1500 Lathe (2023):** 26" swing, 17" swing over carriage, 59" center distance, taper attachment, threading, 3-jaw & 4-jaw chucks, readouts

### TURNING DEPARTMENT

(Vertical) - CNC

- **Lymco DV – 3000 MTD CNC Vertical Lathe (2014):** 134" swing, 98.4" cutting height, 59" RAM travel, 118" chuck diameter (8 jaw). Table speed to 100RPM, hydrostatic with 50,000lb. load capacity. 55" travel crossrail. Dual RAMS, (1) turning/boring only, (1) with a live spindle. Live spindle speed to 2500RPM and 35HP grinding attachment, Renishaw tool pre-setter, Renishaw part probe, Fanuc 18iT control, tool changer (16 tools)
- **Lymco RAL-20 (2014):** 98" swing; 63" turning height; 39" RAM travel, 78" table diameter 4-jaw, 60 HP, Fanuc OiTD automatic tool changer (12-tools)
- **Lymco RAL-16 (2012):** 79" swing; 63" turning height; 39" RAM travel, 63" table diameter 4-jaw, 60 HP, Fanuc OiTD automatic tool changer (12-tools)
- **Lymco RAL-16 (2014):** 79" swing; 63" turning height; 39" RAM travel, 63" table diameter 4-jaw, 60 HP, Fanuc OiTD automatic tool changer (12-tools)
- **Lymco RAL-12M (2014):** 63" swing; 49" turning height; 36" RAM travel, 49" table diameter 4-jaw, 50 HP, Fanuc OiTD automatic tool changer (12-tools)



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## **EQUIPMENT & FACILITIES**

### **MISCELLANEOUS EQUIPMENT**

- Surface Grinder: 13 inches x 40 inches
- Mitts & Merrill Automatic Keyseater: 4" key capacity; 30" stroke
- Mitts & Merrill Automatic Keyseater: 2-1/2" key capacity; 24" stroke
- Vertical Press: 150 tons

### **FINISHING EQUIPMENT**

- Pressure Washer Station: 20 feet x 30 feet
- Paint Booth: 20 feet x 30 feet
- Sand Blast Room: 20 feet x 30 feet
- Metal polishing for food grade and chemical processing machinery

### **COMPLETE WELDING & FABRICATING FACILITIES**

- Lincoln Submerged Arc Welder
- Microscopic Welding in Clean-Room Environment
- Miller Synchrowave TIG Welders: 300 amp. Quantity 3
- Lincoln Square Wave TIG Welder: 100 amp.
- Hobart Cyber Wave TIG Welder: 300 amp.
- CP-300 Miller MIG Welders: Quantity 2
- CP-200 Miller MIG Welders: Quantity 3
- Miller Wire Welder: 450 amp.
- TEC VSI MIG Welder: 450 L.
- Iron Worker: 30 tons
- Iron Worker: 65 tons
- Thermal Pak 5 Plasma Cutter
- Bigo Straight-Line Burner: Quantity 2
- Weld Positioners: 250 to 8000 pounds. Quantity 7
- Marvel Miter Saw
- Kalamazoo 12 Cold Saw
- Model 8 Marvel Saw
- Ultrasound Machine: (for testing material thickness)
- Die Penetrant and Mag Particle Testing
- Vibratory Stress Reliever
- Hydrotesting Unit (for Pressure Vessels)



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## EQUIPMENT & FACILITIES

### FULL INSPECTION DEPARTMENT

- Faro Arm
- Faro Laser Tracker
- Starrett Micrometers: 0–52 inches inside diameter and outside diameter
- Inner Micrometers: 0–8 inches
- Verniers: 0–96 inches
- Mueller Gages: 0–120 inches
- Master Gage Block Sets
- Mitutoyo Height Gages: 0–36 inches
- Gage Pin Sets
- Go/No-Go Thread Gages
- Dial Bore Gages
- Brinell and Rockwell Hardness Gage
- Profilometer (Surface Test Gage)
- Gagemaker Mic Trac™ MT-4000 with various attachments
- Granite Table: 4 feet x 4 feet
- Granite Table: 4 feet x 6 feet
- Granite Table: 4 feet x 9 feet
- Granite Table: 4 feet x 12 feet

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