



MAGNA
Machine Co.

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ISO 9001 Certified

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EQUIPMENT AND FACILITIES

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.

20 overhead cranes (up to 40 tons each) with lifting capability of 80 tons in machining bay

80,000 lb. Taylor Rigger's special fork truck with boom

Pick-up and Delivery Service

Milling Department (Horizontal Boring Mills)-CNC

3, 4, & 5 Axis CNC Milling

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.

Union PCR-150 RAM Type CNC Horizontal Boring Mill (2002): 17" x 22" RAM, 6" diameter spindles; 396" x-axis, 157" y-axis, 39.37" z-axis, 29" w-axis; full A-C axis contouring universal head with automatic head changer; Heidenhain iTNC-530 control; tool changer (40 tools)

Union PC-150 CNC Horizontal Boring Mill (2010): 6" diameter spindle; 396" x-axis, 138" y-axis, 30" z-axis, 29" w-axis; 98" x 98" contouring rotary table, 30-ton capacity, 2.5° automatic indexing head, Heidenhain iTNC-530 control; tool changer (40 tools)

Union KCU-150 HDT CNC Horizontal Boring Mill (2008): 6" spindle, 126" x-axis, 118" y-axis, 59" z-axis, 29" w-axis, 79" x 98" contouring rotary table, integrated facing head, Siemens 840D control, and tool changer (60 tools)

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)

Juaristi TS-5 CNC Horizontal Boring Mill (1998): 6”diameter spindle; 118” x-axis, 115” y-axis, 59” z-axis, 36” w-axis; 78” x 98” contouring rotary table; universal milling head; Heidenhain iTNC-426 control; tool changer (32 tools)

Union TC-130 CNC Horizontal Boring Mill (1997): 5”diameter spindle; 118” x-axis, 98” y-axis, 59” z-axis, 29” w-axis, 63” x 78” contouring rotary table; Heidenhain iTNC-426 control: tool changer (40 tools)

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-130 CNC Horizontal Boring Mill (1994): 5”diameter spindle; 118” x-axis, 78” y-axis, 59” z-axis, 29” w-axis, 63” x 78” contouring rotary table, and Heidenhain iTNC-407 control

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

Union BFT-90 Horizontal Boring Mill (1990): 4”diameter spindle; 60” x-axis, 50” y-axis, 48” z-axis, 24” w-axis; 50” x 55” rotary table, Heidenhain iTNC-530 control

Milling Department (Universal Mills)-CNC

3, 4, & 5 Axis CNC Milling

Union FC-1 CNC Traveling Column Universal Milling Machine (2006): 15” x 18” RAM, 396” x-axis, 102” y-axis, 63” z-axis (RAM), 5000 RPM, 96”x 356” floor plate field, 79”x 98” contouring rotary table, 2-axis 1° automatic indexing head (A-C axis positioning), Heidenhain iTNC-530 control, tool changer (24 tools)

MTE FBF-6000-M Universal Machining Center (2011): 17” x 19” RAM, 236” x-axis, 98” y-axis, 55” z-axis (RAM), 3000 RPM, 63” x 314” floor plate field, 1° x 1° orthogonal milling head, Heidenhain iTNC 530 control, tool changer (60 tools); 1200 MM trunnion table with tailstock.

MTE BF 5200 CNC Universal Machining Center (2009): 197” x-axis, 79” y-axis, 48” z-axis, 48” x 205” table surface, 2.5° automatic indexing head (both joints A-C axis); Heidenhain iTNC 530 control, and tool changer (24 tools)

MTE FBF-4000-S Universal Machining Center (2011): 17” x 19” RAM; 157” x-axis, 79” y-axis, 48” z-axis (RAM), 3000 RPM, 59” x 157” floor plate field, quantity (2) 59” x 59” contouring rotary tables, 2.5° x 2.5° automatic indexing (both joints A-C axis), Heidenhain iTNC-530 control

MTE BF 2200 CNC Universal Machining Center (2004): 80” x-axis, 59” y-axis, 48” z-axis; 39” x 39” b-axis contouring rotary table; 2.5° indexing head (both joints A-C axis); Heidenhain iTNC 530 control; and tool changer (40 tools)

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).

Parpas THS 100 CNC Universal Machining Center (2009): 59" x-axis, 48" y-axis, 40" z-axis, 40" x 40" full b-axis rotary table, infinite positioning head (both joints A-C axis); Heidenhain iTNC 530 control and tool changer (24 tools)

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 CNC control, horizontal and vertical ATC (40 tools)

Milling Department (Vertical Mills)-CNC

3, 4, & 5 Axis CNC Milling

(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)

Kingston KMB5VCF CNC Vertical Machining Center (1998): 3" diameter spindle; 41" x-axis, 20" y-axis, 20" z-axis; 12" x 60" table; Heidenhain iTNC-360 control

Millport Rhino IV CNC Bed Mill (2004): 31.5" x-axis, 17" y-axis, 23" z-axis, 12" x 50" table surface; centroid M400 CNC 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

Bridgeport Knee Mills. Quantity 3

Turning Department (Horizontal)-CNC

Ryazan Model RT317RF3 CNC Horizontal Lathe (2006): 67" swing, 47.2" swing over slide, 236" center distance, Sauter 12-station automatic turret, steady rests, bar rest, 8"Ø boring bar attachment with the ability to bore up to 80" deep, 55,115 lbs. maximum work piece weight, 5-630 RPM, 80 H.P., Fanuc OT control, (12 tools)

Hankook Protec 9NC CNC Horizontal Lathe (2004): 37.4" swing, 24.2" swing over slide, 157" center distance, duplomatic, 8-station automatic turret, boring attachment, steady rests, 10" spindle

thru hole, front and rear 32" 4-jaw chucks, 32" 3-jaw chuck, 5-630 RPM, 35 H.P., Fanuc 21i-T control, (8 tools)

Daewoo Puma 400L (1998): 28" swing; 19" swing over carriage; 82" center distance; 21" chuck diameter; Fanuc 18iTA control; (12 tools)

IKEGAI CNC Turning Center (1997): 15" swing, 22" center distance, 10" diameter chuck; Fanuc 18LT control (12 tools)

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.

Timemaster Gurutzpe Lathe: 41" swing; 34" swing over slide; 80" center distance; 43" chuck diameter

Kingston HR-5000 Lathe: 44" swing, 30" swing over slide; 200" center distance; 28" chuck diameter

Kingston HR-3000 Lathe: 44" swing; 30" swing over slide; 120" center distance; 39" chuck diameter

Two Sharp 2680C Manual Engine Lathes: 26" diameter swing, 17 ¼" swing over cross slide, 80" center distance, taper attachment, acu-rite 200S DRO.

Webb Lathe: 13" swing; 9" swing over slide; 36" center distance; collet chuck

Turning Department (Vertical)-CNC

Bost VTL 60 CY Traveling Table Vertical Turing, Boring and Milling Machine (2012): 236" swing; 141" turning height, 79" RAM travel, 157" table diameter with table extensions to 216" diameter 8-jaw, live spindle (3000 RPM), hydraulically clamping right angle milling attachment, 236" x-axis travel, 157" y-axis travel, adjustable cross rail, automatic head changing, Siemens 840D control, automatic tool changer (28-milling, 12-turning)

HNK VTC-40/30 Vertical Boring Mill (2002): 157.5" swing; 86.6" height under rail; 63" ram travel, 118" chuck diameter 4-jaw; live spindle (1500 RPM) with right angle head; Fanuc 18TC CNC control; tool changer (16 tools)

You Ji Cyclone YV1600 CNC Vertical Turning Center (2004): 78.7" swing, 63" standard turning diameter, 71" maximum turning diameter, 60" maximum turning height, 35.4" RAM travel, 63" 4-jaw chuck, 50HP, Fanuc Oit-B control, (12 tools)

Toshiba TUE-15 Vertical Boring Mill (1997): 71" swing; 67" height under rail; 59" chuck diameter 4-jaw; Fanuc 18T CNC control; tool changer (12 tools)

Lymco RAL-16M (2011): 79" swing; 63" turning height; 35.4" RAM travel, 63" table diameter 4-jaw, 60 HP, Fanuce OiTD automatic tool changer (18-tools; 9 milling, 9 turning)

TOS Hulin SKQ-12 Vertical Boring Mill (1993): 56” swing; 52” height under rail; 49” table diameter 3-jaw; Fanuc 0TC CNC control; tool changer (12 tools)

Turning Department (Vertical) Manual

Stanko IL532 Vertical Boring Mill: 130” swing; 84” height under rail; 110” chuck diameter; two swiveling RAMs; threading; tracer; Heidenhain 4-axis D.R.O.

King VTL: 59” swing, 44” swing under rail, 35 ½” swiveling turret travel, 52” 3-jaw independent chuck; Heidenhain DRO.

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 and Fabricating Facilities

Lincoln Submerged Arc Welder

Microscopic Welding in Clean-Room Environment

Miller Synchronwave 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

Peerless Automatic Band Saw

Do-All Contour Saw

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)

Full Inspection Department

Faro Arm
Faro Laser Tracker
Granite Table: 4 feet x 12 feet
Granite Table: 6 feet x 6 feet
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)

