



EQUIPMENT LIST

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CNC TURNING CENTERS:

- (1) MAZAK QT 450M - 20" by 80" 6.25 inch Spindle Hole*
- (1) MAZAK QT 350M - 18" by 60"*
- (1) MAZAK QT 250MY - 12" by 40"*
- (1) MAZAK Slant Turn 20 ATC Mill Center - 12" by 20" with Gantry Robot Parts Loader
- (1) MAZAK Slant Turn 35 ATC Mill Center - 18" by 40"
- (1) MAZAK Slant Turn 30 ATC Mill Center - 18" by 40"
- (3) MAZAK Quick Turn 35 20" by 60" 20" by 60" 5-1/2 inch Spindle Hole 20" by 36" 5-1/2 inch Spindle Hole
- (1) MAZAK Quick Turn 10 - 10" by 20"
- (1) MAZAK Quick Turn 18 Mill Center
- (2) MAZAK QTN100
- (3) DOOSAN Lynx 220L with bar feeder



MAZAK QT 450M

COMPLEMENTARY TURNING EQUIPMENT:

Engine Lathes:

- (1) LEBLOND REGAL 26" Diameter x 72," 5-3/16" Spindle Hole
- (1) VDF HEIDENREICH & HARBECK 26" Diameter by 96"
- (1) MAZAK 15" by 60"
- (1) CINCINNATI Hydroshift, 17" Diameter

MULTIAXIS TURNING CENTER:

(2) Mazak Integrex 400

- 5-Axis Multi-Tasking Turning Center
- Maximum Swing: 30"
- Maximum Machining length: 60"
- 40HP/3300RPM main spindle (w/ 4.4" bore)
- 25HP/12,000RPM milling spindle
- 225 degree B-Axis positioning
- Y travel = +/-4.53"
- 40 Tool ATC
- Manual Steady-Rest with servo positioning
- (30mm-220mm Diameter)
- Ideal part: round rings, hubs, and shaft type work with extensive off-center internal and external milling, drilling and tapping

(1) Mazak Integrex 200 *

- 5-Axis Multi-Tasking Turning Center
- Maximum Swing: 22"
- Maximum Machining length: 40"
- 25HP/5000RPM main spindle (w/ 4.4" bore)
- 25HP/12,000RPM milling spindle
- 225 degree B-Axis positioning
- Y travel = +/-3.14"
- 40 Tool ATC
- (30mm-220mm Diameter)
- Ideal part: round rings, hubs, and shaft type work with extensive off-center internal and external milling, drilling and tapping



MAZAK INTEGRIX 400

2005 Mazak Multiplex 6100Y CNC Lathe

- Twin main Spindles w/6" Chucks
- Twin Turrets w/12-tool Drum
- 9" Swing
- 4500 RPM Rotary Tools
- Y-Axis
- GL50F Robotic Gantry Load Table

This multi-tasking, dual-spindle machine makes the Multiplex a smart choice for mid-sized lot production. You can use both spindles to machine the front and back of your parts, including milling, for Done-In-One, single-setup production. Thanks to identical performance of both spindles, you can also use them to simultaneously cut two parts at one time. Their synchronized rotation delivers high-accuracy for operations like shaft work. Plus, there are many options available for unmanned production like bar feeders, cut feeders and gantry robots.



CNC MACHINING CENTERS - HORIZONTAL:

- (1) MAZAK HCN 4000 with 14 Pallet pool, 120 Tools
- (2) MITSUBISHI H800 D with 4-axis controls 120 Tools, 60 Tools, Pallet Changer, Large Capacity
- (1) MAZAK H630 with 80 Tools and Pallet Changer, 30"x80"
- (1) NIIGATA HN80D, with 90 tools, Pallet Changer, Heavy Duty Box Ways, High Precision
- (1) NIIGATA HN100D, with 119 Tools, Pallet Changer, Heavy Duty Box Ways, High Precision

CNC MACHINING CENTERS - VERTICAL:

- (1) MAZAK V-655 with 60 Tools and Pallet Changer, 30" x 80"
- (2) MAZAK AJV 25-405 with Tool and Pallet Changer
- (1) MAZAK VQC 20/50B
- (2) HAAS VF-2, with 20 Tool Changer and 4th axis Rotary Table

HORIZONTAL BORING MILLS WITH INDEX TABLES:

- (1) IKEGAI CNC Boring Mill, 98" x 138" Capacity, 5-axis, 60 Tools
- (1) DEVLIEG Jig Mill 5K-120, 60" x 120" Capacity, 2-axis NC Control
- (1) DEVLIEG Jig Mill 4K-72, 48" x 72," 2-axis NC Control
- (1) DEVLIEG Jig Mill 4K-60, 60" x 48," 2-axis NC Control

2004 Ikegai Model NB110T CNC Horizontal Boring Mill

- 4.33" Diameter Boring Spindle (Quill)
- 55" x 62" Built in Rotary Table
- X=78", Y=63", Z=57", W=25"
- 40 Tool ATC
- 30HP/3,000RPM Main Spindle Motor
- Heavy Duty Box Way Construction
- Ideal Part: cube shaped parts with precision 6 sided machining requirements



GRINDING EQUIPMENT:

Cylindrical Grinders:

- (1) MITSUBISHI CNC 13" by 42" Capacity
- (1) CRYSTAL LAKE 6" x 30"
- (1) STUDER S40 Universal Cylindrical Grinder
 - 63" between centers
 - 14" Swing
 - High Resolution 0.0001-degree B axis w/2 wheel heads
 - C axis for form and thread grinding
 - Granitan mineral-casting machine base
 - Roundness accurate during live grinding: .000016

Internal Grinders:

- (1) TRIPET TST 400 Grinding Center
 - Dual workheadstocks positioned at 180 degrees allow loading/unloading during machine operation
 - Swivel range of each workhead is -5/+11 degrees
 - Equipped with a 4-spindle turret head for internal and face grinding of diameters to 15.75 inches (400 mm)
 - Grinding lengths to 9.85 inches (250 mm)
 - Maximum shaft length to 59 inches (1500 mm) using a steadyrest



- (1) VOUMARD 150 CNC I.D. Grinder with three Grinding Heads
 - Single workheadstock with swivel range of 10 degrees
 - Grinds short pieces in a chuck, long pieces in a steadyrest
 - Equipped with a 3-spindle turret for internal and face grinding of diameters to 11.8 inches (300mm)
 - Grinding lengths to 9.85 inches (250mm)
 - Maximum shaft lengths to 59 inches (1500 mm) using steadyrest
 - 14" x 60" capacity



- (1) HEALD 20" Diameter x 20" Capacity
- (1) HEALD 29" Diameter x 20" Capacity
- (1) HEALD Slide Head 15" x 15"
- (1) SUNNEN Eclipse EC-3500 Automatic Precision Honing Machine 3.50" Diameter Maximum Bore
- (1) SUNNEN Precision Hone
- (1) HENNINGER Oscillating Spindle Center Hold Grinding Machine

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Rotary Grinders:

- (1) MATTISION 42," 48" Diameter with Angular Adjustable Head

Surface Grinders:

- (1) OKAMOTO, 10" x 24"
- (1) DOALL Automatic, 10" x 24"
- (1) KENT Automatic, 8" x 18" Capacity
- (1) K.O. LEE Automatic with 6-1/2" x 18-1/2 Vacuum Chuch and Pump
- (1) LAPMASTER Pneumatic Lapping Machine 9.75" Diameter Capacity

Tool and Cutter Grinders:

- (2) CINCINNATI #2
- (1) OLIVER
- (1) DEVLIEG Microbore Grinder

Drill Grinders:

- (1) GROB 3"
- (1) STERLING 2-1/2"

Center Grinders:

- (1) HENNINGER Orbital Spindle Center Grinding Machine
- (1) EX-CELL-O #74 Center Lap

EDM MACHINE:

- (2) MITSUBISHI CNC EDM Wire Cutting Machine 31.49" x 22.63" x 8.46" Maximum Workpiece Dimensions

SAWING MACHINES:

- (1) AMSAW 400 Automatic Bandsaw 16" Capacity
- (1) DOALL V-36 Vertical Contour Saw 9" x 36"
- (1) ROCKWELL - DELTA Abrasive Saw 4" Diameter Capacity

MISCELLANEOUS MACHINES:

- (1) KUHN Type F Hydraulic Straightening Machine (70 Ton x 24' Capacity for Flats and Rounds)
- (1) ELECTRO - ARC Metal Disintegrator Polishing Equipment

INSPECTION EQUIPMENT:

- (1) DEA Model 3408 (PJM) CNC Coordinate Measuring Machine - 200" x 80" x 54"
- (1) DEA Model 1204 (PJM) CNC Coordinate Measuring Machine - 72" x 38" x 54"
- (1) BROWN & SHARPE Coordinate Measuring Machine - 16-1/4" x 14" x 12"
- (1) BROWN & SHARPE Electronic Digital Height Gauge
- (1) J & L Optical Comparator
- (1) WILSON Rockwell Tester
- (2) SUNDSTRAND Test Centers 50" Maximum, center-to-center
- (2) Tool Setters
- CADILLAC Height gauges, up to 24"
- Micrometers, up to 28"
- Bore Gauges, up to 42"
- Calipers, up to 60"

The Axiam Roundness Checker

Used to inspect roundness, concentricity and runout of cylindrical parts, including inside and outside diameters. Run-out (flatness and perpendicularity) of surfaces adjacent to the cylindrical features can also be inspected. Depending on part configuration, parts as long as 36" in length and up to 20" in diameter can be measured. Part attributes can be measured to a precision of .000010", depending on surface finish of the part measured. Weight capacity is 600 lbs.



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