

EQUIPMENT LIST



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CNC TURNING CENTERS:

- (1) MAZAK QT 450M - 20" x 40"
- (1) MAZAK QT 450M - 20" x 80" 6.25" Spindle Hole
- (1) MAZAK QT 350MY - 18" x 60"
- (1) MAZAK QT 350M - 18" x 60"
- (2) MAZAK QT 250MY - 12" x 40"
- (1) MAZAK Slant Turn 20 ATC Mill Center - 12" x 20"
with Gantry Robot Parts Loader
- (1) MAZAK Quick Turn 35 20" x 60" 5-1/2" Spindle Hole
- (1) MAZAK Quick Turn 10 - 10" x 20"
- (1) MAZAK Quick Turn 18 Mill Center
- (2) MAZAK QTN100
- (3) DOOSAN Lynx 220L with bar feeder
- (1) DOOSAN Lynx 300L

MULTI-AXIS TURNING CENTERS:

- (2) MAZAK INTEGREX 400
 - 5-Axis Multi-Tasking Turning Center
 - Maximum Swing: 30"
 - Maximum Machining length: 60"
 - 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"
 - Ideal part: round rings, hubs, and shaft type work with extensive off-center internal and external milling, drilling and tapping
- (1) MAZAK MULTIPLEX 6100Y CNC LATHE
 - Twin main Spindles with 6" Chucks
 - GL50F Robotic Gantry Load Table

COMPLEMENTARY TURNING EQUIPMENT:

ENGINE LATHES:

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

CNC MACHINING CENTERS - HORIZONTAL:

- (1) TOYODA FH800SX-i with 800mm x 800mm pallet, 20 Pallet pool envelope 59" x 59"h, 308 Tools, (SEE COVER IMAGES)
- (1) NIIGATA HN100D, with 119 Tools, Pallet Changer, Heavy Duty Box Ways, High Precision
- (1) NIIGATA HN80D, with 90 tools, Pallet Changer, Heavy Duty Box Ways, High Precision
- (1) MAZAK HCN 4000 with 14 Pallet pool, 120 Tools
- (1) MAZAK H630 with 80 Tools and Pallet Changer, 30" x 80"

CNC MACHINING CENTERS - VERTICAL:

- (1) MAZAK Nexus 510 2 Pallet Vertical M/C
- (1) MAZAK V-655 with 60 Tools and Pallet Changer, 30" x 80"
- (1) MAZAK AJV 25-405 with Tool and Pallet Changer
- (2) HAAS VF-2, with 20 Tool Changer and 4th axis Rotary Table

HORIZONTAL BORING MILLS W/ INDEX TABLES:

- (1) IKEGAI NB130P CNC Boring Mill, 98" x 138" Capacity, 5-axis, 60 Tools
- (1) IKEGAI NB110T CNC Horizontal Boring Mill
 - 55" x 62" Built in Rotary Table
 - X=78", Y=63", Z=57", W=25"
- (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



MAZAK QT 450M



MAZAK INTEGREX 400



MAZAK HCN 4000



IKEGAI NB130P

GRINDING EQUIPMENT:

CYLINDRICAL GRINDERS:

- (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
- (1) STUDER FAVORIT 533 1000mm cylinder grinder
- (1) MITSUBISHI CNC 13" by 42" Capacity

INTERNAL GRINDERS:

- (1) TRIPET TST 400 Grinding Center
 - 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" (400mm)
 - Grinding lengths to 9.85" (250mm)
- (1) VOUMARD 150 CNC I.D. Grinder
 - Three Grinding Heads
 - Grinding lengths to 9.85" (250mm)
 - Maximum shaft lengths to 59" (1500mm)
 - 14" x 60" capacity
- (1) OKAMOTO IGM-15NCIII
 - Internal Diameter to be ground: 0.24" ~ 6"/8"
 - Maximum grinding stroke: 5
 - Swing over table: 24"
- (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
- (1) EX-CELL-O #74 Center Lap

ROTARY GRINDERS:

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

SURFACE GRINDERS:

- (2) OKAMOTO, 10" x 24"
- (1) DOALL Automatic, 10" x 24"
- (1) KENT Automatic, 8" x 18" Capacity

EDM MACHINE:

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

SAWING MACHINES:

- (1) AMSAW 350PR with handling system, 5" - 14" Capacity
- (1) AMSAW 100 with handling system, up to 4-1/4" Capacity
- (1) AMSAW 400 Automatic Bandsaw 16" Capacity
- (1) DOALL V-36 Vertical Contour Saw 9" x 36"

MISCELLANEOUS MACHINES:

- (1) KUHN Type F Hydraulic Straightening Machine (70 Ton x 24' Capacity for Flats and Rounds)

INSPECTION EQUIPMENT:

- (1) DEA Model 3408 CNC Coordinate Measuring Machine 200" x 80" x 54", with PC-DMIS
- (1) DEA Model 1204 CNC Coordinate Measuring Machine 72" x 38" x 54", with PC-DMIS
- (1) BROWN & SHARPE Coordinate Measuring Machine 16-1/4" x 14" x 12"
- (2) BROWN & SHARPE Electronic Digital Height Gauge
- (1) J & L Optical Comparator
- (1) WILSON Rockwell Tester

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.



STUDER S40



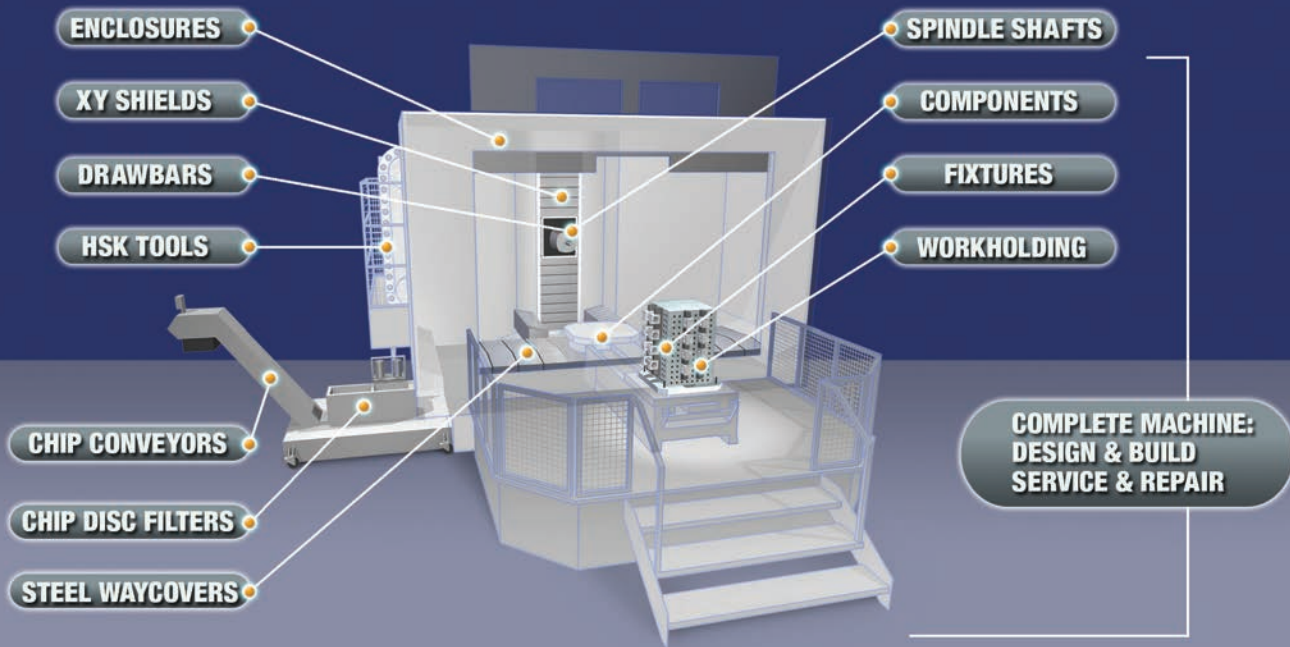
OKAMOTO IGM-15NCIII



DEA MODEL 3408

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FOR MACHINE TOOL COMPONENTS



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