

MILLING AND MACHINING CENTERS

Horizontal Machining

- 1 MAKINO A51nx, 22x25.1x25.1," Full 4th Axis, 16" Pallets, Spindle RPM 14,000, Rapids 2362 IPM, 60 tools
- 1 MAKINO A55E, 22"x 22"x 23.6," Full 4th Axis 5th Axis Index, Two 16" Pallets, Spindle RPM 14,000 Rapids 3300 IPM, 60 tools
- 1 MAKINO A51-B, 22"x 22"x 23.6," 5 Axis, 16" Pallets, Spindle RPM 14,000 Rapids 2360 IPM, 134 Tools
- 1 MAKINO A51-B, 22"x 22"x 23.6," Full 4th Axis, 16" Pallets, Spindle RPM 14,000, Rapids 2360 IPM, 134 Tools
- 1 MAKINO A51, 22"x 22"x 23.6," Full 4th Axis, 16" Pallets, Spindle RPM 12,000, Rapids 2000 IPM, 134 Tools

Vertical Machining

- 1 OKUMA MA-550 VB, 51"x 22"x 22," 50 Taper High Torque, 6,000 RPM, Rapids 1574 IPM, Spindle (828 lb-ft), 32 Tools
- 1 FADAL 8030, 80"x 30",x 30," 4th Axis Ready, 30 Tools, 10,000 RPM
- 1 FADAL 4020, 40"x 20"x28," Full 4th Axis - 5th Axis Ready, 30 Tools, 15,000 RPM, 22.5 HP, Rigid Tapping, Coolant thru Spindle
- 6 FADAL 4020, 40"x 20"x 28," Full 4th Axis - 5th Axis Ready, 30 Tools, 10,000 RPM, 22.5 HP Rigid Tapping, Coolant thru Spindle
- 4 FADAL 3016, 30"x 16"x 28," Full 4th Axis - 5th Axis Ready, 21 Tools, 10,000 RPM, 22.5 HP, Rigid Tapping, Coolant thru Spindle
- 1 MHP V-24, 24"x 12"x 6," Full 4th Axis, 24 Tools
- 2 MHP S24, 20"x10"x5", 3 Axis, 24 Tools

Milling

- 1 SWI CNC TOOL ROOM MILLING, 16" x 30," 10HP
- 1 KEARNEY & TRECKER MODEL 205-S12 VERTICAL, 7 ½ HP, No. 50 Milling Machine Taper Tooling
- 1 KEARNEY & TRECKER MODEL 205-S12 HORIZONTAL, 7 ½ HP, 14" x 36" Travel Table, No. 50 Milling Machine Taper Tooling
- 5 BRIDGEPORT SERIES I, 2 HP, 12" x 36" Travel Table, 3 Axis Analam Digital Read-Out
- 2 HARDINGE TOOL ROOM MILLING MACHINES

TURNING/LATHE

- 2 OKUMA LU15 CNC, 4-AXIS, 8" chuck, 20" swing, 20 tools, 4500 RPM
- 1 OKUMA & HOWA ACT CNC, 3 X 4 Axis, 10" Chuck, 18" Swing, 20 Tools, 3600 RPM
- 4 WARNER & SWASEY WSC-8 CNC, 8" Chuck, 2" Bar, 10 Tool Stations, 4000 RPM
- 1 WARNER & SWASEY 1SC CNC, 10" Chuck, 2 ¼" Bar, 12 Tool Stations
- 1 MAZAK ENGINE LATHE, 18" Swing, 100" Centers, 3 1/8" Hole thru Spindle, 2 Axis, Analam Digital Read-Out
- 1 HARDINGE SPEED LATHE, 6" Chuck, 1-1/16" Bar
- 1 LOGAN TURRET LATHE, 1 ½" Bar Capacity, 8" Chuck
- 1 WADE-SECOND OPERATION LATHE, 1 1/16" Bar Capacity
- 1 MONARCH EE TOOL ROOM LATHE, 10" Swing, 20" Centers
- 1 HARDINGE MLV TOOL ROOM LATHE, 10" Swing, 30" Centers

GEAR CUTTING

- 2 FELLOWS 7125S HIGH-SPEED GEAR SHAPER
Special High-Accuracy – 6" O.D.P.D. – 5" I.D.P.D. - 1 ½ Face Width
- 2 BARBER COLEMAN GEAR HOBBING MACHINE
Model No. 6-10, 3" Diameter X 4" Length. Crown Attachment On One

GRINDING

- 1 BROWN & SHARPE MODEL 818 SURFACE GRINDER
8" X 18" Table Travel, Power Feed 3 Axis, Over-The-Wheel Dresser, Electromagnetic Chuck
- 1 NORTON, 10" X 20" Universal O.D., I.D. Grinder
- 2 K.O. LEE MODEL B6062H UNIVERSAL O.D.-I.D. TOOL GRINDER
8" Swing, 24" Between Centers

- 1 HARIG - 6 X 18 SURFACE GRINDER
- 1 SUNNEN HONING MACHINE MODEL MBC 1804E
- 1 BLANCHARD GRINDER MODEL 18-36
- 1 BURR KING MODEL 760 BELT SANDER
- 1 KALAMAZOO 6" BELT SANDER

BROACHING

- 1 COLONIAL 10 TON VERTICAL PULL DOWN, 54", Full Set Of Retrievers And Shuttle Table – Set Up For Running One, Two Or Three Stations
- 1 AMERICAN 6-TON VERTICAL TRI-WAY, 24", Vertical Pull Down, Vertical Push Down And Vertical Surface Broaching

DRILL PRESSES

- 8 POWERMATIC DRILL PRESSES, 15"

LASER MARKING

- 1 CONTROL MICRO SYSTEMS - 100 WATT CO₂ LASER MARKING SYSTEM
with galvo mirror and 20" by 20" X-Y CNC Table

FORMING

- 1 PHOENIX 15 TON HYDRAULIC PRESS
- 1 PH 2-TON STROKE 12" HYDRAULIC PRESS
- 1 CHICAGO PNEUMATIC FLOOR MODEL # CP21803 RIVETER
- 1 CHICAGO PNEUMATIC C SQUEEZE RIVETER
- 1 TAUMEL MODEL BK-200NM ORBITAL HEADING MACHINE, 6,000 lb. cap
- 1 DAKE 75-TON HYDRAULIC PRESS

SAWING AND MATERIAL HANDLING

- 2 AMADA MODEL 250HW 10" CNC HORIZONTAL CUT-OFF SAW
- 1 DO-ALL MODEL #3612-2H 36" VERTICAL CONTOURING BAND SAW with power table feed
- 1 CATERPILLAR 4,000 lb. Electric Forklift
- 1 TOYOTA 6,000 lb. Electric Forklift
- 1 KALAMAZOO VERTICAL 24" BAND SAW MODEL 24-V-1024
- 1 MARVEL SEMI-AUTOMATIC CUT-OFF HORIZONTAL 10" BAND SAW
- 1 5-TON OVERHEAD CRANE
- 1 FORD 350 FLAT BED ONE-TON TRUCK

MISCELLANEOUS

- 1 ROCKLINIZER MODEL 600
- 2 QUACKENBUSH DRILLS WITH MULTIPLE HEADS
- 1 INGERSOL-RAND SCREW AIR COMPRESSOR, 60 hp, 248 CFM @ 125 PSI

FINISHING

- 1 ALMCO MODEL OR3 VIBRATORY BOWL FINISHER
- 1 ALMCO MODEL VB-1615 VIBRATORY FINISHING MACHINE with MODEL ST-1 FILTRATION UNIT
- 1 BINKS PAINT SPRAY BOOTH, 10' x 10', Heated Make-Up Air

SPECIAL MACHINES

We have designed and built several special machines for our use in running high-volume and/or long-running parts. We build special machines as needed.

MEASURING AND INSPECTION EQUIPMENT

- 1 WENZEL XORBIT 9.20.7 CMM, Renishaw PH10M Indexable Probe Head, Renishaw TP20 Touch Trigger Probe, 35" X 79" X 28" Travel
- 2 SHEFFIELD DISCOVERY III CORDAX D-12 CMM, Renishaw PH10T Automatic Indexing Probe Heads, 20"X 36"X 16" Travel
- 1 COMPUTERIZED GAGE TRACKING SYSTEM
- 1 JONES & LAMSON EPIC 30 OPTICAL COMPARATOR
30" screen – lenses to 50 to 1 - 30" between centers
- 1 PRATT & WHITNEY STANDARD MEASURING MACHINE
24" range with optics – accuracy to .000010

- 1 PRECISION GAGE – VARI-ROLL GEAR CHECKER MODEL G-2
- 26 GRANITE SURFACE PLATES
- 1 MAGNAFLUX MODEL H720R
 - 16” coil – 100” length – DC current reversing demag
- 2 WILSON ROCKWELL HARDNESS TESTER
 - Model #2003 TB Automatic Triway
- 1 RANK TAYLOR HOBSON PROFILOMETER

- 1 PRATT & WHITNEY BENCH MICROMETER (SUPER MIC), MODEL B, Up to 10” Length Measurements, Digital Read-Outs On Head Stock
- 1 FEDERAL MODEL 136B-5 BENCH MOUNTED I.D.-O.D. COMPARATOR, Size Comparison Accurate Within .000005
- 2 TRIMOS 24” Electronic Height Gages And Accessories
- 1 NIKON STEREO MICROSCOPE with Fiberoptic Circle Light By Bausch and Lomb

MECHANICAL TESTING

- 1 ULTIMATE STRENGTH TESTING MACHINE
- 1 ULTIMATE STRENGTH TORQUE TESTING MACHINE
- 3 LIFE TEST MACHINE
- 1 IMPACT TEST MACHINE
- 12 TORQUE WRENCHES

ENGINEERING AND SHOP MANAGEMENT

- 2 DELL ENTERPRISE CLASS SERVERS with SYSPRO/IMPACT MANUFACTURING AND BUSINESS SOFTWARE
 - Secure network backup

 - Job Cost – Inventory – Purchasing – Accounting – Job Tracking – Estimating –Shop Floor Control – Cash Flow Monitoring – Requirements Planning – MRPII –
 - General Ledger – Payables – Receivables – Payroll

- 8 DELL ENGINEERING WORKSTATIONS
 - MasterCam X3 CAM Software with Lathe and 2-3-4-5 Axis Milling Capability
 - Surfcam CAM Software with Lathe and 2-3-4-5 Axis Milling Capability
 - Solidworks (with Cosmos FEA), CAD Software
 - Vericut CNC Program Verification Software
 - IGES or DXF Data transfer from CD or online
 - Catia v.5 process 20 and Enovia Reader

- 4 NETWORKED DNC COMPUTERS
 - Direct upload and download to CNC machines

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