

MANUFACTURING EQUIPMENT and FACILITIES list

CNC PRODUCTION MILLING

2 OKUMA MA-400HA CNC Horizontal Machining Center

35hp, 15000rpm, 2362ipm, X22.05" x Y24.02" x Z24.61", 2-Pallet, 60 tools, Renishaw Integrated Probe, Auto-Gauging, .001 Deg B-Axis resolution., Auto tool length offset, Tool breakage detection.

1 HAAS VF-3 CNC Vertical Machining Center

20hp, 7500rpm, X40" x Y20" x Z25" & A-Axis, 32 tools, and 2-Station Automatic Pallet Changer

1 HAAS VF-2SS CNC Vertical Machining Center

30hp, 12000rpm, X30" x Y16" x Z20" & A-axis, 24 tools, Auto tool setting, Part Probe

5 HAAS VF-2 CNC Vertical Machining Center

15hp, X30" x Y16" x Z20" & A-axis, 20 tools

CNC PRODUCTION TURNING

1 OKUMA Impact LU-15M CNC 5-Axis 2-Turret Lathe w/Live tooling

30hp spindle, 5hp rotary tool drive, X14.17" x Z23.62", 8" Chuck, 20 Tools, 2.1" thru spindle, LNS ECO Load Automatic Bar Feed System

1 OKUMA Impact LU-15 CNC 4-Axis 2-Turret Lathe

30hp, X14.17" x Z23.62", 8" Chuck, 20 Tools, 2.1" thru spindle, SMW Model 2000 Automatic Bar Feed System

1 OKUMA Crown CNC Lathe

18hp, X10.63" x Z19.69", max swing 21.65", 8" Chuck, 12 tools, 2.1" thru spindle, LNS Quick-Load Automatic Bar Feed System

1 OKUMA Cadet Big Bore CNC Lathe

15hp, X9.84" x Z19.69", max swing 15.75", 10" Chuck, 12 tools, 2.5" thru spindle, LNS Quick-Load Automatic Bar Feed System

PROTOTYPE / SHORT-RUN MACHINING

CNC & MANUAL

1 ALLIANT B6EC CNC Bed Mill

w/ Anilam MK3300 Control XYZ travel- 22" x 42" x 24"

1 SHARP HVM Vertical Milling Machine

w/ ProtoTrak M3 3-axis CNC Control, 54" Table

1 SHARP LMV Vertical Milling Machine

w/ ProtoTrak MX3 3-axis CNC Control, 42" Table

1 HAAS TL-3W CNC Tool Room Lathe

30hp, X15" x Z60", 30" max swing, 18" over cross slide, 3.5" thru spindle

1 HARRISON Alpha Plus 400 CNC Tool Room Lathe

10hp, X9-5/8" x Z50", 23" max swing, 2-1/8" thru spindle

3 BRIDGEPORT Vertical Milling Machine

ea w/DRO, 30", 42", 48" Tables

1 SHELDON 11" x 22" c-c Manual Lathe**1 SOUTH BEND 10" x 30" c-c Manual Lathe****1 3/4 hp x 15" Drill Press**

SURFACE GRINDING

1 HARIG Model 618SW 6" x 18" 3-Axis Automatic Surface Grinder

FORMING

1 UNI HYDRO Model 66-24 Ironworker 66 ton for punching, shearing, forming, pressing**1 PEXTO Model PH452 53-1/2" x 16ga Hydraulic Shear****1 TENNSMITH Model HBU4812 48" x 12ga Finger Brake****1 HOSSFELD #2 Universal Bender****1 LOCKDOWN Tubing Bender max 3/4" Dia x 14ga****1 NIAGARA M-35 35-Ton Automatic Punch Press**

CUTTING

1 HYD-MECH Model H-14A Band Saw, 14" x 14" 7.5 hp, Automatic Index**1 KALAMAZOO Model U816 16" Band Saw w/Coolant****1 DOALL Model 2013-20, 20" throat Vertical Band Saw w/blade welder****1 COMMERCIAL Craftsman 6" Band Saw****1 KALAMAZOO IND. 10" Rotary Chop/Cutoff Saw w/Coolant****1 DELTA Contractor 10" Table Saw****1 DELTA Uni-Saw, 10" Table Saw****1 HYPERTHERM MAX 43 Plasma Cutter**

FINISHING

- 1 PORTAVIBE Model PTV 2.5C Vibratory Tumble Deburring Machine
- 1 TRINCO Model 36/BP Sand Blasting Cabinet
- 1 TIMESAVER Model 948 Surface Finisher
- 4 Belt Sanders: 1", 4", 6" wet & dry
- 7 Bench & Pedestal 2-Station Sanding/Deburring/Grinding Units

FACILITY: 24,100+ square feet, 24' ceiling, 8' x 8' drive-in & 8' x 8' & 10' x 10' loading dock doors

All machine tools are fully equipped to suit many special needs.

Our CAD/CAM systems operate directly from compatible files of your part solid model and drawing files in virtually all formats.

WELDING

- 1 MILLER Synchronwave 350 TIG Welding Machine
- 2 MILLER Millermatic 250/200 MIG Welding Machine
- 2 MILLER Spoolmatic 30A MIG Welding Gun System
- 1 MILLER Thunderbolt Arc Welder
- 1 AIRCRAFTER Rotary Welding Positioner
- 1 HARRIS Oxy-Acetylene Gas Welding/Cutting Unit

INSPECTION

- 1 MITUTOYO Crysta-Plus 504 CNC Coordinate Measuring Machine:
X20" Y16" Z16" Resolution: 0.000004" Renishaw PH10T motorized head
- 1 MITUTOYO Surftest SJ-201P Surface roughness tester:
Range: -7880uin to 5900 uin

OTHER

Epicor VISTA 4.41 Production Control Software w/Shop Floor Data Collection on WinServer2003 LAN

MasterCam X, CAM Software

SolidWorks 2008 3D CAD Software

- 1 SULLAIR ES6-10H 10HP Rotary Screw Air Compressor
- 1 QUINCY QT-10 10HP Air Compressor (As backup)
- 1 ZEKS 50 HSE Refrigerated Air Dryer
- 1 DAREX Model M5 Drill Sharpener
- 2 CINCINATTI 1hp Dust Collection unit
- 1 CLARK GCX17E 2875 lb. Capacity Propane Fork Lift Truck