

FACILITIES LISTING

SOFTWARE

Global Shop Solutions (Shop Management) Solidworks CAD
 Autodesk Inventor CAD
 Feature CAM with Solid Model Capacity Striker Systems SS Punch
 PCDMIS CAD++ with Offline Programming Capabilities
 MasterCam

CNC MACHINING CENTERS

3	Enshu GE480H Horizontal Machining Center w/Pallet Changer
1	Okuma GENOS M660-V 12K / CAT50
1	Doosan NHM6300 Horizontal Machining Center w/Pallet Changer
1	OKK HM 500S Horizontal Machining Center w/8 Pallet Changer
1	Mazak Ultra 650 Horizontal Machining Center w/Pallet Changer
1	Mazak H500 Horizontal Machining Center w/Pallet Changer
2	Mazak FH4000 Horizontal Machining Center w/Pallet Changer
1	Mazak FH680 Horizontal Machining Center w/Pallet Changer
3	Haas VF-1 Machining Center w/Tool Changer
2	Haas VF-2 Machining Center w/Tool Changer
4	Haas VF-3 Machining Center w/Tool Changer
5	Haas VF-4 Machining Center w/Tool Changer
1	Haas VF-5 Machining Center w/Tool Changer
1	Haas VF-6 Machining Center w/Tool Changer
4	Haas Minimill, 10 Station w/Tool Changer
2	Hass VF-4 Machining Center w/Pallet Changer
3	Haas VF-9 Machining Center
2	Doosan DMN 750 II Vertical Machining Center
1	Doosan MV4020L Vertical Machining Center
1	Mazak V655/60 Vertical Machining Center
1	Mazak V515/40 Vertical Machining Center
1	Mazak V655/60 Vertical Machining Center
1	Devlieg 4W72 CNC Jig Mill w/Dynapath Delta 20 4 Axis Control
8	Programmable Rotary Tables
3	Haas TR210 Dual Axis Trunnion Rotary Table
1	Okuma Vertical Mill MB-56VA - 5 Axis
1	Kiwa Horizontal Mill KNH-426X - 4 Axis
1	Okuma Horizontal Mill MA-600 HB - 4 Axis
1	Fastems Flexible Manufacturing System (FMS) – (3) Okuma MB4000's each with 146 Tool Matrix's, and 32 Pallets & Tombstone combinations.

MILLING

1	Fryer MC-60 High Performance VMC
4	Fryer MC-40 High Performance VMC
1	First Vertical Knee Mill w/Prototrak SMX Control
4	S.W.I. TRAK DPM w/AGE 3 Controls
1	Milltronics RH 20 w/Centurion 6 Controls
2	Milltronics RH 30 w/Centurion 7 Controls
5	S.W.I. TRAK Lean Production Machining Center w/PMX Controls
2	Clausing/Kondia FV-1 Vertical Mill w/Prototrak System
1	Bridgeport Right Angle Milling Head
1	TRAK DPM3 Mill
3	Trax K3 Mill

CNC TURNING CENTERS

1	DAEWOO Puma 300B w/Fanuc 211TA Controls
1	DAEWOO Lynx 200A w/Fanuc 181TA Control
1	DAEWOO Puma 300LC w/Fanuc Control
1	Doosan Puma GT3100
1	Doosan 2500LSY with Take-Off Spindle/Live Tooling
1	Doosan 300L with Fanuc Control
2	Doosan 2600SY with Take-Off Spindle/Live Tooling
4	Doosan Puma GT2600
1	Doosan V850 Vertical Lathe-31 12" Swing

2	Mori-Seiki SL-25MC Turning Center 20" Swing x 24" Center Live Tooling			
1	Mori-Seiki TL5A/2000 Turning Center 24" Swing x 80" Center			
1	Mori-Seiki TL-5-1000 Turning Center 24" Swing x 40" Center			
1	Mazak SQT18MY Turning Center 10" Chuck Live Tooling			
1	Mazak QT15N Turning Center 12" Swing x 20" Center w/LNS Hydro-Bar Feed			
1	Mazak QT20N Turning Center 20" Swing x 40" Center			
1	Mazak QT10 Turning Center 12" Swing x 20" Center			
1	Mazak QT28N Turning Center 22" Swing x 40" Center			
2	Mazak M4 Turning Center 20" Swing x 50" Center			
1	S.W.I TRL 1845RX w/RLX Controls			
1	S.W.I TRL 3012RX w/RLX Controls			
7	S.W.I. TRL 1840sx Lathe with Prototrak Controls			
2	S.W.I. TRL 2460SX with Prototrak SLX Controls			
1	MORI SEIKI NL1500SY/500 Live Tool 8000 RPM Spindle			
1	ECOCA SJ-20 Lathe			
1	ECOCA SJ-25 HT Lathe			
1	ECOCA SJ-35 HT Lathe			
1	Okuma Captain Lathe			
1	Supermax Lathe			
1	Hardinge Lathe			
1	Tsugami M06SY Turning Center			
1	Tsugami M08SY Turning Center			
1	Okuma 7 Axis Mill/Turn Multus B300-W			
1	Okuma 7 Axis Mill/Turn Multus B200-W			
TURNING				
1	Mazak Gap Bed Lathe 30" x 80"			
1	Sharp Toolroom Lathe			
1	Victor Lathe - 1630			
1	Select Lathe 1860G			
1	Select Lathe 3060G			
1	Trak Lathe			
1	TRAK Lathe			
LASER				
1	Trumpf TruLaser 3030 5000W 60x120 3 Axis w/Pallet Changer			
CNC TURRET PUNCH				
1	Amada Vipros 357 Queen (w/Conveyor)			
GRINDING				
1	CHEVALIER FSG 1640AD Auto Cycle 3-Axis Surface Grinder			
1	Chevalier FSG,1228AD 12" x 28" Electro Magnetic Chuck			
1	Chevalier FSG,3A1224 12" x 24" Electro Magnetic Chuck			
1	Chevalier CNC FSG,2048ADIV 20" x 48" Electro Magnetic Chuck			
1	AMW Surface Grinder GS-1020BH 10" x 20" Electro Magnetic Chuck			
1	Kent Surface Grinder KSD-250A11D 10" x 20" Electro Magnetic Chuck			
1	ESG 618 w/Sony Mag DR Grinders			
1	Acer Surface Grinder 10" x 20" 3-Axis Hydraulic w/Coolant			
1	Darex XT-3000 Drill Grinder			
1	Black & Webster Model O drill Grinder, 1/4"-2 1/2" Range			
1	Black Diamond BW90 Drill Grinder 1/16"-3/4" Range			
1	Blanchard Grinder			
8	Misc. Pedestal/Bench Grinders			
	Complete line of Tool Sharpening Equipment			
FABRICATION				
1	Trumpf Tru Bend 3066 Press Brake 72 Ton x 7'			
1	Trumpf Tru Bend 3120 Press Brake 132 Ton x 10'			
2	Amada HDS 8025 NT Press Brake 88 Ton x 8'			
1	Amada 4' X 4' Flat Part Scanner			
1	National NH4825 Hydraulic Shear, 20 ga.			
1	WDM Power Roller Model B-4-48"			
1	MSC 952675 Pinch Role 24" x 20"			
1	Diacro #24 Finger Brake			

4	Dake Arbor Press			
1	Weidemann Model R2 Manual Turret Punch			
1	Diacro No. 2 Punch			
1	Dayton 3Z949D 3 Ton Arbor Press			
1	OTC 55 Ton H-Frame Hydraulic Press			
1	75 Ton H-Frame Hydraulic Press			
1	Clausing 2275 Drill Press			
2	Jet Model JDP-17MF Drill Press			
1	Walker Turner 1616-2 Table Drill Press			
1	Square Tap 62 Hand Tapping Machine w/Articulating Arm			
3	Delta 17-900 Drill Press			
1	Rockwell 15081 Drill Press			
1	Wilton 2800 16", 6 Speed Drill Press			
1	Enco Drill Press			
1	Westward 4TM73 Drill Press			
1	Lassy Manual Tapping Machine			
1	Wilton 2800 Drill Press			
1	Powermatic Model 1200 Drill Press			
1	Thermal Dynamics 480 Volt 50XL Plasma Cutter			
1	SIM ASV Type AF2204E Corner Notcher			
WELDING				
1	Lincoln Electric System 55 Mig Welding Robotic Workcell			
1	Miller SSW22APT Spot Welder			
1	Lors Techna 50KVA Spot Welder			
1	Pow Con RC250P Wire Welding Unit			
1	Miller Millermatic 250 Arc Welder			
1	Pow Con 400SMT Welder			
1	Miller Arc Welder			
4	Lincoln Electric C300 Mig Welder			
1	Lincoln Electric Square Wave Tig 255 Welder			
1	Lincoln Electric Square Wave Tig 275 Welder			
5	Lincoln Electric Precision Tig 375 Welder			
2	Lincoln Electric Power Mig 350MP Welder			
1	Lincoln Electric 140C Mig Welder			
1	Miller Syncrowave 250 Welder			
1	Miller Maxstar 151 Welder			
1	Miller Dynasty 300DX Tig Welder			
1	Miller Dynasty 200 Tig Welder			
1	Miller Matic 251 Mig Welder			
1	Hobart Handler 125 Mig Welder			
1	PM1000 Stud Welder			
1	Midwest Capacitor Discharge Stud Gun with 5/16" Capacity			
1	Bug-O Linear Track Welding System			
1	Laramie 250W-750W Plastics Welder			
1	Ultima Tig Tungsten Grinder			
1	Piranha III Tungsten Electrode Grinder			
EDM				
1	Wire Cut EDM / Mitsubishi MV2400-R Machining Range 400mm x 600mm x 309mm.			
1	Wire Cut EDM / Mitsubishi MV2400-ST Machining Range 400mm x 600mm x 425mm.			
1	Wire Cut EDM / Mitsubishi FA-10 Machining Range 350mm x 250mm x 220mm			
1	Plunge Cut CNC EDM / Mitsubishi EA8 with Tool Changer			
1	Electro Arc LB-8 Tap Disintegrate			
FINISH				
1	10' x 10' x 15' Powder Coat Oven			
1	Wagner Industrial Powder Coat Equipment			
1	Timesaver Model 3131-13-044 Wet Process Finishing Machine			
1	Timesaver Wet 37" Wide Finishing Machine			
2	Proultrasonics Ultrasonic Parts Washer			
1	12'x 20' Glass Bead Enclosure			
1	Oakley Horizontal Stroke Sander 48" x 105"			
1	Progress Machine Stroke Sander 48" x 72"			
1	Wheelabrator Hutson Burr Bench 15" x 45" Vibratory Chamber			
1	Rosemont Industries Burr Eliminator 16" x 20" Vibratory Chamber			

1	Raytech Circular Vibratory Chamber			
1	Trinco 36DP2 Dry Blast Cabinet			
1	Blast-It-All Magnum Blast Cabinet			
1	Baldor 3597, High Speed Polisher			
1	Trinco 48" x 24" Model 335B, Dual Wheel Bench Polisher			
1	Wilton 16", 6 Speed, Floor Model Drill Press, Polisher			
1	Wilton Tube Polisher			
1	Jackson Parts Washer 20" x 20"			
1	Wilton 2" Belt Sander			
2	Delta-Rockwell 1" Belt Sander			
3D Printing				
1	Fusion3 F410 3D Printer (355mm x 355mm x 315mm)			
SCREEN PRINTING				
1	Atlas Quartz Halogen Screen Developer			
2	Antec Single Head Screen Printing Table			
1	Hix Model 3510 Infra-Air Dryer			
HEAT TREAT				
1	12X12X20 TM Vacuum Furnace			
1	16X12X30 Huppert Model 5760-PC Furnace			
1	12X12X36 Keith Dual Chamber Furnace			
SAWING				
2	HYD-Mech Model H-14A Horizontal Auto Band Saw			
1	Kalamazoo H9AWV Horizontal Cut-Off Saw			
1	Dake SE912 Horizontal Cut-Off Saw			
1	Grob 4V-24, Vertical Cut-Off Saw w/Butt Welder			
2	Dake V-16 Vertical Cut-Off Saw			
1	Marathon Manual Cold Saw			
1	Mikita 2414 Abrasive Cut-Off Saw			
1	HYD-Mech 520A Horizontal Auto Band Saw			
1	Kalamazoo Horizontal Saw H9AW			
1	HYD - MECH Horizontal Saw S - 20A			
1	Kalamazoo Vertical Saw Startrite 20RF			
MISCELLANEOUS & ADDITIONAL CAPABILITIES				
4	Philadelphia Tramrail, 10 Ton Crane			
1	Gorbelt Tramrail, 1 Ton Crane			
1	Budget 4 Ton Electric Hoist			
1	Pemserter Series 4 Pem Insertion Machine			
1	Pem 6 Ton Air Pemserter			
2	Haeger 6 Ton Hydraulic Pemserter (Auto Feed Available)			
2	Haeger 618 Hydraulic Pemserter			
1	Electric Weld Cleaner			
2	Pem Handheld Insertion Tools			
1	ARO Model 8S18 900RPM Handheld Rivnut Inserter			
8	Flexarm Helicoil Insertion Tool			
1	Laser Marking Technologies Cobalt XL			
2	Richter Dot Peen Marker DMP 8/5			
1	50-Watt CO2 Laser			
1	4,000 Square Foot Assembly Area			
1	Hansford-Davis 15M Automatic Key-Seater			
1	Amada TOGU Automatic Tool Sharpener			
INSPECTION EQUIPMENT				
1	Global Performance 09.20.08 CMM			
1	Global Performance 07.10.07 CMM			
1	Starrett RGDC-4040-24 CMM			
5	Brown & Sharpe 555 Global Performance CMM			
1	Starrett HB400 Optical Comparator w/Quadra Check DRO			
1	Nikon 6CT2 12" Optical Comparator			
1	Jones & Lamson TC14 Optical Comparator			

1	Jones & Lamson PC14A Optical Comparator w/Decimetric 3 DRO			
1	Deltronic Comparator			
2	Brown & Sharp Hite-icator Gauges			
1	Pratt & Whitney Supermicrometer Model			
1	Mitutoyo Surftest 201 Surface Finish Tester			
11	Granite Surface Plates			
2	Rockwell Hardness Tester			
1	Wilson 40UR Hardness Tester			
1	Federal Surface Finish Tester			
5	Tesa Hite Electronic Height Gages			
1	Amada 4' X 4' Flat Part Scanner			
1	Vision Engineering 10X Digital Elite Camera			
1	Compete Line of Misc. Inspection Equipment Traceable to NIST			
1	Richter Dot Peen Marker			
1	Vision Camera System			
1	Scienscope XT-2000			
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