



Equipment & Capabilities List

As of October 2022

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Equipment & Capabilities List

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CNC Turning

Qty	Size	Type
1	10"Dx20"L	Daewoo Horizontal Turning Center
4	20"Dx30"L	Haas St30 Horizontal Lathe
1	20"Dx60"L	Haas TI3 Horizontal Lathe
1	21"Dx26"L	Takisawa Slant Bed Lathe
2	48"Dx24"H	O-M Ltd Vertical Turret Lathe
2	60"Dx30"H	O-M Ltd Vertical Turret Lathe
1	70"Dx50"H	O-M Ltd Vertical Turret Lathe

CNC Milling

Qty	Size	Type
1	20"x40"x36"	Haas Ec1600 Horizontal Machining Center
3	20"x40"x36"	Bulova VMC 4220b Vertical Machining Center
1	20"x40"x36"	Leadwell MCV - 760xl Vertical Machining Center
1	20"x40"x36"	Leadwell MCV - 550s Vertical Machining Center
1	20"x40"x36"	Leadwell MCV- 610a Vertical Machining Center
1	20"x40"x48"	Haas - VF-3 Vertical Machining Center
2	30"x60"x36"	Leadwell MCV - 1300p Vertical Machining Center
1	66"x72"x36"	Vision Wide Milling Center
5	up to 24"D	Integrated 4th Axis Rotary Table
1	24"x60"x30"	Leadwell V-60 Vertical Machining Center

Conventional Turning

Qty	Size	Type
2	24"Dx12"H	Bullard VTL
3	30"Dx60"L	Lion Engine Lathe W/ Digital Readouts
1	30"Dx120"L	Acra Engine Lathe W/ Digital Readouts
3	36"Dx20"H	Bullard VTL W/ Digital Readouts
2	42"Dx24"H	Bullard Cutmaster VTL W/ Digital Readouts
1	54"Dx24"H	Bullard VTL W/ Digital Readout
2	66"Dx36"H	Bullard Cut Master VTL
1	70"Dx36"H	Webster Bennet VTL

Conventional Milling/Drilling

Qty	Size	Type
1	36"x36"x36"	Union 5 - Axis Horizontal Boring Mill
1	48"x48"x36"	G & L Horizontal Boring Mill
4	20"x60"x24"	Bridgeport Vertical Mills
5	12"x28"x20"	Prototrac Single Spindle Machining Centers
4	12"x28"x20"	Sharpe Single Spindle Milling Machines
1	78"x50"x60"	Nomura Table Type Boring Mill

Heat Treating

Qty	Size	Type
1	60"x60"x52"	Abar Ipsen Bottom Load Vacuum Braze Furnace
1	48"x48"x36"	Abar Ipsen Front Load Vacuum Braze Furnace
2	48"x48"x48"	Preheating Air Furnaces

Materials/Bonding Laboratory

Qty	Size	Type
1	N/A	Unitron Mst Metallurgical Microscope Connected to a Buehler Omnimet Archive Digital Imaging Analysis Sys.
1	N/A	Mark V Mv600 Precision Cut-Off Machine
1	N/A	Mark V EZ Cold Mount System
1	N/A	Struers "Abramin" Grinder/Polisher
1	N/A	Rockwell Superficial Hardness Tester
1	N/A	Bond Strength Tester (10,000 Psi)
1	N/A	Admet eXpert 2612/2613 10,000 #

Non-Destructive Testing

Qty	Size	Type
2	60"x60"x60"	Magnaflux Fluorescent Penetrant Inspection Process Line
1	N/A	Metallurgical Lab (Weld & Braze Testing / Plasma Eval)

Support Equipment

Qty	Size	Type
1	24"Dx60"L	Hoffman Balancer
3	6"x12"x6"	Doall, Ried, & Max O Surface Grinders
2	60"x60"x60"	Aqueous Cleaning Station

Non Traditional Machining

Qty	Size	Type
1	24"x24"x24"	Hansvedt B150 Electrical Discharge Machine
1	24"x24"x24"	Cintro Jet Sm-10e E.D.M.

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Hydraulic Forming

Qty	Size	Type
1	30"x30"x30"	600 Ton Bliss Press
1	30" max	Hydraulic Expander
1	36"x36"x36"	100 Ton Dennison "C" Frame Press
1	48"Wx12"H	12 Ton 24" Press Brake
1	48"Wx12"H	12 Ton 60" Finger Brake
1	48"Wx12"H	12 Ton 36" Apron Brake
1	48" max	300 Ton 48" Double Action Expander
1	72"Wx12"H	90 Ton Milwaukee Press Brake
1	64"x50"x92"	600 Ton Standard Press
1	72"Wx12"H	45 Ton Chicago Press Brake

Sheet Metal Fabrication

Qty	Size	Type
1	48"x120"	Trumpmatic CNC Turret Punch Press
1	120" max	Power Shear 1/4" Capacity
1	72" max	Power Shear 1/8" Capacity
1	N/A	Planisher
1	48" max	Baileigh Plate Roll Pr-503
1	60" max	Baileigh Sheet Roll Sr-5016
1	36" max	60 Ton Hydraulic Arbor Press
1	60" max	Power Rolls 3/16" Capacity
1	36" max	Hand Roll 1/8" Capacity
1	36" max	Buffalo Ring Roll
1	36" max	Heavy Duty Rounds Roll
1	N/A	Beverly Shear
4	N/A	1/4" Capacity Production Riveter
2	N/A	3/8" Capacity Production Riveter
1	N/A	Clausing V2812h Vertical Bandsaw
1	N/A	Dake Vertical Bandsaw

Hot Forming

Qty	Size	Type
1	18"x18"x36"	Hannafin 50 Ton Press
2	24"x36"x36"	Hull 75 Ton Presses

Inspection

Qty	Size	Type
1	36"x36"x36"	Mitutoyo Bright C.M.M.
1	N/A	Jones & Lamson Comparator
1	36"H	Mitutoyo Digital Height Gage w/Computer Interface
1	N/A	Ultrasonic Metal Thickness Analyzer
1	63"x118"x63"	Mitutoyo Crysta Apex S C.M.M.

Welding

Qty	Size	Type
1	30" max	Sciaky Seam Welder Circumferential w/Longitudinal Adapter Heads 300 kVA
1	N/A	125 kVA Sciaky Resistance Spot Welder
1	N/A	GMF 6 Axis Robotic Welder W/300 Amp Miller Syncrowave Unit With Plasma Power Source
3	N/A	300 Amp Miller Syncrowave Tig Welding Systems w/Pulsers
1	N/A	450 Amp Miller w/Mk Cobramatic Production Gun
1	N/A	Amanda 17 kVA Tack Welder
2	48"Dx60"L	481 kVA Inverter Seam Welders, one w/longitudinal adapter
1	80" max	Jetline-Hobart Automatic Welding Cell
2	60" max	Aronson Welding Positioner
2	30" max	Mk (Aircrafter) Welding Positioner
1	N/A	150 kVA Sciaky Spot Welder
1	30" max	90 kVA Sciaky Seam Welder
4	48" max	Vanguard Welding Positioners
4	N/A	Miller Syncrowave 350's With Pulse
1	30" max	Pandjiris Welding Positioner 3000

3D Printing

Qty	Size	Type
1	6"x8"x12"	Mark Fordged, Mark Two- Onyx and Fiber Printer

Computer Systems/Information Technology

Virtualized Server Environment

Redundant Networked Storage

Managed Secure Domain

FIPS-140 validated Firewall Appliance.

Redundant Off-Site Disaster Recovery/Backup

VISUAL Manufacturing ERP System

Centrally Networked DNC and Heat Treat Charting

Solidworks and CAMWorks CAD/CAM Capabilities

MasterCAM CAD Capabilities

InspectionXpert and Discus First Article Inspection systems

MiCAT MCOSMOS CMM System