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Equipment List

CNC Mills (17) & Manual Mills (3)

- (1) Haas VF-0E (30") 4-Axis/ Rotary Table
- (4) Haas VF-2 (30")/ 5-Axis / Rotary Tables
- (4) Haas VF-2SS (30") 5 Axis / Rotary Tables
- (5) Haas VF-2SSYT (30") 5-Axis / Rot. Tab. & Glass Scales
- (1) Haas VF-3 (40") 5-Axis / Rotary Table
- (1) Haas VF-4SS (50") 5-Axis Mill
- (1) Haas TR-6 (64") 5-Axis Mill
- (2) Bridgeport Manual Mills
- (1) Bridgeport Manual Mill with Broaching Head

CNC Lathes (5) & Manual Lathes (7)

- (1) Mazak Nexus QTN-200 (2")/ LNS Servo 65 Barfeed
- (2) Hardinge Conquest T42 (1 5/8")
- (2) Hardinge Cobra T42 (1 5/8")
- (1) Sheldon 13"
- (1) Hardinge Tool Room
- (2) Hardinge Chucker
- (1) Jet-1550 15" x 50"
- (1) Clausing 13"
- (1) Monach 21" x 80"

CNC Mill/Turn (6) (Multi-Axis CNC) & Robots (1)

- (1) Hardinge Conquest T42 with C-Axis (1 5/8")
- (1) Tsugami TMA8-III (8 Axis, 2.52" Bar, 8.66 OD x 22.8" L,
With LNS Servo 65 Barfeed, 60 Tools)
- (1) Midaco/ Fanuc LR Mate 200iC 5L (6 Axis Robot)
- (1) Okuma LB3000EX-MYW (3")/LNS S3-85 Barfeed
- (2) Mazak Matrix Nexus QTN-200M (2.5") LNS S2-80 Barfeed
- (1) Mazak Matrix Nexus QTN-200MY (2.5") LNS S2-80 Barfeed

Presses (4)

- (1) Accupress 130T / 10' Break
- (1) Owatonna Tool Co. / 25T Press
- (2) Drake 1 1/2T Arbor Press

Inspection Equipment

- (1) Brown & Sharpe Global 9158 (0.9M x 1.5M x 0.8M)
- (1) Brown & Sharpe Global Performance (0.7M x 1.0M x 0.7M)
- (1) Brown & Sharp Gage 2000 CMM 18" x 20" x 16"
- (2) Micro-Vu Optical Comparator, #M14 (20X)
- (1) Nikon VMR-3020 Optical Inspection 11" x 7" x 5" (Vision)
- (1) Keyence, IM-6020 Image Dimensioning Measuring System (Vision)
- (1) Digital Microscope, Keyence VHX-2000E (5-50x 3D Microscope)
- (1) Taylor Hobson- Talysurf M112-3346, (Form Intra with Ultra Contour Software)
- (1) Laser Micrometer, Keyence LS-7030M
- (1) High Mag, Vid Inspection Station, Freedom Scientific HD Mag
- Ball Bar, Renishaw Wireless QC20-W (0.1uM)
- Bore Gages
- Bore Scope
- Bore Light Probe (LPR-3.0-RA - Right angle)
- Surface Plates (large & small)
- Gauge Blocks
- Plug Gauges
- Inspection Standards
- (1-set) Micrometers 0-12"

- Dial Gauges
- (1-set) Vertical Calipers 0-60"
- Chatillon Gauges (Force/Torque)
- SPC Data Collection; Mitutoyo (UP-1)
- SPC; SPSS Software
- Gage Calibration; Cybermetrics Gagetrak
- (1) Surfometer: Federal Pocket Surf
- (1) Force Guages 0-20,000 Lbs
- (2) Strain Guages
- Digital Voltmeters
- Oscilloscope
- Power Supplies, Fixed and Adjustable
- Isolation Transformer and Constant Voltage Transformers
- Thermometers and Thermocouples (Dig and Analog)
- Function Signal Generators
- Alignment Lasers
- Mass Standards (50lbs)
- Highpot Tester
- Sound Meter (dba)
- Optical Flat and Light source
- Fluorescent Dye Penetrant Test Equipment (FPI)
- Microscopes (Various)
- Precision Level (Machine Level)
- XRF- Olympus NDT Delta-Alloy Plus, Precious/RoHS/WEEE

Computer Hardware/Software

- (12) CAM Software; Surfware/Surfcam 2014 (2-5 Axis)
- (10) CAM Software; Bridgeport / EZ Surf / EZ Turn / EZ Mill
- (5) Cam Software, Gibbs Cam (2.5-5+/Multi Axis)
- (3) Cam Software, BobCAD-CAM (Mill/Lathe)
- (3) Solidworks CAD 2014 (Pro, Premium, FEA)
- (1) Autocad CAD
- (1) Cadkey CAD
- High Speed Internet Connection
- EDI Scanning; Supply Tech
- Barcoding; Shop Tech E2

Ovens (6)

- Heat Treat Oven (3000F)
- Welding Prep Oven (500F)
- Blue M Convection Oven (450F)
- Hydro/Environmental Oven (300F)
- (2) Med Temp Ovens (500F)

Welders (5) & Plasma Cutter (1)

- Lincoln Ideal ARC TIG 300/300
- Miller MIG
- Oxygen / Acetylene
- Dayton Spot Welder #2Z544
- Miller ARC TIG Portable 165/165
- Plasma Torch, Hypertherm 625 (5/8")

Sheet Metal Equipment & Shears

- (1) Di-Acro / Notcher
- (2) Di-Acro / Punch / #2
- (1) Di-Acro / Hand Brake
- (1) Di-Acro / Hand Shear
- (1) Di-Acro / Tube Bender
- (1) Shear, Cincinnati 1/4" x 10'
- (1) Shear, Di Acro

Grinding and Honing

- (1) Surface Grinder Harig 618W
- (1) Sunnen Hone

Band & Cut-off Saws and Sanders

- (1) Marvel Series 8 Mark I Vertical/Miter
- (1) Grob Vertical
- (1) DoAll Vertical
- (1) Wilton 10x16 Drop Saw
- (1) Walker-Turner Vertical
- (3) Belt Sanders
- (1) Milwaukee Chop Saw

Drill Presses, Filers & Grinders

- (2) Drill Press, Rockwell
- (1) Drill Press, Clausing
- (3) Drill Press, Sunex 5000A
- (1) Filer, Craftsman
- (1) Grinder, Baldor
- (1) Grinder, Jet, Belt
- (1) Grinder, Diamond, Accu-Finish
- (1) Grinder, Wilton, Pedestal

Assembly

- Riv Nut Guns
- Pop Rivit Guns
- Helicoil Insert Tools
- Keensert Insert Tools
- Torque Guns
- Soldering Guns
- Heat Guns
- Veeco He Leak Tester

Marking/Engraving/Finishing/Special Processes

- ElectroX Raptor Fiber 4 Axis Engraver/Marker
- (1) Micro Blaster
- (2) Glass-Bead Blaster / Empire Abrasive #526
- (3) 5 Micron Air Flow Benches
- (1) Dwindraft Grinding Table / Diversitech
- (8) BurrKing- Tumber
- (1) Spinner™ Magnetic Deburring Machine 11x11
- (2) Vacuum Pumps
- (1) Ultrasonic Cleaner
- (1) Co2 Cleaning
- (1) Co2 ChilAire Coolant System Cool Clean Technologies

Miscellaneous / Process Equipment

- (1) 7.5Hp IR Recp Compressor
- (1) 15Hp Quincy 390 Recp Compressor
- (1) 15 Hp IR Screw Compressor
- (1) 20 Hp IR Screw Compressor
- (1) Ingersol Rand Air Dryer & Filtration (50hp Equiv.)
- (1) Water Purifier RO (Reverse-Osmosis 500g/d)
- (1) 2-Man Lift / Scissors
- (1) Forklift, Clark 5000lbs, 54"
- (2) Pallet Jacks
- (2) Parts Counter and Scales
- (1) Shrink Fit Tool Machine-Techniks™
- Reusable Part Processing Dunnage

Sales/Marketing/MarketingDevelopment/Equipment List/EquipmentList Rev. 09.21