

Equipment List

HORIZONTAL MILLING MACHINES

- 1 - HS-4 CNC Horizontal Mill
(3) Axis Programmable
50 Taper 5000 RPM
Table Size 40" x 146" Table Load Capacity 25,000 lbs
Glass Scales - X 150" - Y 66" Travel
- 1 - Olympia Horizontal CNC Boring Mill
(4) Axis Programmable
50 Taper Spindle 3000 RPM
Table size 48" x 100" - Table Load Capacity 33,000 lbs.
Glass Scales - X 102" - Y 79" Travel
- 1 - EC-1600 Horizontal CNC Mill
(3) Axis Programmable
50 Taper 6000 RPM Spindle
40 Tool Changer - Table Load Capacity 10,000 lbs
Glass Scales - X 60" - Y 42" Travel
- 2 - EC -1600 Horizontal CNC Mill
(4) Axis Programmable with Rotary Table
50 Taper 6000 RPM Spindle
40 Tool Changer - Table Load Capacity 10,000 lbs
Glass Scales - X 60" - Y 42" Travel
- 1 - Tarus MBX 92-150 CNC Gun Drilling Machine
w/ Second Spindle for Milling, Drilling & Tapping
Min. Drilling Size: .1875" dia.
Max. Drilling Size: 2.5" dia.
Drilling Depth: 90"
Table Size: 60" x 72"
42" Programmable Rotary Table
Fully Enclosed
- 1 - Devlieg CNC Boring Mill
(2) Axis Programmable
50 Taper 1800 RPM
Glass Scales - X 60" - Y 40" Travel
- 1 - Devlieg 43H-72 Spiramatic Boring Mill
With .002 (2) Axis Digital Readouts
Table Size 35" x 72"
X 72" - Y 42" Travel
- 1 - Devlieg 3A-48 Boring Mill
With .0001 (2) Axis Digital Readouts
X 48" - Y 36" Travel
- 1 - Devlieg 43H-48 Boring Mill
With .0001 (2) Axis Digital Readouts
X 48" - Y 36" Travel
- 1 - Haas HS-IRP CNC
(4) Axis Horizontal Mill
Dual 16" x 16" Pallet
24 Tool Changer
X 60" - Y 30" Travel
- 1 - Haas-EC-400 CNC
6 Pallet Pool
Dual 20" x 20" Pallet
70 Tool Changer
X 20" - Y 20" Travel
Probing Capability

Equipment List

VERTICAL MILLING MACHINES

- 1 - Chiron/Stama MC 331 Twin CNC
High Speed Twin Spindle Vertical Machining Center
Dual 4th Axis Trunion Assemblies
Dual Workpiece Changer
.9 Second Tool Change/42 Tools
.75 G Acceleration
X 31" – Y 15" Travel
- 2 - Chiron FZ12W CNC
High Speed Vertical Machining Center
Dual 4th Axis Trunion Assemblies
Dual Workpiece Changer
1.1 Second Tool Change/20 Tools
.5 G Acceleration
X 21" – Y 12" Travel
- 1 - Chiron DZ12K IWW CNC
High Speed Twin Spindle Vertical Machining Center
Dual 4th Axis Trunion Assemblies
Dual Workpiece Changer
.9 Second Tool Change/64 Tools
1.5 G Acceleration
X 22" – Y 13" Travel
- 1 - Chiron FZ15W CNC
High Speed Vertical Machining Center
Dual 4th Axis Trunion Assemblies
Dual Workpiece Changer
.9 Second Tool Change/20 Tools
.75 G Acceleration
X 21" – Y 15" Travel
- 2 - Chiron FZ08W CNC
High Speed Vertical Machining Center
4th Axis Trunion Assembly
Dual Workpiece Changer
.9 Second Tool Changer / 12 Tools
1 G Acceleration
X 12" – Y 10" Travel
- 1 - Mori Seiki NV5000 CNC
Vertical Machining Center
50 Taper
4th, 5th Nikken Trunion assembly
High Pressure Coolant (1000 psi)
- 1 - NTC CNC Machining Center
Model CMC-300v
Dual Workpiece Changer
16 Tool Changer
X 20" – Y 12" Travel
- 2 - Haas VF-4 CNC
(3) Axis Vertical Machining Center
4th Axis Rotary Indexer
20 Tool Changer
X 50" – Y 20" Travel
- 1 - Haas VF-3 CNC
Super Speed Model
(3) Axis Vertical Machining Center
25 Tools
X 40" – Y 20" Travel
4th and 5th Axis Capability
Fully Programmable Trunion
- 1 - Haas MDC-500 CNC Machining Center
Dual Workpiece Changer
Probing Capability
X 24" - Y 16" Travel
- 1 - LPM CNC Vertical Milling Machine
Prototrak VMX - 3 Axis
Glass Scales
X 31" – Y 18.5" Travel
- 1 - Haas UMC 750 CNC
5 Axis Vertical Machining Center
40+1 Tool Changer
Quick Change Fixturing
X 30" – Y 22" Travel
Probing Capability

Equipment List

VERTICAL MILLING MACHINES CONTINUED

- 8 - Trak DPM5V Milling Machine
Prototrak VM-CNC
(3) Axis Controlled Glass Scales
X 40" – Y 20" Travel
- 4 - Trak DPM5 Milling Machine
Prototrak SM – CNC
(3) Axis Controlled Glass Scales
X 40" – Y 20" Travel
- 5 - Trak DPM7V Milling Machine
Prototrak VM – CNC
(3) Axis Controlled Glass Scales
X 60" – Y 20" Travel
X 60" – Y 20" Travel
- 1 - Haas TM – 2
3 Axis – CNC
10 Tool Changer
4th Axis Capability
X 40" – Y 16" Travel
- 3 - Alliant Heavy Duty Milling Machine
48" Tables with Heavy Duty Head
X 30" – Y 12" Travel
- 2 - Fadal 6030 CNC
(3) Axis Vertical Machining Center
4th Axis Rotary
21 Tool Changer
X 60" – Y 30" Travel
- 2 - Alliant Milling Machine
(2) Setup with Prototrak MX2 - CNC
(1) Setup with Prototrak A.G.E.3 - CNC
X 30" – Y 12" Travel

Equipment List

LATHES

- 2 - Mori-Seiki Frontier II – CNC Lathe
With MSC -521 Control
16" Diameter Capacity X 16" Max. Length
- 1 - Mori-Seiki SL-15 CNC Lathe
10" Diameter Capacity X 20" Max. Length
- 1 - Okuma –L470 Captain – CNC Lathe
16.50" Diameter Capacity X 49" Max. Length
- 2 - Okuma Simulturn LC40 - CNC Lathe
Heavy Duty Twin Turret – 4th Axis
12 Tools Upper Turret–8 Tools Lower Turret
18" Diameter Capacity X 30" Max. Length
- 1 - Okuma Simulturn LC40 - CNC Lathe
Heavy Duty Twin Turret – 4th Axis
12 Tools Upper Turret–8 Tools Lower Turret
18" Diameter Capacity X 30" Max. Length
Completely Re-built 2014 by Infinity Rebuild
(Okuma Authorized Rebuilder)
- 4 - Haas ST - 30 - CNC Lathe
40 HP
21" Diameter Capacity X 31.75" Max. Length
- 1 - Haas SL40 - CNC Lathe
10 Tool Changer
40" Diameter Capacity X 47" Max. Length
- 2 - Trak TRL 24605X - CNC Lathe
Prototrak SX CNC Controller
24" Diameter Capacity X 60" Max Length
- 1 - Trak TRL1840CSS - CNC Lathe
Prototrak LX3 Controller
18" Diameter Capacity X 40" Max. Length
- 1 - Do-All Model LS 1660 - Heavy Duty Turning Lathe
16" Swing 60" Centers with Taper Attachment
With .0005 (2) Axis Digital Readouts
16" Diameter Capacity X 60" Max. Length
- 1 - Toshiba TUE 150 CNC Vertical Turning Lathe
New 2016
Table Diameter 57"
Maximum Swing 78.7"
Maximum Cutting Height 72.8"
Maximum Load On Table 17,600 LBS
Automatic Tool Changer
12 Tool Changer
- 3 - Doosan Puma GT2100 – CNC Lathe
New 2016
15.35 Diameter Capacity X 22.12 Max Length
12 Tool Changer
Auto Door
- 1 - Webster-Bennet VTL
Manual with Readouts
72" Swing
- 1 - Trak TRL1745P - CNC Lathe
Prototrak LX2 Controller
17" Diameter Capacity X 45" Max. Length
- 1 - Trak TRL 1840CSS-CNC Lathe
Prototrak Controller
18" Diameter Capacity X 40" Max. Length
- 1 - Sharpe 1640 - Lathe
16" Diameter Capacity X 40" Max. Length
- 1 - Haas DS30SSY - CNC Mill/Turn
Dual Spindle Hand Off
Live Milling
16" Diameter Capacity
23" Max Length
- 1 - Sharpe #2680C - Lathe
With .0005 (2) Axis Digital Readouts
26" Diameter Capacity X 80" Max. Length
35" Diameter Capacity in Gap X 12" Max. Length
- 1 - Do-All Model 1780 - Lathe
17" Diameter Capacity X 80" Max. Length
- 1 - Do-All Model LD 1340 - Engine Lathe
Collet Attachment
13" Diameter Capacity X 40" Max. Length

Equipment List

GRINDERS

- 1 - Okamoto Model 6-18 Linear Surface Grinder
18" Magna-Lock Vari-Mag Chuck
- 4 - Okamoto 12" x 14" Surface Grinders
Magna-Lock Vari-Mag Chuck
- 1 - Okamoto Model #OGM-12-24U
I.D. - O.D. Grinder
12" O.D. x 28" Length
- 1 - Jones & Shipman Model 1310
I.D.-O.D. Grinder
8" O.D. x 18" Length
- 1 - Parker Majestic
O.D. Grinder
Rebuilt 2010
12" O.D. x 24" Length
- 1 - Shigiya Type G-30B
I.D.-O.D. Grinder (Hydraulic)
12" O.D. x 28" Length
- 1 - Landis H819 O.D. Grinder
Automatic Auto Sizer
3" x 20" Wheel with Autodresser
- 1 - Blom Simplex #5
Hydraulic Surface Grinder
Vari-Mag Chuck Rebuilt with PLC Controller
12" x 30" Capacity
- 1 - Chevalier Model FSG 1640AD
Hydraulic Surface Grinder
Vari-Mag Chuck
16" x 40" Capacity
- 3 - Chevalier 6" x 18" Surface Grinder
Walker Magnetic Chuck
- 1 - 84" Blanchard Rotary Surface Grinder
Model 42-72-84
Rebuilt 2016
84" Chuck Diameter
86" Swing
42" Wheel Diameter
24" Height Under Wheel
Polytech Conveyor System With Tank
- 1 - Model 20 Blanchard Grinder
Swing 36"
Vari-Mag Chuck
- 1 - DED-Tru Centerless Grinding Machine
Feed Through and End Feed Capabilities

JIG GRINDERS

- 1 - G32 Moore Jig Grinder
Bridge Style
X 32" - Y 20"
.00005 Digital Readouts
Rebuilt 2009
- 3 - 3 Moore Jig Grinder
.00005 Digital Readouts
- 2 - G18 Moore Jig Grinder
Complete with All Tooling &
High Speed Grind Tools
.00005 Digital Readouts
Rebuilt 2016

Equipment List

SAWS

- 1 - HYD-Mech H-14A CNC Saw
Bundling Capability
- 1 - HYD-Mech H12 Automatic Cut-Off Saw
Model #H12-A
Bundling Capability
- 1 - Do-All Heavy Duty Vertical Band Saw
Model 36-2 with Blade Welder
- 1 - Wilton Model 8020 Heavy
Duty Vertical Band Saw with Blade Welder
- 4 - Wilton Model 4200 Belt
And Disc Finishing Machine
- 4 - Roll - In Band Saw
And Disc Finishing Machine
- 1 - Jet Cold Saw Model JCS-3150
Ferrous or Non-Ferrous Material
12" Capacity
- 1 - Spartan Model 812N Cut Off Saw

BROACHING EQUIPMENT

- 1 - LaPointe Horizontal Key Broach
30 Ton with 48" travel
- 1 - Colonial Broach
Horizontal Spline Broach
20 Ton with 72" travel
- 1 - Detroit Vertical Broach
3 Pull Heads
40 Ton with 72" Travel
Contained within a 15' x 15' x 10' Concrete Pit
- 1 - American Horizontal Broach
20 Ton with 48" Travel

WELDING EQUIPMENT

- 2 - Miller CP302 Wire Welder
- 1 - Miller Model 330 A/BP 1987 AC AD
Heli Arc Welding Machine
Steel & Aluminum Capable
- 2 - Model Millermatic #200 Wire
Feed Welder Steel or Aluminum
- 1 - Model Hobart Aluminum Wire Feed Welding Gun
- 1 - Model Miller CP-200 Wire Welder
- 1 - Model Miller Syncrowave 351 Welder
- 1 - Koike Aronson 1N (Full CNC Controlled)
1K – 1500G Coordinate Drive
Flame Shape Cutting Machine
Cutting Range 60" x 118" with Water Table
Off-line PC for programming
- 1 - Plasma Torch
Thermal Dynamics – Pak Master 100XL
- 4 - Complete Gas Welding Sets
- 1 - 4' x 4' Jig Table for Weldments
- 1 - 4' x 12' Jig Table
Cast Iron for Construction of Large Weldments
Complete with Bolt On Clamping Capabilities
- 1 - Atlas Pipe Mate Dual Speed
- 2 - MBC BP-2 Welding Positioner/200 lb. Capacity
- 2 - Ace Smoke Eaters Model 73-601
- 1 - Ace Smoke Eater Model 73-200

Equipment List

INSPECTION EQUIPMENT

- 2 - Zeiss (Contura G2) CMM
VAST XT Scanning Head
12 Probe Change Rack
Fully Programmable X 39" - Y 47"
and X 39" - Y 63"
Calypso
- 1 - Zeiss (Spectrum) CMM
6 Probe Change Rack
Fully Programmable X 38" - Y 64"
Calypso
- 1 - Zeiss (Eclipse) CMM
5 Probe change rack
Fully Programmable X 27" - Y 27"
Calypso
- 1 - Brown & Sharpe Global CMM 555
Renishaw PH10 T Motorized Probe Head
Renishaw TP20 Touch Trigger Probe
Calypso Fully Programmable
- 1 - Brown & Sharpe Model 2000 CMM With
Renishaw Multi-Position Tip Probe
- 3 - Brown & Sharpe Model 600
Micro-Hite Gage with Printout
- 1 - Brown & Sharpe Model 900
Micro-Hite Gage with Printout
- 1 - Fowler Trimos V Plus
24" Electronic Height Gage
- 1 - Fowler Trimos V Plus
40" Electronic Height Gage
- 2 - Starrett Optical Comparator Model HB 400
With Quadra Chek 2000 Display - 10x Magnification
- 2 - Mahr Perthometer XC20 & XC200
Fully Programmable to check radii and angles
- 1 - Brown & Sharpe Reflex Manual CMM
Renishaw Multi-Position Tie Probe
- 1 - Scherr Tomic Comparator
(2) Axis
Powered Protractor Ring w/ Readouts
10x & 20x Magnification
- 1 - Micro-Vu Optical Comparator
Spectra 14"
Q16 DRO
3x, 6x, 12x Magnification
- 2 - Micro-Vu Qubix Vision System, DCC & Manual
21 - 115x Magnification
- 1 - Faro Prime Articulating Arm
8 Ft. Portable CMM
Faro CAM2 Measuring Software
- 2 - Mantis - Vision Engineering
Viewing Systems
2x, 4x, 6x, 8x Magnification
- 2 - Mitutoyo Tool Makers Microscopes
Fiber Optics Light
- 5 - Mitutoyo Height Masters 12" with Extension Bases
- 1 - Mitutoyo Height Masters 24" with Extension Bases
- 7 - Mitutoyo Height Gages 18"
- 2 - Hawkeye Precision Borescope with One (1)
Aqua Snake, Eye Video Camera
- 15 - 81 Piece A.A. Jansson/
Inspection Grade Jo-Blocks
- 11 - 18" x 24" Granite Surface Plates/Inspection Grade
- 9 - 24" x 36" Granite Surface Plates/Inspection Grade
- 1 - 36" x 48" Starret Pink Surface Plates/
Inspection Grade
- 3 - 48" x 72" Starret Crystal Pink Surface Plate

Equipment List

INSPECTION EQUIPMENT CONTINUED

- 2 - Mitutoyo 211 Surf Test Surface Finish Analyzer
- 2 - Mitutoyo SJ-201 Surf Test Surface Finish Analyzer
- 2 - 48" x 72" Granite Surface Plates
- 2 - Wilson Rockwell Hardness Testers
- 1 - Starrett Rockwell Hardness Tester
- 0"- 42" OD micrometers---1" - 12" ID micrometers---blade, anvil, thread, point, and groove micrometers---precision v-blocks---height gages---.000050 - .0001 indicators---precision cylinder squares---precision angle and sine plates---dial and digital calipers 0-24" measurement capability---verniers 0-50" measurement capability---precision bench centers---thread gages---Myer pin gages---gage balls---precision levels, Deltronics pin sets---Concentricity gages---Tri-micrometers---Sunnen bore gages

ADDITIONAL EQUIPMENT

- 1 - Stratasys Dimension 1200es 3D Printer
ABSplus production-grade thermoplastic material
10x10x12 Build Envelope
.010in or .013in layer thickness
- 1 - Telesis ProStation laser workstation
FQ=10 CDRH class I fiber
full enclosure and filtration system
- 1 - Mitsubishi Wire EDM
FX10K
X 31.49" - Y 22.63" - Z 8.64"
- 1 - Mitsubishi Wire EDM
MV2400 - ST
X 23.6" - Y 15.7" - Z 16.7"
- 1 - Mitsubishi EDM Drill
ED - 2000M
X 11.8" - Y 7.8" - Z 7.8"
- 1 - Agie Charmilles Die-Sinking RAM EDM
X - 19.685" - Y 15.748" - Z 15.748"
- 1 - Eldorado Deep Hole Drilling Machine
High Pressure Oil - 2000 PSI
3/4" Diameter. x 48" long
Knee Type
Digital Readout On All 3 Axis
- 1 - Surftran - Thermo Deburr System
C-250 Thermal Energy Machine
6 / 6" Station Thermal Combustion Chamber
- 2 - Custom Designed and Built Mobile Hydraulic Test Stand w/ High/Low pressure capabilities
- 2 - Custom Designed and Built Stationary Hydraulic Test Stand
PLC for Programmable Cycles and High/Low Pressure Settings
- 1 - 7 Tank Hot Black Oxide System
Fully Ventilated and Insulated Tanks
36" X 36" X 36"
Dedicated Overhead Crane
Installed 2016
- 1 - Zetalase Vereo
Laser Marking System
Fiber Solid State
Full Enclosure
- 1 - Hey No. 3 Facing and Centering Machine
Maximum Diameter 6.25 X 46"
Minimum Diameter 0.25 X 3"
Adjustable Walking Beam Conveyor
For Automatic Load/Unload

Equipment List

ADDITIONAL EQUIPMENT CONTINUED

- 4 - Kaeser BSD50 Air Compressor
50 HP Rotary Screw / Air Dryer
- 2 - Hydrovane Rotary Air Compressor
50 Horsepower / Air Dryer
- 1 - Comp Air Rotary Air Compressor
25 Horsepower / Air Dryer
- 1 - Cress Electric Heat Treat Furnace C122012
Separate Draw Furnace
- 1 - Cress Electric Heat Treat Furnace 601K
Separate Draw Furnace
- 1 - Cress Electric Heat Treat Furnace C1222012
Separate Draw Furnace
- 3 - CAT 5000 lb. Lift Truck
- 1 - Yale 5000 lb. Lift Truck
- 1 - Mitsubishi Model #XT-AS 1000 lb
Battery Operated Lift Truck
- 1 - Wesco Broach Lift
1000 lbs. Capacity
- 2 - Cuda Hot Water Parts Washer
With Rotary Table
- 1 - Sunnen Model MBB 1690
Power Stroker Hone Complete
Gaging and Accessories
- 3 - Empire Sand or Glass Bead
Blasting Machine 25" x 30" x 35" Capacity
- 1 - Vapor Honing Technologies
Vapor Hone 3000
Internal part rinse gun
3 stage filtration system
Internal workspace 50"W x30"D x 35"H
- 8 - 3000 CFM Smoke Eaters
Dayton 1995 Model
- 2 - Yuasa 12" Diameter Rotary Tables for Mills
- 1 - Troyke Model P-25
25" Precision Power Operated Rotary Table
For Boring Mills
- 3 - Darex Drill Sharpeners Model #SP 2500
1" Diameter Capacity
- 1 - Cast Iron 4' x 8' Keyed Precision
Work Table, Ground Flat & Parallel
- 2 - Super Spacers
With Index Plates
- 5 - Sets Devlieg Angle Plates
- 2 - Twister Speed Model #LT-1B
Lapping Machine
- 1 - Hydraulics Inc. – Arbor Press
5 Ton Press
- 1 - Heavy Duty Cutter Grinder
- 1 - Excello Precision Center Lap 54" Capacity
- 8 - Pallet Jacks 1500 Pounds
- 18 - Pedestal Floor Grinders

Rotary tables--dividing head--Hartford Super Spacer--Last Word Radius Dressers--High speed attachment for surface grinder--whirligigs--tapping heads--Harding Index Unit--etchers--demagnetizers--vises, lapping plates, etc.