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## **Equipment List (Updated July 2016)**

### CNC Horizontal Mills

- 1 OKK HM 1000S Horizontal Machining Center with a 2 Pallet Indexing Shuttle System. Travel of X = 55.12" Y = 43.31" Z = 39.37"
- 1 Mitsubishi M-HT 11/1416 Horizontal Precision Mill M-HT Series. Travel of X = 78" Y = 59" Z = 51"
- 1 Okuma MX-60HB 2 Pallet Indexing Table Horizontal Machining Center. Travel of X = 31.5" Y = 31.5" Z = 31.89"
- 1 Mazak FH6000 Horizontal Machining Center with a 6 Pallet Shuttle System. Travel of X = 31.5" Y = 31.5" Z = 34.5"
- 1 Leblonde-Makino MC98. 2 Pallet Horizontal Machining Center. Travel of X = 30.5" Y = 30.5" Z = 33"
- 1 Haas EC-500. 2 Pallet Horizontal Machining Center. Travel of 40" x 20" x 25"
- 1 MTE BF4700 Bed Mill. Working Table Surface: 185" x 47.2"; Z-axis of 79" Table capacity of 30,800 lbs.

### CNC Vertical Machining Centers

- 1 Okuma MC-60 VAE Vertical Machining Center. Travel of X = 59" Y = 25" Z = 24"
- 1 Okuma MC-6 VA Vertical Machining Center. Travel of X = 59" Y = 25" Z = 24"
- 1 Haas VF-9 Vertical Machining Center with 4th Axis. Travel of X = 84" Y = 40" Z = 48"
- 1 Hurco BMC-50 Vertical Machining Center. Travel of X = 50" Y = 30" Z = 24"
- 2 Okuma Cadet V-4020 Vertical Machining Centers. Travel of X = 40" Y = 20" Z = 20"
- 1 Hurco BMC-40 Vertical Machining Center. Travel of X = 40" Y = 30" Z = 24"
- 1 Hurco BMC-4020 Vertical Machining Center with Full 4th Axis Rotary Capability. Travel of X = 40" Y = 20" Z = 24"
- 1 Hurco BMC-4020 Vertical Machining Center. Travel of X = 40" Y = 20" Z = 24"
- 1 Hurco BMC-30 HT Vertical Machining Center. Travel of 30" X 20" x 24"
- 1 Hurco BMC-20 R Vertical Machining Center. Travel of X = 22" Y = 14" Z = 14"
- 1 Hurco VM1 Milling Center. Travel of X = 26" Y = 14" Z = 18"
- 1 Clausing 400 EVS-08 Vertical Mill with Accurite CNC Control
- 1 Milltronics Model MB-20 CNC Mill Bed.
- 2 Top One / Mill Power CNC Knee Mills. Travel of 10" X 50"
- 1 Tree-Journeyman 250 CNC Mill. Travel of X = 26" Y = 14"
- 2 Clausing-Kondia Proto Trak MX2 . Travel of X = 42" Y = 9"

### CNC Router

- 1 Haas GR510 Router. Travel of X = 121" Y = 61" Z = 11"

### CNC Lathes

- 1 Clausing Model 4000 / 120 MT CNC Turning Center with 21" Swing x 120"
- 1 Okuma Cadet L-1420 CNC Turning Center with 18.9" swing x 49.2"
- 2 Okuma LB15 Lathes with 9.5" Swing by 27"
- 3 Okuma Cadet LNC8C Lathes with 12 Tool Turrets and Capacities of 9.5" DIA x 16.5" Length
- 1 Haas TL-3 CNC Lathe with 20" Swing and 60" Length
- 2 Haas TL-2 CNC Lathe with 16" Swing and 48" Length

- 1 Mazak QT-40 with 10" Swing x 60"

#### CNC GRINDER

- 1 Okuma GA34N CNC External Grinder with Marposs E5 Automatic Gaging System and Capacity of 4" DIA x 44" Length

#### NC GRINDER

- 1 Okumoto ACC-20-40 EX NC Auto Wet Surface Grinder.  
Longitudinal Travel = 45.5" Cross Travel = 21.5"

#### CNC Wire EDM

- 1 Mitsubishi Wire EDM Model FA20S X = 19.7" Y = 13.8" Z = 11.8"
- 1 Mitsubishi Wire EDM Model FX 10 X = 13.7 Y = 9.8" Z = 7.7"

#### CNC WELDING ROBOT

- 1 ABB Welding Robot 2400L with Miller Auto Vision Power Source. AWC and Bullseye Option.  
ABB 750B 2 Station Positioner, 1600 lb per side.

#### CNC SAWS

- 1 HYD-MECH V-18 APC Fully Automated Band Saw with Extended Head, Full 45° Left and Right Swing and Hydraulic Shuttle Feed

#### Horizontal Milling Machines

- 1 Cincinnati Gilbert Model HJF Horizontal Boring Mill, Traveling Column Design, 3 Axis Digital Readout, 48" Spindle Travel, 312" Column Travel, 96" Vertical Travel, Floor Plate coverage 10' x 24'.
- 1 Devlieg Model 4H-96 Spiramatic Jig Mill, 40" x 96" Table. 96" Table Travel. 60" Vertical Travel, 20" Platen Travel, 20" Spindle Travel,
- 2 Devlieg Model 4B-96 Spiramatic Jig Mill, 36" x 96" Table. 96" Table Travel. 60" Vertical Travel, 20" Platen Travel, 20" Spindle Travel
- 1 Herbert-Devlieg Model 4K-72 Spiramatic Jig Mill. 40" x 72" Table. 72" Table Travel, 60" Vertical Travel, 20" Platen Travel, 20" Spindle Travel
- 1 Devlieg Model 3K-72 Spiramatic Jig Mill. 36" x 72" Table. 72" Table Travel, 48" Vertical Travel, 16" Platen Travel, 16" Spindle Travel, NC Control
- 1 Devlieg Model 4B-60 Jig Mill, 36" x 60" Table. 60" Table Travel. 48" Vertical Travel, 20" Platen Travel, 20" Spindle Travel
- 2 Devlieg Model 3B-48 Jig Mill, 30" x 48" Table. 48" Table Travel. 36" Vertical Travel, 16" Platen Travel, 16" Spindle Travel

#### Manual Mills

- 7 Clausing-Kondia Mills variable speed with X - Y Digital Readouts.
- 2 Ex-Cello Mills variable speed with X - Y Digital Readouts
- 1 YCI-Supermax Mode; YCM-16VS Vertical Mill, Digital Readout

#### Vertical Lathes

- 1 King 72" Vertical Turret Lathe

#### Lathes

- 1 TOS SU-125 Lathe. 49" Swing by 118" Between Centers
- 1 Nebel Series F 34" x 196", 22" swing over saddle, taper attachment
- 1 Leblond Sliding Bed . 58" swing in Gap, 60" standard centers, 144" centers with bed retracted, 19" standard swing
- 1 Clausing Colchester Lathe. 15" Swing x 50"

- 1 Kohema Lathe (Gap Bed) 18" Swing x 60
- 1 Clausing Metosa Lathe. 14" Swing
- 1 Hardinge Lathe Model HCT

#### Grinders- Surface, OD / ID, Jig

- 1 Moore # 2 Jig Grinder 8" x 14" Table with Extensions and Digital Readouts
- 1 Moore # 3 Jig Grinder with 40,000 RPM Head, 11" x 24" Table
- 1 SMTW OD Grinder. 12-1/2" swing by 60" Between Centers
- 1 Cincinnati -Heald I/D - O/D Grinder. 18" Swing with 24" Bed
- 1 Grisetti I/D-O/D Grinder. 12-1/2" Swing with a 40" Bed
- 2 Okamoto E-Series Surface Grinder. Model EG-18 with Readouts
- 2 MHT Surface Grinders with 6" x 18" Chucks
- 1 Thompson 6" x 18" Hand Feed Surface Grinder

#### EDM

- 1 EX-Cello EDM Machine 12" x 20" x 14" (Carbon-Electrode Type)

#### HONE

- 1 Sunnen MBB 1660 Hone

#### SAWS

- 1 Marvel Series 8 Mark II Saw with 18" x 22". Capacity, Tilt Column for Miter Cuts and Conveyor Feed Table
- 1 Sin-O-Matic TC 60/SL Bar Stock Cutter with Auto Feed 2-1/4" max dia x 13' Stock Length Auto Face and Center Drill after the Cut with Shuttle
- 2 Roll-In Band Saws with Feed Table
- 1 DoAll Band Saw with Auto Feed Table
- 1 Jet Model HBS-1010HD Horizontal Band Saw, 10" x 10" Capacity

#### Miscellaneous Equipment

- 1 DC Morison Keyseater Cap. 1" x 9" Long
- 1 Allen 6 Spindle Drill Press
- 1 Powermatic Variable Speed Drill Press
- 1 Delta Rockwell 15" Single Spindle Drill Head
- 3 Flex-Arm Pneumatic Tapper
- 1 20 Ton Frame Press
- 1 H-Frame Hydraulic Shop Press
- 1 Trinco Sand Blaster
- 1 Cyclone Glass Bead blaster

#### Welding Equipment

- 2 Lincoln Precision Tig 275
- 1 Miller " Dialarc"
- 1 OTC 350 XSR with Wire Feed
- 1 Lincoln Power Mig 300
- 3 Lincoln Power Mig 255
- 1 Miller Deltaweld Model 452 Mig Welder, 450 Amp, Miller Wire Feed
- 1 Hobart Handler 120
- 1 Hobart Excel-Arc 6045CV
- 1 Hobart TigWave 250 AC/DC

#### Painting Equipment

- 1 Viking Down Draft Spray Booth 10' x 26' with Air Make Up Unit and Heated Curing System, with separate mixing room

### Lift & Transport Equipment

- 1 Komatsu FG45 Forklift 10,000 lb Capacity
- 1 Komatsu FG32 Forklift 6,500 lb Capacity
- 2 Komatsu FG25 Forklift 5,000 lb Capacity
- 1 10 Ton Overhead Bridge Crane
- 1 30' Span 6,000 lb Overhead Monorail with Electric Hoist
- 1 23' Span 6,000 lb Overhead Monorail with Electric Hoist
- Numerous Jib, Gantry, and Overhead Hoist Systems

### Inspection Equipment

- 1 LK Industries G-80C Coordinate Measuring Machine 40" x 60" x 30" . Renishaw Probe, PC Automated Software
- 1 Giddings & Lewis Cordax 1808 MEA CMM Renishaw Articulating Probe, Computer Operating Software.
- 1 Sheffield Cordax 1808 CMM Renishaw Probe, Pc Operating Software
- 1 Metris MC360M6 Portable Articulating Arm CMM with 3D Operating Software
- 1 Faro Portable Articulating Arm CMM with 3D Operating Software
- 1 Nikon R-14 Optical Comparator with 14" Travel Surface Illumination and Digital Readouts
- 1 Brown & Sharpe Micro-Hite Electronic Height Gage

### Shop Control & Programming Information

E-2 Shop System  
Edge Cam Programming Package at Current Revision

### Pickup & Delivery

- 1 1 Ton GMC Van
- 1 International 4700 Flatbed
- 2 1/2 Ton Chevrolet Pickup

### Work Force

- 80 Employees / Operating 3 shifts

### Shop Operating Space

- 3 Locations in Tipp City and Troy, Ohio ( Total of 75,000 Square Feet )