

# Miller Welding & Machine Company Equipment List

April 2009

## Finishing Systems

### Powder System:

Maximum Part Dimensions: 60" W x 72" H x 144"L.

Maximum Part Weight: 5,000 lbs.

### Equipment:

BCP 8-Wheel Blast Machine.

Herr Industrial 5-Stage Wash.

Herr Industrial Dry Off Oven.

Wagner ABC Powder Booth featuring:

Automatic Self-Cleaning System.

Digiflow Control System.

12 Automatic Powder Guns.

2 Manual Powder Guns.

Laser Thermoscope for Powder Thickness Control.

Herr Industrial Curing Oven.

Jervis Webb Power and Free Conveyor System.

Pollution Control Systems Burn Off Oven.

### Manual System:

Maximum Part Dimensions: 10'3" W x 13'10" H x 40' L.

Air cured length 80' L.

Maximum Part Weight: N/A

### Equipment:

BCP Manual Blast Room.

JB I Manual Wash Room.

JB I Primer Booth with Graco Precision Mix System.

JB I Finish Booth with Graco Precision Mix System.

Herr Industrial Curing Oven.

## CNC Robotics

- 2 - MotoMan ASG Custom Robotic Welding Cell with dual NX-100 Control.  
Dual EA1900N 2.93m Arms, 6000kg capacity, 16'5" work envelope, ComArc enabled.
- 1 - MotoMan ASG Custom Robotic Plasma Cutting Cell.  
Dual HP20-6 robots with Hypertherm HPR-130 plasma torches.  
One HP350 Material Handling robot.  
500lb capacity, 12.50 ft work envelope.
- 1 - MotoMan ArcWorld IV 6000 Robotic Welding Cell with NX100 Control.  
EA1900N 2.93m Arm, 1200kg capacity, ComArc enabled.
- 1 - MotoMan ArcWorld 6200 Robotic Welding Cell with MRC Control.  
Dual SK6 2.93m Arms, 500kg load.
- 1 - MotoMan FabWorld Robotic Welding Cell with NX100 Control.  
UP20MN 4.00m Arm, 1500kg capacity, ComArc enabled.
- 1 - MotoMan FabWorld Robotic Welding Cell with NX100 Control.  
EA1900N 2.93m Arm, 1500kg capacity, ComArc enabled.
- 1 - MotoMan FabWorld Robotic Welding Cell with XRC Control.  
UP20-6 3.00m Arm, 1500kg capacity, ComArc enabled.

### **CNC Horizontal Machining Centers**

- 1 – Mazak H6000 Nexus Horizontal Machining Center with Mazatrol 640M Nexus Control.  
Travels: X – 31.5", Y – 31.5" Z – 31.5".  
Table: 19.68" x 19.68", 2 Pallets. 1 Degree Indexing.  
Spindle – 3.94", 10,000 RPM. 43 Tool ATC.
- 3 – Mazak H630 Horizontal Machining Centers with M-32 Control.  
Travels: X – 39.4", Y – 31.5", Z – 29.5". Table: 25" x 25", 2 Pallets.  
1 Degree Indexing. 40 Tool ATC.
- 1 – Mazak H680 Horizontal Machining Center with M-Plus Control.  
Travels: X – 39.4", Y – 31.5", Z – 29.5". Table: 25" x 25", 2 Pallets.  
1 Degree Indexing. 120 Tool ATC.
- 1 – Niigata HN63C Horizontal Machining Center with Fanuc 16iM Control.  
Travels: X - 39.4", Y - 33.5", Z - 29.5". Table: 24.8" x 24.8", 2 Pallets.  
0.001 Degree Indexing, 60 Tool ATC.
- 1 - Niigata H800 Horizontal Machining Center with Fanuc 15MA Control.  
Travels: X - 60.2", Y - 48", Z - 44.9". Table: 31.5" x 31.5", 2 Pallets.  
0.001 Degree Indexing, 60 Tool ATC.
- 1 - Mori Seiki SH8000 Horizontal Machining Center with Fanuc MSG501 Control.  
Travels: X - 51.2", Y - 47.2", Z - 43.3". Table: 31.5" x 31.5", 2 Pallets.  
1 Degree Indexing, 60 Tool ATC.
- 1 – Kia HC800 Horizontal Machining Centers.  
Travels: X – 49.2", Y – 35.4", Z – 31.5"  
Table: 31.5" x 31.5", 2 Pallets, 1 Degree Indexing. 60 Tool ATC.

### **CNC Horizontal Boring Mills**

- 1 - Giddings and Lewis RT1250 HBM with Fanuc 310I Control.  
Travels: X - 141.69", Y - 82.60", Z - 49.20", W - 59.00".  
0.001 Degree Indexing, 6.00" Spindle.  
Table size: 63" x 71". 60 Tool ATC.
- 1 - Toshiba BTD 13F.R22 HBM with Tosnuc 888 Control.  
Travels: X – 118", Y – 90.5", Z – 63", W – 27.5".  
0.001 Degree Indexing, 130 MM Spindle.  
Table: 71" x 86". 60 Tool ATC.
- 4 – Kia KBN135 HBM.  
Travels: X – 118", Y – 79", Z – 63", W – 27.5", Spindle – 5.3".  
Table: 79" x 79", 4 Axis Machining Capability. 40 Tool ATC.
- 2 – Vanguard TH6511B HBM with Fanuc 18i Control.  
Travels: X – 78.7", Y – 59", Z – 47.2", W – 21.60".  
0.001 Degree Indexing, 4.00" Spindle.  
Table: 49.2" x 55.1", 40 Tool ATC.

### **CNC Vertical Machining Centers**

- 1 – Quickmill Gantry Machining Center. Travels: X – 96", Y – 252", Z – 28".  
Table: 96" x 252".
- 2 – Amera Seiki Gantry Machining Center. Travels: X – 165", Y – 78", Z – 35".  
Table: 65" x 165". 32 Tool ATC.
- 2 – Mazak MTV515 Vertical Machining Centers with M-Plus Control.  
Travels: X – 41.3", Y – 20", Z – 22".  
Table: 21.6" x 51.1", 2 Pallets. 60 Tool ATC.
- 1 – Mazak AJV 32/405 Vertical Machining Centers with M-32 Control.  
Travels: X – 39", Y – 27.5", Z – 18".  
Table: 25.5" x 48", Full Contouring on 4<sup>th</sup> Axis. 30 Tool ATC.
- 1 – Haas VF3 Vertical Machining Center with 3 – Axis CNC Haas Control.  
Travels: X – 40", Y – 20", Z – 25". Table: 20" x 40", 2 Pallets. 32 Tool ATC.

### **CNC Integrated Horizontal and Turning Machining Centers**

- 1 – Doosan MX3000S Multi-Function Turning Center with Fanuc 18i-TB Control.  
Travels: X – 21.85", Y – 6.3" Z – 59.84". Max Turning Dia. – 21.25".  
Chuck Size – 12". Spindle – 10,000 RPM. 40 Tool ATC.  
Twin synchronized spindles with milling capabilities.

### **CNC Lathes**

- 1 – Mazak Slant Turn 35N ATC M/C with T-32 Control. Swing: 18".  
2.5" Through Spindle, 60" Between Centers. 16 Tool ATC.
- 1 – Mazak Slant Turn 28N ATC M/C with T-32 Control. Swing: 18".  
2.5" Through Spindle, 60" Between Centers. 16 Tool ATC.
- 1 – Mazak Quick Turn 15NX ATC with T-32 Control. Swing: 17.32".  
Z – Axis Stroke: 11.81". 2.4" Through Spindle. 8 Tool ATC.
- 1 – Mazak Quick Turn 20N ATC with T-32 Control. Swing: 17.32".  
Z – Axis Stroke: 11.81". 2.4" Through Spindle. 8 Tool ATC.

### **CNC Cutting Machines**

- 1 - Mitsubishi LVP3718 CO2 Laser Cutting System.  
Table size: 60" x 120", Capacity: 1" Thickness.
- 1 – Messer MPC 2000 Plasma Cutting System with Messer Global Control.  
2 Hypotherm Plasma HPR 260 Torches (2" Steel Plate Capacity),  
6 Oxy Fuel Torches (12" Steel Plate Capacity),  
Water Table, Travel: 17' x 50'.
- 1 – North American Cutting Systems PCS3500HD with Burny 10 LCD Plus Control.  
1 Kaliburn Spirit 400a Plasma Torch (3" Steel Plate Capacity),  
5 Oxy Fuel Torches (12" Steel Plate Capacity),  
Water Table, Travel: 10' x 50'.

### **CNC Punching Machines**

- 1 – Trumpf Trumatic TC 500 R – 1600 with Trumagraph CC 220 S Control.  
Travels: X – 121", Y – 65". Max Sheet Thickness: 0.3125".  
18 Tool ATC.

### **CNC Grinding Machines**

1 – Walter Helitronic. Universal 5 Axis CNC Tool and Cutter Grinding Machine.

### **Vertical Boring Mills**

1 – King Vertical Boring Mill with Digital Readout. Swing: 78". Height Under Rail: 48".

### **Horizontal Boring Mills**

1 – Toshiba BFT-13 5" Bar Boring Mill with Digital Readout.  
Travels: X – 118", Y – 84", Z – 63". Table 59" x 118".

1 – Sacem 4.3125" Bar Boring Mill with Digital Readout.  
Travels: X – 67", Y – 44", Z – 53". Table: 39" x 47".

1 – Shibaura 3.3125" Bar Boring Mill with Digital Readout.  
Travels: X – 39", Y – 39", Z – 32". Table: 35" x 41".

### **Engine Lathes**

1 – Timemaster. Swing: 40" Over Ways, 30" Over Carriage. Center to Center: 240"

1 – Sirco. Swing: 24" Over Ways, 16" Over Carriage. Center to Center: 120".

1 – Sigma with Digital Readout. Swing: 20" Over Ways. 10.2" Over Carriage.  
Center to Center: 84".

1 – Sigma. Swing: 20" Over Ways, 10.5" Over Carriage. Center to Center: 60".

### **Presses**

1 - Toyokoki HYB85 CNC Press Brake. Capacity: 85 Metric Ton. Bed Length: 98.5".

1 – Cincinnati FM750 Press Brake. Capacity: 750 Ton. Bed Length: 16'

1 – Cincinnati CB350 Press Brake. Capacity: 350 Ton. Bed Length: 12'

1 – Cincinnati 300H Press Brake. Capacity: 300 Ton. Bed length: 10'

2 – Hydraulic Arbor Presses. Capacity: 150 Ton.

1 – Rodger Hydraulic Straightening Press. Capacity: 150 Ton. Bed Length: 12'.

1 – Hydraulic Broaching Press. 49" Wide Capacity.

### **Welding Positioners**

9 – Various Sizes. Capacities: Ranging from 1,000 lbs. to 30,000 lbs.

### **Welding Machines**

~150 – Various Sizes. Ratings: Ranging from 200 Amp to 600 Amp.

### **Miscellaneous Machines**

- 2 – Hydrostatic Pressure Testers.
- 1 – Electro-Arc Metal Disintegrator.
- 1 – Cammann Metal Disintegrator.
- 1 – Formula 62 Stress Reliever.
- 2 – CM-1000 Shot Blast Machine. Diameter: 36" Height: 20"
- 1 – AME Plate Sanding Machine. Belt Width: 36". Height 5".

### **Vertical Milling Machines**

- 3 – Bridgeport Series 1 with Digital Readout.  
Travels: X – 30", Y – 12", Z – 16". Table: 9" x 42".

### **Radial Arm Drill Presses**

- 5 – Various Sizes. Arms: Ranging from 10" to 12". Columns: Ranging from 36" to 60".

### **Drill Presses**

- 5 – Various Sizes.

### **Grinders**

- 1 – Blanchard Model #18. Height Under Wheel: 14". Table: 36".
- 1 – Okamoto. 12" x 24" Hydraulic. Height Under Wheel: 13.7".
- 1 – Cincinnati Cylinder. Diameter: 12". Length: 48".
- 1 – Thompson. 24" x 48". Height Under Wheel: 22".
- 1 – Springfield Vertical Universal. Diameter: 26". Height Under Wheel: 20".

### **Saws**

- 8 – Various Sizes.

### **Burning Machines**

- 3 – Radiographic Automatic Burning Machines.