



Hutchinson Manufacturing, Inc. Equipment, Machinery, and Technology List - 2011

(Revised 1/28/2011)

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COMPUTER EQUIPMENT

CAD:

HP Workstations with varying CAD software as described below;

- (7) units with AutoCAD 2010
- (1) unit with AutoCAD 2004
- (7) units with Autodesk Inventor 2010
- (7) units with AutoDesk Vault file management software
- (2) units with SolidWorks 2010
- (1) unit with SolidWorks 2001 & AutoCAD 2007

CAM:

(2) HP Computers

- MasterCAM X3 machine programming software
- Optimization laser cutting programming software
- ProNest 2010 plasma & oxy cutting programming software

PRINTERS:

(13) HP Laserjet Printers of various sizes and capacities

SERVERS:

(1) HP Proliant DL380 G5 (5)-300GB drives

- UMWARE

(1) HP Proliant DL380 G5 (4)-300GB drives

- MS Exchange

(1) HP Proliant ML350 G5 (3)-72GB drives

- MS Dynamics NAV v5.0 ERP System

(1) HP StorageWorks 1/8 Autoloader Tape Back-Up

(1) Firebox Edge Firewall

(1) APC 2200 SmartUPS Back-Up Power Supply

(42) HP Desktop Computers

(8) HP Notebook Computers

QUALITY ASSURANCE INSPECTION EQUIPMENT

(1) FaroArm Fusion Series accurate to $\pm .104$ mm with spherical working volumes of 12'.

(1) Minitab Software – Capability Study & Histograms

(1) FaroArm Titanium Series accurate to $\pm .074$ mm with spherical working volume of 10'

(1) 10' Platinum Arm with $\pm .043$ mm single point

LASER CUTTING EQUIPMENT

- (1) 2000 Tanaka LMXIII, 4000 watt sheet & plate cutting system
Cutting Area: 120" x 480"
Nitrogen capability for stainless & aluminum
Material thickness capabilities:

	<u>Oxygen Cut</u>	<u>Nitrogen Cut</u>
Carbon Steel	7/8"	N/A
Stainless	1/2"	1/2"
Aluminum	N/A	3/8"

- (1) 1994 Tanaka LMXII, 2500 watt sheet & plate cutting system
Cutting Area: 96" x 360"
Material thickness capabilities:

	<u>Oxygen Cut</u>
Carbon Steel	1/2"
Stainless	3/8"
Aluminum	N/A

- (1) 1994 Trumpf Laser, 1500 watt sheet & plate cutting system
Cutting Area: 60" x 120"
Material thickness capabilities:

	<u>Oxygen Cut</u>	<u>Nitrogen Cut</u>
Carbon Steel	1/2"	N/A
Stainless	8GA	8GA
Aluminum	N/A	8GA

FLAME/THERMAL CUTTING

- (1) 2009 Retro Systems Mega Hornet 3000 sheet & plate cutting system
400a Hypertherm Hi-Definition Plasma w/True-Hole Technology
CNC Oxygen Cutting System up to 12" thick
Cut Area: 120" x 480" downdraft table
Nitrogen capable plasma cutting for stainless and aluminum
Plasma material thickness capabilities:

	<u>Oxygen Cut</u>	<u>Nitrogen Cut</u>
Carbon Steel	2½"	N/A
Stainless	2"	2"
Aluminum	N/A	2"

HORIZONTAL MACHINING CENTERS

- (1) 1981 2K WOTAN CNC Horizontal Mill
1997 Retrofit w/Fanuc CNC Control
x= 233" y= 76" z= 31" w= 20"
One (1) 5th Axis 360° Index Rotary Tables
8' x 20' Floor Plate

- (1) 1968 Giddings & Lewis Horizontal Mill Machine Center
1996 Retrofit w/GE Fanuc CNC Control
x= 179" y= 90" z= 36"
6' x 21' Floor Plate

- (1) 2005 Daewoo ACE 100 Horizontal Machining Center
Equipped with Fanuc CNC Control
2 – 50" square automated pallets
Full 4th Axis capability
X=71.5" y=49.5" z=49.5"

VERTICAL MACHINING CENTERS

- (1) 1987 MAZAK CNC SV-25E Vertical Machining Center with #50 Taper
Equipped with Mazatrol M-2 CNC Control with PCS touch screen and 80-position tool holder
x= 102" y= 32" z= 29.5"
Table Surface 32" x 168"

- (1) 1996 Haas CNC VF-6 Vertical Machining Center
Equipped with Haas CNC Control
x= 64" y= 32" z= 30"
Table Surface 28" x 64"

- (1) 1997 Haas CNC VF-2 Vertical Machining Center
Equipped with Haas CNC Control
x= 30" y= 16" z= 16"
Table Surface 21" x 46"

- (1) 1982 Cincinnati 1250 VMC with Direct Numeric Control to CAD/CAM
X= 50" y= 26" z= 15"
Table Surface 50" x 26"

- (1) 2005 Haas CNC VF3 Milling Machine
x= 40" y= 20" z= 25"
4th Axis 12" Diameter 3" through hole
Table Surface 18" x 40"

- (1) 2005 Haas CNC VF3-YT Milling Machine
x= 40" y= 26" z= 25"
Thru-spindle coolant
Table Surface 24" x 54"

VERTICAL MACHINING CENTERS (continued)

- (1) 2004 Haas CNC VF7 VMC
x= 84" y= 32" z= 30"
4th Axis
Table Surface 28" x 84"

- (1) 2006 Vision Bridge Mill
x= 121.5" y= 62.5" z= 31"
4th Axis Rotary Chuck
Table Surface 54½" x 125½"

- (1) 2006 Sharp Manual Mill
x= 42" y= 16" (Quill Travel) z= 6" Knee Travel= 12"

TURNING CENTERS

- (1) 2005 Haas SL30 CNC Lathe with Haas CNC control
17" max cutting diameter
32" max part length
3" spindle bore
10" chuck
12 position turret

- (1) 1990 Daewoo Puma 10S Lathe with Fanuc OT control
15" max cutting diameter
30" max part length
2.5" spindle bore
10" chuck
12 position turret

DRILL PRESSES

- (1) 5' Arm and 12" Column, Ikeda Radial, #5 Moris Taper. D2
- (1) Allen 2 Spindle 1" Capacity Floor Stands; D3, D4
- (1) 1/2" Capacity Floor Stands
- (1) Wilton/Powermatic spindle gang drill
- (1) Sharp SG614 Surface Grinder 6" x 14" x 12"
- (1) Wissota 8" Pedestal Grinder
- (1) Darex Drill Sharpener

SAWS

- (1) Hem Saw V125HA-1; 18" x 18" Capacity with Automatic Feeder
- (1) Grob 18 Vert. Band Saw 55
- (1) FMB "Major" 60° cut capability
- (1) Hem Saw H110A; 16" X 16" Capacity with Automatic Feeder
- (1) DoAll C-260NC; 12" X 12" Capacity with Automatic Feeder
- (1) Makita Chop Saw
- (1) Peppless Vertical Band Saw

PRESS BRAKES & ROLLERS

- (1) 350 Ton x 16' Cincinnati w/Dual Axis CNC Control, 1992
- (1) 220 Ton x 14' Amada w/8 Axis CNC Control, 2001
- (1) 100 Ton x 10' Accupress w/Dual Axis CNC Control, 1989
- (1) 80 Ton x 8' Amada w/8 Axis CNC Control, 1999
- (1) Montgomery Initial Pinch Roll 6' x 14-18 Ga.

PUNCH PRESSES

- (1) 50 Ton x 50" Throat #653 Whitney

WELDING EQUIPMENT

Miller:

- (14) CP300
- (1) DeltaWeld 302 single feeder
- (2) DeltaWeld 300 dual feeders
- (1) Bobcat 225G
- (3) CP302
- (2) Invision 456P with 60M feeders
- (1) Invision 456P with dual feeders
- (1) Invision 456P with 60M boom feeders
- (2) SyncroWave 250
- (2) CP300 with boom feeders
- (7) Axxess 450
- (2) DeltaWeld 302 with dual feeders
- (1) MillerMatic 130 XP

Lincoln:

- (1) CV655
- (3) CV400
- (1) PowerWave 455
- (1) PowerWave 455 STT

Hobart:

- (1) 300 amp DC stick welder

WELDING EQUIPMENT (continued)

Thermal Arc:

- (1) 400 GMS with CobraMatic feeder

Four Corp:

- (1) Seam welder with 9' bed

HBS Welder:

- (2) Arc 650-2 stud welders

Ultra Arc:

- (1) WA1800 stud welder

PLASMA CUTTERS

- (1) PakMaster 50
- (1) PakMaster 100XL
- (1) CutMaster 100
- (1) CutMaster 151
- (1) CutMaster 152

POSITIONING EQUIPMENT

- (1) Set Vanguard 20,000Kg Turning Rollers
- (1) Set Webb Powered Turning Rolls - 10,000# Capacity
- (2) Sets Pandjiris Powered Turning Rolls - 4,000# Capacity
- (1) C.F. Welding Positioner - 2,500# Capacity
- (1) Aronson Welding Positioner - 1,500# Capacity
- (1) Welding Positioner - 2,000# Capacity
- (1) Roundo - 17,600# Capacity
- (1) Aronson - 2,000# Capacity
- (1) C. F. - 2,500# Capacity
- (1) Pandjiris - 3,000# Capacity
- (1) Pandjiris - 1,200# Capacity
- (1) Ransom - 20,000# Capacity
- (2) MBC Fixture Rack - 200# Capacity
- (1) Set Webb Powered Turning Rollers - 10,000# Capacity
- (2) Set Pandjiris Powered Turning Rollers - 4,000# Capacity
- (2) Teledyne Readco 4,000# Capacity

LIFTING EQUIPMENT

- (4) P & H Sigma 16' Hook height - 5,000# Capacity each - Bridge
- (25) ½-ton Jib Crane Beams
- (14) 1-ton Jib Crane Beams
- (1) MN Crane Corp. 12' Hook height - 10,000# Capacity - Bridge
- (1) Demag 12' Hook height - 6,000# Capacity - Bridge

LIFTING EQUIPMENT (continued)

- (1) Load Lifter 12' Reach - 6,000# Capacity - Bridge
- (2) Anver 20' Reach - 8,000# Capacity – Vacuum Lift
- (2) Kone Crane Bridges; 5 ton each
- (1) Kone Crane Bridge 10 ton
- (2) UESCO Ind. 10 ton Bridges

OVERHEAD LIFTING

- (1) P & H 4,000# Capacity Hoist with 12' Lift Servicing 40' X 60' Area
- (1) Shaw Box 5 ton crane
- (1) Shaw Box 3 ton crane
- (1) Kone Crane 10 ton
- (4) Kone Crane 2.5 ton
- (4) P&H Sigma 5 ton cranes
- (1) Yale 5 ton crane

MANLIFTS

- (1) Skyjack 2 person Manlift up to 800 lbs; 23' maximum working height
- (1) Manklift 2 person Manlift up to 1,000 lbs; 28' maximum working height
- (1) Upright 2 person Manlift up to 750 lbs; 25' maximum working height

GRINDING & SANDING EQUIPMENT

- (2) Baldor sanders, 8" & 10"
- (2) Horizontal belt sanders; 2½ x 48" belts
- (6) Dyna Files
- (10) 7" Grinders
- (64) 4½" Grinders
- (38) ¼" Straight die grinders
- (1) Milwaukee 6" straight grinder - electric
- (1) Dynabrade 5" straight grinder - air
- (4) 1/2" Electric drills
- (5) 3/8" Electric drills
- (1) 19.2 Volt cordless drill
- (1) 14.4 Volt cordless drill
- (2) Milwaukee mag. base drills
- (1) Hougén mag. base drill
- (1) Bosch Tap guns

AIR COMPRESSORS

- (1) Gardner Denver VST 180A 300hp Compressor, 2006
- (1) Gardner Denver 250 hp Compressor, 2001
- (1) Pneumatech 1000 cfm dryer, 1998
- (1) Ingersol Rand 750 cfm dryer, 1991

FORKLIFTS & HANDLING EQUIPMENT

- (1) Komatsu 45 – 10,000#, Indoor/Outdoor
- (1) Linde Electric 4,000# Indoor
- (1) Bobcat 863 Skid Loader
- (1) Case 621B Wheel Loader
- (1) Komatsu FG25ST-16 5,000# Indoor
- (1) Komatsu 18,000# Indoor/Outdoor
- (1) Clark P360 36,000# Indoor/Outdoor
- (1) Clark Electric Lift, Indoor
- (1) Schaeff Electric 3,000# Indoor
- (1) Komatsu 5,000# Indoor/Outdoor
- (1) Chevrolet ¾-ton truck, DOT Approved

TRAILERS

- (1) 2004 Transcraft 48' X 102" Delivery Trailer
- (1) 1997 Lufkin 48' X 102" Delivery Trailer
- (1) 2007 PJ Gooseneck Trailer

GRITBLAST FACILITIES

- Room 1: Hoffman Grit Blast w/Recovery, 15'11" Wide x 18' Tall x 60' Long, 1991
- Room 2: Clemco Grit Blast w/Recovery, 12' Wide x 12' Tall x 30' Long

PAINTING FACILITIES

- Booth 1: 15'4" Wide x 17'2" Tall x 60' Long, 1991
- Booth 2: 12' Wide x 12' Tall x 20' Long, 1997
- (1) 1.0 Million BTU Drying Oven, Infra-red, 12' Wide x 12' High x 20' Long, 1997

BUILDINGS

Fabrication & Machining Bay:

60' x 210'

Hoists: (2) 3-Ton & (1) 5-Ton, 12' Hook Height

Welding Bay A:

60' x 240'

Hoists: (1) 10-Ton, (4) 2 ½-Ton, (2) 5-Ton, (1) 10-Ton, 16' Hook Height

Welding Bay B:

72' x 192'

Hoists: (4) 2 ½-Ton, 14 ½' Hook Height

Blast/Paint/Assembly Area A:

70' x 240'

Hoists: (4) 5-Ton, 21' Hook Height

Blast/Paint Area B:

25' x 200'

Hoists: (2) 1-Ton, 14' Hook Height

Saw Building:

40' x 70'

Hoists: (1) ½-Ton, 11' Hook Height

Material Storage:

(4) 40' x 80' Metal Pole Sheds

Securely enclosed w/concrete floors

TOTAL SQUARE FOOTAGE

100,000 Square Feet

EMPLOYMENT

100 Employees

LAND

10 Acres

TRANSPORTATION

Trucking & Air