

MODERN TOOL, INC. 2010 – Facilities Equipment List

Perforations

- 1 - 6000 Watt Laser Bystronic Dual Pallet, 60 x 120
- 2 - 6000 Watt Laser Mitsubishi NX 2D w/towers
- 1 - 1500 Watt Laser/Turret Combo Strippit 1250S
- 1 - Strippit VT 30 1525 Turret Press
- 1 - Strippit 1000MXP30 Turret
- 1 - Strippit FC1000SXP Turret
- 1 - Strippit FC1250SXP Turret
- 1 - Strippit Super 750SG Turret
- 1 - Strippit Super 30/30 w/ Duplicator
- 1 - Loshborough/Jordan 40 ton Notching Press
- 3 - DiAcro 5-ton O.B.I. Presses

Forming

- 1 - 200 Ton Baykal 5 Axis CNC Press Brake 10'
- 1 - 350 Ton Cincinnati AutoForm Press Brake 12'
- 1 - 135 Ton Cincinnati FormMaster Press Brake 12'
- 1 - 160 Ton Pacific 10' Press Brake
- 2 - 150 ton Chicago 10' Press Brake
- 1 - 135 ton Niagra 12' Press Brake
- 1 - 30 ton Niagara 6' Press Brake
- 1 - 60 Ton Cincinnati CB II 4' Press Brake
- 2 - 230 Ton Cincinnati AutoForm 10' Press Brake
- 1 - 60 Ton Chicago 4' Press Brake
- 2 - 14 Ton DiAcro 4' Press Brakes
- 1 - 150 Ton Niagra 8' Press Brake
- 1 - 150 Ton Cincinnati 10' Hurco Back Gage

Receiving / Shearing

- 1 - LVD MVS-TS 50/10' 12mm Plate Shear
- 5 - Three Ton Capacity Monorail System 5,000 lb. cap.
- 1 - Cincinnati Shear 10' x 1/4"
- 1 - Wysong 10' x 10 gage
- 1 - Niagara 8' x 10 gage
- 1 - Amada HDA-250 N/C Cutoff Saw
- 1 - Eisele VMS 2-PV Miter Cut Saw
- 1 - Thermal Dynamics Plasma Cutter 1/4" Capacity
- 1 - Dynapack 110 Plasma Cutter 3/16" Capacity

Welding

- 4 - ABB Robotic Pulse Welders
- 2 - Robotic Miller Axxess Auto 450 Accu-Pulse - Adaptive Pulse multi MIG Process Platform - Digitally Controlled and Software Driven
- 2 - Robotic Miller Deltaweld 451 Computer Controlled Multi-station MIG welders
- 10 - Miller Axxess 300 Accu-Pulse - Adaptive Pulse multi MIG Process Platform - Digital / Software Driven
- 5 - Miller Axxess 450 Accu-Pulse - Adaptive Pulse multi MIG Process Platform - Digital / Software Driven

Welding cont

- 3 - Miller Syncrowave 350 Amp TIG Welders with Pulsar
- 2 - Miller 200 Amp TIG Welders
- 1 - Miller Tec Torch TIG Spot Gun
- 6 - RSW Spotwelders 15 KVA - 100 KVA
- 1 - Spotco Spotwelder 170 KVA

Punch Press

- 1 - 400 ton Bliss 32x84 bed w/ Feeder & Straightener
- 1 - 160 ton Aida 32x24 bed C Frame
- 5 - 150 ton Clearing OBI presses - 40x 50 beds
- 1 - 300 ton Williams & White 36x42 bed Press
- 1 - 250 ton Niagara 30x48 bed Press
- 2 - 150 ton Bliss 36x60 bed Press
- 1 - 135 ton Minster 48x60 bed Press
- 1 - 110 Ton Niagara OBI 27x42 bed press
- 1 - 110 Ton Niagara OBI 26x42 bed press
- 1 - 106 ton Minster 36x40 bed Press
- 1 - 85 ton Havir 22x36 bed Press
- 1 - 75 ton Bliss 24 x 36 bed Press
- 1 - 60 ton Bliss 18x30 bed Press
- 2 - 56 ton Minster 21x32 bed Press
- 1 - 45 ton Niagara 21x32 bed Press
- 1 - 40 ton Minster 18x28 bed Press
- 1 - 35 ton Niagara 15x24 bed Press
- 1 - 32 ton Niagara 15x24 bed Press
- 1 - 15 ton Niagara 11x16 bed Press
- 9 - Stock Feeders 3" - 18" Wide
- 5 - Stock Straightener 3" - 18" Wide
- 4 - Coil Cradles 36-40" diameter, 400 - 2,500 lb.

Deburring / Grinding

- 1 - Timesavers 3100 Series Thru-Feed Wet Sander Sander 37"
- 1 - Automatic Conveyorized Drier - Degreaser
- 2 - Roto-Vib 8 & 12 cu ft Capacity
- 4 - Barrel Tumbler Dryers
- 1 - Mattison 6" x 300" Straightliner
- 1 - Carborundum 6"x274" Straightliner
- 6 - Belt Sanders 1" x 42"
- 2 - Belt Sanders 1" x 30"
- 1 - Olympic 4" Square D Belt Sander
- 1 - Falls Edge Cutting Deburr

Assembly

- 1 - Haeger 6 ton Automated Press with FEO Feeder
- 1 - Pem Serter 6 ton Auto Press with Syntron Feeder
- 2 - Denison 2 ton Hydro Presses
- 2 - Denison 4 ton Hydro Presses
- 1 - Chicago Automatic Riveting Machine 1-4" diameter
- 1 - Erico Jones Stud Gun
- Misc. Air and Hand Hardware Installation Tools

Coatings Facility

- 2 - Fremont Phosphatizing Systems
- 2 - Fremont Phos-Mate Parts Washer
- 2 - Nordson Versa-Coat Batch Powder Booths with reclamation capability
- 1 - Devilish Paint Booth
- 3 - Hot Air Ovens 8' x 8' x 10'
- 4 - Nordson Versa-Spray System guns with control unit
- 1 - LS-15D Still with Cooler for Solvent disposal
- Misc. Pressure Cup Guns and Pressure Pots.

Machine Shop

- 3 - Proconier Tapping Heads 1/4" cap.
- 1 - Proconier Lead Screw Tapping Attachment
- 1 - Proconier Multi-Head Tapping Attachment (up to 13 holes within 4.5" x 10" Pattern)
- 1 - Bridgeport Mill
- 1 - Tree Mill
- 1 - Clausing Drill Press 1/2" capacity
- 1 - PW800 Stud welder
- 2 - Arbor Presses
- 1 - Denison Rod Cutting Multipress
- 2 - Denison Multipresses for Plate Fixture Hardware Installation
- 2 - Multi-Head Drill Presses (5 & 6 Chuck) 1/2" Capacity

Tool Room

- 1 - Kent Precision Surface Grinder
- 2 - Sharp Vertical End Mills -16 x 30
- 2 - Die Tables 24" x 36"
- 1 - Die Table with Lift 24" x 32"
- 1 - Turntable 15"
- 1 - Marvel Cutoff Saw 16" capacity
- 1 - Wells Metal Band Saw 12" capacity
- 2 - Grod Band Saws 18" Throat
- 1 - Shaper 24"
- 2 - Pedestal Grinders 8" & 6"
- 1 - Small Pedestal Grinder 6"
- 1 - Black & Decker Body Grinder
- 1 - Large Surface Grinder 14x36
- 1 - DoAll Surface Grinder 10x24
- 1 - Small Surface Grinder 6x18
- 1 - Fosdick Tapper 24x24 Table
- 2 - LeBlond Lathes 15" x 36" bed
- 6 - Bridgeport Mills
- 1 - Large Radial Drill Press
- 1 - Small Radial Drill Press 18" x 32"

Quality Assurance

- 1 - Master Set Gage Blocks
- 2 - Shop Grade Sets

- 8 - Surface Plates from 18x18 to 42x97
- 2 - Coordinate Measurement Machines
24" x 18" x 18" & 30" x 20" x 8"
- 1 - Optical Comparator 5" capability
- 4 - Height Gages 12"
- 2 - Height Risers 10"
- 1 - Microscope 30X
- Various height gages, sine blocks, parallels, squares, calipers, micrometers, scales, thread & pin gages.

Facility

Facility Expansion of 1996 adding approximately 83,000 sq. ft. to existing manufacturing floor space has been fully occupied including an integrated cell for manufacturing with C/N/C Lasers and Turret Presses, Forming and Welding Capabilities. Total shop floor area is 193,000 square feet.

Computerization

Computerization upgrade to Dell Pentium II Zeon Dual Processor based NetServer. Individual workstations run Windows XP Pro.

Vantage 6.1 by DCD Corp. integrated manufacturing package for shop floor control, including MRP, real-time update of information from shop floor, dynamic scheduling – Bar Coded Job Process, A/P, A/R, cost estimating, purchasing, data collection, etc.

Major upgrades were performed from the first quarter of 2005 through the present time to bring existing computer workstations on line in the Network and processing at comparable speeds. Currently there are between 30 and 35 users on the central system, with additions being planned for in 2005 and beyond. The facility has been wireless & wired for processing from the front offices through to the shipping department, with shop-floor terminals for data collection.

EDI is run from a dedicated system, with back-up capabilities on several of the systems in-house, supported by Sterling Commerce, ST4, EDI-PC, and other software programs. Individuals in management, sales, purchasing and production scheduling are Internet connected for e-mail, etc.

LabelRight Ver. 2.91T Thermal Bar Code Package provides bar coding for any customer requirements (to the AIAG standard).

ISO – 9001:2000 Registered – TS16949 2009 year end

Paperless Transaction System

Transfer of Pro-E, IGES or DXF files

*6 seats of ProE Wildfire

*Procomm Plus V2.0 or ZCom V2.2

Analyze Pro-E, IGES or DXF files

*Pro-E Wildfire or Merry Mechanization SMP-81

Design Review Phase

* View Models and discuss

* Modify drawing using ProE software & forward new file via mail or modem

Quotation Phase

* Build 3D drawing

* Quote using Vantage by DCD

* Mail, Datafax or e-mail quotation

Production Phase

* Build 3D drawing (ProE file or SMP-81)

* Generate flat drawing (ProE or SMP-81)

* CNC Program

* Fabricate