

# Holland Manufacturing, Inc.

6851 - 51st Street Kenosha, WI 53144

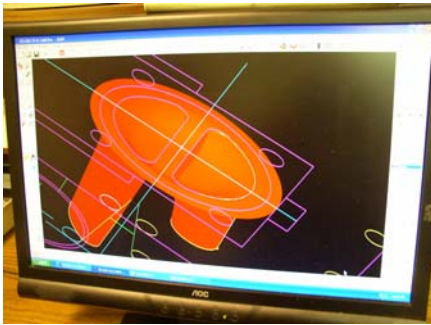
## Machinery List As Of June 2012

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### CNC & RELATED EQUIPMENT

#### Programming Aids

- 2) Seats Mastercam X5 w/ 3D Surface
- 5) Seats EZ-CAM V19 - Milling, Turning
- 1) Seat Solidworks 2013 3D Design
- 2) Seats BobCAD-CAM V25
- 10) Seats VersaCAD 2008 2D Design
- 1) Seats TurboCAD Professional Version 19



#### Equipment - CNC Vertical mills

- 1) Bridgeport Interact 520 machining center  
table size = 34" X 14.9"  
max. load = 1000 lbs.  
travel: X = 20", Y = 15.7" Z = 17.7"  
tool carousel: 20 tools at max. dia. of 3.0"  
Spindle RPM = 6000, H.P. = 10
- 1) Bridgeport Interact 720 machining center  
table size = 46" X 20", max. load = 925 lbs.  
travel: X = 30", Y = 16.1", Z = 17.7"  
tool carousel: 20 tools at max. dia. of 3.0"  
4th axis: 1 minute step, 8" indexer  
Spindle RPM = 6000, H.P. = 10

- 1) Bridgeport VMC760/20 machining center  
table size = 39" X 19", max load = 1323 lbs.  
travel: X = 30", Y = 20", Z = 19"  
tool carousel: 20 tools at max. dia. of 3.0"  
Spindle RPM = 4000, H.P. = 15
- 1) Bridgeport VMC1020/22 machining center  
table size = 45" X 19", max load = 1650 lbs.  
travel: X=40", Y= 20", Z = 19"  
tool carousel: 20 tools at max. dia. of 3.0"  
spindle RPM = 4000, H.P. = 15
- 1) Bridgeport VMC760/22 machining center  
table size = 39" X 19", max load = 1650 lbs.  
travel: X = 30", Y = 20", Z = 19"  
tool carousel: 22 tools at max. dia. of 3.0"  
Spindle RPM = 4000, H.P. = 15
- 1) Bridgeport VMC760/22 machining center  
table size = 39" X 19", max load = 1650 lbs.  
travel: X = 30", Y = 20", Z = 19"  
tool carousel: 22 tools at max. dia. of 3.0"  
Spindle RPM = 6000, H.P. = 15



- 1) Bridgeport VMC1000/22 machining center  
table size = 45" X 19", max load = 1650 lbs.  
travel: X=40", Y= 20", Z = 19"  
tool carousel: 22 tools at max. dia. of 3.0"  
spindle RPM = 4000, H.P. = 15

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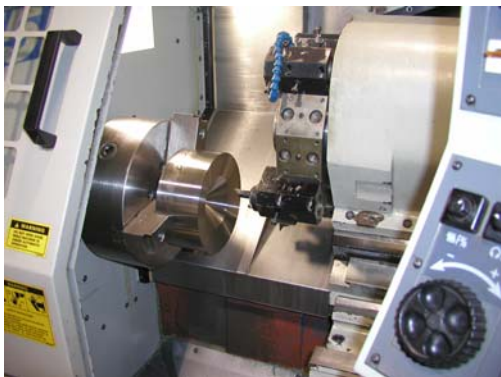
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- 1) Bridgeport VMC1000XP/30 mach. center  
table size = 45" x 19", max load = 1980 lbs.  
travel: X=40", Y=24", Z=24"  
tool carousel: 30 tools at max. dia. of 2.95"  
spindle RPM = 6000, H.P. = 18  
Positioning accuracy (X,Y, & Z) +-0.00020"  
Repeatability (X,Y, & Z) +-0.00008"

### Equipment - CNC Lathes

- 2) Romi Centur 35E by Bridgeport Machine  
10 HP - 3,500 RPM  
20.25" swing, 40" between centers.  
GE Fanuc 0-TC CNC control with options  
3J collets (1.75 dia. stock)  
8" hydraulic 3 jaw chuck  
10" hydraulic 2 jaw chuck  
12" manual 3 jaw chuck
- 1) Romi PowerPath 15 by Bridgeport Machine  
15 HP - 4,500 RPM  
17.32" swing, 21.26" between centers.  
Bridgeport DX-32 CNC control with options  
3J collets (1.75 dia. stock)  
8" hydraulic 3 jaw chuck  
10" hydraulic 2 jaw chuck  
12" manual 3 jaw chuck



- 1) Romi G260 Turning Center  
15 HP – 4500 RPM  
14" swing, 21" between centers.  
GE Fanuc 0i Mate-TB control with options  
8" hydraulic 3 jaw chuck
- 1) Romi G30 Turning Center  
25 HP – 2500 RPM  
20" swing, 40" between centers.  
GE Fanuc 21i-T control with options  
12" hydraulic 3 jaw chuck  
1" – 3" collets



### Conventional Equipment

#### Engine Lathes

- 1) Colchester, 15" swing X 40" between centers  
Tooling: Aloris quick change tool holders,  
3 & 4 jaw chucks, collets to 2" dia.

#### Vertical milling machines

- 3) Bridgeport 'V'ram turret mills.  
Table to 9" x 48"  
Tooling: Power table feeds, boring heads,  
rotary table, dividing heads, digital displays.



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### Saws

- 1) FW Wells CNC production cutoff saw with bar feed, capacity 9" round or 9" X 14" flat.
- 1) FW Wells manual cutoff saw  
Capacity 9" round or 9" X 14" flat
- 1) Kalamazoo manual cutoff saw, capacity 9" round or 9" 16" flat.
- 1) Kalamazoo abrasive cutoff saw, 8" blade, 2.5" diameter capacity.
- 1) Grizzly cold saw, 10" blade, 3" dia.
- 1) Grob vertical band saw, cap. 18" radius

### Drill Presses

- 1) Clausing single spindle 20"
- 1) Clausing single spindle 15"
- 3) Wilton single spindle 14"



### Welding

- 1) Miller 300 amp. AC-DC gas tungsten-arc.
- 1) Lincoln DC 250 M.I.G, T.I.G, & Arc
- 1) Plasma arc, capacity = 3/8" stainless steel
- 1) Welding lathe for gas backed welding of tube to fittings and turning of parts.



### Finishing equipment

- 1) Hammond model 7VRO 7.5 H.P. polishing lathe  
cap. 4" wide X 168" lg. belt & 15" dia. Buff wheel
  - 1) Dumore I.D. polisher - 5 H.P.
  - 1) Baldor Buffer 2 - 12" dia. X 3" wide wheels
  - 2) Burr King belt sander, 2" x 48"
  - 1) Rockwell belt sander, 6" x 48"
- Misc. hand polishing equipment

### Grinders

- 1) Clausing surface grinder 6" X 18" with radius dresser
- 1) Cincinnati #2 cutter grinder
- 1) K.O. Lee universal cutter grinder
- 1) Oliver drill sharpener 1/8" to 5/8" cap.
- 1) Sellers drill sharpener 1/2" to 3" capacity

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### Presses

- 1) Savage, 50 ton X 24" stroke Hydraulic
- 1) 5 ton hydraulic
- 1) 3 ton arbor, ½ ton arbor



### Inspection Equipment

- \* Mitutoyo 14" X 10 or 20 power profile projector with Geo-Chek Digital readout
- \* Mitutoyo model 211 surface roughness tester
- \* Micrometers and verniers to 48"
- \* 24" Mitutoyo Digital Height gauge
- \* Dial bore gauges to 6"
- \* Gauge pins, gauge blocks
- \* Granite inspection plate 36" x 48"
- \* Steel layout table 60" x 96"

### Miscellaneous

- \* Pickup truck – F150
- \* 6000 lb. lift truck
- \* 1.5 H.P. magnetic base drill press
- \* Pipe threaders to 2" NPT
- \* Torches
- \* 5" portable bandsaw
- \* Air and electric grinders
- \* Bead blasting
- \* Wide variety of hand tools
- \* High speed milling head
- \* Electroetch marking

