



REYNOLDS
MANUFACTURING
COMPANY
MASTER MACHINE LIST

TOOL DESIGN DEPARTMENT

(9) CAD WORK STATIONS COMPLETELY NETWORKED

AUTO-CAD 2004

MECHINCAL DESK TOP 3D VER. 6

ANVIL

SMART CAM

IGS AND DXF TRANSLATORS

(1) GIBBS CAM *

(1) HEWLETT PACKARD 650C INKJET, ROLL SIZE 36"

(1) HEWLETT PACKARD DESIGN JET 750C PLUS, ROLL SIZE 36'

E-MAIL TO: design@reynoldsmfg.com

sales@reynoldsmfg.com

* INDICATES MACINES AT THE MILAN PLANT

INSPECTION EQUIPMENT

- (1) BROWN & SHARPE VALIDATOR COORDINAT MEASURING SYSTEM *
Model #7101-3624 Serial #580-701-1211
Complete with Hewlett Packard Computer Systems/Micro Major 3
Measuring Range: X = 26.5" Y = 36" Z = 23"
Work Capacity: X = 34.5" Y = 51" Z = 24.5"

- (1) BENDIX PORTAGE MACHINE
4ft x 8ft table 5ft vertical

- (1) CINCINNATI DIGITAL TOOL LENGTH PRESETTER *

- (2) OPTICAL COMPRARATORS COVEL *
14" screen x 7" swing 10x magnification

- (1) SUNSTRAND BENCH CENTER *
40"B/C X 7" swing between centers

- (1) 14" KODAK COMPARATOR MODEL #24

- (1) HARDNESS TESTER
Rockwell Wilson Mavelin Co.

- (1) HARDNESS TESTER *
Wilson-Brinell
10" x 18" high capacity

EQUIPMENT LIST

CNC MACHINING CENTERS-HORIZONTAL

(1) MAZAK H-15 *

- Twin Pallets 19.7" x 19.7"
- 360 deg. X 1 deg. Increments
- Travel
 - X= 28"
 - Y= 24"
 - Z= 33"
- 15 HP D.C. Drive
- 40-tool changer
- Fanuc Controls

(1) MAZAK H-500

- Twin Pallets 19.7"x 19.7"
- 360 deg. X 1 deg. Increments
- Travel
 - X= 28"
 - Y= 25"
 - Z= 25"
- 30 HP D.C. Drive
- 48-tool changer
- Mazotrol M-32

CNC MACHINING CENTERS – VERTICAL

(1) Hass VF3 (new 2004)

- Travel
 - X = 40"
 - Y = 20"
 - Z = 25"
- Table size = 18" X 48"
- 20 HP
- 7500 Max RPM
- 24 tool changer with Cat 40 taper spindle
- 1000 IPM Rapid
- Feed rate from 0 to 100 IPM
- Thru Spindle Coolant

(1) ENSHU VMC 40

Travel

X = 22"

Y = 15.6"

Z = 18.1"

35.4" x 15.7" table

6000 RPM

20 tool changer with BT 40 taper spindle

(1) ENSHU VMC 400 *

Travel

X = 25.5"

Y = 15.7"

Z = 20"

40" x 15.7" table

25-tool changer

(1) Cincinnati Sobre 750 *

Travel

X=30"

Y=15"

Z=20"

34" X 17.2" Table

60-8000 RPM

12 HP

21-Tool Changer

(1) Galaxy TMV 760 A *

Travel

X=29.9"

Y=17.7"

Z=20.8"

33.4" X 18.5" Table

50-8000 RPM

24-Tool Changer

4th Axis Index Only

(2) BRIDGEPORT INTERACT 4

Travel

X = 29.9"

Y = 14.5"
Z = 6"
37" x 16 5/8" table
25-tool changer

- (1) MONAERCH VMC 75 *
20" X 40" Travel
15 HP
GE 1050 Controls

NC MACHINING CENTERS – HORIZONTAL

- (1) SUNSTRAND OM -2 SERIES 20 "OMNI-MILL"
Microswing control
60" x 24" X 84"
15 HP
28-tool changer

- (1) Pratt & Whitney "Viking"
48" X 20" X 96"
20 HP
Rotary Table

CNC WIRE MACHINE

- (1) FANUC ALPHA 1C EDM
Fanuc series 16-W control
14.6" x 20.5" travel x 10" thick material

- (1) JAPAX CNC WIRE CUT EDM
Model LUX-35
Japax JAPT 3F control
8" x 14" travel
6" cut capacity

CNC LATHES

- (2) HITACHI "SEIKI" HITEC TURN 40G *
15" chuck
4 3/4" through hole
30 HP
24 Max Cut Diameter

43" B/C

(1) MONARCH TC-2 Chucker

15" chuck
4 ½ " Through Hole
50 HP
24" Swing over ways
21.5" Swing over cross slide

(1) MAZAK QTN CNC TURNING CENTER MODEL 18N *

10" chuck
3" through hole
2000 RPM

(1) VARIANT CNC TURNING CENTER *

10" chuck
30.3" through hole
18.5KW, HP @ 30 minutes
30 RPM
24.4" Swing over bed
10" diameter X 31.9" between centers
12 Tool changer

(1) KITAKO'S VARIANG *

8" chuck
30 RPM
5" UNIV 25 HP
24.4" swing over ways
12 tool changer
10" diameter x 31.9" between centers

(1) TREE, ULTRA PRECISION CHUCKER COLLET TYPE, MODEL 1000

1" through hole

NC LATHES

(1) MAZAK MODEL M3 *
12" chuck
57" B/C
Twin turrets
Fanuc 20 control

(1) MAZAK MODEL M2 *
12" chuck
36" B/C
22" swing over ways

ENGINE LATHES

(1) 22" X 54" CINCINNATI-22 HYDRASHIFT
12" chuck
2 3/8" hole
22 swing over ways
640 RPM
With taper attachment

(1) 16" x 78" LEBLOND HEAVY DUTY
12" chuck
1 3/4" through hole
29" swing over ways
2000 RPM
With taper attachment

(1) 10" x 40" LEBLOND REGAL
8" chuck (10" available)
1 1/2 " through hole
15" swing over ways
1800 RPM
With taper attachment

(1) 18" X 54" CINCINNATI-18" HYDRASHIFT *
12" chuck
1 3/4 through hole

(1) 19"X54" CINCINNATI-19" HYDRASHIFT *

(1) WARNER SWASEY #3 CHUCKER *

JIG BORES

(1) SIP 3K WITH ROTARY TABLE
Table 15"X20.5" with extension
Travel front to back = 18"
Travel left to right = 14"
Spindle = 14"

(1) PRATT & WHITNEY 3B WITH ROTARY TABLE
Table 24"X56"
Travel front to back = 26.5"
Travel left to right = 48"
Spindle = 14.5"

AUTOMATIC LATHES & CHUCKERS

(2) WARNER & SWASEY OAC CHUCKER *
6" chuck

(5) WARNER & SWASEY #1 AB BAR MACHINE *
2" diameter single spindle bar automatic machine

(5) WARNER & SWASEY #1 AB BAR MACHINE *
8.5" swing
All collet chucks

(2) WARNER & SWASEY #2 AC CHUCKER
3" diameter single bar automatic with standard collet chuck

(1) WARNER & SWASEY #2 AC CHUCKER *
10" chuck
2" through hole

(11) WARNER & SWASEY #1AC CHUCKER *
10" chuck

(2) MAZAK #5 SINGLE SPINDLE AUTOMATIC *
12" chuck
12" swing

AUTOMATIC BAR & CUTOFF MACHINES

(1) MODERN CUTOFF MACHINE #3 ELH *
Machining capacity 5" length by diameter

(1) WICKMAN SINGLE SPINDLE BAR MACHINE *
Machining capacity 7" length by 1 3/4 diameter

TURRET LATHES

(1) GISHOLT #3L
12" chuck
Manual turret lathe

(1) GISHOLT #5 *
12" chuck
19 3/4 swing over ways
3" through hole
Hex turret

(1) ENCO #LHT-H2A-92040 *

(1) ROCKWELL BENCH LATHE *

6" chuck
10" swing over ways
26" B/C

BORING MILLS – VERTICAL

(1) CINCINNATI-GILBERT
4"bore 48" X 48"
1750 RPM
20HP
72" x 48" table
Index table & Sony readouts

(2) DEVLIEG 3B-48 SPIRAMATIC JIG MILL
48" jig mill with index table
30" X 48" table
Sony readout

(1) HORIZONTAL BORING MACHINE *
56" table
2 heads with tilt & deep hole capability
Square turret & tilt head
Man-av-trol control
50 HP continuous at 1 hour duty rating

BORING MILLS – HORIZONTAL

(1) BULLARD-DYNATROL VTL
56" table
2 heads with tilt & deep hole capability
Square turret & tilt head
Man-av-trol control
50 HP continuous at 1 hour duty rating

HORIZONTAL MILLS

(1) CINCINNATI #2

12"X54" table
10 ½ travel

(1) KEARNEY & TRECKER
15 HP
3CK
15 ½ " X64" table
16" arbor
12" diameter cutter

(1) GORTON 3-34
14" x 62" table
10" travel

(1) SUNDSTRAND PRODUCTION MILL MODEL #33 *
12"X96" table
16" travel

(1) CINCINNATI-HYDROMATIC *
12" x 50" table

(1) KENT-OWENS 1-8 MODEL MILL *
6 X 12 table

(1) SUNDSTRAND OMNIMILL
40 tool changer / 15 HP/84" X 44" table / 60" travel

VERTICAL MILLS

(6) SERIES I BRIDGEPORTS WITH ACU-RITE III DIGITAL READOUTS & SONY

(1) SERIES I BRIDGEPORTS WITH SLOTTER ATTACHMENT

(1) SERIES I BRIDGEPORTS WITH HARTFORD INDEXER

(1) SERIES I BRIDGEPORTS *

(2) CINCINNATI #3
18" X 72" table

- (1) SUPERMILL 3VR *
12.5" x 60" table
- (1) #5 KEARNEY & TRECKER *
- (1) CINCINNATI V MILL
15" X 62" table
- (1) BERGMASER V MILL *
GE Mark Century Control

RADIAL DRILLS

- (1) 8ft X 19" CARLTON
- (1) 4ft X 9" CARLTON
- (1) 6ft X 16" CINCINNATI BICKFORD
- (1) 4ft X 9" CINCINNATI BICKFORD WITH HORIZONTAL INDEXER
- (1) 3ft X 9" AMERICAN
22" vertical X 26" horizontal arm
- (1) 3ft X 11" OOYA RE-1225M
- (1) 4ft X 14" OOYA RE-1225M *
- (1) 5ft X 13" OOYA RE-1300

DRILL PRESSES

- (1) DUMORE BENCH TYPE AUTOMATIC DRILL PRESS 2 SPINDLE *
- (2) FOOTE-BURT SIPP QUICK CHANGE SPEED SENSITIVE SINGLE SPINDLE
2000 RPM
- (1) WALKER TURNER BENCH TYPE SINGLE SPINDLE 14"
- (1) BARNES AUTOFEED *
24" X 15" table
- (1) BAKER 214 SINGLE SPINDLE

- (1) FOOTE-BURT PEDISTAL TYPE
- (1) STEELMAN SINGLE SPINDLE ½ 12 SPEED HAND OPERATED DRILL PRESS(?)
- (1) BAKER 314A SINGLE SPINDLE
- (1) ATLAS SIDNGLE SPINDLE *
- (1) DELTA PEDISTAL SINGLE SPINDLE *
18" x 15 ½" table
- (1) MODEL ID BURGMASER 6 SPINDLE TURRET DRILL *
24" x 40" table
½ " capacity in mild steel – 5/8" capacity in cast iron
- (2) POWERMATIC DOUBLE SPINDLES *
20" x 40" table
Manual
- (2) POWERMATIC 15" SINGLE SPINDLE *
10" x 40" table
Manual
- (2) WALKER TURNER SINGLE SPINDLE *
Pedestal
14" x 18" table
- (1) BURGMASER 8 STATION TURRET *
- (1) PROCUNIER TAPPING MACHINE
Hand operated-post type
- (1) ROCKWELL PEDISTAL TYPE DRILL & TAPPING MACHINE
- (1) NATCO MULTI-SPINDLE
- (1) LAMIRE MULTI-SPINDLE
- (1) DELTA PEDISTAL SINGLE SPINDLE
15 X 16 ½
- (1) ENCO PEDISTAL *
12" X 12" table

(1) DECKA 14 SPINDLE

*

JIG GRINDERS

(1) PEDISTAL DUAL GRINDER
14" wheel X 1" thick

(1) MOORE #3 JIG GRINDER
11" X 24" table
Travel left to right = 16"
Travel front to back = 11.5"

INTERNAL GRINDERS

(1) HEALD UNIVERSITY HYDRAULIC #72-A-5
9" magnetic chuck
10" stroke

(1) HEALD UNIVERSAL #72-A
16 ½ " magnetic chuck
16" stroke
16" swing

(1) DECKEL UNIVERSAL ENGRAVING & PROFILING MACHINE MODEL GK
12/PEDISTAL

CYLINDRICAL GRINDERS

(1) BROWN & SHARPE #5
3" diameter X 18"

(1) CINCINNATI
10" diameter X 54"
14 X 1 ½

(1) CINCINNATI
10" diameter X 24"
14 X 1 wheel

SURFACE GRINDERS

- (1) 24" X 72" HILL ACME
20" wheel X 6" wide
- (1) 10" X 24" BROWN & SHARPE 1024 MICROMASTER
- (1) 6" X 18" BROWN & SHARPE 618 MICROMASTER
- (2) 8" X 12" PARKER MAJESTIC
5 ½" maximum vertical travel
- (1) 6" X 18" LANDIS ABRASIVE
- (1) 6" X 18" 1.5" ABRASIVE
12" wheel
6 ½ " X 18" mag chuck
- (1) 6" X 18" REID *
- (1) GALMEYER & LIVINGSTON HORIZONTAL *

DRILL & TOOL GRINDER

- (1) FRIEDRICH-DECKEL MODEL 50 BENCH TYPE TOOL GRINDER
- (1) CHRISTEN TOOL GRINDER
6" wheel
- (1) HAMMOND-KALAMAZOO BENCH GRINDER *
- 1 dual 6" wheel
- (1) BLACK DIAMOND DRILL GRINDER
8" wheel
Pedestal type
- (2) DAREX DRILL GRINDER *
- 16" wheel
Manual type
- (1) STERLING DRILL GRINDER
6" wheel

(1) EMPIRE BEAD BLASTER
22 X 22 door opening
35" X 26" X 32" cabinet
Hand operated

(1) MODEL 510 OLIVER DRILL GRINDER (?)

MISCELLANEOUS GRINDERS

(1) DIAMOND PEDISTAL GRINDER

(1) CASEY BELT GRINDER VERTICAL & HORIZONTAL

(1) DELTA BELT GINDER VERTICAL 6" *

(1) POWERMATIC 10" DISC SANDER *

(1) #2 CINCINNATI TOOL. & CUTTER GRINDER

(1) HAMMOND PEDISTAL GRINDER 7" WHEEL *

(2) HAMMOND GRINDER *
Wheel & wire brush
10" X 1 1/4 " wheel

(1) BALDER PEDESTAL GRINDER 7" WHEEL *

(1) WALKER TURNER PEDESTAL GRINDER 7" WHEELS *

(1) BESLEY 20" WHEEL HORIZONTAL GRINDER
16 1/2" X 10" stationary table

(1) BAKER DRUM GRINDER
4" maximum diameter wheel
18" stationary round table

(1) MILWAUKEE DIE FILER MODEL SF4
1/5 HP
11" X 11" tilt table

(1) STEELMAN BENCH GRINDER
1" X 8" with wire brush

(1) RYERSON PEDESTAL DISC SANDER
20" disc
8 ½" X 20" table

(1) DELTA PEDESTAL GRINDER

BROACHES

(1) COLONIAL HORIZONTAL
20 ton
90" stroke

(1) COLONIAL HORIZONTAL
25 ton
130" stroke

(1) AMERICAN HORIZONTAL *

15 ton
60" stroke

(1) 10 X 90 DETROIT BROACH *

10 ton
90" stroke

(1) COLONIAL HORIZONTAL *

15 ton
90" stroke

(1) SUNDSTRAND *

10 ton
50" stroke

(1) AMERICAN

5 ton
90" stroke

BALANCERS

(1) BEAR-DYNAMIC VERTICAL 20" 150 lb. Capacity

(1) GISHOLT #35 *

26" swing
24" center

(1) SCHNECK TURNER BALANCER *
24" Swing
Max Weight 66 Lbs

(1) Hines Balancer *
24" Swing

(1) ROCKWELL VERTICAL BALANCER *
20" swing

LAPPING MACHINES

(2) SUNNEN VERTICAL

SAWS

(1) DOALL METAL MASTER 36" VERTICAL BAND SAW

(1) HORIZONTAL HACK SAW (?)
10" X 18"

(1) RICHARDS ELECTROMATIC DIE MAKER (?)

(1) HITACHI MITER SAW
15" diameter blade

(1) WALKER TURNER BAND SAW *
16" X 8"

(1) BROBO SUPER 300

Cutoff saw
Bench mount
12" blade

(1) MODEL C-70 DOALL AUTOMATIC SAW

(1) 3 X 9 CINCINNATI BICKFORD RADIAL SAW *

(1) RACINE HYD HACK SAW
Up to 30" blade
60-90-130 FPM

(1) BAR SAW *
13" height X 22" wide capacity

(1) Peerless Hack Saw
10" X 16" High

(1) MACE CO. CUTOFF SAW
Manual chop saw

(1) RICHARDS MULTIFORM CUTOFF SAW

PLANNER

(1) ROCKFORD HYDRAULIC
42" X 12ft openside

WELDERS

(1) SYNCOWAVE 250

(1) MILLERMATIC 200

(1) MILLERMATIC VINTAGE
cv/dc wire seeder

(1) VERTICAL ROTARY MIGMASTER 300 TABLE WELDER *

(1) GE PORTABLE MAINTENANCE STICK WELDER *

(1) AIRCO WIRE WELDER *

(1) LINDE WIRE WELDER

(1) LINCOLN HEKI ARC T16 300/300 IDEAL ARC *

MISCELLANEOUS MACHINES

- (1) ELOX TAP DISINTEGRATORS
- (1) RICHARDS ELECTROMATIC DIE MAKER & JIG MILL
- (1) EXCELLO DOUBLE END BORING MACHINE
 - 2 spindle
 - Automatic with dog stops
 - 7.5 HP
- (1) SUNNEN MBB 1600 HONE
- (1) RICHARDS HYDRAULIC BENDER 1 3/8" Stroke
- (1) DO-IT COMBINATION BELT SANDER
 - 6" and 2" wide
- (1) MULTIFORM BRIDGER
- (1) MULTIFORM BENDER
- (1) RICHARDS SUPER DIE MAKER SAW TRIMMER *
- (1) 96" BRAKE-DREIG & KRUMP/SHEET METAL *
- (1) GROBE BROS.
 - 12" X 7" high
 - Band filer

PRESSES

- (1) FAMCO ARBOR PRESS
- (1) ARBOR PRESS WITH 3" DRIVER *
- (1) 300 TON WILLIAMS WHITE HYDRAULIC
 - Area of bed & bolster plate 50" X 72"
 - Daylight above bolster 45"
 - Stroke maximum = 24"
 - 40 ton air cushion
 - 100 ton hydraulic

- (1) 75 TON WARCO "C" FRAME INCLINABLE
 - 14" stroke adj.
 - 5" stroke
 - 3" slide adj.
 - 45 strokes per minute
- (1) 25 TON ROUSSELLE #3
 - Stamping machine or cutoff
- (1) US TOOL 10K PSI HYDRAULIC PRESS (BEARING PRESS HAND OPERATED)
- (1) CLEVELAND MECHANICAL
 - 300 ton press
 - Single action
 - Shut Hgt. 48"
 - Stroke 18"

NOTE: WE HAVE ACCESS TO OTHER PRESSES FOR TRYOUT AND PRODUCTION UP TO 1500 TONS.

FORK LIFTS

- (1) BUDA
 - 8500 lbs.
- (1) CATERPILLAR
 - 4500 lbs.
- (2) YALE
 - 4000 lbs.*
- (1) CLARK
 - 5000 lbs.*
- (1) CLARK GENESIS SERIES
 - 5000 lbs.*
- (1) PRIME MOVER PALLET TRUCK
 - 4000 lbs.*
- (1) CATERPILLAR V80C
 *

(1) ALLIS CHALMERS
3500 lbs.

*

(1) CATERPILLAR T50B

OTHER EQUIPMENT

380 TON	FARQUHAR HYDRAULIC PRESS
200 TON	CLEARING SS
180 TON	BLISS SS
125 TON	MINISTER SS
120 TON	HEIM OBI (5)
105 TON	FEDERAL OBI
88 TON	NIAGARA OBI
65 TON	WALSH OBI (2)
56 TON	THOMAS HORN
45 TON	CLEARING OBI (3)
45 TON	BLISS OBI
45 TON	L & J OBI
35 TON	BLISS OBI
25 TON	D & K BRAKE

10 KVA	BANNER SPOTWELDER
20 KVA	ACRO SPOTWELDER
30/50 KVA	PEER SPOTWELDER (2)
	P & H HEILLIARC WELDER (2)

HOBGING MACHINES

<u>MACHINE NO.</u>	<u>QUANTITY</u>		
12	1	BARBER COLMAN HOBGING MACHINE	*
		14-15 hydraulic	
		Serial # 365-R (was type "D")	
		Index - 12	
15	1	BARBER COLMAN HOBGING MACHINE	*
		No. 12	
		Serial #2012	
24	1	BARBER COLMAN HOBGING MACHINE	*
		14-15 hydraulic	
		Serial #724	
		Index - 24	

30	1	BARBER COLMAN HOBBING MACHINE *
		Type "A"
		Serial #709
		BARBER COLMAN HOBBING MACHINE *
		Serial I#725

FABRICATION EQUIPMENT

(1) EAGLE ROLL FORMER
30 Ton
NC Control

WELDERS

(1) Portable Tig
(6) 300 Amp Mig
(1) 700 Amp Pulse

SAWS

(1) DoAll Miter
18" Capacity
(1) Chop Saw

NC LATHES @ MILAN PLANT

(1) Johnsfeld ST-40
12" Chuck
3 ¾ " Through Hole
Travel
X= 13.3"
Y= 31.5"
24" Max Cut Diameter
31" Swing over Bed
3.74" Bar Capacity
30" Between Centers

- (1) Topper TNL 120 AL
 - 8" Chuck with Collect
 - Travel
 - X= 6.7"
 - Z= 23.6
 - 16.5" Max Swing
 - 2.48" Bar Capacity

- (1) MAZAK Slant Turn 30
 - 12" Chuck
 - Full C-Axis

- (1) MAZAK Slant Turn 35
 - 12" Quick Change Chuck
 - Travel
 - X= 16"
 - Z= 41"
 - 39" Between Centers