

BORING EQUIPMENT – HORIZONTAL

CNC Giddings & Lewis	5.12 Spindle – 40 HP
Table Surface	72" x 168"
Axis Travel:	
X – Horizontal	168"
Y – Vertical	139"
Z – Spindle	36"
W – Saddle Travel	95"
<i>Attachments:</i>	
Tool Changer	120 Positions
Right Angle Head	
CNC Giddings & Lewis	5" Spindle - 40 HP
Table Surface	48" x 96"
Axis Travel:	
X - Horizontal	96"
Y - Vertical	79"
Z - Spindle	36"
W – Saddle Travel	50"
<i>Attachments:</i>	
Tool Changer	40 Positions
Rotary Table	48" x 48"
Right Angle Head	
Giddings & Lewis	6" Spindle - 40 HP
Table Surface	72" x 147"
Axis Travel:	
X - Horizontal	130"
Y - Vertical	94"
Z - Spindle	49"
W – Saddle Travel	90"
<i>Attachments:</i>	
Rotary Table	36" x 48"
Right Angle Head	
Giddings & Lewis	4" Spindle - 25 HP
Table Surface	48" x 74"
Axis Travel:	
X - Horizontal	61"
Y - Vertical	65"
Z - Spindle	36"
W – Saddle Travel	48"
<i>Attachments:</i>	
Rotary Table:	36" x 36"
Right Angle Head	

Giddings & Lewis Floor Mill - 4" Spindle - 15 HP

Axis Travel:

X - Horizontal	104"
Y - Vertical	72"
Z - Spindle	27.5"

CNC MACHINING CENTERS

Horizontal Toyoda Model FHN80T Dual Pallet Machining Center

Pallet Size	31.5" x 31.5"
X – Horizontal	40"
Y – Vertical	35"
Z – Spindle	31"
B - 360° Rotation	
120 Position Tool Changer	

Horizontal Milwaukee-Matic Model 200 CNC control
Machining Center with Shuttle

Axis Travel:

X – Horizontal	30"
Y – Vertical	19"
Z – Spindle	20"
B - 360° Rotation	
40 Position Tool Changer	

Vertical Cincinnati Milacron Sabre 1500 CNC control

Table Surface	64" x 30"
Axis Travel:	
X - Horizontal	60"
Y - Vertical	30"
Z - Spindle	32"

NUMERICAL CONTROL MACHINES

Pratt & Whitney Triax VII

Table Surface - 60" x 29"

Axis Travel:

X - Horizontal	54"
Y – Vertical	26"
Z – Spindle	20"

Attachments:

Universal Adjustable 8 Spindle Drill Head
 Multiple Spindle Drilling Heads
 8 Drills on 2 Centers
 10 Drills on 1.4" Centers

Pratt & Whitney Tape-O-Matic Model C

Table Surface - 40" x 26"

Axis Travel:

X – Horizontal	40"
Y – Vertical	26"
Z – Spindle	8"
Head Adjustment	22"

Attachments:

Multiple Spindle Drilling Heads
 1-8 Drills on 2" Centers
 1-10 Drills on 1.4" Centers

Leblond Tape - Turn IV Lathe

20" Diameter over Ways

12" Diameter x 106"

TURNING EQUIPMENT**CNC Turning Center**

Giddings & Lewis

4 axis CNC Vertical Turning Center
 66" Table Diameter
 72" Maximum Swing
 72" Max Height under Rail
 62" Ram Vertical travel
 26" Side Head Horizontal travel
 (2) 12 Station Tool Changers

Dainichi

CNC Turning Center
 32" Chuck Size
 6.89" Spindle Bore
 47.24" Swing Over Bed
 31.5" Swing Over Carriage
 18 ft Center Distance

Okuma Cadet

CNC Turning Center
 10" Chuck Size
 2.2" Spindle Bore
 15.75" Swing Over Bed
 9.84" Max Turning Diameter
 14.96" Max Working Length
 12 Tool Positions

Engine Lathes

Poreba	73" Dia x 55.7 ft	96,000 pound capacity
Putnam	100" Dia x 16 ft	108" over ways
Lodge & Shipley	51" x 65 ft	
Sidney (Tracer)	20" x 13 ft	
Heidenreich & Herbeck	18" x 12 ft	

Turret Lathes

Bullard Vertical	
Table - 42" Diameter	
Vertical Travel - 32"	
Warner & Swasey #2A Chucker	
21" Diameter Swing	

PLANER MILLERS

Niles Double Column	
Travel:	
Length	50 ft
Cross	8 ft
Vertical	8 ft
1- Rail Head Milling	
1- Side Head Milling	
Gray Open Side	
Travel:	
Planing	18 ft - 2"
Vertical	37-1/4"
Horizontal	32"
Milling	20 ft
1- Rail Head Milling	
1- Rail Head Planing	
1- Side Head Milling	

DRILLING EQUIPMENT

American Radial Drill	
Table 28" x 40"	
Arm	7 ft
Column	17"

EQUIPMENT

FLAME CUTTING EQUIPMENT

C & G Systems Flame & Plasma Cutting - Mustang 3000
 Cutting Area - 120 Inch x 30 ft
 With Burny 5 MCE, CNC Control with
 Internal Disk Drive - 400 IPM Upgrade
 Thermal Dynamics Merlin 6000 GST - 150 Amp Plasma System
 50 Shape Library - Program Mirror Imaging

SHEARING EQUIPMENT

10 Ft. Cincinnati
 Capacity - 1/4" Mild Steel

12 Ft. Pacific Hydraulic
 Capacity - 3/4" Mild Steel

PRESSES

Lucas Horizontal Press - 30 Tons; to 20 ft

Watson Stillman Vertical Press – 60 Tons

BRAKE EQUIPMENT

16 Ft. Cincinnati:	10 ft - 5-1/2" Inside Columns
Capacity - 400 Tons	3/8" Mild Steel to 16 ft
	1/2" Mild Steel to 12 ft

14 Ft. Cincinnati:	12 ft - 6" Inside Columns
Capacity - 135 Tons	10 GA to 12 ft

WELDING EQUIPMENT

- 11- Mig Welders
- 3- Tig Welders
- 1- Spot Welder - 21" Throat
- 2- Sub Arc - Automatic and Hand Held

Punch Equipment

Wiedeman R-41	
Throat Depth	25-1/2"
Capacity	3" Diameter Up to 16 GA
Whitney Hydraulic	30 Ton
Throat Depth	20"
Capacity	4" Diameter Up to 10 GA
Scotchman Ironworker	2,500 Lb. Pressure
Throat Depth	7-1/2"

ROLLING EQUIPMENT

- Roundo Type PS Plate Bending Roll
 Double Pinch Type; Size 500-10; 19.69" Dia. Roll
 Rated Capacity - 1-5/8" Thick x 10 ft
 With Bar and Angle Rolling Attachment
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- Power Roller 5'-6"
 Capacity - 1/4" Mild Steel

MISCELLANEOUS**EQUIPMENT**

- Blanchard Grinder With 36" Table
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- Lapointe Horizontal Broach
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- Morton Vertical Broach

HANDLING**EQUIPMENT**

Crane Capacity Up to 50 Tons with 22.5 Feet under Hook

Forklifts to 9 Tons

INSPECTION**EQUIPMENT**

Height Gages to 50"

Granite Inspection Tables Up to 60" x 144"

Hamar Laser Alignment Equipment

ASME Certified Gage Blocks

Micrometers 0" to 36"

Inside Micrometers 2" to 36"

Verniers to 72"

Bore Gages to 13"

Branson Ultrasonic Thickness Gage

Tapes (PI) 12.000" - 110.000"

Digital Surface Finish Gages

Calibration Requirements per Quality Control Manual

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