

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	

CNC Pama Dual Pallet 7 Axis Horizontal Boring Mill	
5 Inch Spindle with 47 HP	
Axis Travel:	
X - Horizontal	118"
Y – Vertical	76"
W – Spindle	29"
Z – Column travel	102"
B – 360,000 Position Contouring Rotary	
A - +/- 180° Rotation	
C - +/- 150° Rotation	
40 Position tool Changer	
Pallet size	63 x 78.7"
Pallet capacity	24,250 pounds
Universal (swivel) 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"

TURNING EQUIPMENT

CNC Turning Centers

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" Dia x 65 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"

FABRICATION SHOP 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: Capacity - 400 Tons	10 ft - 5-1/2" Inside Columns 3/8" Mild Steel to 16 ft 1/2" Mild Steel to 12 ft
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14 Ft. Cincinnati: Capacity - 135 Tons	12 ft - 6" Inside Columns 10 GA to 12 ft
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WELDING EQUIPMENT

11- Mig Welders

3- Tig Welders

1- Spot Welder - 21" Throat

3- Sub Arc - Automatic and Hand Held

Punch Equipment

Wiedeman R-41 Throat Depth Capacity	25-1/2" 3" Diameter Up to 16 GA
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Whitney Hydraulic Throat Depth Capacity	30 Ton 20" 4" Diameter Up to 10 GA
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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

MISCELLANEOUS EQUIPMENT

BLASTING EQUIPMENT

26 X 28 ft. booth
8 X 15 ft booth
Mediums: Star/glass/shot

PAINT BOOTH

15 x 30 ft booth
2 & 3 part epoxy
Enamels
Zinc
Specialty paints upon request

Blanchard Grinder with 36" Table

Lapointe Horizontal Broach

Morton Vertical Broach

HANDLING EQUIPMENT

Crane Capacity Up to 50 Tons with 22.5 Feet under Hook

Forklifts to 9 Tons

INSPECTION EQUIPMENT

ASME hydro pressure test equipment

Vacuum test via helium leak check

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

Non destructive testing

- Mag Particle
- Dye Penetrate
- X-Ray



Morrison Berkshire, Inc.

865 S. Church St.

P.O. Box 958

North Adams, MA 01247-0958

Phone: 413-663-6501

Fax: 413-663-6522

mfgservices@morrisonberkshire.com