



## Machinery List

### VERTICAL MACHINING CENTERS

#### Okuma MC-4VAE

X	Axis Table	30.00"
Y	Axis Saddle	16.93"
Z	Axis Spindle Head	17.72"

Load Capacity	1,100 lbs.
Spindle Speed Range	50-6,000 rpm
Main Motor	10/7.5 hp
Automatic Tool Changer	20 tools
Cat 40 Taper	

#### Okuma MC-50VA

X	Axis Table	41.34"
Y	Axis Saddle	20.08"
Z	Axis Spindle Head	22.05"

Load Capacity	2,200 lbs.
Spindle Speed Range	10-5,000 rpm
Main Motor	20/15 hp
Automatic Tool Changer	20 tools
Cat 50 Taper	

#### Mori Seiki SV-503/40

X	Axis Table	31.5"
Y	Axis Saddle	20.1"
Z	Axis Spindle Head	20.1"

Load Capacity	2,200 lbs.
Spindle Speed Range	10-12,000 rpm
Main Motor	30/24.8 hp
Automatic Tool Changer	30 tools
Cat 40 Taper	



## Machinery List

### HORIZONTAL MACHINING CENTERS

#### Okuma MC-400 H

X	Axis Table	22.05"
Y	Axis Spindle Head	18.11"
Z	Axis Column	20.08"

Load Capacity 880 lbs.  
 Spindle Speed Range 45-7,000 rpm  
 Main Motor 15/10 hp  
 Automatic Tool Changer 32 tools  
 Automatic Pallet Changer w/Twin  
 Pallets, (15.75 x 15.75)  
 Cat 40 Taper

#### Mori Seiki SH-503

X	Axis Table	24.8"
Y	Axis Spindle Head	23.6"
Z	Axis Column	25.6"

Load Capacity 1,100 lbs.  
 Maximum Spindle Speed 12,000 rpm  
 Main Motor 20/24.7 hp  
 Automatic Tool Changer 40 tools  
 Automatic Pallet Changer w/Twin  
 Pallets (19.7 x 19.7)  
 Features Through Tool Coolant  
 Cat 40 Taper

#### Mori Seiki NHX 5000

X	Axis Table	28.7"
Y	Axis Spindle Head	28.7"
Z	Axis Column	34.6"

Load Capacity 1100 lbs.  
 Maximum Spindle Speed 12,000 rpm  
 Main Motor 20/15 hp  
 Automatic Tool Changer 180  
 Automatic Pallet Changer w/Six  
 Pallets (19.7 x 19.7)  
 Features Chip Blaster Through Tool Coolant  
 Cat 40 Taper

#### Mori Seiki SH-403

X	Axis Table	22.0"
Y	Axis Spindle Head	20.1"
Z	Axis Column	20.1"

Load Capacity 1,100 lbs.  
 Spindle Speed Range 10-12,000 rpm  
 Main Motor 24.7/30 hp  
 Automatic Tool Changer 40 tools  
 Automatic Pallet Changer w/Twin  
 Pallets, (15.7 x 15.7)  
 Features Through Tool Coolant  
 Cat 40 Taper

#### Mori Seiki NH5000/40

X	Axis Table	24.8"
Y	Axis Spindle Head	23.6"
Z	Axis Column	26.4"

Load Capacity 1,100 lbs.  
 Spindle Speed Range 20,000 rpm  
 Main Motor 20/24.7 hp  
 Automatic Tool Changer 60 tools  
 Automatic Pallet Changer w/Six  
 Pallets (19.7 x 19.7)  
 Features Through Tool Coolant  
 Cat 40 Taper

#### Okuma MB-5000H II

X	Axis Table	29.9"
Y	Axis Table	29.9"
Z	Axis Table	31.8"

Load Capacity 1,100 lbs  
 Maximum Spindle Speed 15,000 rpm  
 Main Motor 35 hp  
 Automatic Tool Changer 260  
 Automatic Pallet Changer w/Six  
 Pallets (19.7 x 19.7)  
 Features Through Tool Coolant  
 Cat 40 Taper



## Machinery List

### CNC LATHES

#### Mori Seiki NL – 2000/500

X	Axis Travel	10.2"
Z	Axis Travel	23.2"

Bar Capacity	2.5"
Max. Spindle Speed Range	5000 rpm
Main Motor	20/15 hp
8" 3-Jaw Hydraulic Chuck	
No. of Tool Stations	12
Max. Turning Diameter	14"
Max. Turning Length	20"
w/IEMCA VIP 80E Magazine Bar Feeder	

#### Mori Seiki SL – 250B/500

X	Axis Travel	9.3"
Z	Axis Travel	20.5"

Bar Capacity	2.8"
Spindle Speed Range	35-3,500 rpm
Main Motor	20/15 hp
No. of Tool Stations	10
10" Hollow Chuck Unit	
Built-in Type Tailstock	85mm
Max. Turning Diameter	15.3"
Max. Turning Length	19.1"

#### Mori Seiki SL – 400B/2000

X	Axis Travel	13.5"
Z	Axis Travel	86.4"

Spindle Speed Range	2400 rpm
Main Motor	50/40 hp
15" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
Max. Turning Diameter	24.4"
Max. Turning Length	84.9"
Programmable Tailstock/Quill	
Hydraulic Steady Rest	

#### Mori Seiki SL – 400BMC/800

X	Axis Travel	13.5"
Z	Axis Travel	32"

Spindle Speed Range	2400 rpm
Main Motor	50/40 hp
15" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
Rotary Tools	12
Max. Turning Diameter	25.5"
Max. Turning Length	32"
Programmable Tailstock/Quill	
Hydraulic Steady Rest	

#### Mori Seiki SL – 400BMC/800

X	Axis Travel	13.5"
Z	Axis Travel	32"

Spindle Speed Range	2400 rpm
Main Motor	50/40 hp
15" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
24.4" Rotary Tools	12
Max. Turning Diameter	25.5"
Max. Turning Length	32"



## Machinery List

### CNC LATHES CONTINUED

#### Mori Seiki NL3000MC/1250

X Axis Travel	11.0"
Z Axis Travel	53.9"
Spindle Speed Range	2500 rpm
Main Motor	30/24.7 hp
15" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
Rotary Tools	12
Rotary Tool Speed Range	6000 rpm
Rotary Tool Motor	7.5/5 hp
Max. Turning Diameter	16.9"
Max. Turning Length	49.6
Hydraulic Steady Rest	
Programmable Tailstock	

#### Mori Seiki NLX2500/700

X Axis Travel	10.2"
Y Axis Travel	2.0"
Z Axis Travel	31.3"
B Axis Travel (Spindle 2)	28.9"
Spindle Speed Range	4000 rpm
Main Motor	24.7/20 hp
10" 3-Jaw Hydraulic Chuck	
Sub Spindle Speed Range	6000 rpm
Sub Motor	15/10 hp
6" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
Rotary Tools	12
Rotary Tool Speed Range	6000 rpm
Rotary Tool Motor	7.5/5 hp
Max. Turning Diameter	14"
Max. Turning Length	27.7"

#### Mori Seiki NLX2500/700SY

X Axis Travel	10.2"
Y Axis Travel	2.0"
Z Axis Travel	31.3"
B Axis Travel (Spindle 2)	28.9"
Spindle Speed Range	4000 rpm
Main Motor	24.7/20 hp
10" 3-Jaw Hydraulic Chuck	
Sub Spindle Speed Range	6000 rpm
Sub Motor	15/10 hp
6" 3-Jaw Hydraulic Chuck	
No. Of Tool Stations	12
Rotary Tools	12
Rotary Tool Speed Range	10,000 rpm
Rotary Tool Motor	7.5/5 hp
Max. Turning Diameter	14"
Max. Turning Length	27.7"



## Machinery List

### VERTICAL LATHE

#### Okuma 2SP-V40

X Axis Travel	10.4"
Z Axis Travel	17.72"

2 Spindles w/ Stepless

Spindle Speed Range

Spindle Speed Range 2500 rpm

Main Motor 30/25 hp

15" 3-Jaw Hydraulic Chuck  
per Spindle

No. of Tool Stations 12  
per spindle

Max. Turning Diameter 15.75"

Max. Turning Length 17.72"

Max Supported Load 660 lbs

### INSPECTION EQUIPMENT

#### Coordinate Measuring Machine

##### Mitutoyo BH-706H

Measuring Range:	X	28"
	Y	24"
	Z	24"

Featuring: Dell Computer w/ Microsoft Windows 7  
CMM Manager Software

#### Coordinate Measuring Machine

##### Sheffield Discovery II D-28

Measuring Range:	X	30"
	Y	40"
	Z	24"

Featuring: Dell Computer w/ Microsoft Windows 7  
Measuremax Plus and CMM Manager Software



## Machinery List

### INSPECTION EQUIPMENT CONTINUED

#### Coordinate Measuring Machine Keyence XM-T2200

Measuring Range: 23" x 12" x 8"

Featuring: Microsoft Windows 10  
Mobile Unit for shop floor use  
Easy to Program, 0.3 megapixel, color CMOS camera works with near-infrared light LED 870nm to capture dimensions.

### OTHER INSPECTION EQUIPMENT

4' x 8' Granite Inspection Plate

QM-height 600 Mitutoyo Hite Gauge

Trimos Height Gage V4-7

Mitutoyo Surftester

Bench Center 38" X 8"

Bench Center 18" X 10"



## Machinery List

### OTHER EQUIPMENT

#### Engine Lathe

5 ft. between centers  
 20.867" swing over bed (diameter)  
 26" over gap bed  
 12.993" swing over saddle  
 2.063" spindle bore diameter  
 16 spindle speeds  
 35 English threads  
 8.4 to 28 mm of metric threads

#### Bridgeport Mill

X	Axis	36"
Y	Axis	12"
Z	Axis	16"

#### American Hole Wizard Radial Drill

4 ft. arm  
 11" column  
 6 feeds .004" - .025" I.P.R.  
 Spindle Speed Range 25-550 rpm

#### Kikihda Surface Grinder

X	Axis	39"
Y	Axis	12"
Z	Axis	10"

#### Marvel PA360 EPC/2 Band Saw

Programmable  
 14" cut w/Coolant

#### Ellis Band Saw

10" X 11" @ 90 deg.  
 7" @ 45 deg.

#### Kalamazoo Chop Saw

5" X 5"

#### Miller Deltaweld 651 Mig Power

With S-54A constant speed wire feeder

#### Gentec Pt450m Welding Positioner

Table Diameter	17.5"
Load Capacity	990 lbs.
Table Angle	0 – 90 deg.

#### Aaladin Parts Washer – Model 2085E

45" L x 61" W x 87" H Bead Blaster  
 1500 lbs. Load Capacity  
 Built in Dry Floor (Waste Water)  
 Evaporator, Oil Skimmer & Power Vent

#### Grizzly Belt Sander Grinder

Motor	1 hp. / 3450 rpm
Belt	6" X 48"
Disk	12"