



Machine Shop Capabilities

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7600 5th Ave. South
P. O. Box 80505
Seattle 98108

206 / 763 0990
FAX: 206 / 763 8709
800 / 244 4130

CNC Lathes	Swing	Centers
Moriseiki SL4	17"	28"
Moriseiki SL35	17	60
MoriSeiki NL 2500/1250	14	51
Okuma lb15	10	20
Okuma l370	14.5	19.5
Colchester Harrison Alpha 1550xs	21.5	80

Manual Lathes	Swing	Centers
Poreba	36	360
Poreba	52	472
VDF Wohlenburg	49.5	250
:eblond Gap Bed	62	120
Martin	24	120
American Tracer	14	36
American Tracer	16	78
American Tracer	18	54
Graziano	22	80
Graziano	22	80
Martin	20	72
Martin	20	120
Summit	20	72
Southbend	17	60
Lansing	24	48
Lodge and Shipley	24	72
Summit	26	120
Hwacheon	22	60
Hwacheon	22	60
Hwacheon	17	60

Plant 2A & 2B Cranes

10 ton
7.5 ton

Horizontal Cutoff Band Saws

6 x 24
6 x 17

Fork Lift Capacity

5,450 lbs, 10,150 lbs, 15,000 lbs, 65,000 lbs

Bridgeport Machines	x	y	z
Manual Mills (10)	27	13	14x5
EZ-Tracks (7)	32	13	14x5
Prototrak	40	20	23.53

OD Grinders	Swing	Centers
Norton	21"	198"
Norton	24"	96"
Landis	14"	36"
Landis	22"	84"
Landis	22"	84"
Fortuna	20"	48"

Surface Grinders	X Axis	Y Axis
Thompson	8"	24"
Harvel	8"	18"

ID Grinder	Swing	Length
Heald	32"	48"

Vertical Lathes	Swing	Height
King double head	104"	80"
NKK	78"	55"

Radial Drill Presses	Travel	Depth
Cincinannati Bickford	36	20
Summit	36	12

Hydraulic Presses

300 ton
100 ton

Inspection Equipment

DEA CMM
Starrett 4028-24 CMM
Starrett 8040-24 CMM
Leica LDT 500 – Inspection Laser
Romer Portable CMM



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CNC Mills	X	Y	Z	W	5X	Max Weight
Awea SO3016 Bridge Mill (3)	120	63	30			22,000
Awea VP2012 Bridge Mill	78	47	30			7,700
Giddings & Lewis Horizontal Boring Machine 5 axis	98	82	62	31.5	82x82	
Giddings & Lewis Horizontal Boring Machine 4 axis	118	86	84	33		
Haas TM-2 Vertical Mill 4 axis	40	16	16			
Kao Ming KCM-4000sd Bridge Mill	166	55	27			
Kuraki KBM11A Horiz. Boring Machine	59	39	27.5	11.5		6,600
Kuraki KBM11X Horiz. Boring Machine	59	47	27	13.5		6,600
Kuraki KBM11WA Horiz. Boring Machine	75.5	67	57	19.5		14,300
Leadwell MCV-2000p Vertical Mill	80	36	30			
Nomura BN110P Horiz. Boring Machine 5 axis	118	71	51	20		
Okuma Howa Millac 5VA Vertical Mill	50	24	20			
SNK NB130P Horiz. Boring Machine	118	78.75	63	27		22,000
SNK Nb130P Horiz. Boring Machine	137	98	63	27		22,000
SNK NB130P Horiz. Boring Machine	137	98	63	27		22,000
Viper HB-4180 Bridge Mill	160	74	32			
ZPS Tree VMC1050 (2)	50	24	20			
ZPS Tajmac MCFV1060	40	24	30			

Manual Boring Mills	x	y	z	w	Max Weight
Wotan Horizontal Boring Machine	72.6	53.4	57.3	24.4	11,000
Summit Horizontal Boring Machine	60	48	59	24	11,000
Nomura Horizontal Boring Machine (2)	50	45	43.5	26	11,000

Facilities / Capacities

10,000 sq. ft. of floor spaced dedicated to assembly
 15,000 sq. ft. of dedicated welding space
 28,000 sq. ft. of machine shop space
 3500 sq. ft. of dedicated q/c space
 5000 sq. ft. of misc. office space
 More than 3.5 acres of yard space