



# Equipment Sheet

## Milling

QTY	Make	RPM	Travel Capacity and Estimated Part Size	Max Table Load	Probe/Tool laser
<b>High Speed 5 Axis Machines</b>					
2	SW Machines BA W02-22	40,000	x = 7.87", y= 13.78" z= 11.81" (spindle difference 9.84")	352 lbs	No
3	Mazak 5 axis	20,000	x=20.07" , y=20.07", z=18.11" (spindle to table w/ stroke 8.07")	661 lbs	Yes
<b>Horizontal Machine Center (X, Y and Z)</b>					
3	Smart SX-4000	15,000	22.05" x 22.05" x 27.17"	700	Yes
2	Okuma MB4000	15,000	22.05" x 22.05" x 24.61"	800	Yes
1	Toyoda FHS00-J	15,000	28.74" x 28.74" x 33.46"	1,541 LB	Yes
<b>Vertical Machine Centers w/ Pallet Changer</b>					
1	Brother R-650	10,000	31.5" x 16.7" x 12"	1,102 lbs	Yes
<b>Vertical Machine Centers w/ Pallet Changer (X, Y &amp; Z)</b>					
2	Brother S700	10,000	27.6" x 15.7" x 11.8" (4th axis available)	881 lbs	Yes
3	Brother S1000	10,000	39.4" x 19.7" x 11.8" (4th axis available)	881 lbs	Yes
4	Hurco VMX-42i	10,000	42" x 24" x 24" (4th axis available)	3,850 LB	Yes
3	Smart 1165 VMC	12,000	43" x 25.59" x 24.02"	2,850 LB	No
<b>Vertical Mill/Turn Machines with full Automation</b>					
4	Brother M-140	16,000	7.87" x 17.3" x 12" (3 +2 axis)	88.2 lbs	Yes
1	Nachi Robot MZ-12	N/A	Load/Transfer/Unload Robot	26 lbs	Yes
1	Fanuc Robot	N/A	Load/Transfer/Unload Robot	26 lbs	No

## Turning

Qty.	Manufacturer	RPM	Milling Spindle Speed	Bar Feeder Max Dia.	Max Turn Dia	Max. Turning Length	Max Robot Payload	Probe
2	Nakamura AS-200 & UR Robot Automation	5,000	6,000	N/A	11.02	11.81	27.55 lbs	Yes
1	Nakamura SC-300 W/ Halter Robot Automation	3,500	6,000	2.84	14.17	25	77 lbs	Yes
2	Takisawa TS4000 W/ Halter Robot Automation	4,200	6,000	N/A	14.56	29.52	44 lbs	Yes
2	Tsugami M08 W/ 12ft Bar Feeders	4,500	5,000	1.875	11.02	14.96	N/A	Yes
1	Smart SL20 W/ 6ft Bar Feeder	4,000	N/A	2.375	2.375	11.8	N/A	N/A
1	Yama Seiki GLS-2000LYS W/ 12ft Bar Feeder	4,500	4,000	2.56	1.25	12.99	N/A	Yes

## Saw

Qty.	Manufacturer	RPM	Min. Mat. Size Round	Min. Mat. Size Square	Max. Mat. Size Round	Min. Mat. Size Square	Min Mat. Length	Max Mat. Length
1	Nishijimax	160	0.590	0.590	4.33	2.91	0.393	236+
1	Hydmach	8	0.250	0.25	12.5	12.5	0.25	236+

## Quality

### CMM

QTY	Manufacturer	X Travel	Y Travel	Z Travel	B Axis	Tool Matrix	Max Table Load
1	Hexagon Global S Blue 9.15.8	34.5"	54.2"	27.5"	180°	Yes	3,300 LB
2	Hexagon Global	27.6"	39.4"	26"	180°	Yes	900 LB
1	Hexagon Optim M DC800 6.6.3	21.5"	17.5"	13.2"	360°	Yes	35 LB

### Portable Inspection and Measurement

1	Hexagon Absolute Romer Arm	5 FT					
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