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## HORIZONTAL MACHINING CELLS

QTY	MAKE	MODEL	X"	Y"	Z"	HP	SPINDLE SPEED (RPM)	TAPER TOOLING	TOOL MAGAZINE	PALLET CHANGER	ACCESSORIES
5	Makino	A51 Horizontal Machining Centers	22	25	23.6	30	14,000	40	135-315	66 (400MM)	1000 PSI through Tool Coolant System, Glass Scales
2	Makino	A61NX Horizontal Machining Center	28.7	25.6	31.5	30	14,000	40	133	12 (500MM)	1000 PSI through Tool Coolant System, Glass Scales
1	Mori Seiki	NHX5000 Gen2 Horizontal Machining Center	28.7	28.7	34.6	50	20,000	40	280	5 (500MM)	1000 PSI through Tool Coolant System

## HORIZONTAL CNC MACHINING CENTERS

QTY	MAKE	MODEL	X"	Y"	Z"	HP	SPINDLE SPEED (RPM)	TAPER TOOLING	TOOL MAGAZINE	PALLET CHANGER	ACCESSORIES
1	OKK	HM60 Horizontal Machining Center	30	28.7	31	30	10,000	50	40	2	
3	OKK	HM50 Horizontal Machining Centers	22	22	22	20	10,000	40	40-80	2	
1	OKK	PCH600 Horizontal Machining Center	32	30	27	30	7,500	50	40	2	

## VERTICAL CNC MACHINING CENTERS

QTY	MAKE	MODEL	X"	Y"	Z"	HP	SPINDLE SPEED (RPM)	TAPER TOOLING	TOOL MAGAZINE	PALLET CHANGER	ACCESSORIES
1	YCM	NSV102AA	40"	23"	23"		15,000	40	30	No	
1	YCM	NXV1680A	64"	30"	27"		12,000	40	30	No	
1	Makino	S56 Vertical Machining Center	35.4	19.7	17.7	20	13,000	40	30		
1	Mori Seiki	NV4000 Vertical Machining Center	23.6	15.7	15.7	20	12,000	40	40	2	Laser Tool Setting
1	Okuma	MB46 Vertical Machining Center	30	18	18	15	12,000	40	30		Glass Scales
3	Haas	VF-4 Vertical Machining Centers	50	20	20	15	7,500	40	20		
1	Haas	VF-6 Vertical Machining Center	60	32	32	20	7,500	40	24		4th Axis
1	Haas	VF-7 Vertical Machining Center	84	32	32	20	7,500	40	32		
1	Fadal	6030 Vertical Machining Center	60	30	30	20	10,000	40	20		
1	Fadal	4020 Vertical Machining Center	40	20	30	15	10,000	40	20		
4	Brother	TC-S2A Vertical Machining Centers	18.5	14	10.6	15	12,000	30	14		
2	Brother	TC-22A Vertical Machining Centers	19.6	15.7	16.1	15	12,000	30	20		
1	Brother	TC-32A Vertical Machining Center	17.7	12.5	16.1	15	12,000	30	20	2	

## EDM CUTTING

QTY	MAKE	MODEL	X"	Y"	Z"						
1	Fanuc	Robocut	14	10	10						

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## CNC TURNING CENTERS

QTY	MAKE	MODEL	X"	Y"	Z"	LIVE TURRET STATIONS	MAX TURN DIAMETER	MAX TURN LENGTH	SUB-SPINDLE	BAR FEEDER	ACCESSORIES
1	Okuma	L370MW Turning Center	10.23			12	13.38"	19.68"	Yes	2" x 6'	
2	Okuma	L370M Turning Centers	10.23			12	13.38"	19.68"	No	2" x 6'	
2	Mori Seiki	NL2500SY Turning Center	10.2	3.9		12	14.4"	27.7"	No		

## CNC TURNING CENTERS – SCREW MACHINES

QTY	MAKE	MODEL	AXIS	MAX TURN LENGTH	MAX TURN DIAMETER	SPINDLE SPEED (RPM)	SUB SPINDLE	TOOL POSITIONS	ACCESSORIES
1	Tsugami	s206	6	9.84" (210mm)	0.787" (20MM)	12,000 RPM	Yes (X, Y)	Static: 39 Live: 15	Magazine Bar Loader

## LASER MARKING

QTY	MAKE	MODEL	X"	Y"	Z"	POWER	MAX MARKING	ACCESSORIES
1	Laser Marking Tech.	Cobalt XL 20PF	51	34	44	30W	4.33" x 4.33"	Programmable Z and X Axis

## JIG BORER MILLS

QTY	MAKE	MODEL	X"	Y"	Z"	ACCESSORIES
1	SIP	42 CNC Jig Borer	18	26	20	Boring Bars up to 8" Diameter, Diamond Fly Cutters
1	SIP	52 CNC Jig Borer	24	36	37	Boring Bars up to 8" Diameter, Diamond Fly Cutters
1	SIP	5E CNC Jig Borer	18	26	20	Boring Bars up to 8" Diameter, Diamond Fly Cutters

## QUALITY CONTROL

QTY	MAKE	MODEL	X"	Y"	Z"	PC-DMIS CONTROL	ACCESSORIES
1	Micro Vu	Excel 662HC	35.5"	27"	10"		
1	Brown & Sharp	Advantage DCC CMM	32	48	24	Yes	LSPX1-S Analog Scanning Probe, Auto Probe Changer
1	Brown & Sharp	Global FX DCC CMM	27	39	24	Yes	TP20 Touch Trigger Probe, Renishaw PH10T Head, Auto Probe Changer
1	Brown & Sharp	Micro-Hite DCC CMM	18	20	13.5	Yes	Tesastar Touch Trigger Probe with Star Stylus Clusters
1	Brown & Sharp	Reflex CMM	18	20	13.5	No	
1	Brown & Sharp	Gage 2000 CMM	18	20	13.5	No	

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