



Equipment List

QTY	NO. OF SPINDLES	AVAIL. H.P.	DISTANCE BETWEEN CENTERS	WORKING TRAVEL					MANUFACTURER	CONTROL	BED (INCHES)	
				(INCHES)			(DEGREES)				X	Y
				X	Y	Z	A	B				

FIVE AXIS GANTRIES

1	2	25	50	600	52	18	±20	±20	Cincinnati Milicron	CNC-PC	720	102
1	3	75	40	603	84	18	±20	±20	Cincinnati Milicron	A2100	1368	160
1	3	30	40	996	84	18	±20	±20	Cincinnati Milicron	840D	1080	160
4	3	30	40	660	84	18	±20	±20	Cincinnati Milicron	840D	1080	160
1	3	30	40	852	84	18	±20	±20	Cincinnati Milicron	840D	1080	160
2	3	30	40	852	84	18	±20	±20	Cincinnati Milicron	80D	1080	160
1	3	30	40	852	84	18	±20	±20	Cincinnati Milicron	A2100	1080	160
1	1	30	---	459	100	39	190	360	Cincinnati Milicron	CM950	576	146
1	5	70	40	230	145	28	±30	±30	Cincinnati Milicron	Acramatic 950	5364	240
1	3	60	40	1200	114	28	±25	±25	Cincinnati Milicron	Acramatic 950	720	144
1	3	100	80	3300	145	28	±30	±30	Cincinnati Milicron	Siemens 2100	5364	240
2	3	100	80	3300	145	28	±30	±30	Cincinnati Milicron	Acramatic 950	5364	240
1	3	60	30	1332	68	28	±25	±25	Cincinnati Milicron	Acramatic 950	720	120
1	3	60	40	1200	114	28	±25	±25	Cincinnati Milicron	Acramatic 950	1332	144
1	1	50	---	1200	206	50	±95	360	Henri Line Macbormill	Acramatic 950	576	146
2	1	30	---	1128	80	24	±28	±26	Cincinnati Milicron	Acramatic 950	1260	70

FIVE AXIS HYDROTELS

3	1	15	---	120	30	12	+30 -20	+20 -30	Cincinnati Milicron	CNC-PC	157	29
2	1	20	---	80	30	24	+25 -25	+25 -25	Cincinnati Milicron	CNC-PC	84	33

QTY.	NO. OF PALLET	AVAIL. H.P.	DRUM CAPACITY	WORKING TRAVEL					MANUFACTURER	CONTROL	BED (INCHES)	
				(INCHES)			(DEGREES)				X	Y
				X	Y	Z	A	B				

FIVE AXIS MACHINING CENTERS

1	6	30	90	40	60	62	120	360	Cincinnati Milicron	CM950	31.5	31.5
1	2	30	90	60	60	62	150	360	Cincinnati Milicron	CM950	31.5	31.5
1	2	50	60	118	32	24	±30	±30	Mazak	Fanuc 15i	127	32
1	2	46	90	61	47.8	47.2	150	360	Cincinnati Milicron	A2100	31.5	31.5
2	1	30	N/A	144	70	24	±28	±26	Cincinnati Milicron	Acramatic 950	130	60
1	1	20	N/A	120	32	24	+26	+28	Cincinnati Milicron	Acramatic 950	121	30
2	1	20	N/A	80	30	24	+26	+28	Cincinnati Milicron	Acramatic 950	83.75	30
1	1	30	N/A	79	32	32	+30	+30	Rambaudi	Acramatic 950	89.5	25.75
1	1	26.8	21	80	30	30.3	+40	+40	Cincinnati Milicron	Acramatic A2100E	90.1	30.1
3	1	30	30	120	40	30	32	32	HAAS	HAAS	120	28

FIVE AXIS BRIDGE MILL

2	1	50	N/A	138	78	31	190	±200	Nocolas Correa	Fanuc 15-MB	157	49
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FOUR AXIS BORING MILL/ROTARY TABLE

1	1	30	N/A	144	72	36	---	360	Cincinnati Gilbert	AB7320	144	60
2	1	30	N/A	144	72	36	---	360	Cincinnati Gilbert	CNC-MC	144	48

FOUR AXIS HORIZONTAL

1	1	40	65	60	60	48	---	360	Cincinnati Milicron	Acramatic 950	39.5	39.5
1	1	50	90	51	43	44	---	360	Cincinnati Milicron	Aramatic 950	31.5	31.5
1	1	40	50	34.3	28	26	360	---	Kitamura	Fanuc	19.7	19.7

QTY	NO. OF SPINDLES	AVAIL. H.P.	DISTANCE BETWEEN CENTERS	WORKING TRAVEL					MANUFACTURER	CONTROL	BED (INCHES)	
				(INCHES)			(DEGREES)				X	Y
				X	Y	Z	A	B				

THREE AXIS GANTRIES

1	3	25	25(34)	792	88	18	---	---	Cincinnati Milicron	CNC-PC	912	102
1	4	10	20	432	88	18	---	---	Cincinnati Milicron	840D	552	126
1	3	20	40(25)	432	88	18	---	---	Cincinnati Milicron	CNC-PC	552	126
1	3	20	25(34)	432	52	18	---	---	Cincinnati Milicron	CNC-PC	552	102
1	4	20	20	432	52	18	---	---	Cincinnati Milicron	Fanuc 15-MB	552	102

THREE AXIS BRIDGES

1	3	15/30	38	172	50	18	---	---	Cincinnati Milicron	CNC-PC	198	114
1	3	10/20	22	244	32	18	---	---	Cincinnati Milicron	CNC-PC	270	60
1	3	40/20	30	172	100	18	---	---	Cincinnati Milicron	CNC-PC	198	96
1	3	30	30	144	78	28	---	---	Cincinnati Milicron	Acramatic 950	130	70
1	1	30	---	122	46	17	---	---	Cincinnati Milicron	Acramatic 950	160	36

THREE AXIS HYDROTELS

1	3	20	17.75	96	28	13	---	---	Cincinnati Milicron	CNC-PC	124	28
1	3	20	17.75	96	28	13	---	---	Cincinnati Milicron	CNC-PC	162	28
1	3	25	24	120	28	14	---	---	Cincinnati Milicron	CNC-PC	132	28
1	3	25	24	120	28	14	---	---	Cincinnati Milicron	CNC-PC	180	28
1	3	20	17.75	120	28	13	---	---	Cincinnati Milicron	CNC-PC	130	28
1	3	20/10	17.75	96	28	14	---	---	Cincinnati Milicron	CNC-PC	158	34
1	3	20	17.75	120	28	14	---	---	Cincinnati Milicron	CNC-PC	168	28
1	3	25	24	120	28	14	---	---	Cincinnati Milicron	CNC-PC	196	28
1	3	25	24	120	40	14	---	---	Cincinnati Milicron	CNC-PC	168	42
1	3	30	24	120	40	14	---	---	Cincinnati Milicron	CNC-PC	157	42
1	4	30	17.75	120	40	14	---	---	Cincinnati Milicron	CNC-PC	157	42
1	4	30	17.75	120	42	18	---	---	Cincinnati Milicron	CNC-PC	157	42
1	3	30	24	144	40	14	---	---	Cincinnati Milicron	CNC-PC	304	46
1	1	20	---	60	28	23	---	---	Rambaudi	AB-7320	146	27

QTY.	NO. OF PALLET	AVAIL. H.P.	DRUM CAPACITY	WORKING TRAVEL					MANUFACTURER	CONTROL	BED (INCHES)	
				(INCHES)			(DEGREES)				X	Y
				X	Y	Z	A	B				

THREE AXIS MACHINING CENTERS

1	2	35	60	78.74	45.28	23	---	---	Mazak	Mazatrol 640M	39.37	88.18
1	2	33	40	40.4	31.5	31.5	---	Index	Cincinnati Milicron	Cm900-MC	25.59	25.59
1	---	20	30	72	30	30	---	---	Cincinnati Heald	CNC-PC	72	36
1	2	20	30	44	36	28	---	360	Cincinnati Milicron	CNC-PC	32	32
1	---	20	41	60	32	30	---	---	Mazak	Fanuc-6M	109	31
1	2	10	45	26	26	26	---	---	Cincinnati Milicron	CM900-MC	18	18
1	---	35	30	126	55	23	---	---	Mazak	Mazatrol 640M	118	49
3	1	20	30	120	30	25	---	---	Cincinnati Milicron	Acramatic 850	122	29.75
1	1	15	24	44	16	20	---	---	Mazak	Mazatrol M32B	57.5	16.25
2	1	20	30	80	30	25	---	---	Cincinnati Milicron	Acramatic 900	83.75	26.4

1	1	15	30	80	30	25	---	---	Cincinnati Millicron	Acramatic 900	64	26
1	1	15	26	60	20	25	---	--	Cincinnati Millicron	Acramatic 850	64	24
1	1	15	26	40	20	25	---	---	Cincinnati Millicron	Acramatic 850	44	35
3	1	20	N/A	120	29	13	---	---	Cincinnati	Cincinnati	143	28
1	1	20	N/A	79	32	32	---	---	Rambaudi	Fanuc	77.5	29
1	1	22.5	21	22	16	20	---	---	Fadal	Fadal	29	16
2	1	22.5	21	40	20	20	---	---	Fadal	Fadal	48	20
3	1	30	21	60	30	30	---	---	Fadal	Fadal	52.5	30
2	1	30	21	80	30	30	---	---	Fadal	Fadal	82.5	30
2	1	20	30	120	32	30	---	---	HAAS	HAAS	120	28
1	1	20	0	94	20	22	---	---	K & T	Custom	94	20

QTY.	MAX. SWING	AVAIL. H.P.	DRUM CAPACITY	WORKING TRAVEL					MANUFACTURER	CONTROL	
				(INCHES)			(DEGREES)				
				X	Y	Z	A	B			

TWO AXIS LATHES

1	22.75	15	12	8.8	24.5	---	---	---	Hitachi Seiki	Fanuc GT	---
1	60	60	12	86	62	---	---	---	Giddings & Lewis	G&L 8000A	---
1	10	30	14	5	---	20	---	---	Cincinnati Millicron	Acramatic 900	---

QTY.	AVAIL. H.P.	DESCRIPTION	MANUFACTURER
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CUSTOM HINGE MANUFACTURING EQUIPMENT

6	5	"Gang Mill" Hinge Slotting Machine	Custom
1	5	Single Point Slotting Machine	Custom
1	5	Auto-Feed "Gang Mill" Slotting Machine	Custom
2	5	Semi Auto-Feed Gang Mill" Slotting Machine	Custom
4	N/A	Multi-Spindle Hinge Line Drilling Machines	Custom
4	N/A	Multi-Spindle "MS" Hinge Line Drilling Machines	Custom
3	N/A	Ream/Deburr Combo Machines	Custom
1	N/A	Automatic "MS" Hinge Deburr Machine	Custom

CNC TOOL GRINDING

4	---	6 Axis CNC Tool Grinding Center	Walter
1	10	Model #HS-87R 7-Axis CNC Tool & Cutter Grinder	Huffman
1	10	Model TG7 7-Axis CNC Tool & Cutter Grinder	Anca
1	25	Model TG7 7-Axis CNC Tool & Cutter Grinder	Anca

CONVENTIONAL EQUIPMENT

QTY.	AVAIL. H.P.	DESCRIPTION	MANUFACTURER
26	2	Series I2J Vertical Milling Machines	Bridgeport
2	2	Journeyman CNC Vertical Milling Machines	Tree
2	20	Horizontal Milling Machines TF-20	K&T
1	20	Vertical Milling Machine	K&T
1	7.5	Horizontal Milling Machine	K&T
1	7.5	Horizontal Milling Machine	Cincinnati Millicron
1	7.5	Vertical Milling Machine with Tracer	Rambaudi
1	1	Vertical Milling Machine with Tracer	Bridgeport
1	20	3 Spindle 28" Hydrotel with 30 Tracer	Cincinnati Millicron
1	7.5	Vertical Jig Borer	Fosdick
1	7.5	Spiramatic Jig Mill	Devlieg
1	30	Horizontal Jig Borer	G&L
1	---	Horizontal Broaching Machine 30" Stroke	Pioneer
8	---	Multispindle Drill Press	Various
35	---	Manual Tool Grinders	Various
5	---	Heavy Duty Metal Cutting Saws	Various
5	---	50-150 Ton Hydraulic Presses	Dake
1	---	Automatic Cylindrical Grinder	Kellenberger
5	---	Conventional Lathes	Various
3	---	Sliding Bed Gap Lathes w/ Hydraulic Tracers	LeBlond
10	5	Knee Type Vertical Mill (24" X 12" X 12")	Bridgeport

QTY.	DESCRIPTION	WORKING TRAVEL			OVERALL SIZE			MANUFACTURER
		(INCHES)			(INCHES)			
		X	Y	Z	X	Y	Z	

COORDINATE MEASURING MACHINES/MAJOR INSPECTION EQUIPMENT

QTY.	DESCRIPTION	X	Y	Z	X	Y	Z	MANUFACTURER
1	CMM	128	72	54	197	152	157	DEA, Model 34.06
1	CMM	76	48	32	113	58.5	122	Starrett, Model RCS 7648-32
1	CMM	79	51	39	113	65	138	DEA, Model 20.13.10
1	Digital Layout Table	544	28	40	560	100	96	Portage
1	CMM	196	98	59	---	---	---	DEA Alpha
1	CNC Model G-80	400	160	80	---	---	---	LK
1	CNC BM 1020	80	40	32	---	---	---	Mitutoyo
1	Manual Rapid Check	64	40	24	---	---	---	Starret
1	Bright-Apex 1230	47.5	118	39.5	62	157	---	Mitutoyo
1	Crysta-Apex 920	36	80	32	48	108	---	Mitutoyo