



CNC Equipment List

5-Axis Machining Centers

Equipment Model	Style	X-Axis	Y-Axis	Z-Axis	A-Axis	C-Axis	Other Information
Mazak HCR5000S	Horizontal	28.74"	28.74"	28.74"	-90°~+135°	±360°	18 Pallet Pool
Haas VF5-50 (2 Units)	Trunnion Table	50"	26"	25"			Full Contour
Fadal VMC 4525	Rotary Table	45"	25"	32"			Full Contour

Equipment Model	Bed Style	Chuck Size	Max Swing Over Carriage	Max Swing Over Ways	Max Center to Center	Other Information
DMG Mori CTX Beta 1250 TC	Turn-Mill	11.8"	Y-Axis ±4.92"	19.29"	57.87"	
DMG Mori CTX Gamma 2000TC	Turn-Mill	15.8"	Y-Axis ±7.9"	27.50"	89"	Simultaneous
DMG Mori CTX Gamma 2000TC	Turn-Mill	15.8"	Y-Axis ±7.9"	27.50"	89"	Lower Turret
DMG Mori CTX Gamma 3000TC	Turn-Mill	19.7"	Y-Axis ±16.5"	27.50"	120.10"	
Mazak Integrex i-400 (3 Units)	Turn-Mill	12.0"	Y-Axis 10.2"	25.90"	60"	Simultaneous

CNC Vertical Machining Centers

Equipment Model	X-Axis	Y-Axis	Z-Axis	Rotary Table	Other Information
Doosan DNM650	50"	26.4"	24.6"		8,000 RPM
Fadal VMC 15	22"	16"	28"	Full Contour	
Fadal VMC 40	40"	20"	20"		
Fadal VMC 4020 (2 Units)	40"	20"	20"		
Fadal VMC 8030	80"	30"	30"	Full Contour	10,000 RPM
Hyundai-Kia VX750	61"	29.5"	28.3"	Full Contour	8,000 RPM
Makino F9	63"	31.5"	25.6"	Full Contour	10,000 RPM
Mighty 2000 GXT Double Column	80"	72"	28"		
Mighty SW 323 Double Column	118"	90"	42"		
OKK VM76R	60"	29.6"	25.6"	Full Contour	
Okuma MX-45 VAE (2 Units)	30"	18.1"	17.7"		
Smart SM 800-APC	33.8"	23.6"	23.6"		12,000 RPM
SNK RB-6VM Gantry	246"	150"	63"	Right Angle Head w/1° Index	Five Face Machining
Supermax YCM-218B	83"	34"	30"		

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Doosan MV4020L	40"	20"	24.6"	Rotary 12" Full Contour	12,000RPM, Cat40, 20HP
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OKK KCV 800

120"

32.8"

28.3"

25" w/10.8" bore, Full Contour

13,000 RPM, Cat 50, 40 HP

Vertical Knee Mills

Alliant/Proto-Trak	30"	15"	5"	Manual
Chevalier/Proto-Trak	30"	15"	5"	Manual
Clausing/Proto-Trak	24"	15"	5"	Manual
Trak K3SX	32"	16"	15"	Manual
Trak LPM	31"	18.5"	21"	
Trak/Proto-Trak (2 Units)	32"	16"	20"	Manual

CNC Horizontal Machining Centers

Equipment Model	X-Axis	Y-Axis	Z-Axis	W-Axis	Quill Dia.	Rotary Table	Other Information
Doosan DBC-130	118.1"	78.7"	63.0"	27.6"	5.1"	Full Contour	63" x 71" Pallets (2)
Haas EC1600-3X	64"	40"	30"			Full Contour	
HNK HB-130S	78.7"	59.1"	51.2"	27.6"	5.1"	Full Contour	
Hyundai Kia KBN135	118.1"	78.7"	63"	27.6"	5.3"	Full Contour	
Kuraki KBM-11A	39.4"	39.4"	27.6"	11.8"	4.3"	Full Contour	
Kuraki KBM-11WA	78.7"	59.1"	57.1"	19.7"	4.3"	Full Contour	
Kuraki KBM-11X (2 Units)	59.1"	47.2"	27.6"	13.8"	4.3"	Full Contour	
Kuraki KBT-11WDXA	78.7"	59.1"	57.1"	19.7"	4.3"	Full Contour	
Kuraki KBT-13A	118.1"	90.5"	51.2"	27.6"	5.1"	Full Contour	
Kuraki KBT-13DX	118.1"	80.7"	51.2"	27.6"	5.1"	Full Contour	
Mazak FH10800	66.9"	55.1"	55.1"			Full Contour	39.3" Sq. Pallet
Mazak FH5800	22.1"	24.0"	22.1"			Full Index	19.7" Sq. Pallet
Mazak FH6000	31.5"	31.5"	34.7"			1 Degree Index	19.7" Sq. Pallet
Mazak FH6800	41.3"	31.5"	34.7"			1 Degree Index	24.8" Sq. Pallet
Mazak FH8800	51.1"	43.3"	39.4"			Full Index	31.5" Sq. Pallet
Mazak FH8800	51.1"	43.3"	39.4"			1 Degree Index	31.5" Sq. Pallet
Mazak HCN-6800	41.3"	35.4"	38.6"			Full Index	24.8" Sq. Pallet
Mazak HCN-8800 (2 Units)	55.1"	47.2"	52.2"			Full Contour	31.5" Sq. Pallet
OKK HM1250S	66.9"	55.1"	48.5"			1 Degree Index	
OKK HM1600	94.5"	64.96"	63"			Full Contour	
OKK HM40	24.4"	22"	22"			1 Degree Index	
Okuma MA-600 HB	39.4"	35.4"	39.4"			Full Contour	24.8" Sq. Pallet
Okuma MX-50 HB	27.5"	31.5"	27.5"			Full Index	19.7" Sq. Pallet

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OKK HM 1000	55.12"	42.31"	39.37"			Full B .001 Degree	
Kuraki KBT 11EZ	98.4"	70.86"	47.24"	19.86"	4.33"	Full B .001 Degree	U-Axis Contour Head
Kuraki KBT 11Z	98.4"	70.86"	47.24"	19.86"	4.33"	Full B .001 Degree	U-Axis Contour Head
Kuraki KBT 11WA (2 Units)	78.74"	59.06"	57.09"	19.69"	4.33"	Full B .001 Degree	U-Axis Contour Head
Hyundai-Wia KH1000	82.68"	53.15"	55.12"			1 Deg. Index	
Hyundai-Wia KH80	49.2"	39.4"	33.5"			1 Deg. Index	
Mazak 8800	55.12"	47.24"	52.17"			1 Deg. Index	

Mazak 8800	55.12"	47.24"	52.17"			Full Contour
Mazak 10800	66.93"	55.12"	60.04"			Full Contour
Mazak 10800HM	66.93"	55.12"	60.04"			Full Contour
Toyoda 1050FH (3 Units)	62"	55"	55"			Full Contour
Toyoda 1250SX (3 Units)	86.5"	63"	73"			Full Contour

Boring Bar

Scharman - Manual	31.8"	28"	39.4"		3.8"	Full Index	Manual
Hurco HBNX55i	55.1"	55.7"	43.3"	19.7"	4.33"	Full Contour	CNC

CNC Vertical Turning Centers

Equipment Model	Chuck Size	Max Swing	Max Under Rail	Max Z	Other Information
Doosan V8300 (2 Units)	21"	32.7"		30.7"	3 Jaw Power Chuck
Doosan VT1100	40"	43.3"		39.4"	4 Jaw Power Chuck
Doosan VT1100M	40"	43.3"		39.4"	Live Tooling, 3 Jaw Power Chuck
Dynamic KTM-12/16F	49.2"	65"	40.2"	35.4"	(16) Station, Live Tooling
HNK VTC 16/20 (60HP Table)	63"	79"	118"	47"	25HP Live Spindle, C-Axis
Hyundai Wia LV1100RM	32"	46"	39"	39.4"	3 Jaw Power Chuck
Hyundai Wia LV1100RM	32"	46"	39"	39.4"	3 Jaw Power Chuck
Hyundai Wia LV500R	18"	31.5"	21.7"	23.6"	
New Century VTL	82"	90"	75"	36"	Bullard Style, Pentagon Turret
New Century VTL	46"	60"	38"	36"	3 Jaw Power Chuck
New Century VTL	42"	54"	30"	36"	3 Jaw Power Chuck
New Century VTL	77"	90"	60"	39.5"	4 Jaw Manual
New Century VTL	72"	79.5"	40"	39.5"	4 Jaw Power Chuck, Independent
New Century VTL	56"	70"	42"	38"	4 Jaw Manual
New Century VTL	56"	70"	42"	38"	3 Jaw Power Chuck
Okuma-Howa 2SP-V80	32" x 2	39"		33"	3 Jaw Power Chuck
Samsung SLV 80M (2 Units)	24"	35"		31.5"	3 Jaw Power Chuck
Samsung SLV 1000M (2 Units)	32.0"	39.4"		37.6"	3 Jaw Power Chuck
Twin Merit 15 (2 Units)	15" x 2	20"			3 Jaw Power Chuck

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Hyundai LV 1100 R (4 Units)	40"	53.3"	39.4"		
HNK VTC 16/20R	63"	79"	65"	35.4"	Live Tooling, C-Axis
Samsung SLV 80	24"	35"	31.5"		
Samsung SLV 80 M	24"	35"	31.5"		Live Tooling
KTM-12/16 F	49.2"	65"	40.2"	35.4"	(8) Station Live Tooling

CNC Horizontal Turning Centers

Equipment Model	Bed Style	Chuck Size	Max Swing Over Carriage	Max Swing Over Ways	Max Center to Center	Other Information
Daewoo Puma 250	Slant	12"	13"	15"	23"	
Mazak Integrex 30	Turn-Mill	12"	13.5"	20"	60"	

Mazak Integrex 35		Turn-Mill	12"	13.5"	22"	60"	Y-Axis
Mazak Integrex 400Y		Turn-Mill	12"	13.5"	20"	40"	Y-Axis
Mazak M-5N (2 Units)		Flat-Bed	18"	13"	24"	120"	
Mazak M-5N (2 Units)		Flat-Bed	12"	13"	24"	80"	
Mazak Nexus QT 350-IIM		Slant	12"	13.5"	20"	40"	Live Tooling
Mazak Nexus QTN 350		Slant	12"	13"	18"	60"	
Mazak Nexus Q Turn 300-26 (2 Units)		Slant	12"	13"	18"	26"	3" Spindle Bore
Mazak Quick Turn 25L (2 Units)		Slant	12"	13"	15"	40"	
Mazak Quick Turn 300		Slant	12"	13"	18"	40"	
Mazak Super Quick Turn 300MY		Slant	12"	13"	18"	60"	Y-Axis
Mazak Super Quick Turn-30M		Slant	12"	13"	18"	60"	Live Tooling
Mazak Powermaster		Flat-Bed	24"	22"	35"	160"	
Mazak Powermaster		Flat-Bed	32"	22"	35"	120"	10.5" Spindle Bore
Mazak Powermaster		Flat-Bed	24"	22"	34"	168"	4" Spindle Bore
Mazak ST-60N		Slant	24"	30"	36"	100"	6" Spindle Bore
Mori Seiki TL 40		Slant	12"	15"	24"	80"	
Mori Seiki TL 40-Y		Slant	12"	15"	24"	80"	Live Tooling
Samsung SL 30C (4 Units)		Slant	12"	18.9"	25.6"	41.3"	3.6" Spindle Bore
Samsung SL 35		Slant	15"	16.50"	23.60"	60.00"	
Samsung SL 5500		Slant	24"	31.5"	35.4"	39.4"	3.6" Spindle Bore
Samsung SL 65 (3 Units)		Slant	24"	31.5"	35.4"	39.4"	5.5" Spindle Bore
Smart NL 6000		Slant	24"	31.5"	36"	60"	5.5" Spindle Bore
Smart NL 3000BL (2 Units)		Slant	12"	16"	23"	43.3"	3.6" Spindle Bore

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Mori Seiki SL603 (2 Units)		Slant	25"		35.4"	80"	10.8" Spindle Bore
Samsung SL 35		Slant	15"		23.6"	60"	4.6" Spindle Bore
Samsung SL 35M		Slant	15"		23.6"	60"	4.6" Spindle Bore

CNC/Manual Turning

Trak/Proto-Trak SLX		Flat-Bed	12"	14"	24"	55"	
Weiler E 80		Flat-Bed	12"	20"	31.5"	118"	4.2" Spindle Bore

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Weiler E 90 (2 Units)		Flat-Bed	32"	20.86"	35.4"	118"	14.5" Spindle Bore
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Manual Lathes

Monarch		Flat-Bed	36"	29"	44"	156"	
Nardini Nodus		Flat-Bed	8"	8"	16"	60"	
Schaerer		Flat-Bed	15"	17"	28"	120"	

Inspection Equipment

Equipment Model	CMM Type	Work Envelope	Max Table Load	Other Information
Hexagon One 7107	Bridge	27" x 39" x 27"	1,100 lbs	Auto Stylus Changer, Full Contact Scanning
Hexagon/DEA Global 203315 (2				

Units)	Bridge	79" x 130" x 59"	14,300 lbs	
Hexagon Global 9 Series 9158 Advantage	Bridge	35.4" x 59.1" x 31.5"	3,300 lbs	Auto Stylus Changer, Full Contact Scanning
Hexagon Romer Absolute 7540 Arm	Portable	157.5"		6-axis

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Romer Arm Mod. 7525				2.5 M/8.2 Feet Working Envelope
Hexagon/DEA Global 203315	Bridge	79" x 130" x 59"	14,300 lbs	38.9" Deep Probing, Infinite Wrist, Full Contact Scanning
Hexagon Global Image 123010	Bridge	47" x 118" x 39"	5,000 lbs	Auto Stylus Changer, Full Contact Scanning

CNC/Manual Cylindrical Grinders

Equipment Model	Max Swing	Max Center
Warner & Swasey Cylindrical	14"	120"
Mitsubishi CNC Cylindrical	10"	60"
Okuma GA-25T Cylindrical	7.9"	13.8"
Okamoto OGM - 1236 UNCIII	12"	36"

Ancillary Equipment

Equipment Description	
Straightening Press, Dake - 150 Ton	
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6-Axis Robotic Milling Cell w/Auto Tool Change Spindle, Fanuc	
ITS CBS-S25 Bar (Controlled Boring System) (2x) 2.677"-6.263" Dia. Range x 19" Depth	
Right Angle Head Attachment - 26" reach	
Straightening Press, Dake - 150 Ton	
ZX200 Cogsdill Contouring Head	
ZX420 Cogsdill Contouring Head (2x)	

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