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WORLD-CLASS PRECISION MACHINING

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CNC Equipment List

5-Axis Machining Centers

Equipment Model	Style	X-Axis	Y-Axis	Z-Axis	A-Axis	C-Axis	Other Information
Mazak HCR5000S w/MPP	Horizontal	28.74"	28.74"	28.74"	-90°~+135°	±360°	18 Pallet Pool
Mazak VARIAXIS i-700 w/MPP	Vertical	24.8"	43.31"	23.62"	150°	Full C	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
YCM CX4 (2 Units)	Rotary Table	25.59"	26.47"	18.9"	150°	360°	

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 (2 Units)	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"	27.5"	89"	Simultaneous
DMG Mori CTX Gamma 2000TC	Turn-Mill	15.8"	Y-Axis ±7.9"	27.5"	89"	Lower Turret
DMG Mori CTX Gamma 3000TC	Turn-Mill	19.7"	Y-Axis ±16.5"	27.5"	120.1"	
Mazak Integrex E-500HN	Turn-Mill	24"	Y-Axis 19.6"	32.6"	160"	Simultaneous
Mazak Integrex i-400 (3 Units)	Turn-Mill	12"	Y-Axis 10.2"	25.9"	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	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 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

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Doosan MDL 7500/50	60"	30"	24.6"	Rotary 12" Full Contour	6,000 RPM, CAT50, 30 HP
Doosan MV4020L	40"	20"	24.6"	Rotary 12" Full Contour	12,000 RPM, CAT40, 20 HP
Fadal VMC 4020	40"	20"	20"		
OKK KCV 800	120"	32.8"	28.3"	25" w/10.8" bore, Full Contour	13,000 RPM, CAT50, 35 HP
Smart SW-316	122.05"	63"	30.71"	Troyke 30" Full 4th Axis Rotary Table	6,000 RPM, CAT50, 25 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"	27.6"	5.1"	Full Contour	63" x 71" Pallets (2)
HNK HB-130S	78.7"	59.1"	51.2"	27.6"	5.1"	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"	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-5000 w/MPP (2 Units)	28.74"	28.74"	31.5"			Full Index	19.7" Sq. Pallet (10)
Mazak HCN-6800	41.3"	35.4"	38.6"			Full Index	24.8" Sq. Pallet
Mazak HCN-8800 (3 Units)	55.1"	47.2"	52.2"			Full Contour	31.5" Sq. Pallet
OKK HM1250S (2 Units)	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

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Hyundai Kia KBN135	118.1"	78.7"	63"	27.6"	5.3"	Full Contour	
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
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	
OKK HM 1000	55.12"	42.31"	39.37"			Full B .001 Degree	
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 (4 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 (60 HP Table)	63"	79"	118"	47"	25 HP Live Spindle, C-Axis
HNK VTC 28/30	110.2"	118.1"	78.7"	47"	25 HP 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 (3 Units)	18"	31.5"	21.7"	23.6"	3 Jaw Power Chuck
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	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"	39.4"		37.6"	3 Jaw Power Chuck
Twin Merit 15	15" x 2	20"			3 Jaw Power Chuck
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HNK VTC 16/20R	63"	79"	65"	35.4"	Live Tooling, C-Axis
Hyundai LV 1100 R (4 Units)	40"	53.3"	39.4"		
KTM-12/16 F	49.2"	65"	40.2"	35.4"	8 Station Live Tooling
O-M Neo 20EX Alpha BCD	79"	98"	78"	43"	24 Station Live Tooling, Right Angle Head
Samsung SLV 80	24"	35"	31.5"		
Samsung SLV 80 M	24"	35"	31.5"		Live Tooling
Toshiba TUE15	59"	70.87"	59.06"	35.4"	

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 (2 Units)	Flat-Bed	24"	22"	35"	160"	4" Spindle Bore
Mazak Powermaster	Flat-Bed	32"	22"	35"	120"	10.5" 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 (2 Units)	Slant	12"	18.9"	25.6"	41.3"	3.6" Spindle Bore
Samsung SL 35	Slant	15"	16.5"	23.6"	60"	
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
Smart NL 2500	Slant	10"	18.9"	25"	29.3"	2.75" Spindle Bore

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Mori Seiki SL603 (2 Units)	Slant	25"		35.4"	80"	10.8" Spindle Bore
Samsung SL 30C (2 Units)	Slant	12"	18.9"	25.6"	41.3"	3.6" 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 TRL 30120RX	Gap Bed	20"	21.2"	33"	118"	
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"	

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Kingston HD2690	Gap Bed	19.25"	17.5"	35.1"	90"	
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Inspection Equipment (PC-DMIS Programming System)

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
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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
Mitsubishi MD+Pro III Wire Cut EDM - 15.7" X 11.8" X 8.7" Cut Area, 31.9" X 27.6" X 8.5" Workpiece Maximum
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)

CAM Programming Systems

Software Description
Mastercam® 4-Axis and 5-Axis Seats
ESPRIT® 5-Axis Seats
FeatureCAM®
VERICUT® - CNC Machine Simulation Software

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