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CNC HORIZONTAL TURNING CENTERS

Equipment Model	Bed Style	Chuck Size	Max Swing Over Carriage	Max Swing Over Ways	Max Center to Center	Other Information
<i>Brookfield, WI</i>						
Daewoo Puma 250	Slant	12"	13"	15"	23"	
Daewoo Puma 250	Slant	12"	13"	15"	23"	
Daewoo Puma 250M	Slant	12"	13"	15"	23"	Live Tooling
DMG Mori CTX Beta 1250 TC	Turn-Mill	11.8"	Y-Axis ±4.92"	19.29"	57.87"	5-Axis
DMG Mori CTX Gamma 2000TC	Turn-Mill	15.8" (2)	Y-Axis ±7.9"	27.5"	89"	5-Axis simultaneous
DMG Mori CTX Gamma 2000TC	Turn-Mill	15.8" (2)	Y-Axis ±7.9"	27.5"	89"	5-Axis, Lower Turret
DMG Mori CTX Gamma 3000TC	Turn-Mill	19.7	Y-Axis ±16.5"	27.5"	120.10"	5-Axis
Mazak Integrex 30	Slant	12"	13.5"	20"	60"	
Mazak Integrex 35	Slant	12"	13.5"	22"	60"	Y-Axis
Mazak Integrex 400Y	Slant	12"	13.5"	20"	40"	Y-Axis
Mazak Integrex i-400 (2)	Turn-Mill	12"	Y-Axis 10.2"	25.9"	60"	5-Axis simultaneous
Mazak M-5N	Flat-Bed	18"	13"	24"	120"	
Mazak M-5N	Flat-Bed	18"	13"	24"	120"	
Mazak M-5N	Flat-Bed	12"	13"	24"	80"	
Mazak M-5N	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 Quick Turn 300-26	Slant	12"	13"	18"	26"	3" Spindle Bore
Mazak Nexus Quick Turn 300-26	Slant	12"	13"	18"	26"	3" Spindle Bore
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 Quick Turn 25L	Slant	12"	13"	15"	40"	
Mazak Quick Turn 25L	Slant	12"	13"	15"	40"	
Mazak Quick Turn 300	Slant	12"	13"	18"	40"	
Mazak ST-60N	Slant	25"	30" Chuck OD	36" Chuck ID	100"	12" Spindle Bore
Mazak Super Quick Turn 300MY	Slant	12"	13"	18"	60"	Y-Axis
Mazak Super Quick Turn-30M	Slant	12"	13"	18"	60"	Live tooling
Mori Seiki TL 40	Slant	12"	15"	24"	80"	
Mori Seiki TL 40-Y	Slant	12"	15"	24"	80"	Live Tooling
Samsung SL-30C	Slant	12"	18.9"	25.6"	41.3"	3.6" Spindle Bore
Samsung SL-30C	Slant	12"	18.9"	25.6"	41.3"	3.6" Spindle Bore
Samsung SL-30C	Slant	12"	18.9"	25.6"	41.3"	3.6" Spindle Bore
Samsung SL-30C	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	Slant	24"	31.5"	35.4"	39.4"	5.5" Spindle Bore
Samsung SL-65	Slant	24"	31.5"	35.4"	39.4"	5.5" Spindle Bore
Samsung SL-65	Slant	24"	31.5"	35.4"	39.4"	5.5" Spindle Bore
<i>Houston, TX</i>						
Mori Seiki SL603	Slant	25"	n/a	35.4"	80"	10.8" Spindle Bore
Mori Seiki SL603	Slant	25"	n/a	35.4"	80"	10.8" Spindle Bore
Samsung	SL35	15"	n/a	23.6"	60"	4.6" Spindle Bore
Samsung	SL 35M	15"	n/a	23.6"	60"	4.6" Spindle Bore



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CNC HORIZONTAL TURNING CENTERS (continued)

CNC/MANUAL TURNING

Brookfield, WI

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

Houston, TX

Weiler E 90	Flat-Bed	32"	20.86"	35.4"	118"	14.5" Spindle Bore
Weiler E 90	Flat-Bed	32"	20.86"	35.4"	118"	14.5" Spindle Bore

MANUAL LATHES

Brookfield, WI

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

CNC VERTICAL TURNING CENTERS

Equipment Model	Chuck Size	Max Swing	Max Under Rail	Max Z	Other Information
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Brookfield, WI

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	47"	59"	39"	36"	4 Jaw manual
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)	24"	35"		31.5"	3 Jaw power chuck
Samsung SLV 1000M (2)	32.0"	39.4"		37.6"	
Twin Merit 15	15" x 2	20"			
Twin Merit 15	15" x 2	20"			
Twin Merit 15	15" x 2	20"			

Houston, TX

Hyundai LV 1100 R	40"	53.3"	39.4"	n/a	
Hyundai LV 1100 R	40"	53.3"	39.4"	n/a	
Hyundai LV 1100 R	40"	53.3"	39.4"	n/a	
Hyundai LV 1100 R	40"	53.3"	39.4"	n/a	
Samsung SLV 80	24"	35"	31.5"	n/a	
Samsung SLV 80 M	24"	35"	31.5"	n/a	Live Tooling
KTM-12/16 F	49.2"	65"	40.2"	35.4"	(8) Station Live Tooling



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CNC HORIZONTAL MACHINING CENTERS

Equipment Model	X-Axis Travel	Y-Axis Travel	Z-Axis Travel	W-Axis Travel	Quill Dia.	Rotary Table	Other Information
<i>Brookfield, WI</i>							
Doosan DBC-130	118.1"	78.7"	63.0"	27.6"	5.1"	Full Contour	(2) 63" x 71" Pallets
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	59.1"	47.2"	27.6"	13.8"	4.3"	Full Contour	
Kuraki KBM-11X	59.1"	47.2"	27.6"	13.8"	4.3"	Full Contour	
Kuraki KBM-11X	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)	55.1"	47.2"	52.2"			Full Contour	31.5" Sq. Pallet
OKK HM-1250S	66.9"	55.1"	48.5"			1 Degree Index	
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
SNK RB-6VM	246"	150"	23.6"	63"	11.8"	C-Axis 1 Degree Index	Five Face Machining
<i>Houston, TX</i>							
OKK HM 1000	55.12"	42.31"	39.37"	n/a	n/a	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	78.74"	59.06"	57.09"	19.69"	4.33"	Full B .001 Degree	U-Axis Contour Head
Kuraki KBT 11WA	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"	n/a	n/a	1 Deg. Index	
Hyundai-Wia KH80	49.2"	39.4"	33.5"	n/a	n/a	1 Deg. Index	
Mazak 8800	55.12"	47.24"	52.17"	n/a	n/a	1 Deg. Index	
Mazak 8800	55.12"	47.24"	52.17"	n/a	n/a	Full Contour	
Mazak 10800	66.93"	55.12"	60.04"	n/a	n/a	Full Contour	
Mazak 10800HM	66.93"	55.12"	60.04"	n/a	n/a	Full Contour	
Toyoda 1050FH (3)	62"	55"	55"	n/a	n/a	Full Contour	
Toyoda 1250SX	86.5"	63"	73"	n/a	n/a	Full Contour	
Toyoda 1250SX	86.5"	63"	73"	n/a	n/a	Full Contour	
Toyoda 1250SX	86.5"	63"	73"	n/a	n/a	Full Contour	



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CNC HORIZONTAL MACHINING CENTERS (continued)

BORING BAR

Brookfield, WI

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 MACHINING CENTERS

Equipment Model	X-Axis Travel	Y-Axis Travel	Z-Axis Travel	Rotary Table	Other Information
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Brookfield, WI

Daewoo DMV 500	40"	19.7"	20"		10,000 RPM
Doosan DNM650	50"	26.4"	24.6"		8,000 RPM
Fadal VMC 15	22"	16"	28"	Full Contour	
Fadal VMC 2016	20"	16"	16"		
Fadal VMC 40	40"	20"	20"		
Fadal VMC 4020	40"	20"	20"		
Fadal VMC 4020	40"	20"	20"	Full Contour	
Fadal VMC 4020	40"	20"	20"		
Fadal VMC 4525	45"	25"	32"	Full Contour	2-Axis Rotary Table
Fadal VMC 8030	80"	30"	30"	Full Contour	10,000 RPM
Haas VF5-50	50"	26"	25"	Full Contour	2-Axis Trunnion table
Haas VF5-50	50"	26"	25"	Full Contour	2-Axis Trunnion table
Hyundai-Kia VX750	61"	29.5"	28.3"	Full Contour	8,000 RPM
Kuraki KMV-130 Double Column	98.4"	51.2"	21.7"	Full Contour	55" between columns
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	30"	18.1"	17.7"		
Okuma MX-45 VAE	30"	18.1"	17.7"		
Smart SM 800-APC	33.8"	23.6"	23.6"		12,000 RPM
Supermax YCM-218B	83"	34"	30"		

Houston, TX

Quantum 1000	42"	24"	25.6"	25" w/10.8" bore, Full Contour	6,000 RPM, Cat 50, 25 HP
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

Brookfield, WI

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	32"	16"	20"	Manual
Trak/Proto-Trak	32"	16"	20"	Manual



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INSPECTION EQUIPMENT

Equipment Model	CMM Type	Work Envelope	Max Table Load	Other Information
<i>Brookfield, WI</i>				
Hexagon One 7107	Bridge	27" x 39" x 27"	1,100 lbs	Auto stylus changer, full contact scanning
Hexagon/DEA Global 203315	Bridge	79" x 130" x 59"	14,300 lbs	
Hexagon/Brown & Sharpe Global 123010	Bridge	47" x 118" x 39"	4,900 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
<i>Houston, TX</i>				
Romer Arm mod. 7525				2.5 M8.2 Ft working envelope
Hexagon/DEA Global 203315	Bridge	79" x 130" x 59"	14,300 lbs	38.9" deep probing, infinite wrist, full contact scanning

ANCILLARY EQUIPMENT

Brookfield, WI

Robot - Machining Cell, Fanuc	M-410i
Assembly Press, Eitel	RP-10
Assembly Press, Greenerd	7 Ton
Honing Machines, Sunnen (2)	EC-3500
Straightening Press, Dake	150 Ton

Houston, TX

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
Right Angle Head Attachment - 26" reach
ZX200 Cogsdill Contouring Head
ZX420 Cogsdill Contouring Head (2x)

CNC & MANUAL CYLINDRICAL GRINDERS

Equipment Model	Max Swing	Max Center
<i>Brookfield, WI</i>		
Warner & Swasey Cylindrical	14"	120"
Mitsubishi CNC Cylindrical	10"	60"
Okuma GA-25T Cylindrical	7.9"	13.8"
Okuma OGM - 1236 UNCIII	12"	36"