



MACHINES & EQUIPMENT



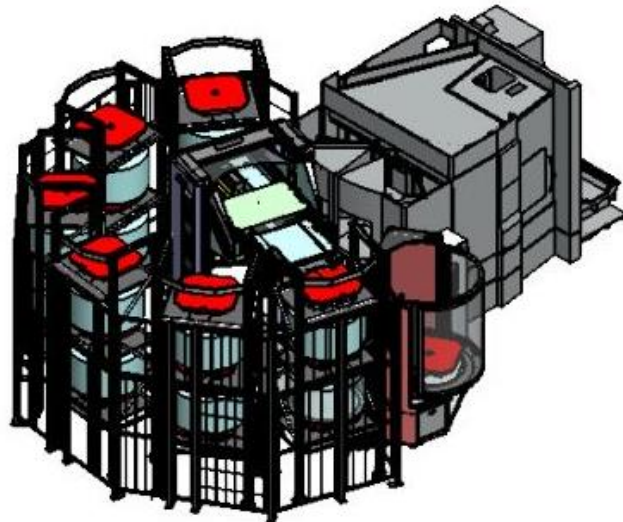
Brantford Site

5 AXIS CNC MILLING

Machine Name	X travel (in/mm)	Y Travel (in/mm)	Z Travel (in/mm)	A Travel (deg)	B Travel (deg)	C Travel (deg)	V Travel (in/mm)	Spindle Speed (RPM)	Spindle Speed (RPM)	Spindle Power (HP/kw)	C Table size (in/mm)
MECOFF AGILE M3 (Universal)	315/8001	49/1244.6	107.7/2735.58	180 deg	360 deg	360 deg	31.5/800.1	6000	12000	35/26	59x59 (1498.6x1498.6)

MULTI-PALLET CNC MILLING

Machine Name	X travel (in/mm)	Y Travel (in/mm)	Z Travel (in/mm)	Spindle Speed (RPM)	Spindle Power (HP/kw)	No. of Pallets	Pallet Size (in/mm)	
Matsuura H.Plus-630	41.33/1050	36.2/920	38.97/990	10,000	40/35	18	12 Positions (49.2 /1250) Dia. x (29.5 /750) H	6 Positions (49.2 /1250) Dia. x (51 /1300) H



4 AXIS CNC MILLING

Machine Name	X travel (in/mm)	Y Travel (in/mm)	Z Travel (in/mm)	W Travel (in/mm)	B Travel (deg) Rotary Table	B Tilting Table/Head (Deg)	Table Size (in/mm)	Spindle Speed (RPM)	Spindle Power (HP/kw)
TOSHIBA BTD-10 R16 - CNC HBM	62.9/1598	49.2/1250	44.5/1130	19.7/500	360/0.001		44.1x49.2 (1120x1067)	2500	50/37.2
TOSHIBA BTD-11 R16 - CNC HBM	62.9/1598	49.2/1250	44.5/1130	19.7/500	360/0.001		44.1x49.2 (1120x1067)	2500	50/37.2

VERTICAL BORING MILLS

Machine Name	Table dia. (in/mm)	Max Swing (in/mm)	Max Turning Height (in/mm)	Table Speed (RPM)	X Hor. Travel of rail head (in/mm)	Z Vert. Travel of arm (in)	Spindle Drive Motor (kw)
TOSHIBA TSS-C 30/55 TURN MILL - CNC	118/3000	216.5/5500	102/2590	1-1500	84.6/2150	59/1500	18.5
STANKO 10' TWIN - MANUAL	110/2794	120/3048	84/2134	0-40	55/1397	84/2134	40
TOSHIBA TUE 200(S)	78.74/2000	94.48/2400	61.02/1550	1-240	53.15/1350	35.43/900	18.5
O-M NEO 16 - CNC	63/1600	78.7/2000	59/1500	1-250	63.3/1608	39.3/1000	37
TOS SKQ-12NC - CNC	49/1245	62/1575	35/900	10-250	36/915	39/990	37

Production Machines

Machine Name	X travel (in/mm)	Y Travel (in/mm)	Z Travel (in/mm)	W Travel (in/mm)	B Travel (deg) Rotary Table	B Tilting Table/Head (Deg)	Table Size (in/mm)	Spindle Speed (RPM)	Spindle Power (HP/kw)
KITAMURA X-630i - CNC HBM (DUEL PALLET)	41.3/1050	33.4/850	35.4/900		360/0.001		24.8x24.8 (630x630)	12000	35/26
DMG MORI ecoMILL - CNC MILL	29.5/750	23.6/600	20.5/520		360/0.001	-10/+95	31.5x24.4 (800*630)	12000	13/9
FADAL VMC-6030 - CNC VMC	60/1520	30/760	26/660		360/0.001		62.5x30 (1587x762)	10000	15/1.2
FORTWORTH G450B - MANUAL VM	37.4/950	12.6/320	18.5/470	33/840		-45/+45	51x12 (1295x305)	3600	5.2/39
HOLKE - F 10V - MANUAL VM	31.5/800	15.7/398	16.1/408	16/406		0-90	44.1/10 (1120x254)	2300	5/3.7
HITACHI SEIKI 2ML-P - MANUAL HM	28/711	11.8/300	15.7/399			-90/+90	53.1x12.2 (1350x310)	2000	13.5/10
TOS W100 - MANUAL HBM	63/1600	44/1120	49.2/1250	36/914	360		49x49 (1245x1245)	1120	15/11

Production Machines

Machine Name	Max. Turning dia. (in/mm)	X-cross travel (in/mm)	Z-long. Travel (in/mm)	C-Axis (RPM)	Max Swing (in/mm)	Sing in gap (in/mm)	Swing over cross slided (in/mm)	Driver Power (40/100% ED)(kw)
DMG MORI CTX510 TURN MIL - CNC	18.3/464	11.8/300	41.3/1049	0-100	26.8/680		18.3/465	33/22
YANG ML 55A - CNC LATHE	21.6/548	13.8/350	43.3/1100		28.4/720		28/710	26
YANG ML 300 - CNC LATHE	14.9/378	9.4/238	23.6/600		23.6/600		11.8/300	15/12
TOS TRENCIN SN-63 C - MANUAL LATHE	20/508	16/406	60/1524		25/635	36/914	13.5/340	7.5
HWACHEON HL580 - MANUAL LATHE	18/457	9.5/241	79.5/2019		22.8/579	31/787	14.1/360	15
STANKO - MANUAL LATHE	20/508	14/355	59/1500		27.5/698	26.5/673	N/A	18.5

Casting, Furnaces & Metal Spray

Spray Static Pour Spin Cast TIG	Spin Casting Machines	Max Diameter (in/mm)	Max Length (in/mm)
	1	76/1930	68/1727
	2	33/838	24/610

Ovens	Height (in/mm)	Width (in/mm)	Depth (in/mm)	Max Temp ('C/'F)
Electric	57/1448	38/965	32/813	260/500
Gas Fired 1	120/3048	120/3048	120/3048	455/850
Gas Fired 2	48/1219	48/1219	48/1219	455/850

Blasting Cabinets	Height (in/mm)	Width (in/mm)	Depth (in/mm)
1	96/2440	96/2440	102/2590
2	93/2362	92/2337	102/2590
3	31/787	41/1041	47/1194
4	31/787	41/1041	47/1194
5	31/787	41/1041	47/1194

Full metal spray capabilities
Babbitt
Austenitic steels
Bronze
Metal Spray System
Metal Arc Spray
Powder Spray

Inspection room

- Climate Controlled Inspection Room
- Global CMM Machine

Model	Measuring Range in/mm			Distributed Workpiece Mass lb / kg
	X	Y	Z	
12.15.10	47.24/1200	59.06/1500	39.37/1000	3968 /1800

- Machine Shop Measuring Equipment
- Portable X-Ray Fluorescent Spectrometer
- NDE Services (In House & Subcontract)

Cranes and Facility

All Housed in a 35,000 Sq. Ft, Sprinkle Head Building up to 35' under the hook

5 Blasting Facilities including walk in 2 Ton Cabinet (8' x 8' x10') of Various Mediums

Crane List	Quantity
2 Ton O/H Crane / 0.5 Ton Crane	1
20 Ton O/H Crane	1
7 Ton O/H Crane	1
10 Ton O/H Crane	1
15 Ton O/H Crane	2

Auxillary Equipments
Compressors
Welding Machines
Superfinishing Capabilities
EDM Machine

A light gray map of North America, including the United States and Canada, is shown in the background. Overlaid on the map is the large, bold, dark blue text 'CBB'.

CBB

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