



MACHINES & EQUIPMENT



Brantford Site

WE MAKE BABBITT BEARINGS &....

Canadian Babbitt Bearings Ltd., is the North American leader in the refurbishment, design and manufacture of Babbitt Bearings for the Hydro, Power Generation and Marine markets.



Our skill sets are based on many years of experience, but Babbitt Bearings is not the only product **CBB** supplies....



Babbitt Bearings
Journal & Guide Bearings
3in (75mm) to 74in (2.13m) Bore

Thrust Pads and Tilting Pad Bearings
up to 18ft (5.4m) outside diameter

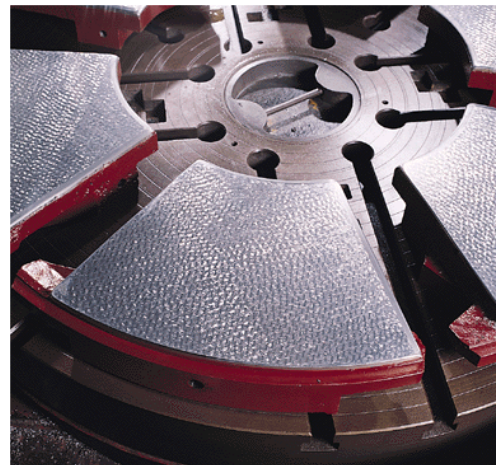
CBB ENGINEERED BEARINGS

Thrust Bearings and Assemblies

- Tilting Pad
- Tapered Land
- Bumper Thrust Faces
- Spring Bed Supported
- Turbine Thrust Bearing Runner Plates

Journal Bearings and Assemblies

- Hydro Guide Bearings
- Hydrogen Seals
- Axial Grooved
- Preloaded
- Three-lobe
- Pressure Dam
- Mechanical Tilting Pad
- Insulated Motor Bearings
- Dragline Bearings
- Pinion Stand Bearings
- SAG Mill Bearings
- Turbine Bearings
- Trunnion Bearings
- Marine Bearings



CBB TURNING



Horizontal Turning	Max. turning dia. (in/mm)	X-Cross travel (in/mm)	Z-long. Travel (in/mm)	C- Axis (RPM)	Max swing (in/mm)	Swing in gap (in/mm)	Swing over cross slides (in/mm)	Drive power (40/100% ED) (kw)
DMG MORI CTX510 TURN MILL	18.3/464	11.8/300	41.3/1049	0-100	26.8/680		18.3/465	33/22
YANG ML 55A	21.6/548	13.8/350	43.3/1100		28.4/720		28/710	26
YANG ML 300	14.9/378	9.4/238	23.6/600		23.6/599		11.8/300	15/12
TOS TRENCIN SN-63 C	20/508	16/406	60/1524		25/635	36/914	13.5/340	7.5
HWACHEON HL580	18/457	9.5/241	79.5/2019		22.8/579	31/787	14.1/360	15
STANKO	20/508	14/355	59/1500		27.5/698	26.5/673	N/A	18.5

CBB VERTICAL BORING



Vertical Boring Mills	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	118/3000	216.5/5500	102/2590	1-1500	84.6/2150	59/1500	18.5
O-M NEO 16	63/1600	78.7/2000	59/1500	1-250	63.3/1600	39.3/1000	37
TOS SKQ-12NC	49/1240	62/1575	35/900	10-250	36/910	39/990	37
STANKO 55" 1516	55/1400	62/1570	41/1040	0-200	41/1040	35/890	30

CBB MILLING



New Mecof Agile M3 5-Axis HBM 8m travel, installed June 2016

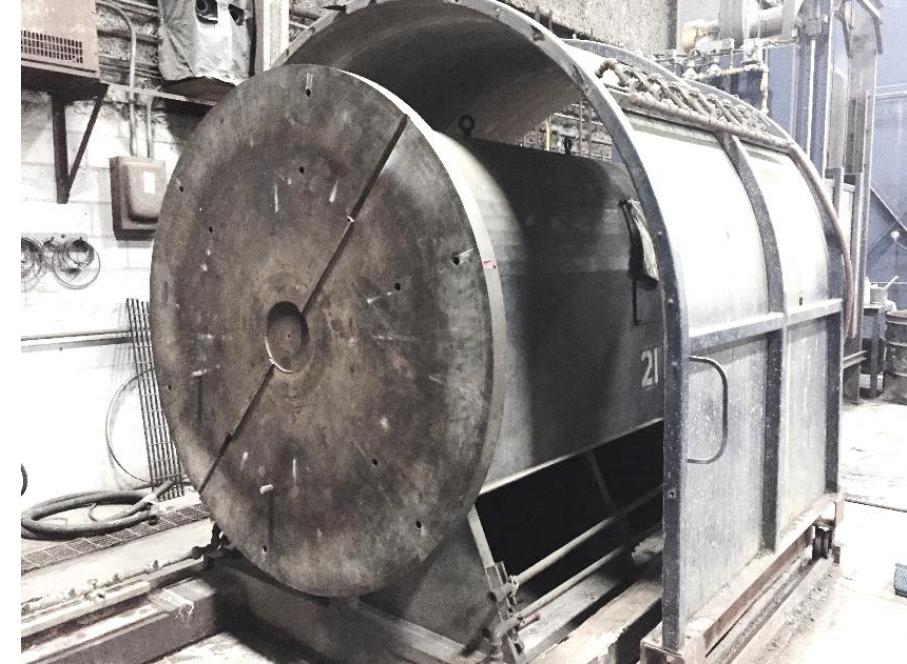
Milling Machines	X Travel (in/mm)	Y Travel (in/mm)	Z Travel (in/mm)	W Travel (in/mm)	B Travel (deg) Rotary Table	B Tilting Table/Head (deg)	Table size (in/mm)	Spindle speed (RPM)	Spindle Power (HP/kw)
Toshiba BTD-11 R16 HBM	62.9/1580	49.2/1067	44.5/1130	19.7/500	360/0.001		44.1x49.2 1120x1067	2500	50/37.2
Toshiba BTD-11 R16 HBM	62.9/1580	49.2/1067	44.5/1130	19.7/500	360/0.001		44.1x49.2 1120x1067	2500	50/37.2
KITAMURA HX-630i HMC	41.3/1050	33.4/850	35.4/900		360/0.001		24.8x24.8 630x630	12000	35/26
DMG MORI ecoMill 70 VMC	29.5/750	23.6/600	20.5/520		360/0.001	-10/+95	31.5x24.4 800x630	12000	13/9
Fadal VMC-6030 VMC	60/1520	30/760	26/660		360/0.001		62.5x30 1587x762	10000	15/11.2
Fadal VMC-6030 VMC	60/1520	30/760	26/660		360/0.001		62.5x30 1587x762	10000	15/1.2
Heckert Union BFT-110/6 HBM	80/2030	63/1600	58/1470	27/685	360		55x63 1397x1600	1120	53/40
TOS W100 HBM	63/1600	44/1120	49.2/1250	36/914	360		49x49 1245x1245	1120	15/11
STANKO 2A620 HBM	20/1270	37/940	40/1016	28/710	360/0.05		44x49 1120x1245	1600	13.5/10
Fortworth G450B VM	37.4/950	12.6/320	18.5/470	33/840		-45/+45	51x12 1295x305	3600	5.2/3.9
Holke - F 10V VM	31.5/800	15.7/398	16.1/408	16/406		0-90	44.1x10 1120x254	2300	5/3.7
Hitachi Seiki 2ML-P HM	28/711	11.8/300	15.7/399			-90/+90	53.1x12.2 1350x310	2000	13.5/10

CBB CASTING & FURNACES

Spray Static Pour Spin Cast	Spin Casting Machines	Max Dia (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



New 2016: 20ft by 20ft by 44ft Blast & Paint Facility

CBB PORTABLE CMM & LASER SCANNING

Romer 7525Si Absolute 7 Axis portable CMM with integrated



Measuring Range	Probing Point Repeatability	Probing Volumetric Accuracy	Scanning System Accuracy
2.5m / 8.2ft.	0.027mm / 0.0011 in	±0.038mm / 0.0015 in.	0.063mm / 0.0025 in.

- Tesa Probe
- Integrated Scanning System
- PC-DMIS CAD++Scanning + Meshing

This system facilitate full inspection of large components with PC-DMIS generated reports.

Integrated Scanning permits surface geometry capture and export to CAD and inspection from CAD model

CBB uses  SOLIDWORKS CAD

This system is suitable for in-the-field inspection



CBB CMM GLOBAL PERFORMANCE | 2.15.10

- High-resolution Metallur scales
- Tesa Touch Trigger Probe
- Tesa Motorized Probe
- PC-DMIS CAD with Autopath

PC-DMIS CAD software allows the import and export of CAD data. Geared primarily towards prismatic applications, the CAD package allows the import of wire frame and surface data. Programs may be created directly from the CAD model.

CBB uses  SOLIDWORKS CAD





Russell Industries Corp

ENGINEERED BEARING SOLUTIONS

WWW.CBB.CA

CANADIAN BABBITT BEARINGS LTD.
64 DALKEITH DRIVE
BRANTFORD ON N3P 1N6
(519) 752-5471
(800) 963-9863
SALES@CBB.CA