



B.C. INSTRUMENTS

A DIVISION OF BC MACHINING TECHNOLOGIES INC.
 41 Proctor Road, Schomberg, Ontario L0G 1T0
 TEL: (416) 324-3240, (905) 939-7323 FAX: (905) 939-8206

MILLING

Qty	Type	Model	Description
1	DECKEL MAHO	DMU50	Mill 5-axes machining up to 5-axes simultaneous machining
1	HERMLE	C-30	Full 5-Axis Machining Center 32 tool ATC, maximum travel 650mm x 600mm x 500mm, 18000 rpm HSK A63 spindle, Heidenhain control.
1	HERMLE	C-32	Full 5-Axis Machining Center 36 tool ATC, maximum travel 650mm x 650 mm x 500mm, 18000 rpm HSK A63 spindle, Heidenhain control
1	HERMLE	C-250	Full 5-Axis Machining Center 30 tool ATC, maximum travel 600mm x 550mm x 450mm, 18000 rpm HSK A63 spindle, Heidenhain control
1	HAAS	VF 2YT	20 ATC Pocket Carousel, 762mm x 508mm x 508mm
1	HAAS	VF-2SSYT	30+1 ATC Side-mount, 3 Axis, 762mm x 508mm x 508mm
1	HAAS	VF-2TR	Verticle-15,000 rpm spindle, 25 tool ATC, 760mm x 400mm x 500mm
1	HAAS	VF3	
3	HAAS	VF-3TR	Verticle-20 tool ATC, maximum travel 1016mm x 508mm x 635 mm, with TR210 Trunnion table
1	MORI SEIKI	NH 5000	Horizontal 120 Tool ATC with 8 Pallet Pool, maximum travel 650mm x 600 x 670
1	MORI SEIKI	NMV 5000 DCG	5 Axis Vertical Mill maximum travel 730mm x 510mm x 510mm
1	MORI SEIKI	DURAVERTICAL 5100	CNC 3 Axis Mill maximum travel 1049mm x 530mm x 510mm
1	MORI SEIKI	DMG DURAVERTICAL 1035 ECO	CNC 3 Axis Mill M730BM Control Coolant Thru Spindle (Chip Blaster D30-70) CAT 40 12,000 rpm 15hp 30 Station ATC Table Size: 47.2" x 22"
1	MORI SEIKI	DMG NMV 3000006	5 Axis Mill High-precision, 5-axis control vertical machining center that uses DDM on rotary axes

TURNING

Qty	Type	Model	Description
1	CHIRON	715 two+	2 spindle with full upper 5-axis milling and lower turret, 4" through spindle, 40" max length, automated gantry load and unload, and workpiece storage cabinet
1	CITIZEN	Cincom L32 VIII	Guide bushing or non-guide bushing, 2 spindles, live tools, B-Axis, 8ft bar feeder. 32mm max diameter, 12mm max drilling diameter
4	CITIZEN	Cincom L32 XII	Guide bushing or non-guide bushing, 2 spindles, live tools, B-Axis, 8ft bar feeder. 32mm max diameter, 12mm max drilling diameter.
1	GILDIMEISTER	CTX 410	Single spindle, single turret-10" max chuck dia. 2.6" max bar Maximum travel 320mm x 600mm
1	HAAS	TL-1	Grid Winding Lathe maximum travel 406mm x 762mm
5	HARDINGE	Conquest GT	Single spindle – gang style turret, 2 axis, collet chuck or air chuck.
6	HARDINGE	CONQUEST GT-27SP	Single spindle – gang style turret, 2 axis, air chuck, robotic loading and unloading capability.
4	HARDINGE	CONQUEST T42SP	Single spindle, single turret, collet chuck, 2.65" bar capacity, 13.25" max diameter, 20.9" max length.
1	HARDINGE	T-51SP	CNC Lathe single turret 313mm max turning Dia
1	HARDINGE	CONQUEST MG	8000rpm single spindle, 2 axis, air chuck, 5C Collett, 304mm x 264mm
1	HARDINGE	QUEST GG	
1	HEMBRUG	MICROTURN 100MS	4000rpm Single Spindle, 240mm x 350mm
2	MAZAK	QUICK TURN NEXUS 100-II	6000rpm single spindle, Feed Axis 185mm x 385mm x 350mm
1	MAZAK	QUICK TURN NEXUS 100MS	6000rpm single spindle, Feed Axis 185mm x 385mm x 350mm
1	MAZAK	QUICK TURN NEXUS 200-M	single spindle, max diameter 380mm, Travel 230mm x 575mm x 550mm
1	MIYANO	BNE51 MSY	2 spindles, 2 turret, live tools, Y-axis, 6" diameter chucks, 51mm bar capacity, 4" max diameter, 4.5" max length, 8ft bar feeder
3	MIYANO	BNA-42DHY3	5 axis, 2 spindles, simultaneous independent machining, 8 station main turret with Y axis and 6-station static turret
1	MIYANO	BND 42S	
1	MORI-SEIKI	NLX2500 SY/700	Twin Spindle Lathe BMT 60 & BMT 40 turret up to 12,000 rpm or 100 Nm and up to 20 tool stations (VDI = 12 stations)
2	MORI-SEIKI	SL25	Single spindle, single turret, 10" diameter chuck, 2.65" bar capacity, 13.25" max diameter, 20.9" max length
1	NAKAMURA	TOME WT-100	2 spindles, 2 turret, live tools, Y-axis, 6" diameter chucks, 65mm bar capacity, 7.5" max diameter, 20" max length
2	NAKAMURA	TOME WT-150	2 spindles, 2 turret, live tools, Y-axis, 6" diameter chucks, 65mm bar capacity, 7.5" max diameter, 20" max length
2	NAKAMURA	TOME WT-250	2 spindles, 2 turret, live tools, Y-axis, 8" diameter chucks, 65mm bar capacity, 9.8" max diameter, 22" max length.
1	NAKAMURA	TOME WT-300	2 spindles, 2 turret, live tools, Y-axis, 12" diameter chucks, 71 mm bar capacity, 10.5" max diameter, 30" max length



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CMM & MEASURING EQUIPMENT

Qty	Type	Model	Description
1	DELTRONIC	OPTICAL COMPARATOR	SHADOW GRAPH
3	KEYENCE	IM SERIES 8000	Simultaneous Measurements Performed in seconds, measures small, large and three-dimensional Parts
1	MICURE ZEISS	MICURA BC285E	CMM accuracy of <1um
2	MITUTOYO	LH600-E	Linear Height gauge, moveable over a surface plate with an air bearing incorporated in base
1	MITUTOYO	CRT STRATO APEX C574	CMM Range 500 x 700 x 400mm
1	MITUTOYO	CRT STRATO APEX S574	CMM Range 500 x 700 x 400mm
2	MITUTOYO	CRT STRATO APEX S7106	CMM Range 700 x 1000 x 600mm
1	MITUTOYO	FTA-H8D3000-D	Surfact Contour Measuring system with 12AAV701 Detector Stand (for retrofit)
1	MITUTOYO	PH-3500	SHADOW GRAPH
3	MITUTOYO	PH-A14 OPTICAL COMP.	SHADOW GRAPH
1	MITUTOYO	SJ-400	Profilometer
2	RINECK	SHRINK STATION	Carbide & HSS tool setter, runout of 3 microns or less
1	STARRETT	SIGMA OPTICAL COMP.	SHADOW GRAPH
1	STARRETT	HVR100	Flip Bench Vision system MetLogix™ M3 software one touch feature measurement.
1	ZOLLER	TOOL SETTER	Minimize fitting times, prevent tool rejection and prevent machine crashes & direct transmission of the tool data

Laser Engraving

QTY	Type	Model	Description
1	COLBALT	DOM-20PF	Table Size 40" x 20" x 11"
1	FOBA	G10	2D and 3D structures. Engraving Field 120 x 120mm2, up to 500mm Focus, vision-based mark positioning up to 5 axis path control
1	FOBA	G10/LP100	2D and 3D structures. Engraving Field 120 x 120mm2, up to 500mm Focus, vision-based mark positioning up to 5 axis path control
1	LASER PHOTONICS	LASER TOWER PRO SM	Table size 31" x 19" x 8"
1	LASIT	COMPACT MARK G7	Table size 32" x 17.5 x 18"
1	TROTEC	Speedy 300 Flex	MC 6083 Speedy 300X-8066 Table Size 18" x 30"

Welding / Brazing / Grinding

Qty	Type	Model	Description
1	60KV Electron Beam Welder	ECO600 EB822	Vacuum chamber (610mm3) with internal carousel and X/Y Table
2	Electron Beam Welder	512 Beamer	12-inch3 vacuum chamber, weld penetration in steel .02mm to 18.0mm
1	Fusion Brazemate	100LS	2-Station Braze/Soldering Machine, Gas/Oxygen Heat System 24" X 30" Electrical Enclosure Model 610 Applicator(s)
1	Orion	LZR160	Outer Manifold with Fixtures
1	Studer CNC Grinder	1043-0060	Bench Top Laser Welder
			External cylindrical grinding 40-60 degrees

3D Printing

QTY	Type	Model	Description
1	Fortus	250MC-3 (small)	Fused Deposition Modeling (FDM) Technology to build models from the bottom up in layers. Envelope size 254mm x 254mm x 305mm
1	Fortus	400MC (large)	Fused Deposition Modeling (FDM) technology provides prototype parts, including internal features, that can be used to field-test form, fit, and function. Envelope size 355mm x 254mm x 254mm

Programming

	Type	Model	Description
	Delcam	Partmaker modeling 2016	3D CAD Software
	Esprit 20X		
	Esprit Edge		
	Gibbs Cam	2023	Mil/Turn
	Mastercam	2024	Mil/Turn
	Vericut	8.2.1	CNC machine simulation/verification



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Deburring

Qty	Type	Model	Description
1	Auxie Electro Polisher	E399	Digital timing and temperature to allow for the highest possible degree of reliability when polishing various parts
1	BLAST Cabinet	LB4024-3	Sand Blaster
1	Comco Procenter	CTR100-1	Sand Blaster
1	Extruder Hone	R031263	Abrasive Flow machine process is ideal for polishing and deburring, especially for complex internal shapes and targeted surface challenges
2	Hardinge	HSL-59	Manual Lathe (2nd Op)
1	KASTO	Twin A2	CNC Saw
1	Rosler		Cylindrical Tumber
11	Twister		Speed Lathe (2nd Op) for polishing at machines as necessary
1	Vaiman	Pro Blast	Sand Blaster
1	Jet Center	CA4250	Automated Sandblaster

Manual

Qty	Type	Model	Description
3	Bridgeport Mill		Vertical Manual Mill with Readout
1	Hardinge		Manual Lathe (2nd Op)
2	Hardinge		Tool Room Lathes
1	Lap Master		Lapping Machine
1	Sharp Lathe		Small manual lathe

Misc.

Qty	Type	Model	Description
1	HYDMECH	H-14A	CNC Horizontal Saw
1	Tawi	VM200	Vacu Move Lifting System Gorbel 500lb Vacuum Crane
1	TOYOTA	8FGU15	Forklift - Serial # 66430
1	UNICARRIER	MCP1F2A25LV	Forklift - Serial # CP1F2-9W21890
1	CROWN	20WCTL-3	Forklift - Serial # H-1863
1	HYSSTER	F106W02474V	Forklift - Serial # J35XMT
1	CROWN	30WBTF-S	Forklift - Serial # 1A117541
1	Wesco	PCBFL-56-25	Walkbehind lift - Serial # 226675