



Equipment List

03/08/2011

CNC Milling	Capacity	Qty
Excel 1300T24 Vertical Machining Center 10,000 RPM w/Rigid Tapping	51.20 x 20.10 x 22.00 12 HP	(1)
Excel 810T24 Vertical Machining Center 10,000 RPM w/Rigid Tapping Golden Sun MPS-80 Pallet Shuttle	31.19 x 20.10 x 22.00 12 HP	(4)
Excel 510T18 Vertical Machining Center 10,000 RPM w/Rigid Tapping	20.08 x 16.14 x 18.11 7½ HP	(1)
Excel PMC-10T24 Vertical Mach Center 8,000 RPM Spindle	40.00 x 20.00 x 18.11 15 HP	(2)
Excel HMC-400T32 Horizontal Machining Center 8,000 RPM with 2-Pallet Changer .001° Index	24.00 x 17.70 x 20.00 15 HP	(1)
Haas VF-2 4-Axis Machining Center	32.00 x 16.00 x 20.00 7½ HP	(1)
Hitachi-Seki VM40III Vertical Machining Center 12,000 RPM Spindle w/Touch Probe	22.00 x 17.50 x 17.75 7½ HP	(1)
Kia Hyundai Horizontal Machining Center (2005) 8,000 RPM Spindle	37.40 x 32.50 x 29.90 35 HP	(1)
Kitamura MyCenter 2xiF Vertical Machining Center (2005) 10,000 RPM Spindle	20.00 x 14.00 x 18.00 18HP	(1)
Kitamura MyCenter 3xiF Vertical Mach Center 15,000 RPM Spindle (2003, 2004, 2006 x 3)	29.92 x 17.91 x 18.00 15HP	(5)
Kitamura MyCenter 3xiF Vertical Mach Center 20,000 RPM Spindle (2003, 2004)	29.92 x 17.91 x 18.00 15HP	(2)
Kitamura MyCenter 3xi Vertical Mach Center 20,000 RPM Spindle with Pallet Changer (2004)	29.92 x 17.91 x 18.00 15HP	(1)
Kitamura MyCenter HX400iF Horizontal Mach Center 13,000 RPM Spindle with Pallet Changer (2008, 2009)	28.90 x 24.00 x 24.00 25HP	(5)
Kitamura MyCenter HX630i Horizontal Mach Center 12,000 RPM Spindle with Pallet Changer (2008) High Precision Contour Control, .001° 4 th Axis	41.34 X 33.46 X 33.86 40HP	(1)
Kiwa KNH-400 Horizontal Machining Center (2004) 12,000 RPM, 6-Pallet Changer, .001° 4 th Axis, 120 Tools	23.60 x 23.60 x 19.70 20 HP	(1)
Matsuura 600 4-Axis Machining Center Tsudakoma 9" Rotary Axis	23.62 x 16.14 x 18.50 10 HP	(1)



Brenk Brothers Inc. Equipment List (Cont'd)

CNC Milling...continued	Capacity	Qty
Matsuura 600 Vertical Machining Center	23.62 x 16.14 x 18.50 10 HP	(2)
Matsuura 510 Vertical Machining Center	20.00 x 14.14 x 18.00 7½ HP	(3)
Matsuura ES-450H Horizontal Machining Center 10,000 RPM, 2-Pallet Changer, 1° Index	17.71 x 15.74 x 15.74 10 HP	(2)
Matsuura ES-450HII Horizontal Machining Center 15,000 RPM, 2-Pallet Changer, 1° Index, 62 Tools	17.71 x 15.7 x 15.7 14.7 HP	(1)
Matsuura MAM72-35V Vertical 5-Axis Machining Center 15,000 RPM, 32 Pallet Library, 120 Tools (2009, 2010)	13.77 Ø x 9.44 h 15HP	(2)
YCM NSV102A Vertical Machining Center 12,000 RPM	40.16 x 23.62 x 23.62 30 HP	(4)
Fastems 30 Pallet FMS #1 (2006)		
Kitamura MyCenter HX400iF Horizontal Mach Center 13,000 RPM Spindle with Pallet Changer (2006 x 3)	28.90 x 24.00 x 24.00 25HP	(3)
Fastems 24 Pallet FMS #2 (2009)		
Kitamura MyCenter HX400iF Horizontal Mach Center 13,000 RPM Spindle with Pallet Changer (2009)	28.90 x 24.00 x 24.00 25HP	(2)
CNC Turning	Capacity	Qty
Miyano BND-34S5 3 Axis w/Sub Spindle LNS Super HydroBar Bar Feed	3"Ø, 8.66" Between Centers Bar Capacity: 1-5/16"	(1)
Miyano BND-42S 3 Axis w/Sub Spindle LNS Super HydroBar Bar Feed (2003)	3"Ø, 8.66" Between Centers, Bar Capacity: 1-5/8"	(1)
Miyano BND-42TR 3 Axis w/Sub Spindle LNS Super HydroBar Bar Feed (2002)	3"Ø, 8.66" Between Centers, Bar Capacity: 1-5/8"	(1)
Mazak QT Nexus 100 3 Axis w/Auto Parts Catcher SMW Quick 645 Hydrostatic Bar Feed (2005)	9"Ø, 12" Between Centers, Bar Capacity: 1-5/8"	(1)
Mazak QT Nexus 200-II MSY 4 Axis (2009)	10"Ø, 17.125" Between Centers, Bar Capacity: 2 1/2"	(1)
Mazak QT Nexus 250 3 Axis w/Auto Parts Catcher SMW Quick 645 Hydrostatic Bar Feed (2005)	9"Ø, 12" Between Centers, Bar Capacity: 1-5/8"	(1)
Miyano BND-51SY2 4 Axis w/Auto Parts Catcher LNS Super HydroBar Bar Feed (2008)	9"Ø, 17.125" Between Centers, Bar Capacity: 2"	(1)
Mazak QT-8N Universal w/T-32B SMW FSQ 32 Bar Feed	8"Ø, 12" Between Centers, Bar Capacity: 1-1/2"	(1)
Mazak QT-8N Universal	8"Ø, 12" Between Centers	(1)
Tsugami SS20 Swiss (2010) LNS HydroBar Bar Loader 24 tools, Live Tooling, 2000 PSI High Pressure Coolant	8.67" Max Part Length Bar Capacity: .787"	(1)



Brenk Brothers Inc. Equipment List (Cont'd)

EDM - Laser	Capacity	Qty
Fanuc Robocut α-0C CNC Wire EDM	12.50 x 8.60 x 7.10	(1)
Fanuc Robocut α-1iA CNC Wire EDM (2002)	20.50 x 14.60 x 12.00	(1)
Fanuc Robocut α-1iB CNC Wire EDM (2004)	20.50 x 14.60 x 12.00	(1)
Fanuc Robocut α-1iC CNC Wire EDM (2005, 2006 x 2, 2009x 2)	20.50 x 14.60 x 12.00	(5)
Mitsubishi MD+ Pro CNC Wire EDM (2006)	13.70 x 9.80 x 8.60	(2)
Keyence MD-V9920 Laser Marking Machine (2010)	11.8" x 11.8" marking field 315 inches/second	(1)

Manual Milling/Turning	Capacity	Qty
Clausing Kondia CL1 Mill w/.0001 DRO	31.50 x 12.00 x 16.00 2 HP	(1)
Acer Vertical Mill w/.0001 DRO	31.50 x 16.00 x 16.00 3 HP	(1)
Bridgeport Series 1 Mill w/.0001 DRO	30.00 x 12.00 x 16.00 2 HP	(1)
DoAll 300V Vertical Mill w/.0001 DRO	31.50 x 16.00 x 16.00 3 HP	(1)
Rockwell Model 21-100 Mill	20.00 x 8.00 3/4 HP	(1)
Victor V-616 2nd Operation Lathe	6"ø 9" Between Centers	(1)
Enterprise Model 1810 Lathe	18"ø 100" Between Centers	(1)
Harrison Alpha 330T Lathe (2004)	39.00 x 12	(1)
Nichols Twin Mill		

Sawing	Capacity	Qty
Behringer HBP313A Horizontal CNC Bandsaw (2008)	19.7" x 11.8" Rectangle / 12.2"Ø	(1)
DoAll C-3300NC Horizontal CNC Bandsaw	13" Square / 13"ø	(1)
Grob NS18 Vertical Band Saw	18"	(1)
Bewo Cold Saw	3.5"	(1)

Grinding	Capacity	Qty
Okamoto 12-24DX Hydraulic Surface Grinder	24" x 12" x 13.6"	(2)
Gardner # 1-1/2 Surface Grinder	17" x 11" x 11.5"	(1)
Monaset CM-2 Tool & Cutter Grinder		(1)
Accu-Finish Tool Grinder/Lap		(1)
Doall Model 10 Tool & Cutter Grinder		(1)
Darex SP2500 Drill Sharpener (2005)		(1)

Honing	Capacity	Qty
Sunnen MBB1290D (2008)	.120 - 2.625" Ø, 300-800 RPM	(1)
Sunnen CV-616D (2008)	.75 – 8.00" Ø x 11"; 125-310 RPM, 2HP	(1)
Sunnen MBB-1650 (2008)	.060-6.50" Ø x 16"; 200-1600 RPM	(1)

Finishing	Capacity	Qty
Zero Blast-N-Peen Mod. BNP 55		(1)
Sweco FM-10C Batch Type Tumbler		(1)
Rampart RBD-2 Roller Barrel Finishing Tumbler		(1)
Dyna-Files	1/2"	(6)
Belt Sander	6"	(2)
Disk Sander	12"	(2)
Belt Sander	1"	(3)
Misc. Pedestal Grinders & Buffers	6" & 8"	



Brenk Brothers Inc. Equipment List (Cont'd)

Additional Shop Equipment	Capacity	Qty
Haas HA5C 2 Single Spindle Rotary Axis 5C Collet		(1)
Haas HA5C 2 Dual Spindle Rotary Axis 5C Collet		(2)
NSK Mega Rotary Table Indexer w/Pendant		(3)
Avey 6-Spindle Drill Press		(1)
Dake Hydraulic Press	50 Ton	(1)
Clausing 2-Spindle Drill Press		(1)
Craftsmen Drill Presses		(5)
Flex-Arm Air Tapping Units w/Tapping Heads	1"	(2)
Century Arc Welder		(1)
Oxygen-Acetylene Torch		(1)
Millermatic 250X MIG welder with 30A Spoolgun		(1)
Dymax 3000EC UV Light Welder		(1)
Arbor Press	2 Ton	(3)
Toledo High Resolution Counting Scale		(1)
Helicoil Power Insertion Tool		(1)
Quincy QSI-245 Rotary Screw Air Compressor	50HP	(1)
Quincy QSI-3701 Rotary Screw Air Compressor	75 HP	(1)
Ingersol EP/25SE Rotary Screw Air Compressor	25HP	(1)
ZEKS CFX Model 400 HSG Air Dryer		(1)

Inspection Equipment	Capacity	Qty
Zeiss Contura G2 Scanning Coordinate Measuring Machine (2008)	27.5" x 40" x 23.6"	(1)
Zeiss Contura Scanning Coordinate Measuring Machine (2005)	27.5" x 40" x 23.6"	(1)
Zeiss Eclipse Coordinate Measuring Machine	27.56" Cube	(1)
Zeiss Vista Coordinate Measuring Machine	16" Cube	(2)
Bausch & Lomb Microscope		(2)
American Optical Microscope		(1)
Mantis Viewing Station		(1)
MicroVu Model Spectra 14 Optical Comparator w/DRO		(2)
Mitutoyo Profile Projector		(1)
Tru Stone Surface Plate	48" x 72"	(1)
Rahn Surface Plate	36" x 48"	(2)
Surface Plate	24" x 36"	(1)
Surface Plates	18" x 24"	(11)
Granite Master Angle 30/60/90	8"	(1)
Browne & Sharpe Height Gauge	12"	(3)
Mitutoyo Micrometer Set	0 - 18"	(1)
Micrometers: Blade, Pin, Disk, Indicating, Groove, "V" Anvil, Point		(1)
Model 8X Indi-Square		(1)
Mitutoyo Bench Centers	12" & 36"	(1)
Wilson Hardness Tester Model 103R		(1)
Bendix Profilometer		(1)
Mitutoyo SurfTest-211 Surface Roughness Tester		(2)
Mitutoyo Gage Block Sets (1 Master, 1 Inspection, 5 Shop)		(6)
Mitutoyo .0001 Digimatic Indicators		(4)
Standard Gage E8-8000 Smart Column Electronic Indicator .000005		(1)
.0005 & .0001 Dial Indicators		(1)
.011-.750 Shop Grade Gage Pin Set in .0005 Increments		(1)
Deltronic Gage Sets		(1)
Trimos Electronic Height Gauge	24"	(1)
Mitutoyo Dial Bore Gages (.240 - 10.340 ø)		
Sunnen PG Bore Gauging System (.370 - 2.900 ø)		
Miscellaneous Indicators, Gage Blocks, Thread Gages, Bore Gages, Etc.		