



Equipment List

02/19/2014

CNC Milling	Capacity	Qty
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)
Kitamura MyCenter 3XG Vertical Mach Center (2013) 15,000 RPM Spindle	30.00 x 18.00 x 18.00 10 HP	(2)
YCM NSV-156A Vertical Mach Center (2013) 15,000 RPM Spindle	50.00 x 25.00 x 25.00 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)
Matsuura MAM72-35V Vertical 5-Axis Machining Center 20,000 RPM, 32 Pallet Library, 300 Tools (2011)	13.77 Ø x 9.44 h 20HP	(1)
Matsuura MAM72-35V Vertical 5-Axis Machining Center 20,000 RPM, 32 Pallet Library, 320 Tools (2013)	13.77 Ø x 9.44 h 15HP	(1)
YCM NSV102A Vertical Machining Center 12,000 RPM, 5-Axis Capable	40.16 x 23.62 x 23.62 30 HP	(7)
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)



Brenk Brothers Inc. Equipment List (Cont'd)

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)
Mazak QT Nexus 100 3 Axis w/Auto Parts Catcher (2005)	9"Ø, 12" Between Centers, Bar Capacity: 1-5/8"	(1)
Mazak QT Nexus 200-II MSY 4 Axis (2009) LNS Hydrobar Quickload	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)
Mazak QT Nexus 350-II MY 4 Axis (2011)	12"Ø Bar Capacity: 4"	(1)
Mazak QT Hyper Quadrex 100MSY 4 Axis (2011) LNS Super HydroBar Bar Loader	11"Ø Bar Capacity: 2"	(1)
Mazak QT Hyper Quadrex 150MSY 4 Axis (2012) LNS Super HydroBar Bar Loader		(1)
Miyano BND-51SY2 4 Axis w/Auto Parts Catcher SMW Spacesaver 2100 (2008)	9"Ø, 17.125" Between Centers, Bar Capacity: 2"	(1)
Mazak QT-8N Universal w/T-32B	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)
Tsugami SS26 Swiss (2012) LNS HydroBar Bar Loader 24 tools, Live Tooling, 2000 PSI High Pressure Coolant	8.67" Max Part Length Bar Capacity: .787"	(1)
Tsugami S206 Swiss (2011) LNS HydroBar Bar Loader 38 tools, Live Tooling, 2000 PSI High Pressure Coolant	9.84" 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, 2009 x 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	Engine 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)
ADF Low Pressure Parts Washer		(1)

Inspection Equipment	Capacity	Qty
Zeiss Contura G2 Scanning CMM (2008)	27.5" x 40" x 23.6"	(1)
Zeiss Contura G2 CMM (2011 x 3)	27.5" x 40" x 23.6"	(3)
Zeiss Contura Scanning CMM (2005)	27.5" x 40" x 23.6"	(1)
Bausch & Lomb Microscope		(2)
American Optical Microscope		(1)
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		
Model 8X Indi-Square		(1)
Mitutoyo Bench Centers	12" & 36"	
Wilson Hardness Tester Model 103R		(1)
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		
.011-.750 Shop Grade Gage Pin Set in .0005 Increments		(1)
Deltronic Gage Sets		
Trimos Electronic Height Gauge	12" & 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.		
Mitutoyo SJ-400 Surface Roughness Tester		(1)
Deltronic DH216 Optical Computer		(3)
Beta-Laser Mic Fowler Trimos Height Gage		(4)