

Fronhofer Tool, Inc

Equipment List Quality

Type	Equipment	OEM	Model Number	Description	Capacity	Comments
Quality	Coordinate Measurement Machine	Helmel	MicroStar 530-252	30" x 50" x 25"		Resolution: 0.00002"; Repeatability: 0.0002"; Linear Accuracy: 0.00024" + 0.000008"/in
Quality	Portable Measuring Arm	Romer		6 Axis		4' radius, Digital camera, work light, magnetic base, and laptop
Quality	Height Gages			To 18"		
Quality	Micrometers			To 54"		
Quality	Vernier Calipers			To 72"		
Quality	Granite Inspection Table			30" x 120"		
Quality	Digital Surface Finish Gages					
Quality	ASME Certified Gage Blocks					
Quality	Optical Comparator					
Quality	Bore Gages					

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Equipment List Milling

Type	Equipment	OEM	Model Number	Description	Comments
CNC	Milling (Large)	Mighty Viper	Pro	356" x 150" x 58"	4 Axis, 58" clearance under rail, 60 tool magazine, Fanuc 18m Controls, 50 HP spindle drive
CNC	Milling (Large)	Mighty Viper	B5000XT	200" x 83" x 28"	4 Axis, 40" clearance under rail, 60 tool magazine, Fanuc 18M Controls, 35 HP spindle drive
CNC	Milling (Large)	Mighty Viper	VMC-2000 PXT	83" x 78" x 31"	30 tool magazine, Mitsubishi Model MS30 Controls, 25 HP spindle drive, coolant thru spindle
CNC	Milling (Large)	Eumach	DM-3000XXT	126" x 94" x 46"	Siemens drive / motor, chip conveyor, coolant system, gearbox, linear ways, Selco 3045 Controls
CNC	Milling (Large)	Poreba	HMB-110	87" x 63" x 22"	Saddle travel = 63", spindle dia. = 4", built-in rotary table = 47" x 59", Fanuc 18i Controls, 60 position tool changer, coolant through spindle
CNC	(2) Milling (Medium)	Haas	VF7 Vertical	84" x 32" x 30"	50 tapered gear head, 7500 rpm spindle, 18" rotary table
CNC	Milling (Medium)	Saeilo Magnum	75V	67" x 30" x 26"	4 Axis, rotary table, 24 tool magazine, Fanuc Controls, 25/30 HP spindle drive
CNC	Milling (Medium)	Mori Seiki	MV65	60" x 26" x 25"	30 tool magazine, Fanuc 10M Controls, 20/25 HP spindle drive
CNC	Milling (Medium)	Haas	3FT/50 Vertical	40" x 26" x 25"	50 tapered gear head, 7500 rpm spindle
CNC	Milling (Small)	Haas	MDC-500	20" x 14" x 20"	Dual fixture stations, part probe system
CNC	Milling (Small)	(2) Kiwa	4L	32" x 18" x 22"	16 tool magazine, Fanuc 10M Controls, 10 HP spindle drive
Conventional	Milling	Gilbert	Series T Horizontal	48" x 48" x 60"	4" dia. spindle, rotary table
Conventional	Milling	Hurco		30" x 15" x 5"	Digital readout and power feed
Conventional	Milling	Alliant		42"	Digital readout and power feed
Conventional	Milling	OKK	MH3PII	36" x 15"	Power feed, vertical attachment
Conventional	Milling	(2) Bridgeport		42"	Digital readout and power feed
Conventional	Milling	Kearney & Trecker		96" x 36"	Digital readout, vertical attachment, power feed

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Equipment List

Turning

Type	Equipment	OEM	Model Number	Description	Comments
CNC	Turning	Mighty Viper	CNC VTL-20/24(M)	95" dia. x 59" under rail	18 Automatic tool changer, coolant thru spindle
CNC	Turning	King	62" VBM	72" dia. X 56" under rail	Fanuc 18IT Controls, automatic tool changer
CNC	Turning	Mori Seiki	SL-45MC/1000	47" cc, 29" max. turn, 18" swing over bed	Moric T6FI (Fanuc 16-II TA) Controls, high pressure coolant (200psi), Renishaw Automatic Measuring System, 16 (8-3.7HP) live tool turret, 18" hollow chuch unit, 30 HP motor
CNC	Turning	Dainichi	F45	81" cc, 28" max. turn, 28" max swing	12 Tool turret (Heavy Duty), Fanuc 18ISC Controls, 50/60 HP motor
CNC	Turning	Dainichi	F25M Flash Turn	24" cc, 12" max. turn, 20" swing over bed	16 (7-1/2HP) live tool turret, Fanuc 18TSC Controls, 20 HP motor, LNS bar feeder
CNC	Turning	Okuma	LB-I5	20" cc, 10" max. turn	3" LNS bar feeder, 12 tool turret, 15/20 HP motor
CNC	Turning	Mori Seiki	ZL-I5 SMC	9" max. turn, 19" swing over bed, 15" swing over cross slide	4 Axis, Live milling and sub-spindle, 12 stations upper turret / 6 stations lower turret, 16H Controls, LNS Quick Load Space Saver barfeed
CNC	Turning	Tongil	TVL 20R	24" max. turn, 30" max. swing, z-axis = 20"	12 tool turret, Fanuc OTC Controls, 35 HP spindle
CNC	Turning	Haas	TL-3	20" x 60" cc	Manual tool room lathe
Conventional	Turning	Niles		550" (45') between centers, 66" dia. swing over carriage, 80" max. swing dia.	
Conventional	Turning	Lansing		435" (35') between centers, 46" dia. swing over carriage, 52" max. swing dia.	
Conventional	Turning	Poreba		43" x 17" between centers, 31" swing over cross-slide, 56" swing in gap	Power compound for taper turning, inch/metric threading, 4" hole thru spindle, digital readout
Conventional	Turning	Monarch		33" x 132" between centers	
Conventional	Turning	Clausing Colchester	Horizontal	80" between centers, 21" in gap	
Conventional	Turning	Cincinatti Hypro Vertical		60" swing, 48" under rail	
Conventional	Turning	Clausing Colchester	Horizontal	80" between centers, 17" in gap	
Conventional	Turning	Clausing Colchester	Horizontal	50" between centers, 15" in gap	Taper attachment
Conventional	Turning	Harrison	Horizontal	36" between centers, 12" in gap	Taper attachment
Conventional	Turning	Enterprise	1330 Horizontal	14" x 48" between centers, 20" in gap	
Conventional	Turning	Lansing	G (Horizontal)	24" x 84" between centers, 32" in gap	

Fronhofer Tool, Inc**Equipment List
Drilling, Honing, Sawing**

Equipment	OEM	Model Number	Description	Comments
Drilling	Buffalo Gang		4 head drill press	
Drilling	Ikeda		4' radial arm	
Drilling	(Several drill presses)			
Honing	Sunnen	CV-616 Cylinder King	3/4" to 8" bore dia., 18" length, 9" stroke length,	Power stroke and feed
Honing	(3) Sunnen		Portable hones	
Sawing	(2) Marvel	Series 8 Mark II	17" x 23"	
Sawing	Marvel	Series 8 Mark III	19" x 24"	
Sawing	Campbell Sever	All Abrasive	16"	
Sawing	Johnson	Hi-Speed	14"	Auto bar feeder
Sawing	Wells	Vertical	20" x 14"	Power table

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**Equipment List
Fabrication**

Equipment	OEM	Model Number	Description	Comments
Welding	(5) Lincoln	255	Powermig	
Welding	(5) Lincoln	R35-325	Migs	
Welding	Millermatic	200	Mig	
Welding	Millermatic	Dial Arc HF-P 310	Tig	
Welding	(3) Lincoln	Precision 375	Tig	
Forming	Verson		115 ton press brake	
Forming	Chicago		20-25 ton press brake	
Forming	Bertsch	4R M12-120	1/2" plate thickness x 10' long	
Finishing	Cincinnati Cylindrical		12" x 36"	
Finishing	Abrasive	Surface Grinder	6" x 18"	
Finishing	Norton	Surface Grinder	10" x 48"	
Finishing	Hammond	Tool Grinder		
Finishing	Ingersol	Tool Grinder		
Finishing	(2) Bader	4" Belt Sanders		
Finishing	Bader	3" Belt Sander	Centerless grinding	
Finishing	Kar-ry	1" Belt Sander		
Finishing	K.O. Lee	Tool Sharpener		
Finishing	(Several other grinders and belt sanders)			
Waterjets	(2) Flow Flying Bridge	72" x 144"		

Fronhofer Tool, Inc**Equipment List
Material Handling**

Equipment	OEM	Model Number	Description	Comments
Fork Trucks	Clark		2,550 lb	
Fork Trucks	Clark		5,500 lb	
Fork Trucks	Clark		6,500 lb	
Fork Trucks	Toyota		10,000 lb	
Fork Trucks	Yale		5,000 lb	
Fork Trucks	Hyster		3,250 lb	
Fork Trucks	Caterpillar		2,250 lb	
Fork Trucks	(3) Electric		5,000 lb	
Telescopic Fork Lifts	Ingersol Rand	VR-50		
Delivery Trucks	Chevrolet	2500 HD	2015 Full Size 4WD	
Delivery Trucks	Chevrolet	3500 HD	2012 Full Size 4WD	
Delivery Trucks	Chevrolet	Cargo Van	2005	
Delivery Trucks	GMC	Flat Bed	2019 8' x 18"	
Tool Trailers	1 x 20' tilt bed, 1 x 40' 5th wheel			