



Precision Gear Incorporated

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Manufacturing Capability List

GEAR GRINDING				
Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Kapp VUS 57 P	CNC Borazon/Vertical Gear Grinder	19"	36"	+/- .00005
Kapp VAS 432 (1)	CNC Borazon Gear Grinder	14"	22"	+/- .0001
Kapp VAS 432 (2)	CNC Borazon Gear Grinder	14"	22"	+/- .0001
Kapp VIS 431	Internal CNC Borazon Gear Grinder	20"	10"	+/- .0001
Reishauer RZ-300	CNC Gear Grinder	12"	5"	+/- .0001
Michigan Lapper No. 993	Internal & External Gear Lap	12"	12"	+/- .0002
Red Ring	Gear Hone	6"	24"	+/- .0002
Heald No. 72-A Lapper	Internal Spline/Gear Lap			

GEAR CUTTING				
Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Gleason GP300ES	CNC Int/Ext Helical Shaper	11.8"	4.3"	+/- .0002
Lorenz 154	CNC External Shaper	8"	3"	+/- .0002
	CNC Internal Shaper	8"	3"	+/- .0002
Lorenz 424	CNC External Shaper	16"	5"	+/- .0002
	CNC Internal Shaper	12"	5"	+/- .0002
Bourn & Koch 200H	7 Axis - CNC Hobbing	8"	52"	+/- .0002
Fellows 10-4	CNC External Shaper	18"	4"	+/- .0005
	CNC Internal Shaper	18"	4"	+/- .0005
Mitsubishi Gear Shaper ST40CNC	Helical Gear Shaping	15.7"	Stroke L 5.3"	+/- .0002
Fellows 36	External Shaper	36"	5"	+/- .0003
	Internal Shaper	36"	5"	+/- .0003
Fellows 7	External Shaper	10"	3"	+/- .0005
	Internal Shaper	10"	3"	+/- .0005
Sykes V400	External Shaper	8"	5"	+/- .0002
	Internal Shaper	8"	5"	+/- .0002
Barber-Coleman 16x16	Gear Hobbing	10"	16"	+/- .0005
Barber-Coleman 6x10	Gear Hobbing	6"	10"	+/- .0005
Mitsubishi GD20 CNC	Gear Hobbing	10"	10"	
Pfauter 400	Gear Hobbing	16"	10"	+/- .0003

BROACHING				
Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
HAAS Colonial Broach 10-120	Broaching	3.5"	60"	ANSI B92.1
Detroit Broach #H-15-64	Broaching	3.5"	48"	ANSI B92.1

CYLINDRICAL GRINDING				
Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Studer S40	CNC External Grinder	14"	39"	+/- .0001
	CNC Internal Grinder	10"	12"	+/- .0001
Studer S40-4	CNC External Grinder	14"	39"	+/- .0001
	CNC Internal Grinder	10"	12"	+/- .0001
Studer S31	CNC External Grinder	13.7"	39"	+/- .0001
	CNC Internal Grinder	10"	15"	+/- .0001
Studer S33 (1)	CNC External Grinder	13.7"	28"	+/- .0001
Studer S33 (2)	CNC External Grinder	13.7"	28"	+/- .0001
	CNC Internal Grinder	13.7"	28"	+/- .0001
Studer S-20	CNC External Grinder	10"	30"	+/- .0001
Kellenberger UR 175 X 1000 (1)	CNC External Grinder	14"	40"	+/- .0001
	CNC Internal Grinder	10"	14"	+/- .0001
Kellenberger UR175 X 1000 (2)	CNC External Grinder	14"	40"	+/- .0001
	CNC Internal Grinder	10"	14"	+/- .0001
Kellenberger Varia UR175/1500	CNC External Grinder	13.7"	63"	+/- .0001
Kel-Vista 175/800	CNC External Grinder	13.7"	48"	+/- .0001
Browne & Sharpe	Face Grinder	10"	5"	+/- .0001
Bryant Ex-Cell-0	CNC Internal Grinder	24"	19"	+/- .0001
Heald 74A	Internal Grinder	6"	30"	+/- .0001
Heald 74B	Internal Grinder	6"	30"	+/- .0001
Heald 273	Internal Grinder	10"	16"	+/- .0001
Landis Tool Centerless Grinder	Centerless Grinder			
Bryant ExCello, Center Lap	Lap Centers			
Technica ZSM-150 (Cntr. Grind)	Grind Centers			
Do-All Surface Grinder D1030	Surface Grinder			
Moore Jig Grinder Model 3	Grind Holes & Contours			

TURNING

Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Okuma LB3000EX	CNC Lathe	13.39"	19.69"	+/- .0003
Okuma LB35 II	CNC Lathe	18.11"	78"	+/- .0003
Okuma LB35 II	CNC Lathe	18.11"	78"	+/- .0003
Puma 400LB	CNC Lathe	21.7"	80"	+/- .0003
Puma 400LB	CNC Lathe	21.7"	80"	+/- .0003
Hitachi Seiki Hi-Cell 250	5 Axis - CNC Lathe & Mill.	10"	63"	+/- .0002
Mazak Slant Turn 40N	CNC Lathe	14"	45"	+/- .0004
Mazak Slant 25	CNC Lathe	16.5"	39.4"	+/- .0003
Mori Seki SL-3B	CNC Lathe	8"	18"	+/- .0003
Mori Seki SL-4A	CNC Lathe	13"	24"	+/- .0004
Mori Seki SL-4A	CNC Lathe	13"	24"	+/- .0004
Alpha Plus 800	CNC Lathe & Gun Drill	20"	80"	+/- .0003
American Lathe	Lathe & Gun Drill	30"	120"	+/- .005
Tos 40" Lathe SN40 (1)				
Hardinge Lathe TFB				
Tos 60" Lathe SN50C				
Lansing-G Lathe				
Titan SNB 400				

BALANCING

Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Schenck CAB 700/H2BU	Dynamic Balancing	6"	48"	.004 Gram-Inches
Schenck CAB 700/H10BK	Dynamic Balancing	3"	18"	.0008 Gram-Inches
Schenck CAB 925/HM2BU	Dynamic Balancing	6"	48"	.004 Gram-Inches

MILLING

Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
OKUMA MA-550VB	Vertical Milling Center	22"	51"	+/- .00006
HAAS VF3	Vertical Milling Center	18"	40"	+/- .0001
Mazak VTC-20B	Vertical Milling Center	20"	40"	+/- .0002

INSPECTION

Machine Model	Function	Max Diameter	Max Length	Tolerance/Capability
Klingelnberg PNC-60	CNC Gear Tester	24"	12"	+/- .0001
Klingelnberg PNC-30	CNC Gear Tester	12"	16"	+/- .0001
Gleason M&M Sigma V5	CNC Gear Tester	19"	26"	+/- .00001
Zeiss Contura G2	Super Precision CMM	40"	64"	+/- .00001
Browne & Sharpe - CMM	Coordinate Measuring	32"	32"	+/- .0001
Faro Arm	Coordinate Measuring			
Profilometer PDA-400	Surface Finish Tester			
Kodak Shadowgraph 2A	Coordinate Measuring			
OPG Shadowgraph	Coordinate Measuring			
Pratt&Whitney Supermicrometer	CNC Calibration Mic.	11"	11"	+/- 0.000001

PARTMARKING

Machine Model	Function
Monode PMS 2001	Dot Peening
Monode Pryor 2068-Z	Dot Peening/UID Marking
Electrolytic Etch 400 CC-B (1)	Electrolytic Etching
Electrolytic Etch 400 CC-B (2)	Electrolytic Etching

MISCELLANEOUS

Machine Model	Function
Cut Off Saw	
Fine Sodick K1C	EDM
Miscellaneous Manual Milling and Drilling Equipment	