

[A-1 Precision, Inc.](#) [Machinery List](#)

[CNC Machining Centers](#)

<u>Toyoda FA450III Cell System</u>	2005 Horizontal Maching Center & 12 pallet (450mm pallets) RGV w/ one work station. 200 tool chain magazine w/ 40 tapertool holder system. NC 4th axis table. 14,000 RPM Max. 1968 IPM rapid rate. 30 HP. Through the spindle coolant. X 23.6" x Y 23.6" x Z 23.6" Travel
<u>Hitachi Seiki HG400III (2)</u>	1998 & 2000 Horizontal Machining Center with pallet system (400mm pallets) 1° indexing pallet and 60 tool magazine. 40 taper tool-holder system. 12,000 RPM maximum spindle speed. 1417 IPM rapid rate. 35 HP. Thermal Compensation. X 22" x Y 23" x Z 20" Travel
<u>Matsuura MAM-500HF</u>	1995 Horizontal Machining Center with pallet system (300mm pallets) 1° indexing pallet and 60 tool magazine. 40 taper tool-holder system. 8000 RPM maximum spindle speed. 944 IPM rapid rate. 7.5 HP. 1.3 second tool change time. X 19.6" x Y 18.5" x Z 17.7" Travel.
<u>Matsuura RA-IX</u>	2004 Machining Center with pallet system and 30 tool magazine. BT-40 tool-holder system. 8000 RPM maximum spindle speed. 1181 IPM rapid rate. 1.2 second tool change time. Through the spindle coolant. X 21.7" x Y 16.1" x Z 18.1" Travel
<u>Fanuc Robodrill T14iA</u>	1998 Machining Center with pallet system and 14 tool magazine. BT 30 tool-holder system. 8000 RPM maximum spindle speed. 1890 IPM rapid rate. 1.0 second tool change time. Table size 15" x 25.6".
<u>Acroloc M15L/4</u>	1987 Machining Center with 15 tool magazine. Table travels 24" x 40". Spindle travel of 10". 15 HP. 2.4 second tool change, 6000 RPM. Helical cutting. 4th Axis/Rotary table.
<u>Trak Mill</u>	1996 Prototyping Mill with two axis CNC. 3 axis digital readout. Table size 10" x 50". Travel 31" x 17" x 23.5".

[CNC Lathes](#)

<u>Mazak Dual Turn 20</u>	1997 Twin turret / twin spindle with LNS Quick load bar feeder. 1300 IPM rapid traverse rate. 2" diameter bar capacity. 8" chuck. 12 tool position turret.
<u>Citizen L32VII</u>	2006 Swiss Style Turning Center with seven axis. 1-1/4" diameter bar capacity. Automatic bar feeder. High pressure coolant. 17 tool capability (four live). 8000 RPM maximum spindle speed.
<u>Hitachi Seiki 20SII Big Bore</u>	1990 CNC Lathe with 2-1/2" diameter bar capacity. 10" chuck, and collet system. 3600 maximum RPM. 945 IPM rapid traverse rate. LNS hydraulic bar feed with up to 2 1/2" diameter bar capacity. Programmable hydraulic center.
<u>Hitachi Seiki 20SII</u>	1993 CNC Lathe with 2" diameter bar capacity. 10" chuck, and collet system. 5000 maximum RPM. 945 IPM rapid traverse rate. LNS hydraulic bar feed with up to 2" diameter bar capacity. Programmable hydraulic center.
<u>Hitachi Seiki TS15</u>	1999 Automated Turning Center with LNS Eco Load automatic bar feeder. 1.75" Ø bar capacity. 6.5" chuck . 12 tool position turret.
<u>Hardinge Model DSM - 59 - Omni Turn CNC Lathe</u>	1997 1" diameter bar capacity. 4" chuck. Gang tooling & air bar feeder.

[Additional Shop Equipment](#)

<u>H.E.M. - H90 Automatic Saw</u>	12"x12" capacity
<u>Sunnen Hone 1804</u>	Power Stroke auto sizing. I.D. Hone size 1/8" to 6-1/2".
<u>Index Vertical Milling Machine</u>	48" table
<u>Howa 1000 Engine Lathe</u>	17" diameter x 42" travel.
<u>Clausing Engine Lathe</u>	14" diameter x 42" travel.

[Secondary Equipment](#)

Drill Presses
Tapping Heads
Sanders
Burtex Wheels
Burr King VibraKing 4C
Bead Blast Machine
Hand Press
25 Ton Hydraulic Press

[Inspection Equipment](#)

Brown & Sharp CMM
Helmel Check Master CMM
Optical Comparator
Eddy Current Machine
Profilometer
Rockwell Tester
Granite Surface Plates
12" Height Gages
18" Height Gages
Sunnen Bore Gages
Certified Pin Gages
Certified Thread Gages
Certified Gage Blocks