



**Cannon Machine Products Inc.**  
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www.cannonmch.com

## Equipment List

### CNC Machines

- **Mori Seiki Duracenter 5** – A vertical machining center with 31” x 20” x 20” travels. (x,y,z). Equipped with Mori’s most advanced control, the HPCC-Nano MAPPS II, a 12,000 rpm spindle, a Tsudakoma RN-200 high speed 4<sup>th</sup> axis, a Cooljet 1000 psi high pressure coolant system and 3.5 sec chip-to-chip time, this machine is capable of ultra-precision, high speed machining.
- **(2) Mori Seiki MV-40M** - A vertical machining center with 22” x 16” x 20” travels. (x,y,z). Equipped with a Fanuc OM control, 20 tool ATC and an 8,000 rpm spindle, this machine is capable of producing a wide variety of parts efficiently and accurately.
- **Hardinge CHNC1** – A chucker type 2-axis turning center. With its 16C collet system, 1-5/8” bar capacity and 5,000 rpm spindle, this is a great machine for small, tight tolerance parts.
- **Mazak Integrex 100-IIIST** – This is a newly acquired 9-axis multi-tasking machine with 2” bar capacity. This machine has a 6,000-rpm spindle with a 6-inch chuck, a 12,000 rpm milling spindle, an automatic tool changer with a 40-tool magazine, a 9 position lower turret, a second 6,000 rpm sub-spindle plus a SMW 2100 barfeeder. The sub-spindle eliminates work-in-process and reduces throughput time because parts no longer move from machine to machine and the lower turret increases productivity by performing simultaneous turning with the upper turret on both the main and sub-spindles. This machine is great for those complex and time consuming parts.

### Manual Machines

- **(3) Monarch EE toolmakers lathes.** These 5hp, 10” x 20” capacity lathes have three and four jaw chucks and 5C collet closers. These lathes are one of the best manual lathes ever made for high tolerance parts.
- **Tuda PROS lathe.** This is a 16” x 41” medium capacity lathe. With its 15hp and three and four jaw chucks, this lathe is stout enough to take a cut and hold tight tolerances on those medium sized parts.
- **Lagun FTV-2S vertical mill.** Has a 10” x 50” table with 33” x 16” travels. (x,y). Equipped with a 3hp variable speed head and Sony digital readout, this mill is great for 2<sup>nd</sup> Op work.
- **(3) Vertical Mill** – All have 9” x 42” tables with 30” x 12” travels. (x,y) We have these equipped with Pro-Trak 2-axis cnc controls and 3hp variable speed heads, making them idea for those prototyping projects.

### Support Machines

- **Trimos Tool Presetter** – Allows us the ability to preset all our CNC tools and helps to increase efficiency.
- **Startrite H225** horizontal bandsaw with 9” bar capacity.
- **Startrite 20RF** vertical bandsaw with 20” capacity.



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- **Roll-In EF1459** combination vertical/horizontal bandsaw.
- **Pistorius** “wet” cutoff saw with 12” wheel.
- **Fabrication equipment** including surface grinder, ID/OD universal grinder, belt sander, Sunnen MBB-1600 hone, 16ga foot shear, parts tumbler, Comco Micro-Blaster, sand blaster and hydraulic presses.

### Quality Equipment

- **New! OGP Smartscope Quest 600 Multi-sensor CMM.** Equipped with vision and renishaw touch probes. 18” x 24” x 8”
- **Mitutoyo PH-350** optical comparator with Quadra-Chek 200 w/edge detection.
- **Trimos Z\_Cal 600** height gage with 24” measuring range.
- **Vision Engineering Mantis Inspection microscope** with 6x and 8x lenses.
- **Starrett 36” x 48”** surface plate
- **Mitutoyo Height Master** with .0001 resolution and 18” total height capacity.
- **Sunnen gage setting fixture** with .0001 resolution.
- **Hand measuring tools** – Including Gage block sets, Gage ball set, Inspection pins from .011 - .500 dia., micrometers up 16”, Sunnen .0001 bore gages, Mitutoyo Borematic digital bore gages, calipers, dial indicators, etc.

### Facilities and Computer Systems/Software

- 5,000 sq/ft heated and air conditioned facility.
- **Solidworks 3D solid modeling software.**
- **Gibbscam 3D Solidsurfacr** cnc programming system with Solid import capability.
- **Predator DNC and Desktop software.** Thru 8 terminals in our shop, employees can look up part information, drawings, setup information and also transfer cnc programs.
- **Shoptechs “E2” manufacturing software** allows us to track all aspects of our jobs. This includes estimating and quoting, job tracking, purchasing and accounting. With over 8 terminals in our shop, employees can record there job time
- **4 Servers** for Network, Data and terminal services. All servers are backed up to tape every night just in case something unexpected happens.