



May 7, 2009

# Manufacturing Equipment List

## CNC Swiss Automatic Screw Machines:

- 1 -Citizen CNC (M-32Y) Swiss Type Screw Machines, 32mm capacity with live tooling and bar loader.
- 4 -Citizen CNC (L20) Swiss Type Screw Machines, 13/16" capacity with live tooling, two with automatic bar loaders.
- 1 -Citizen CNC (K16) Swiss Type Screw Machine, 1/2" capacity with live tooling and automatic bar loader.
- 1 -Citizen CNC (K16) Swiss Type Screw Machine, 5/8" capacity with live tooling and automatic bar loader.
- 4 -Citizen CNC (B12) Swiss Type Screw Machines, 1/2" capacity, 3 with sub spindle, two with automatic bar loaders.
- 1-Citizen CNC (C-16) Swiss Type Screw Machine 5/8 capacity sub spindle, live tooling and bar loader.

## CNC Lathes:

- 1 -Nakamura Tome WT-20II dual turret 2' capacity w/live tooling and automatic bar loader.
- 1 -Hardinge Precision Conquest 42, CNC Slant Bed Chucker and Bar Machine, 6'x1-5/8" dia. bar feed, 1-5/8" dia. collet capacity, 8" dia. chuck capacity.
- 1 -Nakamura Tome SC-150 With live tooling and C-axis.
- 2 -OmniTurn GT-Jr CNC lathes.
- 1 -Hardinge DSM 59 Lathe with CNC OmniTurn attachment.

## CNC Mills:

- 1 -Mori Seiki CNC Mill, 30 tool magazine, X,Y and Z axis at 22"x16"x18" travel.
- 1 -Mori Seiki MV Junior CNC Mill, 20 tool magazine, X,Y and Z axis at 22"x16"x18" travel.
- 2 -Mori Seiki Frontier M1 CNC Mills, 20 tool magazine, X,Y and Z axis at 22"x16"x18" travel.
- 1 -Fanuc Robodrill CNC Milling & Drilling Machine.
- 1 -YCM (YCI) CNC Machining center, 20 tool magazine, X,Y and Z axis at 22"x16"x18" travel.
- 1 -Haas CNC Machining center VF-2 W/5-axis trunion table thru spindle coolant.
- 6 -Haas CNC 4<sup>th</sup> Axis Indexers.

## CNC Wire EDM:

- 1 -Sodick AQ535L wire EDM machine.

## Secondary Operation:

- 4 -Hardinge DSM 59 Lathes with cross-slides and turrets.
- 2 -Hardinge DSM 59 Lathes, with Bradmatics.
- 1 -Hardinge Speed Lathe.

- 1 -Namsun Engine Lathe, 23" dia. capacity.
- 1 -Barker Milling Machines.
- 1 -Servo Micro Drill Press.
- 2 -Drill Presses, 1/2" dia. capacity.
- 2 -Burgmaster, multi-spindle turret drilling machines.
- 1 -Bridgeport Mill, digital read out, X and Z axis power feed.

### Support Equipment:

- 1 -Diamond Grinder, E. Hoffman.
- 1 -Diamond Grinder, Cincinnati Milacron-AS.
- 1 -Surface Grinder, Boyar Schultz H618, 6"x18" magnetic table.
- 1 -Bead Blast Unit, INFA Blast.
- 1 -Comco Micro-Blaster.
- 2 -Tap-Matic tapping units, 30X and 100XB.
- 2 -Criterion Boring Heads in .0001 graduations.
- 1 -Mastercam CAD-CAM Software.
- 1 -Part Maker CAD-CAM Software.
- 1 -PC 1.1 GHZ Server Computer.
- 19 -Computers networked to server.
- 5 -Various printers.

### Inspection Equipment List:

- 2 -Surface Plates, 3'x4', Mojave.
- 3 -Surface Plate, 2'x1-1/2', Standridge.
- 4 -Optical Comparators, 13" screen, 4"x6" table, digital readout, gage master.
- 4 -Height Gages, 0-12", Mitutoyo with dial indicator and digital count.
- 7 -Microscopes, 40X magnification.
- 3 -Standard plug gage sets .011-.500.
- 1 -Standard plug gage set.501-.750.
- Assortment of Deltronic type gages ranging from .0050 - 1.2500 dia.
- 250 (Plus) -Thread Gages, 2A and 2B, 0-80 UNF to 1" – 32 UN.
- 7 -Etalon Indicator Mics., 0-1", .0001 increments.
- 1 -Mahr bench comparator, 0-1", .00005 graduation.
- 1 -Set Phase II 0-6" Micrometer.
- 1 -Starrett 2-12" Inside Micrometer, .001 graduations.
- 2 -Diatest Bore Gage set, .075 - .700, .0001 graduations.
- 1 -Diatest Bore Gage set, .039 - .165, .0001 graduations.
- 3 -Sunnens Bore Gages, Range .370" – 1.500"
- 1 -Mitutoyo Bench Center
- 1 -Mitutoyo Surf-Test Profilometer
- 3 -Mitutoyo Digital Drop Gage 0-1"
- 1 -Mitutoyo QuickScope

**Examples of our capabilities are available for view on our website.**  
**Please visit [www.PacificPrecisionInc.com](http://www.PacificPrecisionInc.com)**