



January 2024

Manufacturing Equipment List

CNC Swiss Automatic Screw Machines:

- 1 -Citizen CNC (A32 Type VII) Swiss Type Screw Machine (7 axis-simultaneous) 32 mm capacity.
- 1 -Citizen CNC (M-32Y Type IX) Swiss Type Screw Machine (11 Axis – Simultaneous), 32mm capacity with live tooling, sub-spindle and bar loader.
- 3 -Citizen CNC (L20 Type VIII & Type VIII) Swiss Type Screw Machine, 3/4 capacity with live tooling, sub-spindle and automatic bar loader.
- 3 -Citizen CNC (L20) Swiss Type Screw Machines, 13/16" capacity with live tooling, sub-spindle and bar loader (1).
- 1 -Citizen CNC (K16) Swiss Type Screw Machine, 1/2" capacity with live tooling, sub-spindle and automatic bar loader.
- 1 -Citizen CNC (K16) Swiss Type Screw Machine, 5/8" capacity with live tooling, sub-spindle and automatic bar loader.
- 2 -Citizen CNC (B12) Swiss Type Screw Machines, 1/2" capacity, 3 with sub-spindle and automatic bar loaders.
- 1 -Citizen CNC (C16 Type IX) Swiss Type Screw Machine 5/8" capacity, sub spindle, live tooling and bar loader.
- 2 -Citizen CNC (L12) Swiss Type Screw Machine 1/2" capacity with live tooling, sub-spindle and automatic bar loader.

CNC Lathes:

- 1 -Nakamura Tome WT-20II Twin Spindle Dual Turret 2" capacity w/live tooling and automatic bar loader.
- 1-Nakamura WY-250L Twin Spindle Dual Turret 2.5" capacity w/live tooling and automatic bar loader.
- 1 -Nakamura Tome SC-150 with live tooling and C-axis.
- 1 –Doosan Puma TT1800SY Twin Spindle Dual Turret 2.5" capacity w/live tooling and automatic bar loader.
- 1 -OmniTurn GT-Jr CNC lathes.
- 1 -Hardinge DSM 59 Lathe with CNC OmniTurn attachment.

CNC Mills:

- 2 -Mori Seiki Frontier M1 CNC Mills, 20 tool magazine, X,Y and Z axis at 22"x16"x18" travel.
- 1 –Doosan 5700S w/ 5-AXIS / 15K / 40 tool magazine.
- 1 -YCM (YCI) CNC Machining center, 20 tool magazine, w/ 4th-axis at 22"x16"x18" travel.
- 1 -Haas CNC Machining center VF-2 w/ 5-AXIS trunion table thru spindle coolant.
- 1 -Haas CNC Machining center VF-4SS w/ 5-AXIS trunion table thru spindle coolant.
- 6 -Haas CNC Indexers.

CNC Wire EDM:

- 1 -Sodick AQ535L wire EDM machine.

Automated Parts Cleaning Machine:

- 1 –Karl Roll Solvent Single Chamber Cleaning Degreaser.

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.
- 1 -Drill Presses, 1/2" dia. capacity.
- 1 -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 -Mastercam CAD-CAM Software.
- 1 -Part Maker CAD-CAM Software.
- 1 WIN CNC
- Solid works

Inspection Equipment List:

- 1- Brown & Sharpe Global 07-10-07 CMM
- 1- Oasis Dual Elite Video Inspection System
- 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 -Sunnen 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.
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