



PRECISION MACHINING

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EQUIPMENT & FACILITIES

CNC TURNING CENTERS:

- (1) **Takisawa TS-4000YS Live Tooling**
 - Diameter Thru Spindle: 3.23"
 - Max. Turning Diameter: 14.57"
 - Max. Turning Length: 29.53"
 - 10" Main Spindle + 6" Sub Spindle x Y Axis
 - 12-Station Milling Turret
- (1) **Takisawa TT 2600G Type A Gantry**
 - Max. Gantry Diameter: 7.87"
 - Max. Gantry Length: 4.72"
- (1) **Takisawa TCN-2100G L3 Gantry**
- (2) **Takisawa TC-203JG Gantry**
 - Diameter Thru Spindle: 2"
 - Max. Turning Diameter: 11.81"
- (3) **Takisawa TCN-2600 L6**
 - Diameter Thru Spindle: 2.9"
 - Max. Turning Diameter: 16"

- (1) **Takisawa TM-4000Y2 Twin Spindle**
 - Diameter Thru Spindle: 3.23"
 - Max. Turning Diameter: 10"
 - 12-Station Milling Turret, Upper & Lower
 - LNS Sprint S3 Barfeeder
- (2) **Takisawa TC-203J**
 - Diameter Thru Spindle: 2"
 - Max. Turning Diameter: 11.81"
- (1) **Citizen Cincom L32 VIII Swiss**
 - Max. Turning Diameter: 1-1/4"
 - Low Frequency Vibration
 - Cincom Magazine Barloader
- (1) **Citizen Cincom A32 VIII PL Swiss**
 - Max. Turning Diameter: 1-1/4"
 - C332 Barloader

- (1) **Citizen Cincom L38 VIII Swiss**
 - Max. Turning Diameter: 1-1/2"
 - JBS 38mm Collet System
 - Edge Patriot 3-38 Barloader
- (1) **Miyano MIY-BNX-51MSY Twin Spindle**
 - Diameter Thru Spindle: 2"
 - Max. Turning Diameter: 6"
- (1) **Ameraseiki Seiki TC-2**
 - Diameter Thru Spindle: 2"
 - Max. Turning Diameter: 13"
 - Programmable Tail Stock
- (1) **Mazak Quick Turn 250 HP**
 - Diameter Thru Spindle: 3.15"
 - Max. Turning Diameter: 10"
- (1) **Hyundai-Wia 2 Axis L280**
 - Diameter Thru Spindle: 3"
 - Max. Turning Diameter: 16.14"

CNC MILLING CENTERS:

- (2) **Okuma Genos M560-V 12K / CAT50**
 - 4th Axis Rotary Table
 - Axis Travel: X = 41" Y = 22" Z = 18"
 - High Pressure Through Spindle Coolant
 - 32 Tool ATC
- (3) **Mazak 410A Nexus**
 - 4th Axis Head Index
 - Axis Travel: X = 30" Y = 16" Z = 20"
 - SMW 175 4th Axis Rotary Head

- (2) **Brother TC-S2DN**
 - 4th Axis Head Index
 - Axis Travel: X = 19.7" Y = 15.7" Z = 11.8"
 - Independent Full 4th Axis Rotary Head
- (2) **Brother S700X**
 - Axis Travel: X = 27.5" Y = 15.75" Z = 11.8"
- (1) **Brother S500X1**
 - 4th Axis Head Index
 - Axis Travel: X = 19.68" Y = 15.75" Z = 11.8"

- (1) **Mazak 640M VTC160B**
 - Axis Travel: X = 44" Y = 16" Z = 22"
- (1) **Hyundai-Wia VX500 Vertical**
 - 4th Axis Head Index
 - Axis Travel: X = 40" Y = 20" Z = 20"
- (1) **Fadal VMC 2216FX**
 - 4th Axis Head Index
 - Axis Travel: X = 30" Y = 16" Z = 20"
- (3) **Kitamura 3XD**
 - 12000 RPM Spindle Speed
 - Axis Travel: X = 30" Y = 30" Z = 20"

OTHER TECHNOLOGY

ROBOTICS:

- (4) Motoman NX100 Robots
- (1) Universal Robot, UR10E cobot
- (1) Universal Robot, UR20 cobot

CUSTOMIZED AUTOMATION:

- (2) Multispindle Torque Machine
- (2) Multispindle Drill & Tap with Autoload

- (1) Autoload Sorting/ Weighing Machine with Auto Paint Marker
- (1) Autoload Laser Checker For Lathes

WIRE EDM:

- (1) Sodick VN600Q (LN3W) Wire EDM
 - X, Y, Z Axis Travels (600 x 400 x 310 mm)

SAWING EQUIPMENT:

- (2) HydMech H14 Band Saw
 - Capacity: 14" Round

METROLOGY:

- (2) Mitutoyo CRT-AV7106 CMM
- (1) Mitutoyo PH-3115 Optical Comparator
- (1) Mitutoyo SJ-411 Surface Roughness Tester
- (1) Mitutoyo B-231 Manual CMM

LASER ETCHING:

- (1) Zetalase XL SE20 Laser Marking System