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TOOL & MANUFACTURING  
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## EQUIPMENT & FACILITIES

### CNC TURNING CENTERS:

#### (1) Takisawa TS-4000YS

- Diameter Thru Spindle:  
3.23" Max. Bar Work Capacity
- Max. Turning Diameter:  
14.57" (11.02" Standard)
- Max. Turning Length: 29.53"
- 10" Main Spindle + 6" Sub  
Spindle x Y Axis
- 12-Station Milling Turret
- High Rigid Box Type Slide Way

#### (1) Takisawa TCN-2100G L3

- Diameter Thru Spindle: 2"
- Max. Turning Diameter: 11.81"
- Box Slide Way X Z

#### (3) Takisawa TCN-2600 L6

- Diameter Thru Spindle: 2.9"
- Max. Turning Diameter: 16"
- Box Slide Way X Z

#### (1) Takisawa TM-4000Y2

- Diameter Thru Spindle: 3.7"  
(3.23" Max. Bar Capacity)
- Max. Turning Diameter: 10"
- 12-Station Milling Turret,  
Upper & Lower
- High Rigid Box Type Slide Way
- LNS Sprint S3 Barfeeder

#### (2) Takisawa TC-203J &

#### (2) Takisawa TC-203JG

- Diameter Thru Spindle: 2"
- Max. Turning Diameter: 11.81"
- Box Slide Way X Z

#### (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) Citizen Cincom Miyano MIY-BNX-51MSY

- 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"
- Max. Swing: 17.3"
- Max. Bar Diameter: 2-3/4"  
(3" w/ Bore Chuck)

#### (1) Hyundai 2 Axis L280

- Max. Turning Diameter: 16.14"
- Maximum Thru Spindle: 3"

### CNC MILLING CENTERS:

#### (4) Mazak 410A Nexus

- 4th Axis Head Index
- Axis Travel:  
X = 30" Y = 16" Z = 20"
- SMW 175 4th Axis Rotary Head

#### (3) Brother TC-S2D

- 4th Axis Head Index
- Axis Travel:  
X = 19.7" Y = 15.7" Z = 11.8"
- Independent Full 4th Axis  
Rotary Head

#### (1) Brother TC-S2D

- Axis Travel:  
X = 19.7" Y = 15.7" Z = 11.8"

#### (1) Brother S700X1

- 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-Kia 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"
- 8,000 RPM 22 HP

#### (1) Kent KVR-2418

- Axis Travel:  
X = 24.01" Y = 18.11" Z = 18.89"
- Spindle Taper

#### (4) 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

### SAWING EQUIPMENT:

- (2) Hy-Mech H12 Band Saw  
- Capacity: 12" x 12" / 12" Round

### METROLOGY:

- (1) Mitutoyo PH-3115 Optical Comparator
- (1) Hexagon Global S Green  
7.10.7 DCC CMM
- (1) Mitutoyo B-231 Manual CMM

### LASER ETCHING:

- (1) Zetalase XL SE20 Laser Marking System