

## CNC Milling Equipment

### Anayak HVM-5000

- 78"x168"x46"
- Horizontal & Vertical machining center with Huron type universal head
- 50 Taper
- 30 tool magazine

### Johnford 850 VMC

- Pallet changer
- 31" x 22" x 26"
- Coolant through spindle
- 24 tool magazine

### Mazak AJV 35/60

- Pallet changer
- 60" x 35" x 26"
- 60 tool magazine
- Renishaw probe

### Enshu 650 VX

- 65" x 25.6" x 26"
- 30 tool magazine

### SNK VMC

- 44.5" x 26" x 25.5"
- 24 tool magazine

### Hitachi Seiki VK65 VMC (QTY 2)

- Pallet changer
- 50" x 26" x 26"
- 30 tool magazine
- Through spindle coolant

### Makino A81 HMC

- 35.433" x 31.496" x 40.157"
- 4<sup>th</sup> axis contouring
- 300 PSI through spindle coolant
- 60 position tool changer
- Probe
- 2- 630mm pallet shuttle system

### Doosan ACE DB130 Boring Mill

- 118.1" x 78.7" x 63"
- Traveling Column
- 4<sup>th</sup> axis contouring
- Through spindle coolant
- 27.6" Spindle Extension
- 90 position tool changer

### Giddings & Lewis G60-T HVM

- 96"x120"x51"
- G&L right angle head attachment
- 6" Spindle
- 50 Taper

### OKK MCH 800 HMC

- 79" x 40" x 32"
- Linear Scale Feed Back
- 50 tool magazine

### OKK MCH 700 HMC

- 59" x 31.50" x 31.50"
- Linear Scale Feed Back
- 40 tool magazine

### Mazak - HMC-15 4 Axis

- 6 pallet carousel, 24.8" square pallets
- 39.39" x 31.5" x 29.53"
- 80 tool magazine

### Niigata HN-80C 4 Axis HMC

- 60.2" x 48" x 36.2"
- 31.5" Square pallets with changer
- 60 tool magazine
- Through spindle coolant

### Hitachi Seiki HG 800 4 Axis HMC (QTY 2)

- 44" x 47" x 33"
- 31.5" Square pallets
- 60 tool magazine
- Through spindle coolant

## CNC Milling Equipment (continued)

### Matsuura MC-900H-63 PC2 HMC

- 36.22" x 28.34" x 29.92"
- 4<sup>th</sup> axis contouring
- 1000 psi through spindle coolant
- 50 position tool changer
- 6000 rpm spindle
- 630mm pallet shuttle system

### Matsuura MAM-600HF PC-2 HMC

- 23.6" x 21.6" x 21.6"
- 360 degree positioning 4<sup>th</sup> axis
- 1000 psi through spindle coolant
- 52 position tool changer
- 8000 rpm spindle
- 400mm pallet shuttle system

## CNC Turning Equipment

### Doosan PUMA 700M LATHE

- Live Tooling
- 35.4" swing
- 63" max turning length
- 12 station turret
- 60 HP Spindle
- 6.3" Bar Capacity
- Programmable Tailstock

### Doosan INVERTURN LATHE

- Live Tooling & Auto Load System
- Max Turning 12.6" dia.
- Chuck diameter 12"
- 7.9" max turning length
- 12 station turret
- 30 HP Spindle
- 4000 RPM
- 10 pallet loading stations

### Bardons & Oliver Model 36 TBC Cut-Off Lathe

- Live Tooling
- 6-5/8" Diameter Bar Capacity
- 24' Length Capacity Loading Table

### Cincinnati Milacron 2216C Lathe (QTY 2)

- 30" swing
- 40" between centers
- 12 station turret
- 60 HP Spindle

### Danichi Model B-70 Lathe

- 20" swing
- 80" between centers
- 12 station turret
- 50 HP Spindle

### Hitachi Seiki Lathe

- 20" swing
- 36" between centers
- 10 station turret with quick change tooling

### Scheiss Vertical Turning Center

- 49" diameter table
- 72" swing
- 52" under the rail

### Scheiss Vertimaster Model 16DS

- Twelve station automatic changer with vertical, right angle & universal milling heads
- 49" diameter table
- 63" swing
- 60" under the rail

### Toshiba Vertical Turning Center

- 49" diameter table
- 60" swing
- 60" under the rail

## CNC Turning Equipment (continued)

### Danichi Model B-70 Lathe (QTY 2)

- 27.5" swing
- 60" between centers
- 12 station turret
- 50 HP Spindle

### Danichi Model B-70 Lathe

- 20" swing
- 40" between centers
- 12 station turret
- 50 HP Spindle

### Mori Seiki SL-5B CNC lathe

- 20" Swing
- 10" 3-jaw chuck
- 10-position turret

### Mori Seiki SL-0H CNC chucker

- 6" 3-jaw chuck
- Collet chuck
- 8-position turret
- 6000 RPM spindle

### Mazak Slant Turn 40N-ATC M/C

- 50-taper spindle
- 2,000 rpm spindle
- 60-position ATC (30 turn, 30 mill)
- 15" 3-jaw chuck

### Kitako Model MT4-120 Lathe

- 4 spindles
- 6" chucks
- 6 station turrets

### Kitako Model MT4-170 Lathe (QTY 7)

- 4 spindles
- 8" chucks
- 8 station turrets

### Kitako Model VT4-200 Lathe (QTY 2)

- 4 spindles
- 8" chucks
- 8 station turrets

### Kitako Model VT4-350 Lathe

- 4 spindle
- 12" chucks
- Two slides (4 axis)

### Kitako Model VT4-550 Lathe

- 4 spindles
- 16" chucks
- 6 station turrets

### Okuma Cadet LNC8 CNC lathe

- 8" 3-jaw chuck
- 10-position turret

## Sawing Equipment

### Amada HM 400 saws (QTY 3)

- 16" x 16" capacity
- 24' bar capacity under 3 ton crane

### Kasto Twin A4 automatic saw (QTY 2)

- 15-3/4" x 15-3/4" capacity
- 24' bar capacity under 3 ton crane

## Inspection Equipment

### Hemel Microstar Check Master CMM

- Renishaw MH8 Probe
- 69"x34"x22"

### J&L PC-14A 14" Optical Comparator

- with side illumination

### FaroArm Edge Portable CMM with

- 8 ft. Reach

### FaroArm Platinum Portable CMM with

- 8 ft. Reach

### Complete Compliment of Calibrated Measuring Gauges

## Welding Equipment

Multiple 300 & 600 amp MIG welders

Multiple 600 amp TIG welders

## Manufacturing Facilities

ISO 9001:2008 Certified

Over 98,000 sq. ft. Manufacturing Space

Crane Capacity up to 40 tons

## Materials

Hawk is proficient in the processing of a wide range of materials including steel, stainless steel, tool steel, cast- and gray-iron, copper, brass, aluminum, titanium, Inconel, Monel, Hardox, Hastelloy and plastics.