

## Machining Equipment

### (5) BROTHER TC-52C-0

- High Speed CNC Vertical Milling & Tapping Center
- Travel X=27.6" Y=15.7" Z=11.8"
- Table 31.5" x 12.6"
- 16,000 RPM Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"

### (3) HAAS VF-2SS

- High Speed CNC Vertical Milling Center
- Travel X=30.0" Y=20.0" Z=15.0"
- Table 36.0" x 14.0"
- 12,000 RPM 40 Taper Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"

### (1) HAAS VF-4SS

- High Speed CNC Vertical Milling Center
- Travel X=50.0" Y=20.0" Z=25.0"
- Table 52.0" x 18.0"
- 12,000 RPM 40 Taper Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"
- MIDICO Pallet Changer

### (1) MATSUURA MC-800VF

- CNC Vertical Milling Center
- Travel X=31.5" Y=17.3" Z=19.0"
- Table 45.0" x 20.0" (T-Slotted)
- 8,000 RPM 40 Taper Spindle

### (1) HAAS SL-10

- CNC Turning Center
- Travel X=6.25" Z=14.00"
- X Rapid Feed Rate (inch / min) 1200
- Z Rapid Feed Rate (inch / min) 1200
- Bar Capacity 1.75"
- Max Cutting Diameter 11.0"
- Max Cutting Length 14.00"
- Tool Capacity 12
- Tool Index Time (sec) 1.0
- 6,000 RPM Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"

### (2) HAAS ST-20

- CNC Turning Center
- Travel X=9.3" Z=21.00"
- X Rapid Feed Rate (inch / min) 945
- Z Rapid Feed Rate (inch / min) 945
- Bar Capacity 2.00"
- Max Cutting Diameter 15.00"
- Max Cutting Length 20.50"
- Swing Diameter: Over Front Apron 31.75"
- 12 Station BOT Turret
- 4,000 RPM Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"

### (1) HAAS SL-30

- CNC Turning Center
- Travel X=11.30" Z=34.00"
- X Rapid Feed Rate (inch / min) 710
- Z Rapid Feed Rate (inch / min) 710
- Bar Capacity 4.00"
- Between Centers 39.00"
- Max Cutting Diameter 16.00"
- Max Cutting Length 34.00"
- Tool Capacity 12
- Tool Index Time (sec) 1.0
- 2,400 RPM Spindle
- Positioning Accuracy +/- 0.0002"
- Repeatability Accuracy +/- 0.0001"
- BIG BORE Option
- Haas Servo Bar 300 Automatic Bar Feeder

### (1) ENCO 100-1527

- Manual Milling Center
- Step Pulley Vertical Mill
- Digital Readout
- Travel X=30.0" Y=12.0" Z=16.0"
- Table 42.0" x 9.0"
- Stepped Variable: 16 Steps
- 3,400 RPM Spindle

### (1) ENCO 510-2585

- Manual Bench Lathe
- Digital Readout
- Carriage Travel 34.00"
- Bar Capacity 1.5"
- 1,500 RPM Spindle

## Inspection Equipment

### (1) Browne & Sharpe ONE 7.7.5

- Coordinate Measuring Machine (CMM)
- UMP Control System
- TESASTAR Touch Trigger Probe and Stylus Kit
- PC DMIS PRO Measurement Software

### Hand Held Inspection Tools

- Digital Calipers
- Micrometers
- Go / No Go Gauges

### (1) TESA MicroHite 3D

- Coordinate Measuring Machine (CMM)
- X=18" Y=20" Z=16"
- TESA Reflex Hardware
- TESASTAR Touch Trigger Probe

### (1) Browne & Sharpe Data-Hite 599-1013

- 18.0" Digital Height Gauge

### (1) Mitutoyo 192-112

- 18.0" Digital Height Gauge

### (1) Mitutoyo PJ311

- Optical Comparator Projector

### (2) Granite Surface Plates

- 6.0' x 4.0' Grade A
- 18.0" x 24.0" Grade AA

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