

# FACILITIES LIST

AS9100C / ISO 9001:2008



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## HORIZONTAL MILLING

- ▲ (1) KIWA KH-45 - 8 pallet, 220 tool, 12,000 RPM\*
- ▲ (1) KIWA KH-45 - 6 pallet, 220 tool, 12,000 RPM\*
- ▲ (1) KIWA KH-45 - 6 pallet, 120 tool, 12,000 RPM\*
- ▲ (1) KIWA KNH-426X - 6 pallet, 120 tool, 12,000 RPM\*
- ▲ (1) Mori Seiki SH 500 - 2 pallet, 40 tool, 12,000 RPM\*

\* Part and tool probing utilized on equipment.



## VERTICAL MILLING

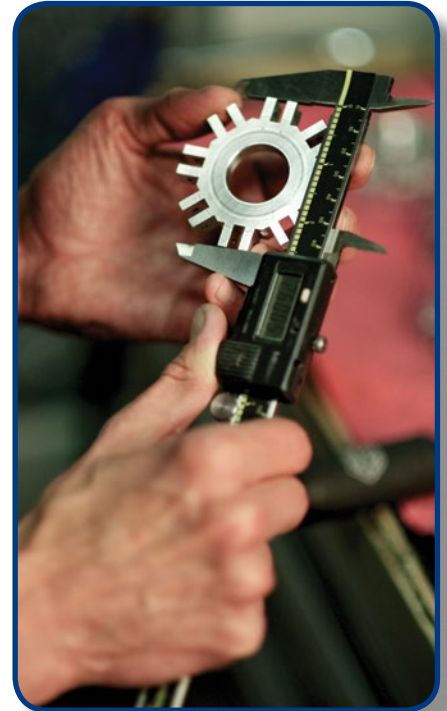
- ▲ (1) MAZAK VCN-530CII HS - 48 tools, X41.3", Y20.88", Z20.08", 18,000 RPM
- ▲ (1) MAZAK VCN-530CII - 48 tools, X40", Y20", Z25", 12,000 RPM, 2 Pallet
- ▲ (1) ROBODRILL α-T21iE - 21 tools, X19.7", Y15.7", Z13", 24,000 RPM
- ▲ (1) ROBODRILL α-D21LiA5 - 21 tools, X27.6", Y15.7", Z13", 24,000 RPM w/DDR 260i 4th Axis
- ▲ (1) ROBODRILL α-D21LiA5 PC2 - 21 tools, X27.6", Y15.7", Z13", 24,000 RPM, 2 pallet
- ▲ (1) HAAS VF-OE - 20 tool, X30", Y16", Z25"



## VERTICAL MILLING (continued)

- ▲ (1) HAAS VF-4 - 40 tool, X50", Y20", Z25"
- ▲ (3) HAAS VF-4 - 20 tool, X50", Y20", Z25"
- ▲ (1) HAAS VF-5 - 5 Axis, 40 tool, X50", Y26", Z25"
- ▲ (1) HAAS VF-6 - 5 Axis, 40 tool, X64", Y32", Z38"
- ▲ (4) Bridgeport 48" - X48", Y12", Z5"
- ▲ (2) HAAS TR210 5 Axis Trunnion Table
- ▲ (1) HAAS TR160Y 5 Axis Trunnion Table
- ▲ (2) HAAS 5C Rotary
- ▲ (3) HAAS HR210 Rotary Tables

\* Part and tool probing utilized on equipment.



## SCREW MACHINES

- ▲ (1) Citizen Cincom L32 XII - 38mm 1.496" Dia
- ▲ (2) Citizen Cincom L20 VII - 20mm .787" Dia
- ▲ (1) Citizen Cincom L20 VIII - 20mm .787" Dia



## TURNING CENTERS

- ▲ (1) Mazak Integrex i-100 Bartac-S - 4" Bar, 8" Chuck
- ▲ (1) Mazak Primos 100 - 1.40" Bar
- ▲ (1) Mazak Quick Turn Nexus 250MY - 3" Bar, 10" Chuck
- ▲ (1) Mori-Seiki ZT 2500Y - 2.800" Bar, 10" Chuck
- ▲ (1) Nakamura Tome 20II - 2" Bar, 8" Chuck
- ▲ (2) Hardinge Conquest GT - 1-1/16" Bar
- ▲ (1) Mori-Seiki ZT 1500YB - 2.50" Bar, 8" Chuck



## TURNING CENTERS (continued)

- ▲ (1) **DAEWOO Puma 250MSB – 3" Bar, 10" Chuck**
- ▲ (1) **DAEWOO Puma 400MB – 4" Bar, 15" Chuck**
- ▲ (1) **Tong-Tai TOPPER TNL - 2" Bar**
- ▲ (1) **Hardinge OmniTurn CNC - 1-1/16" Bar**

\* Multiple prototype and support equipment options  
including Engine Lathe capacity up to 20" Dia x 60"



## TOOL CRIB PRESETTING

Accurate off-line presetting of cutting tools eliminates tool location touch-off routine during machine set up, reducing set up times by as much as 50% which reduces costs.

- ▲ (1) **Zoller V400Z Tool Presetter**
- ▲ (1) **Lyndex Tool Presetter**
- ▲ **CribMaster Software**
- ▲ (1) **CribMaster vending machine**
- ▲ (1) **MSC Advantage vending machine**

\* Due to Antron's broad customer base we maintain a diverse tooling arsenal. Our database of inventoried items are bar coded and set with reorder points with more standardized items running from VMI vending machines.



## QUALITY ASSURANCE / INSPECTION

We maintain an up to date and fully equipped inspection department including CMM, Measuring Microscopes, Super Micrometer and SPC Capabilities.

- ▲ (2) **Mitutoyo Crysta - Apex C776 CMM**  
**27.75" x 27.75" x 23.82"**
- ▲ (1) **Nikon Measuring Scope 20 with QC8000 Software**
- ▲ (1) **Nikon Stereoscopic Zoom Microscope (SMZ 800)**  
**130 power**
- ▲ (1) **Nikon Stereoscopic Zoom Microscope (SMZ 800)**  
**60 power**



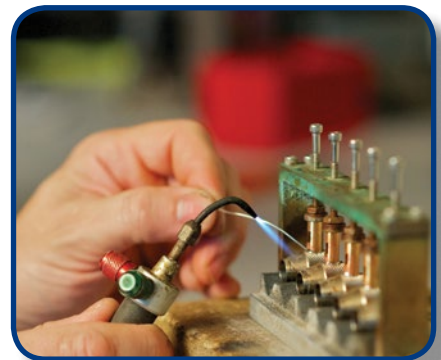
## QUALITY ASSURANCE / INSPECTION (continued)

- ▲ (3) Mitutoyo 518-233 - 24" QM Height
- ▲ (2) Mitutoyo 192-152 - 24" dial height gage
- ▲ (5) Mitutoyo 570-312 - 12" Absolute Digimatic height gages
- ▲ (1) Pratt & Whitney Super Micrometer
- ▲ Measure Link SPC Software
- ▲ (1) B&S Micro-Hite M 600, 24" Height Gage
- ▲ (1) B&S Tesa-Hite Magna 400, 16" Height Gage



## BRAZING AND WELDING

- ▲ (2) Red Turbo Vacuum Furnace, 1200°C, 10<sup>-6</sup> mbar
- ▲ (1) Pillar Industries MK-20 Induction Brazer 5kW
- ▲ (1) Oxygen Acetylene Torch (Silver Solder, Cutting)
- ▲ (1) Lincoln Wire-Matic 250 MIG Welder
- ▲ (1) Branson 910iw, Ultrasonic Welder



## SAWING

- ▲ (1) Amada HFA250W Band Saw, 11.8" x 10" Flat, 10" Dia
- ▲ (1) DoAll Automatic Horizontal Band Saw  
12" x 13" Flat, 12.75" Dia
- ▲ (1) Kalamazoo Cold Saw, 3" x 3" Flat, 4" Dia



## WIRE EDM

- ▲ (1) Fanuc Robocut Alpha OCS-AWF, 5-Axis, 12.6"x8.7"x10"

## PART MARKING AND IDENTIFICATION

- ▲ **Epilog Helix 75 Watt CO2 Laser, (X)24", (Y)18", (Z)11"**
- ▲ **Epilog Fibermark 200 Watt Ytterbium (YAG) Fiber Laser, (X)24", (Y)12", (Z)6.5"**
- ▲ **Silk Screening**
- ▲ **CNC Engraving**
- ▲ **Metal Stamp Marking**
- ▲ **Bar Coding**
- ▲ **(1) Sonitek TS100, Thermal Press**
- ▲ **Gravograph Rotary Engraver IS400 Volume Engraver**



## FINISHING AND PLATING

- ▲ **(1) Roto-Finish 39 cubic foot Tumbler**
- ▲ **(1) CLEMCO A200-2 Automated Blaster, RPH-2L Dust Collector**
- ▲ **(1) Global Finishing Solutions 8' x 8' x 6' Paint Booth**
- ▲ **(1) N.E. Oven and Furnace, 4' x 4' x 8', AMS-2750 Certified**
- ▲ **(1) Passivation per ASTM A967 & SAE AMS 2700**
- ▲ **(1) Sweco 20 cubic foot Vibratory Tumbler**
- ▲ **(2) Sweco 10 cubic foot Vibratory Tumbler**
- ▲ **(1) Baron-Blakeslee MLR 216 Vapor Degreaser**

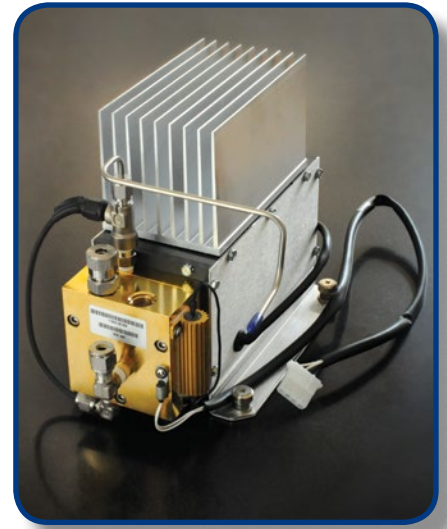
\* Full range of sandblast cabinets & tumbling machines utilized throughout the shop.



## CONTRACT MANUFACTURING

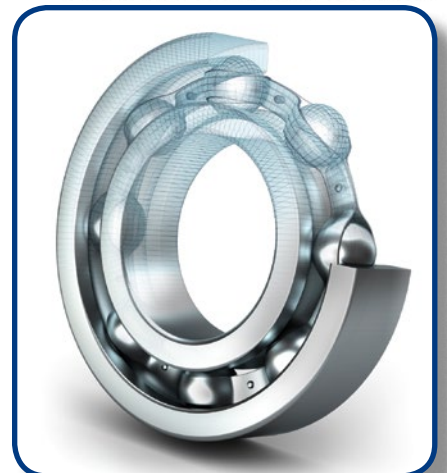
- ▲ (1) Schenck Trebel H2BU, Two Plane Horizontal Balancing Machine
- ▲ (1) Haeger Model #HP6-B Insertion Machine
- ▲ Environment controlled, anti-static electronic test area
- ▲ Dedicated, ventilated assembly areas
- ▲ Private labeling and direct drop shipment
- ▲ Custom packaging

\*Antron incorporates lean manufacturing principles throughout our manufacturing process. By incorporating Kanban systems throughout the value stream we have increased our flexibility to respond to customers needs just in time (JIT). With point of use inventory and our 5S program we have enhanced our response time, reduced waste and optimized our productivity.



## ENGINEERING AND PROGRAMMING

- ▲ (1) FARO Arm Platinum 6ft. Portable CMM & Articulating Part Scanner
- ▲ (1) Dimension 3D ABS Rapid Prototyping Printer
- ▲ Design and reverse engineering
- ▲ Solidworks™ Design CAD Software
- ▲ Cam Works (TM) Programming Software
- ▲ Mastercam® 3D Design, Multi Axis Software
- ▲ JobBOSS MRP/ERP Software



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