

### **I - Machining Centers**

- 1-Benchman MX 19" x 7"
- 1-HAAS VF6 -64" x 32" x 30" - axis capability. 20 Tool ATC
- 1-HAAS VF2-20" x 20" x 18" -axis capability 20 Tool ATC
- 1-HAAS VF-E 20" x 20" x 30" axis capability 20 Tool ATC
- 1-HAAS VF - 2 20" x 20" x 30" axis capability 20 Tool ATC
- 3-HAAS Super MiniMill 16" x 12" x 10" axis capability 10 Tool ATC
- 2-HAAS Super MiniMill 2 20" x 15" x 12" axis capability 20 Tool ATC
- 6-HAAS VM-2 MOLDDMAKING 3D 20" x 20" x 30" 24 Tool ATC
  - With 4th/5th Axis rotary and indexing capabilities
- 1-HAAS VM-2 MOLDDMAKING 3D 20" x 20" x 30" 50 Tool ATC
  - 15H rpm spindle and through spindle coolant
- 1-HAAS EC-300 Horizontal Pallet Changer 40 Tool ATC
- 1-HAAS VF-5SS 50" x 26" x 25" 30 Tool ATC and through spindle coolant
- 1-OKUMA MCV-4020 32 tool CNC Milling Center

### **Accessories**

- 10-HAAS Indexers. Other Assorted Automatic & Manual Indexers. Vacuum Pump & Fixtures

### **Programming System**

- CIMCO DNC MAX server software with Ethernet
- IBM PC with Geo-Math Software, DSI Reader-Punch, Epson Printer.
- SurfCam--- 5 axis programming with NURBS / AutoCad / Anvil Parts
- Maker Programming System
- Delcam---5axis programming

### **II - Controlled Environment Machining (UHMW/Peek)**

- 1-HAAS VM-2 MOLDDMAKING 3D 20"x20"x30" 24 Tool ATC- with 4th / 5th axis rotary and indexing capabilities
- 1-Hardinge Talent 8/52 2" spindle capacity
- 1-HAAS CL-10 Chucker Style Lathe, 1.25" spindle capacity

### **III-Mill/Turn**

- 2-Okuma Multus-B300-w 22.83 x 6.300 x 36.800
- 3-Willemin 408 MT 7 axis 9.840 x 7.875 x 11.810

### **IV- Turning Centers**

- 5-Hardinge Quest GT27SP 1-5/8" capacity
- 1-Hardinge Talent 6/45 1-5/8" capacity
- 2-Hardinge Talent 8/52 2" spindle capacity
- 1-Yang ML -25 - 12" - 12 Tool Fanuc Control
- 1-Okuma-Crown BigBore 3" spindle capacity 12 station turret
- 1-OKUMA LT10 - MY Twin Spindle, twin turret, 2-1/2" spindle capacity
- 1-OKUMA LT200 Twin Spindle, twin turret, 2-1/2" spindle capacity
- 3-OKUMA CAPTAIN LC-370 2 axis 12 station turret 2" spindle capacity
- 1-OKUMA LB 3000EX Bigbore 24 station turret 2 3/4" spindle capacity

#### **V - Turning**

1-Okuma Type LS Engine Lathe, 21" x 59"  
3-Hardinge Model HLV-H Precision Lathe, 9"  
1-Hardinge Model HC Precision Chucker, 1 with Automatic Threading  
1-Sharp 24" x 80"  
1-Twister Speed Lathe

#### Accessories

True-Trace Tracing Attachments, Northfield Air Chucks & Other Assorted Chucks, Tool Post Grinders

#### **VI - Milling**

4-Sharp Vertical Millers with Digital Readouts, Trav-a-dials & Power Feeds.  
Assorted Table Lengths.  
1-Sharp- Accurite Retrofit CNC  
1-Top One-Fagor CNC

#### Accessories

Troyoke Rotary Tables, Nikken Rotary Table - Super Spacer, Indexing Heads, Dividing Heads, Slotting Attachments, Right Angle Attachments, Contour Grinding Attachments, Boring Heads, Chucks, Vises, Box Angles, Angle Plates, etc.

#### **VII - Drilling & Tapping**

4-Dumore High Speed Sensitive Drill Presses  
1-Single Spindle Drill Presses  
1-R&S Drill Sharpener

#### **VIII - Grinding**

1-Sunnen Hones, 1 with Automatic Sizing  
1-Cincinatti Tool Grinder with attachments  
1-Sharp surface Grinder 8"x 20"

#### **IX - EDM**

1-Agie Classic 3H  
2-Agie Classic 2S  
1-Agie Charmilles Cut E350

#### **X - Lasers**

2-Trumpf Vector Mark VM3 Trumpf Laser marker  
1-TLSI Himark 400 70W NDYAC Laser Engraver/marker  
1-Alase Technologies CO2 Laser Marker with XYZ Table  
1-GSI Lumonics JK300HP 300 Watt Yag Laser  
1-GSI Lumonics Luxstar 100 4 axis welder  
2-Miyachi Unitek LW150A 5axis laser welder  
1-Tykma 4 axis laser marker

## **XI - Packaging & Other**

- 1-BELCO Heat Sealer 2020
- 1-SENCORP Heat Sealer, Model No. 12PV/2
- 1-ALLOYD Heat Sealer
- 1-FUJI Impulse Pouch Sealer MS-350-NP
- 1-Grieve HA-850 Electric Stress Relieving Oven, Certified Accuracy
- 1-Do-all Model C1213 Automatic Horizontal Cut Off Saw
- 1-Grob Band Saw
- 2-U.S. Double End Buffer-Polisher
- 1-Trinco Dry Blast Unit
- 1-Lectroetch Model #V-10A Etching Unit
- 1-Black Diamond Drill Grinder
- 1-Hoffman Tool Sharpener (Diamond Wheel)
- 1-Glendo Accu-Finish Tool Sharpener (Diamond Wheel)
- Various-Bench Tool Grinders
- 1-Rockwell 1" Belt Sander
- 2-Pencil Blasters
- 3-Sand Blasters
- 1-Table saw 8"
- 3-Double Buffers
- 1-Branson LED 1620 Ultrasonic vapor Degreaser
- 1-Baron Blakeslee Still
- 1-Wilton Belt Sander with 12" disc
- 1-Kalamazoo Abrasive Cut Off Saw
- Various-Lapping Plates
- 2-Hand Operated Arbor Presses
- Various-Deburring Optical Magnifiers
- 1-50 Ton Arbor press
- 2-Deionized Ultrasonic cleaning system
- 2-Deionized Filter system
- 1-Reverse Osmosis Filter System
- 7-Simco Top Gun
- 2-Branson CH2024 Ultrasonic Wash Tanks (single tank)
- 1-Branson Benchmark Ultrasonic Wash Tank (three tanks)
- 3-Branson 2000X Ultrasonic Welder
- 1-Greco Bros. Ultrasonic Wash Tank (three tanks)
- 1-Greco Bros. Ultrasonic Wash Tank (two tanks)
- 1-PCH/M-102 Cutmaster
- 2-Toyota Lift 6000 lb.
- 1-Lexco Weld Table
- 3-Weld Indexers
- 1- Fusion Ultraviolet Light System
- 3-Despatch Lad series oven in the clean room
- 1- Encon DE-4 Wastewater Evaporator

## XII – Inspection

- 1-Mitutoyo MACH Ko-ga-me CMM
- 1-Zeiss Contura CMM 1000mm X 1200mm X 600mm (39" X 47" X 23")
- 1-Nikon Profile Projector V-12B Optical Comparator
- 1-Mitutoyo Measuring MF-U
- 1-QVI Sprint RAM Optical 300
- 1-Mitutoyo Litematic VL-50 High Accuracy Drop Indicator
- 1-Material Analyzer
- 1-GAGetrak Calibration Software
- 1-LAL Testing System
- 4-Mitutoyo Programmable Coordinate Measurement Machine, Crysta-Apex C544 with Renishaw PH10T Probe
- 1-Numerex CMM with QuadraCheck Software
- 5-OptiFlex 418 Vision System
- 1-J & L Optical Comparator
- 1-J & L Epic 230 Optical Comparator
- 1-Mitutoyo AH-14 Optical Comparator
- 1-Mitutoyo Quick Image Vision System
- 1-Mitutoyo Optical Comparator with Read Out
- 1-Mitutoyo Surface Roughness Tester SJ-210
- 2-Micro Vu Spectra Comparator
- 1-Instron 4444 with 400 and 1000 lb. Load cells
- 1-Micro-Hite Brown/Sharp
- 1-Micro Hite 600
- 1-Mitutoyo Digi-Matic Height Gage-12"
- 1-Starrett Digi-Check Height Gage-18"
- 2-Starrett Digi-Check Height Gage-12"
- 1-Brown & Sharpe Hite-icator Height Gage-10"
- 1-Precision Rotary Table
- 3-Starrett Super Bench Micrometer
- 5-A/O 569 Zoom Microscope
- 2-Federal Dimensionaire Air Gages - .00002
- 1-Federal Dimensionaire Air Gages - .00005
- 1-Federal Electronic Probe - .00001 Grad.
- 1-Indi-Square
- 2-Rockwell Hardness Testers
- 6-Sunnen Gages PG800, .375" to 2.970" Dia.
- 3-Sunnen Dial Bore Gages with Setting Fixtures, .495" to 6.125" Dia.
- 3-Federal Dial Bore gages .495" to 6 Dia.
- 8-Gage Block Sets
- 1-Do All Bench Center with Granite Base, 6" x 6" x 30"
- 2-48" x 72" Starrett Grade AA Crystal Pink Surface Plate
- 13-12" X 8" Granite Surface Plate
- 1-36" X 48" Granite Surface Plate
- 5-9" X 12" Granite Surface Plate
- 1-24" X 36" Grade B Granite Surface Plate
- 1-24" x 24" Grade A Granite Surface Plate
- 1-18" x 24" Grade B Surface Plate

## **XII - Inspection**

10-12" x 18" Grades A & B Granite Surface Plate  
1-Van Keuren Optical Flat  
1-Simpson Continuity Tester  
Micrometers-1" to 15"  
Dial Calipers-1" to 13"  
Vernier Calipers-1" to 60"  
5-TM Electronics Leak Tester  
1-TM Package Burst Tester  
1-Sprint tester  
1-Vitrek V50 AC Safety Analyzer  
1-Laser Micrometer  
2-Pocket Surf Federal  
5-High Accuracy Micrometers 0-1" .000005"  
2-Keyence Image Dimension Measuring System IM-1600 Series

### Miscellaneous

Thread Plug Gages, Thread Ring Gages, Plug Gages, Measuring Wires.

## **XIII - Clean Room Services**

15,500 square Feet of Class-7 Controlled Work Area  
Complete Device Assembly  
2-2000aed, 1100W Ultrasonic Welder  
2-2000aed, 2200W Ultrasonic Welder  
1-2000aed, 3300W Ultrasonic Welder  
3-2000X, 2500W Ultrasonic Welder  
1-2000X, 4000W Ultrasonic Welder  
1-2000iw, 1200W Ultrasonic Welder  
1-2000, 200W Ultrasonic Welder  
Electro-Surgical Instrument Processing  
    HiPot Testing  
    Dielectric / Heat Shrink Coatings  
    Valley Labs Electro-Surgical Generator Device Testing  
Pressure Decay Testing Capabilities  
Tyvek Pouching Sealing  
Tyvek Lid Sealing  
Package Validations  
    Burst Testing  
    Ship Testing  
Adhesive & Solvent Bonding  
    Tensile Strength Testing  
Pad Printing  
Control Charts, SPC  
Laser Capabilities  
    Engraving, Welding & Drilling  
Deionized Pyrogen Free Ultrasonic Cleaning  
    Validated Processes for Various Metals  
    Validated Processes for Various Plastics  
Precision Surgical Stitching  
Contract Sterilization Management  
    Sterilization Validation  
    ETO  
    GAMMA  
Equipment IQ/OQ and Process Control

**XIV - Support Systems**

ISO 13485 Certified

FDA-QSR Compliant System that follows CGMPs

ANVISA Certified

Production Control and Inventory Management

Epicor ERP System

Lean Manufacturing