

## **Equipment list:**

### **I - Machining Centers**

- 1-Benchman MX 19" x 7"
- 1-Matsuura MC-760 V-S with 30 Tool ATC & 6,000 RPM Spindle with Oil Cooler
  - 16"x30" Table Travel
- 1-HAAS VF6 -64" x 32" x 30" - axis capability. 20 tool ATC
- 1-HAAS VF1-20" 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 MOLDBAKING 3D 20" x 20" x 30" 24 tool ATC
  - With 4th/5th Axis rotary and indexing capabilities
- 1-HAAS EC-300 Horizontal Pallet Changer 40 tool ATC
- 1-Fanuc Robo Drill T14 14 tool ATC Pallet Changer
- 1-OKUMA MCV-4020 32 tool CNC Milling Center

### Accessories

- 10-HAAS Indexers. Also Assorted Other 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--- 3 axis programming with NURBS / AutoCad / Anvil
- Parts Maker Programming System
- Delcam---5axis programming

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

- 1-HAAS VM-2 MOLDBAKING 3D 20"x20"x30" 24 Tool ATC- with 4th / 5th axis rotary and indexing capabilities
- 1-Hardinge Talent 8/52 2" Spindle capacity

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

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

### **IV- Turning Centers**

- 4-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-Hardinge CHNC II, 1 5/8" Thru-Coilet capacity, 6" Chuck
- 1-Yang ML -25 - 12" - 12 Tool Fanuc Control
- 1-HAAS HL - 1 1-5/8 " capacity

1-Okuma-LT1420 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

### **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

### **X - Lasers**

1-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  
1-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-Miller Syncrowave 500 TIG/Stick Welder  
1-Miller Syncrowave 300 TIG/Stick Welder  
1-Lincoln 355 Squarewave TIG/Stick Welder  
1-Lincoln 455 STT MIG Powerwave Welder  
1-Thermal Arc P-Wee 160ts TIG/Stick Welder  
1-ThermoDynamics Cutmaster 100 Plasma Cutter  
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  
1-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  
1- Clean Air Downdraft Deburring Table  
6- Fumex air filter systems

## **XII - Inspection**

1-Material Analyzer  
1-GAGEtrak Calibration Software  
1-LAL Testing System  
1-Mitutoyo Programmable Coordinate Measurement Machine, Crysta-Apex  
C544 with Renishaw PH10T Probe  
1-Numerex CMM with QuadraCheck Software  
2-OptiFlex 418 Vision System  
1-Cordax 1000 Coordinate Measurement Machine with Renishaw  
Touch Probe  
1-J & L Optical Comparator  
1-J & L Epic 230 Optical Comparator  
1-Mitutoyo AH-14 Optical Comparator  
1-Mitutoyo Optical Comparator with Read Out  
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  
1-Amplified Electronic Indicator  
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.  
4-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  
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  
9-12" 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 64"  
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  
2-High Accuracy Micrometers 0-1" .000005"  
1-Keyence Image Dimension Measuring System

#### 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  
Ultra Sonic Welding  
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 9001 and ISO 13485 Certified  
FDA-QSR Compliant System that follows CGMPs  
ANVISA Certified  
Production Control and Inventory Management  
Epicor-Vista fully integrated manufacturing and accounting software package  
Lean Manufacturing