

# EQUIPMENT LIST

## CNC MACHINING MILLING CENTERS

### 5-AXIS CNC Machining Centers

- 3 DECKEL-MAHO DMU-50V, EVO 2 ea 18,000 RPM, 1 ea 8,000 RPM (20" x 15" x 15")
- 1 DECKEL-MAHO DMU-70V, EVO18,000 RPM (28" x 20" x 20")
- 1 MAHO MH700C/A Universal, vertical and horizontal spindles, 6,000 RPM (27" x 20" x 24")
- 5 MAHO MH700S Universal, vertical and horizontal spindles, dual pallets, 6,000 RPM (27" x 20" x 24")
- 2 MAHO MH700S Universal, vertical and horizontal spindles, 6,000 RPM (27" x 20" x 24")
- 2 MAHO MH1000S Universal, vertical and horizontal spindles, 4,000 RPM (40" x 32" x 24")

### 4-AXIS CNC Machining Centers

- 1 DECKEL-MAHO DMC50H, EVO horizontal machining center, dual pallets, 18,000 RPM (24" x 18" x 20")
- 2 MAHO MH700S Universal, vertical and horizontal spindles, dual pallets 6,000 RPM, (27" x 20" x 24")
- 1 MAHO MH500C Universal, vertical and horizontal spindles, 6,000 RPM (19" x 17" x 17")

### 3-AXIS CNC Machining Centers

- 1 HAAS VF-1 vertical, 10,000 RPM (20" x 16" x 20")
- 1 HAAS VF-3 vertical, dual pallet, 10,000 RPM (40" x 20" x 25")
- 1 HAAS VF-2 vertical, 10,000 RPM (30" x 16" x 20")
- 2 HAAS VF-4 vertical, 10,000 RPM (50" x 20" x 25")
- 1 MATSUURA MC-1000 VS-S vertical, 4,000 (40" x 20" x 20")
- 1 TOYODA VF-65 vertical, 4,000 RPM (50"x 25"x 24")
- 1 FADAL VMC-4020 vertical, 10,000 RPM (40"x 20"x 16")

## CNC TURNING CENTERS

### CNC Vertical Turning Centers (VTLs)

- 1 Toshiba TUE-15, 60hp (72" dia. x 68")
- 2 Mazak Mega-Turn F-12, 60hp (57" dia. x 30")
- 1 Mazak Mega-Turn F-10, 60hp (57" dia. x 30")

### CNC Horizontal Turning Centers

- 2 Mazak Power Master Chucker, 60hp, 4<sup>3</sup>/<sub>4</sub>"Ø thru hole (34" dia. x 44")
- 2 Mazak Power Master Chucker, 60hp, 12<sup>1</sup>/<sub>2</sub>"Ø thru hole (42" dia. x 44")
- 2 Mazak Power Master Chucker, 60hp, 4<sup>3</sup>/<sub>4</sub>"Ø thru hole (42" dia. x 44")
- 1 Mazak Power Master Chucker, 60hp, 9<sup>3</sup>/<sub>4</sub>"Ø thru hole (42" dia. x 63")
- 1 Mazak Power Master Chucker, 60hp, 9<sup>3</sup>/<sub>4</sub>"Ø thru hole (52" dia. x 63")
- 1 Mazak SL/50 slant bed, 50hp (30" dia. x 60)
- 1 Mazak M-4, 25hp (24" dia. x 60")
- 1 Haas SL-30 slant bed, 30HP (17" dia. X 32")
- 2 Mazak QT-250 with 2" bar feed, 20hp (8" dia. x 20")
- 1 Hardinge CHCN -11+ (1<sup>1</sup>/<sub>2</sub>" dia. x 10")

### CNC WIRE EDMs

- 1 Sodick AQ325L 6-Axis (10" x 14" x 9")
- 1 Sodick A325 6-Axis (14" x 10" x 9")

## **EDM SINKERS**

2 Elox HRP-104 (42" x 20" x 12")  
2 Cincinnati ElectroJet MK (36" x 16" x 12")  
1 Hansvedt SM-10E (36" x 16" x 12")  
4 AGIE Mondo (36" x 16" x 12")  
4 Raycon Pinnacle (36" x 16" x 12")

## **SURFACE GRINDERS**

1 Blohm HFS-12 surface grinder (48" x 12")  
1 Okamoto Model 124V surface grinder (24"x 12")

## **COMPLIMENTING EQUIPMENT & SERVICES**

Tool Room, completely equipped  
High Level Assembly, including riveting, bushing and bearing installation  
Part Marking, including Dot Peen Matrix, electro-chemical etch, engraving and ink stamp  
NADCAP certified adhesive bonding

## **INSPECTION EQUIPMENT**

CMM, DEA Epsilon 2306 with IMS Virtual DMIS software (128" x 54" x 38")  
CMM, Zeiss with Calypso software (27" x 24" x 18) New 2007  
Optical Comparator, ST model 3550, 14" with programmable DRO  
Optical Comparator, Starrett 14" with DRO  
Rockwell hardness tester, Wilson model 3JR  
Surface plate, inspection grade (48" x 96")  
Surface plate, inspection grade (48" x 60")  
Many Surface plates throughout all manufacturing areas (36" x 48" max)  
Hardness and Conductivity testing  
Complete compliment of inspection support equipment.

## **CERTIFICATIONS**

ISO-9001:2008 Registered

### **General**

AS-9100 Registered

### **Aerospace**

D1-9000 Part 1 & 2

Level 1 (MIL-Q-9858 Modified)

### **Boeing**

S-1000

Self Release (FPPSP) Program

P11-TF12 Critical Holemaking

### **GE Aircraft Engines**

EDM - NADCAP

Composite & Adhesive Bonding – NADCAP

NDT, FPI - NADCAP

## **CAD CAM**

Unigraphics NX

Anvil 5000

AutoCad

MasterCam

**ERP System**

Epicor Vantage