



**Consulting, Engineering & Development Services, Inc.**  
*AS 9100, ISO 9001 Registered Company*

## **FULL FACILITIES LIST**

### **TURNING/ MILLING**

- 2 Mazak Integrex I, 200 Series, 5 Axis, 110 Position Tool Changer W/Gantry
- 2 Mazak Multiplex W-200Y with loader
- 1 Mazak Integrex I, 200 Series, 5 Axis, 110 Position Tool Changer
- 1 Mazak Integrex I 400 Series, 5 Axis, 110 Position Tool Changer

### **MILLING VARIAXIS**

- 1 Mazak Variaxis 630-5 Axis II, 6 pallet Pallettech, with 120 Position Tool Changer 28.80" x 30.12" x 20.08"
- 1 Mazak Variaxis 630-5 Axis II, 8 pallet Pallettech, with 288 Position Tool Changer 28.80" x 30.12" x 20.08"

### **MILLING HORIZONTAL**

- 1 Mazak Horizontal Nexus 5000 II, 6 pallet Pallettech, with 120 Position Tool Changer 28.74" x 28.74" x 29.13"
- 1 Mazak Horizontal PFH5800, 6 pallet Pallettech, with 120 Position Tool Changer 28.74" x 28.74" x 29.13"

### **MILLING VERTICAL**

- 3 Mazak Vertical Center Nexus 510C-II Double Pallet Changer with 4th axis on second table, with 48 Position Tool Changer
- 3 Mazak Vertical Center Nexus 510C-II Double Pallet Changer with 48 Position Tool Changer 51.18" x 20.00" x 22.44"
- 1 HAAS CNC VF-3 40" x 20" x 20" with ATC
- 2 HAAS CNC VF-OE 30" x 16" x 20" with ATC
- 1 HAAS CNC VF-OE with 4<sup>th</sup> Axis 30" x 16" x 20" with ATC
- 1 Southwestern Bed Mill Trak DPM Sx5, 40" x 20"
- 4 Protrak 2 Axis 9" x 24" Equipped with Quick Change Tooling

### **TURNING**

- 1 Mazak CNC Quick Turn 25 HP 2.8 dia thru spindle
- 1 Mazak CNC Super Quick Turn 18HP, 2 1/2" thru spindle
- 1 Mazak CNC Quick Turn 20HP, 2" thru spindle
- 1 Mazak CNC Quick Turn 10HP, 1 1/2" thru spindle
- 1 Takisawa Lathe, 15"
- 1 Hardinge W/DRO with .0001 Res.

### **GRINDING**

- 1 Surface Grinder 6" x 12"
- 1 Surface Grinder 12" x 24" X Y Z Auto Hydraulic Feed



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**INSPECTION  
ROOM**

1 Wenzel X Orbit WPH 20 Head X 35.5" Y59" Z27.6"  
1 Wenzel LH87 CNC CMM with Tool Changer X31.5 Y59.0 Z27.5

1 Horizon Premium Analogique HPA 500 Horizontal Measuring & Calibration System  
1 Brown & Sharpe CNC CMM X24 Y26 Z19 With Renishaw PH20 Indexable Head & Probe System  
1 Video Microview Microscope No. V260 .0001 Increments  
1 Horizon Premium Super Micrometer HPA 500 Horizontal Measuring & Calibration System  
1 Fowler Trimos 600+  
2 Fowler Trimos Altia  
1 Hawk Eye Luxxor Video Precision Bore Scope  
1 Hawk Eye Pro Superslim Bore Scope  
12 Surface Plates 12" x 18"  
6 Surface Plate 24" x 48"  
8 Tesa-Height Gages  
Complete Set of Inspection Blocks and Pins,  
Bore Gages sizes .375 Thru 4.000 @ .0001 Increments

**DEBURRING**

Aerospace Quality Deburring Department with Clean Aire Technology Wet Booth 3 Man Deburring Team (Hydrotron)

**LASER  
MARKING  
SYSTEM**

1 Tykma Zetalase Fiber Laser Marking System

**MISC.**

Virtual Gibbs Cam solid surface software off line programming  
Vellum 3D Drawing Package  
Solidworks 3D Cad Design Packages  
8 Drill Presses  
1 Wellsaw 1016 Cut-off Saw  
1 Startrite H 175 Cut-Off Saw  
1 Drake Johnson V-16 Bandsaw  
9 Vibratory Deburring Machines

**ASSEMBLY  
DEPT.**

Assembly Department with all necessary assembly tools

Rev: 01/13