

## MACHINERY & CAPABILITIES

### ELECTRONIC DATA EXCHANGE:

Program and build capabilities utilizing the most current software.

- CAD services / 3D modeling / 3D Printing
- DCD fully integrated manufacturing software system with barcode job tracker
- MasterCam CAD/CAM programming system with DNC network.
- SolidWorks, solid modeling software

### PRECISION CNC MILLING:

Complete 3, 4 & 5-axis milling, laser calibrated

- (1) Mori-Seiki NMH6300 5-axis horizontal CNC machining cell w/robotic pallet loader - 12 pallets. (30" x 33" x 36" travels)
- (4) Mori-Seiki NH6300 4-axis horizontal CNC machining cell w/robotic pallet loader - 70 pallets. (35" x 31" x 38" travels)
- (3) Mori-Seiki SH-500 4-axis horizontal CNC machining center (23" x 24" travels)
- (1) Mori-Seiki GV-503 CNC machining center w/pallet changer (20" x 24" travels)
- (1) DMG 65 FD Monoblock 5-axis vertical CNC machining cell With a (6) pallet carousel loader. (28" x 25" x 19" travels)
- (3) Doosan DNM 5700 vertical machining center With a pallet changer (40" x 22" travels)
- (1) Doosan DNM 6700 vertical (51" x 26" travels)
- (1) Zoller Venturion 450/6 tool presetter

### PRECISION CNC TURNING:

Precision CNC turning up to 15" diameter, live tooling multi-axis machining

- (1) Mori-Seiki NT-4300DCG 6 axis CNC turning center with live tooling and an automated material handling system (12" chuck or 3.50" dia. bar feed), 240 tools
- (1) Mori-Seiki NL-2500 CNC turning center with live tooling and automated material handling system (10" chuck or 3.00" dia. bar feed)
- (1) Citizen Swiss Precision CNC Turning Center with an automated material handling system (.813" diameter collet capacity)
- (1) Prodigy turning center (1.00" collet capacity.)
- (2) DMG NLX 2000/500 with bar feeder. (2.50" diameter capacity)
- (1) Doosan Lynx 2100LY with bar feeder. (1.75" diameter capacity)
- (1) Doosan Puma GT3100 (15.00" diameter capacity)

### **Manual Milling Department**

- (5) Proto Trak Bed Mills W/CNC Controller  
With 40" bed travel
- (1) Sunnon MBC 1805 Hone
- (1) Kent SGS Surface Grinder (1) (6" x 18")

### **3D Printing**

- (2) Raised 3D Pro (12" x 12" x 12")

### **Sawing dept.**

- (1) Soco MC-350 Precision Automatic Cutoff Saw
- (1) Cocen C-320 Automatic Band Saw
- (1) Brobo Precision Cutoff Saw
- (1) Bewo 12" Precision Cutoff Saw

### **Welding**

- (1) Miller SP-200 Synchrowave 350 Heliarc Welder
- (2) Millermatic 252 wire feed welder
- (1) Miller 300
- (1) MaxTherm Plasma Cutter

### **Wet Painting**

- (1) Col-Met Paint Booth (9' x 12')
  - (1) Despatch Paint Bake-Out Oven (5' x 5')
- (Power Coating available thru AMS)

### **Quality Control**

- (1) Zeiss Contura G2 CMM (full automation)
  - (1) Starrett HTC CMM (Manual version)
  - (1) Starrett AVR 300 Vision Inspection machine
- ISO 9001:2015 Quality Assurance Certified  
ISO AS9100D Quality Assurance Certified  
ISO 13485:2016 Quality Assurance Certified

### **Deburr / Finishing**

- Time-Saver Pass Thru Graining Machine
- Various Roto-Finish Tumblers (up to 5' Diameter)
- (2) Bead Blaster

### **Electro-Mechanical Assembly**

- Component assembly
- Helicoil/Keensert installation
- Dowel Pins installation
- Adhesion of parts

### **Inventory Storage**

- Modula Storage Lift (30 shelves)