

## Process Capabilities

### QUALITY SYSTEMS

AS9100:2009 Rev. C and ISO 9001:2008 Without Design      SPC/Cpk Monitoring  
FAA Part 145 Certification #2FCR660B      EASA Part 145 Approval Certificate # EASA.145.6316  
Drug and Alcohol Program in accordance with 49 CFR part 40 and 14 CFR part 120

### MAGNETIC PARTICLE INSPECTION

NAS410, ASTM-E-1444

Gould Bass Ardox 6000 Amp Magnetic Particle Inspection Machine  
Magnaflux Model D-960 6000 Amp Magnetic Particle Inspection Machine

### FLUID PENETRANT INSPECTION

NAS410, ASTM-E-1417

### DIMENSIONAL INSPECTION

Brown & Sharpe 9.15.8 DCC CMM  
Brown & Sharpe 9.12.8 DCC CMM  
Mitutoyo BRT-M707 CMM  
Mitutoyo B504B CMM  
Mahr Federal S2 Roughness Measuring system  
Mitutoyo Profile Comparators (3)  
Rockwell Tester, Standard and Superficial  
Profilometers  
Federal Maxum Electronic Bore Gage  
Sunnen Bore Gages

Vision Engineering Lynx Stereo Microscope w/camera  
Vision Engineering Mantis System 510 Microscope  
Vision Engineering Kestrel Dynascope  
Mahr Federal MMQ100 Plus Form Measuring Syst.  
Mitutoyo Profile Comparators  
Nikon Profile Projector  
Brinell Testers  
Lennox Fiber Optic Borescope  
Marposs E4N Electronic Bore Gage  
Helios UMG50 Supermic

### CNC MILLING

Okuma MA 500HB(II) Horizontal Machining Center  
Okuma MA 500HB Horizontal Machining Center (3)  
Okuma MA400 HA Horizontal Machining Center (2)  
Mori Seiki 5-Axis NH6300DCG Horizontal Machining Center  
Mori Seiki 5-Axis NH5000/40 Horizontal Machining Center  
Mori Seiki 5-Axis NHX5000/40 Horizontal Machining Center  
Mori Seiki 5-Axis NVX5100/40 Horizontal Machining Center  
Mori Seiki 5-Axis SH400 Horizontal Machining Center

Mori Seiki DuraVertical 5100 Machining Center (6)  
Mori Seiki 4-Axis FM-1 Vertical Machining Center (2)  
Mori Seiki MV-40M Vertical Machining Center (2)  
Mori Seiki MV-Frontier-M Vertical Machining Center  
Mori Seiki MV-Junior-M Vertical Machining Center (2)  
Makino 4-Axis A71 Horizontal Machining Center  
Makino KE55 Machining Center

### CNC TURNING

Mori Seiki NL2500 Turning Center (2)  
Mori Seiki NL2500Y/700 Turning Center (live milling)  
Mori Seiki ZT2500Y Twin Spindle Turning Center (live milling)  
Mori Seiki ZT2500 Twin Spindle Turning Center  
Mori Seiki SL25A Turning Center  
Mori Seiki SL250 Turning Center

Mori Seiki DuraTurn 2550 Turning Center (2)  
Mori Seiki CL25A Turning Center  
Mori Seiki CL203/5 Turning Center  
Mori Seiki DL151Y Turning Center (2)  
Miyano BNC-20 with LNS Super Hydrobar Feeder  
Miyano BNC-34A2 with LNS Super Hydrobar Feeder (2)

### MILLING EQUIPMENT

Bridgeport Series 1 with Trak A.G.E. (2)  
Tiger Horizontal Mill  
Cincinnati Horizontal Mill

Johnford Bridgeport-type Mill  
Hitachi Seiki Horizontal Mill  
Bridgeport Series 1 (5)

### TURNING EQUIPMENT

Bullard 54" swing with 24" grinding attachment  
Mori Seiki MH-1500G 24 x 60 Engine Lathe  
Standard Modern 13-40 Engine Lathe  
Mori Seiki ML-850 16 x 30 Engine Lathe

Emco Maier 15D Lathe  
Hardinge Lathe (2)  
Goodway GW1440 Engine Lathe

**CNC GRINDING EQUIPMENT**

Studer S30 Lean Pro, 14" Dia. x 40" - Universal ID/OD  
Studer S33, 14" Dia. x 40" Universal OD Grinders (2)

Studer Favoritcnc, 14" Diam x 40" - Universal OD  
Royal Master TG-12x24 Centerless

**GRINDING & FINISHING**

Cincinnati #2 with automatic infeed - 4" dia. Capacity  
Cincinnati #2 with automatic thrufeed - 4" dia. Capacity  
Mattison Blanchard type - 36" magnetic chuck  
Excello 4" x 42"  
Impco 1140 SCM Centerless Polisher

Heald 72A - chuck to 16"  
Heald 273A - 24" swing  
Sunnen ML2000 Horizontal Honing Machine  
Sunnen ML5000 Horizontal Honing Machine  
Sunnen SV-10 Vertical Honing Machine

**CNC EDM**

AccuteX 5-Axis SP-600i Wire EDM, 39.1" x 24.4" x 15.6"  
Mitek MK-85ZNC Sinker EDM, Joemars AZ75R Sinker EDM  
ZNC TSH-5AA Precision Hole EDM .008 - .120 dia. holes

Sodick 3-Axis AG60L (LN2) LP60 Linear Drive Sinker EDM (2)  
Sodick 3-Axis AG600 + LN2W Wire EDM

**THERMAL-SPRAY**

Dual Wire-Arc, TAFA 8835  
Air Plasma, Powder Metal Thermal-Spray, Metco Equipment

**ELECTRONIC ASSEMBLY**

Soldering - Weller soldering stations per IPC J-STD-001  
Electronics Encapsulation (potting)

**WELDING & FABRICATING**

Miller Dynasty 350 Tig Welder (FAA Qualified)  
Miller Millermatic 350P Pulsed Mig Welder  
Miller Spectrum 875 Plasma Cutting System  
Tennsmith 48" Shear  
Tennsmith 48" Brake  
Dennison 20-ton C-Frame Press  
Oxy/Fuel Brazing, Welding, Cutting (AWS D 17.1, MIL-STD-1595A)  
72" x 144" x 1" Layout Table

**HEATING, CHILLING, ASSEMBLY**

Blue M Oven 203B-1 temperatures to 400° F  
So-Low Freezer PR130-5 temperatures -40° to -120° F  
So-Low Freezer C85-9 temperatures -40° to -120° F  
Hydraulic 5-ton Arbor Presses (5)  
Hydraulic 20-ton C-Frame Press  
Hardware Installation Stations (3)

**DEBURRING AND BENCH EQUIPMENT**

Almco Vibro Burr  
Sweco Vibro Burr  
Die Grinders, Pneumatic Riveters

Polishing and Blending Stations (3)  
Twister Speed Lathe

**AUXILIARY EQUIPMENT**

Kelch Tool Presetter  
Drill Presses  
Kent surface Grinder 6 x 12 (2)  
Amada HA-250W Production Saw  
Black Diamond Drill Grinders (3)  
Storopak FOAMplus foam packaging system

Parlec Tool Presetters (2)  
Kent Surface Grinder 12 x 24  
Marvel Series 8 Mark II Universal Band Saw  
Accu-Finish Tool Grinder  
IMPCO 1140 SCM Centerless Polisher  
Trumpf Trumark Station 5000 Laser Marker

**CLEANING and SURFACE PREPARATION**

Glass Bead blasting  
Sand Blasting  
Aqueous Clean Line

Plastic Blasting  
Soda Blasting  
Hot Alkaline Cleaning

**PRODUCTION / ENGINEERING AIDS**

AutoCad LT2012, AutoCad Mechanical 2010  
Surfcam 3 Dimensional Programming Software  
Bowen & Graves M1 Bus. Mgmt. ERP/MRP Software  
Enovia DMU-1

Metacut Utilities  
Wireless PC-DNC w/drip feed to all machines  
Tracer Summit Climate Control Software  
InspectionXpert