

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
Sunnens 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 Sinkers EDM, Joemars AZ75R Sinkers EDM
ZNC TSH-5AA Precision Hole EDM .008 - .120 dia. holes

Sodick 3-Axis AG60L (LN2) LP60 Linear Drive Sinkers 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 D17.1, 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