

Process Capabilities

QUALITY SYSTEMS

AS9100:2016 with ISO 9001:2015 without Design
FAA Part 145 Certification #2FCR660B

Nadcap accredited Non-Conventional Machining

MAGNETIC PARTICLE INSPECTION

NAS410, ASTM-E-1444
Gould Bass Ardox 6000 Amp Magnetic Particle Machine

Magnaflux Model D-960 6000 Amp Magnetic Particle Machine

INSPECTION EQUIPMENT

Brown & Sharpe 9.15.8 DCC CMM
Brown & Sharpe 9.12.8 DCC CMM
Mitutoyo CRYSTA-PLUS M7106 CMM
Mitutoyo CRYSTA-PLUS M574 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
VJ-ADV Articulating Bore Scope
SPC/Cpk Monitoring
Pressure Test

Vision Engineering Lynx Stereo Microscope w/camera
Vision Engineering Mantis System 510 Microscope
Vision Engineering Kestrel Dynascope
Mahr Federal MMQ100 Plus Form Measuring Syst.
Inspection Expert
Nikon Profile Projector
Brinell Testers
Lennox Fiber Optic Borescope
Marposs E4N Electronic Bore Gage
Helios UMG50 Supermic
Vari-Roll VR-G2 Gear Checker
GAGetrak Calibration System
Millipore Testing

CNC MILLING EQUIPMENT

DMU 65 MonoBLOCK 5-Axis Machining Center with swivel rotary table (2)
Okuma MA-600H(II) Horizontal Machining Center
Okuma MA-500H(II) Horizontal Machining Center
Okuma MA-500HB(II) Horizontal Machining Center
Okuma MA-500HB Horizontal Machining Center (3)
Okuma MA-400 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

Okuma MB4000H 6 pallet Horizontal Machining Center
Mori Seiki 5-Axis SH400 Horizontal Machining Center
Mori Seiki DuraVertical 5100 Machining Center (7)
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/1250 Turning Center (live milling)
Mori Seiki NL2500Y/700 Turning Center (live milling)
Mori Seiki NLX2500SY/700 Turning Center (live milling) (2)
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 (3)
Mori Seiki CL25A Turning Center
Okuma
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)
Mori Seiki NL2500y/1250 50" Bed Length (live milling)

MILLING EQUIPMENT

Bridgeport Series 1 with Trak A.G.E. (2)
Horizontal Mill (Tiger, Cincinnati, Hitachi Seiki)
Bridgeport Series 1 (6)

TURNING EQUIPMENT

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

Process Capabilities

CNC GRINDING EQUIPMENT

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

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"
Okamoto LinearG18D Surface Grinder
Impco 1140 SCM Centerless Polisher
GEM Centerless Polisher

CNC EDM (Nadcap accredited)

Sodick 3-Axis AG60L (LN2) LP60 Linear Drive Sinker (2)
Sodick 3-Axis AG600 + LN2W Wire EDM
Sodick K3HN (LK2) Hole Popper
AccuteX 5-Axis SP-600i Wire, 39.1" x 24.4" x 15.6"

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

DEBURRING AND BENCH EQUIPMENT

Almco Vibro Burr
Sweco Vibro Burr
Die Grinders, Pneumatic Riveters

AUXILIARY EQUIPMENT

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

CLEANING and SURFACE PREPARATION

Glass Bead Blasting
Sand Blasting
Aqueous Clean Line

PRODUCTION / ENGINEERING AIDS

AutoCad LT2012, AutoCad Mechanical 2010
Gibbs Cam 3,4,5 axis Dimensional Programming Software
Surfcam 3 Dimensional Programming Software
ESI M1 Bus. Mgmt. ERP/MRP Software
Enovia DMU-1

RAPID PROTOTYPING

Lulzbot TAZ 6 3d Printer
Gigabot 3+ XLT900 3D printer (23"x30"x36" capacity)
Simplify 3D software

Studer Favoritcnc, 14" Diam x 40" - Universal OD
Royal Master TG-12x4 Centerless

Heald 72A - chuck to 16"
Heald 273A - 24" swing
Sunnen ML2000 Horizontal Honing Machine
Sunnen ML5000 Horizontal Honing Machine
Okamoto Acc12-24Dx Surface Grinder
Sunnen SV-10 Vertical Honing Machine

ELECTRONIC ASSEMBLY

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

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)

Polishing and Blending Stations (3)
Twister Speed Lathe

Parlec Tool Presetters (3)
Marvel Series 8 Mark II Universal Band Saw
Accu-Finish Tool Grinder
IMPCO 1140 SCM Centerless Polisher
Trumpf Trumark Station 5000 Laser Marker

Plastic Blasting
Soda Blasting

Metacut Utilities
Wireless PC-DNC w/drip feed to all machines
Tracer Summit Climate Control Software
InspectionXpert
Solidworks 2017