

EQUIPMENT AND CAPABILITIES

PRECISION MACHINING CAPABILITIES

► CNC TURNING

- Citizen M32 Y Axis Swiss Type Lathe
- Mori Seiki SL2500Y CNC Lathe
- Mori Seiki ZT2500Y CNC Lathe
- Mori Seiki NLX2500Y CNC Lathe
- Okuma LU400M CNC Lathe

► HORIZONTAL MACHINING

- Kitamura Mycenter-HX500I Horizontal Machining Center (Full 4th axis)
- Mori Seiki SH-400 Horizontal Machining Center (Full 4th axis)

► LATHES

- Clausing 19"x80" Engine Lathe
- Ganesh 14"x40" Engine Lathe
- Lagun 19"x60" Engine Lathe
- South Bend Lathes
- Weisser Turret Lathe

► VERTICAL KNEE MILLING

- Bridgeport Series 1 Vertical Knee Mills w/Accessories (qty 2)
- Lagun Vertical Knee Mill

► VERTICAL MACHINING

- Kitamura Mycenter-3XIF Sparkchanger Vertical Machining Center (Tsudakoma full 4th axis)
- Kitamura Mycenter-3XIF Vertical Machining Center-Pallet Shuttle (Tsudakoma full 4th axis)
- Kitamura Mycenter-4XIF Vertical Machining Center (Tsudakoma full 4th axis)
- Kitamura Mycenter-7XIF Vertical Machining Center (Tsudakoma full 4th axis)
- Kitamura Mycenter-7XIF Vertical Machining Center (Tsudakoma full 4th axis)
- Makino FNC40 Vertical Machining Center (Tsudakoma full 4th axis)
- Milltronics RH20 Vertical Machining Center
- Mori Seiki SV-500 Vertical Machining Center-Pallet Shuttle (Tsudakoma full 4th axis)

SUPPORT MACHINING AND ASSEMBLY CAPABILITIES

► BLASTING

- Zero Sand Blaster

► GRINDING

- Famco 265-CG Engraving Tool Grinder
- Karsten Hydraulic Cylindrical Grinder
- Kent 12"x24" Hydraulic Surface Grinder
- Okamoto 12-24 Surface Grinder
- Optima Precision Drill Grinder
- Pedestal Tool Grinders

► HONING

- Sunnen MBB-1600 Hone

► LASER ENGRAVING

- Trumpf Laser Engraver
- Trumpf Trumark Station 5000 Laser Engraver

► PAINT BOOTH

- CARC Paint

► PASSIVATION CHAMBER

► PRESSES

- Drill Presses
- Neff 50 Ton Hydraulic Press

► SAWING

- Do-All Band Saw
- Spartan by Marvel 14"x14" Automatic Cut-Off Saw

► TOOL BALANCING

- Heimer Tool Dynamic 2002 High Speed Tool Balancer

► VAPOR DEGREASING

- Vapormatic Vapor Degreaser

► WELDING

- Miller 200 MIG Welder
- Miller 200 TIG Welder

QUALITY CONTROL INSPECTION/TESTING CAPABILITIES

► CALIBRATION

- Fluke 52 Digital Thermometer
- Helios UMG50 Length Measuring Instrument
- Mitutoyo 515-311 Height Master and Risers
- Mitutoyo Inspection Grade Gage Block Set
- Ohaus Weight Set
- Precision Granite Tri-Square
- Quality Visual Calibration Software
- Snap-On Versatest 600 Torque Tester
- Surface Plates
- Ultrasonic Cleaner
- Van Kueren Thread Wires

► CMM

- Mitutoyo CMM; Model B241
- Zeiss CMM; Vista
- Zeiss CMM; Contura

► ELECTRONIC HEIGHT GAGING

- Trimos Electronic Height Gages

► GLASS INSPECTING

- Trioptics Opti-Spheric-Center Glass Inspection; Model AF1000

► HARDNESS TESTING

- Ames Hardness Tester (Portable); Model No 1
- Starrett Hardness Tester (Stationary); Model 3814

► MIL-SPEC TESTING

- Environmental Testing Chamber
- Cinn Sub Zero ZP-16 Environmental Chamber
- Cinn Sub Zero ZPH-32 Environmental and Humidity Chamber
- Thermotron Industries S-16C Environmental Chamber
- Thermotron Industries S-32-3800 Environmental Chamber
- Shock Testing Machine
- Avco SM-110-M Pneumatic Shock Machine
- Avex SM-110-3 Pneumatic Shock Machine
- Vibration Testing Machine
- Thermotron Industries DS-642-911-24M Vibration Machine
- Unholtz-Dickie 452-16 Vibration Machine

► OPTICAL MEASUREMENT, INSPECTION & TEST EQUIPMENT

- Abrasion Tester
- Edmonds 50% Neutral Density Filters
- Flir Optical Scratch/Dig Standards
- International Light Radiometer/Sensor; Model IL1400A/SHD033
- Jones & Lamson Optical Comparator; Model Epic-30
- Millidioptometer
- Modern Optics/VTech 48"x72" Air Table
- Optical Gaging Products Optical Comparator; Model OQ-30
- Photo Research Photometer; Model PR1980A
- ZYGO Interferometer

► PAINT TESTING

- Automation Thickness Meter

TESTING SUPPORT EQUIPMENT

- Accelerometers
- AmprobeTR300 Thermometer/Humidity Gage
- Calipers
- Charge Amplifiers
- Cylindrical Plug Gages
- Depth Gages/Micrometers
- Force Dial Gages
- Groove Micrometers
- Height Gages
- Indicators
- Intertests
- Micrometers
- Mitutoyo Bench Center
- Mitutoyo Digital Bore Gages
- Mitutoyo Gage Block Sets
- Mitutoyo SurfTest Surface Roughness Tester
- Pin Gage Sets
- Seiler Indoor Rain Chamber
- Starrett Groove Gage
- Sunnen Bore Gages
- Surface Plates (qty 25)
- Thickness Gages
- Threaded Plug Gages
- Threaded Ring Gages

ADDITIONAL EQUIPMENT AVAILABLE

► AUTO COLLIMATOR

- Leitz Auto Collimator

► AUTO LEVELS

- Leica NA 20 Auto Level
- Leica NA 820 Auto Level
- Topcon AT-G6 Auto Level

► DARK ROOM

► ELECTRICAL TEST EQUIPMENT

- AEMC Megaohmmeters
- Fluke Multimeters
- Slaughter 2510 Hipot Tester
- Tenma Milli/Micro Ohmmeter

► HP5315A COUNTER WITH O3 (C-CHANNEL) AND O4 (OVEN OSCILLATOR) OPTIONS

► INDEX TABLES (WITH DIGITAL READOUT)

► INSULATION TESTING

► MAGNETIC HELMHOLST

► OCTAGONAL MIRROR

► OVENS (PAINT AND ADHESIVE CURING)

- Despatch TDF2-52-1E Oven
- Precision Quincy 490-650 Oven

► POWER SUPPLIES

- HP6253A Dual DC Power Supply
- INSTEK GPS3030D DC Power Supplies
- Kenwood PD5610 50V-10A DC Power Supply

► PRESSURE TESTING STATIONS (NITROGEN)

► SEILER PRODUCTS USED IN PRODUCTION

- Azimuth Test Fixtures
- Collimating Telescopes
- Collimator Projectors
- Cross Level Fixtures
- Dioptrometers
- Gunner's Quadrants
- Microscopes (for inspection)

► TORQUE WRENCHES

► TRAVEL MICROSCOPE

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