

# 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
- Millidiotometer
- 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

# EQUIPMENT AND CAPABILITIES

## 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 03 (C-Channel) AND 04 (Oven oscillator) Options**
- » **Index Tables (with digital readout)**
- » **Insulation Testing**
- » **Magnetic Helmholtz**
- » **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
  - Dioptometers
  - Gunner's Quadrants
  - Microscopes (for inspection)
- » **Torque Wrenches**
- » **Travel Microscope**

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