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EMPLOYMENT APPLICATION

QUALITY CONTROL

KVI inspection and calibration system procedures are in compliance with the requirements of **MIL-I-45208A** and **MIL-STD-45662 A. ISO 9001:2008** and **ISO 13485:2003** Certified.

This facilities list should be used for reference only. New equipment and tools are being added regularly. Contact KVI for your specific requirements.

VERTICAL MACHINING CENTERS

Mori Seiki SV403 Machining Center with Fanuc 16i Control, 30 HP, 12,000 rpm Hi Torque Motor. 30 Position Automatic Tool Changer. Auto Tool Setting Probe System
Travel: X Axis-22.0" Y Axis-16.1" Z Axis-18.1"; 4th Axis Rotary Table

Mori Seiki FM-1 Machining Center with MSC-521 Control, 10 HP, 10,000 rpm Spindle, 20 Position Automatic Tool Changer. 4th Axis Rotary Table. Auto Tool Setting Probe System.
Travel: X Axis-22.0" Y Axis-16.1" Z Axis-18.1"

Mori Seiki Dura Center 5 Machining Center with Fanuc 18i Control, 20 HP, 12,000 rpm Spindle, Data Server/RISC Processor for 3D Machining
20 Position Automatic Tool Changer. Tool Breakage Detection & 4th Axis Rotary Table
Travel: X Axis-31.5" Y Axis-20.0" Z Axis-20.0"

Supermax Max-1 Rebel Machining Center with Fanuc Control, 15 HP, 8,000 rpm, 193 ft. Lb. Hi Torque Motor. 20 Position Automatic Tool Changer. Auto Tool Setting Probe System.
Travel: X Axis-25.6" Y Axis-16.1" Z Axis-18.1"

Fryer MC-5E Machining Center 15 HP, 8,000 rpm, 16 Position Automatic Tool Changer, 4th Axis
Travel: X Axis-25.6" Y Axis-16.1" Z Axis-18.1"

Yasda YBM640V High Precision Hard Mill CNC Jig Bore, 20,000 rpm Spindle, 30 Position ATC
Auto Tool Setting Probe System
Travel: Axis-23.6" Y Axis-15.7" Z Axis-13.7"

SWISS AUTOMATICS

Traub TNL 26 Sliding Headstock Swiss Automatic CNC w/Barfeeder.
13 Axis; Dual Spindles, 8000 rpm, Each With True C-Axis; 32mm (1.25")
Bar Capacity; 250mm (9.84") Max. Turning Length;
(4) Tool Carriers (all can be in the cut at once),
including (2) Turrets With Y Axis and Front Working and Back Working Attachments, with Y-Axis.
High Pressure coolant. (34) Total Tooling Stations (all live)

CNC LATHES / MILL TURN CENTERS

Mori Seiki SL-150 SMC Dual Spindle, Live Milling Turning Center w/Barfeed
Swing: 17"; Distance Between Centers: 16.5"; Max Turning Diameter: 15"

Mori Seiki CL-203B 2 Axis Lathe w/Barfeed
Swing: 23"; Distance Between Centers: 24"; Max Turning Diameter: 17"

Fryer ET-18 Constant Surface Feed CNC Lathe 18" Swing; 40" Centers.

Hendy 10 x 30 Toolmakers Lathe with Taper Attachment

Hardinge Model HC Dovetail Bed Toolroom Lathe

WIRE EDM MACHINES

(2-New) Mitsubishi FA-20S w/45 Deg. Taper Cutting
Fine Finish Power Supply (FM)
Max. Workpiece: 41.3 x 31.5" x 11.86" High, Table Travel: 13.80" x 19.80" x 11.86" High

(New) Mitsubishi FA-20 w/True B-Axis (Rotating Axis)
Max. Workpiece: 41.3 x 31.5" x 11.86" High, Table Travel: 13.80" x 19.80" x 11.86" High

Mitsubishi Wire EDM 110 SZ Table Travel: 12" x 18" x 10.5" High
Fine Finish Power Supply. Finishes to 4 RMS, 15 Degree Taper Cutting

(New) Mitsubishi Wire EDM FA-10P w/ 0.001 Degree Part Indexer
Fine Finish Power Supply (FM)
Extremely Close Tolerance Capability (Sub Micron), Table Travel: 9.80" x 13.77 x 8.6" High

AUTOMATION - ROBOTICS

System 3R Work Pal with (3) machine capability including Inspection Station and Part Drying
24 / 7 unattended automatic part production capability for production volume requirements
High Precision

CONVENTIONAL EDM MACHINES

LeBlond Makino EDNC-32 CNC with built in AC@ Axis for Helical and Indexing Capability
with an (8) Station Tool Changer

Agietron EMT 1.10 Ultra Precision with Ball Screws, .000040 Digital Readout

Agietron EMT 2.20 (NC) Ultra Precision with Ball Screws, .000040 Digital Readout

COORDINATE MEASURING MACHINE

Zeiss Contoura Full CNC Scanning CMM with CALYPSO software - Reverse Engineering Capability
Travel 28" x 28" x 25" Height

CAD/CAM & ENGINEERING CAPABILITIES

Esprit W CAD/CAM Programming System
Gibbs CAM 3-D Solid Surfacing Programming System for Milling
Smart CAM Turning
SolidWorks
File Capability: Native SolidWorks & Pro Engineer,
IGES, STEP, VDA-FS or SAT (ACIS), AutoCAD 2000 or DXF

INSPECTION EQUIPMENT

Z Mic Laser Micrometer .000010 Accuracy
Diatest Bore Gage .121" - .582" Range
Sunnens Dial Bore Gages .495" - 6.126" Range
Etalon Internal Tri-Point Micrometer Set .400" - 1.600" Range
Tessa Tri-Point Micrometer 1.400" - 2.000" Range
Mitutoyo 2" - 12" Inside Micrometer Set
Sunnens Gage Setting Fixtures 0-6" Range
Granite Surface Plates, Laboratory Grade, up to 36" x 48" -Regularly Inspected and Calibrated
Deltronic DH 214 Optical Comparator with Edge Detection and 612 R
Digital Measuring Read Out with Statistical Process Control Output
Bausch & Lomb Toolmakers Microscope
Starret/Weber 85 piece Inspection Grade Gage Block Set
Brown & Sharpe 81 piece Inspection Grade Gage Block Set
Mitutoyo 81 piece Inspection Grade Gage Block Set
DoAll 28 piece Inspection Grade ASlim@ Gage Blocks
Metric 79 piece Inspection Grade Gage Blocks
Deltronic Gages .0060" - .5000" in .0001" Increments
Starret 24" Vernier
Brown & Sharpe 12" AHite-icator@
Cadillac 6" APla-Chek@
Rockwell Hardness Tester
Mitutoyo 0-12" .0001 Micrometer Set
Mitutoyo Flange Mikes
Mitutoyo Anvil Mikes
Federal Mikemaster 0-1" Indicating Micrometer
Brown & Sharpe, Mahr and Tessa .0001 Indicators
Height Gages up to 24 inches
Tri Roll Thread Check, Various Plug and Ring Thread Gages

MILLING MACHINES

- (4) Prototrack DPM A3 Bed Mill with A.G.E. Simultaneous 3 Axis Control
- (1) CNC Bridgeport Series 2 Interact #2 with TNC-145 Heidenhein Control
Bridgeport Model-12BR 2JS, 2 HP, with Bausch & Lomb, SONY & Anilam Digital Measuring Systems

SURFACE GRINDERS

- Chevalier FSG-1228AD 3-Axis Surface Grinder with .00005 SONY Digital Readout
Fully Automatic with .00005 Down Feed and Coolant
- (2) Mitsui 205MH1 6-18 Surface Grinders with SONY Digital Readouts
- Mitsui 612 M with Ball Bearing Ways and .000050 SONY Digital Readout
- Harig Super 612 Surface Grinders
- Harig Super 618 Surface Grinders, all with Coolant and SONY Digital Readouts
- Taft Pierce

FINISHING EQUIPMENT

- OTEC CF 2x18 Centrifugal Disc Deburring Machine
- EMPIRE BBO-2 Rotary Basket Blaster
- SWECO Model FMD-10-2 Vibro-Energy Finishing Mill With Liquid Chemical Metering
- Cyclone 22" X 16" Bench Top Abrasive Blast Cabinet
- Zero Blast Vapor Honing Machine

SHEET METAL EQUIPMENT

- Gerver 6" x 6" Corner Notcher
- Gerver 24" Shear & Gerver 24" Brake

JIG BORER

- Moore #2 Jig Bore Machine

JIG GRINDER

- Moore G 18 Fully Tooled Up

HONING MACHINE

- Sunnen Model # MBB-1660

MISCELLANEOUS GRINDERS

- Rockwell Delta Carbide Tool Grinder
- DoAll Pedestal Tool Grinder, Baldor Tool Grinder
- Black Diamond Drill Grinder, Deckel Tool Grinder

MISCELLANEOUS EQUIPMENT

Rockwell Delta 6" Belt Sanders

Dake Arbor Press

Lassy Tapping Machine

Oxygen-Acetalene Torch Set

Yale 3000 lb Fork Lift

Big Joe 1000 lb Pallet Jack

Ruger Mobile Crane 2000 lb

Shop Lifter 600 lb

CUTTING MACHINES

Grob Model 4V-18 Band Saw

Wellsaw Model 850 Band Cut-off Saw

Rockwell Delta Abrasive Cut-off Saw

DRILL PRESSES

Solberga Model 2414 Drill Press with Power Feed

Rockwell Delta Drill Press

PHYSICAL PLANT

Modern climate control system maintains constant temperatures and low humidity.