

# METROLOGY SERVICES

Enjoy the convenience of working with just one laboratory for all your metrology requirements. Laboratory Testing Inc. (LTI) provides the full array of calibration and dimensional inspection services you need with accurate results, competitive pricing and reasonable turn-around. LTI metrology services are A2LA accredited and all results are detailed in Certified Reports.

## DIMENSIONAL INSPECTION



Dimensional Inspection using SmartScope CMM

### First-article & Third-party CMM Inspections

Laboratory Testing Inc. is equipped with coordinate measuring machines (CMM) for reliable first-article and third-party dimensional inspection and measurement. The CMMs inspect items up to 18" x 20" x 16" and are programmable for repeat measurement, ensuring accurate and efficient inspection of large-quantity orders.

Send us your orders for inspection of surface features, special product features or internal and external fastener threads. Our dimensional inspection is performed according to NAS, MS and ANSI specifications.

## INSTRUMENT CALIBRATION

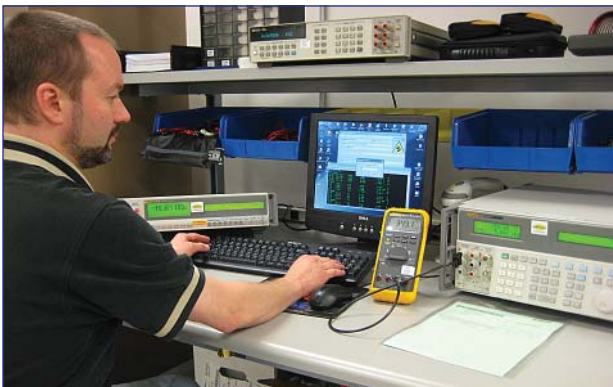
### Accredited, NIST-traceable Calibration

LTI's full-service calibration laboratory provides dimensional, pressure, force, torque, mass, electrical, temperature and vacuum calibration services. Masters, gages, measuring hand tools and many other instruments are precisely calibrated.

LTI calibration services are NIST-traceable and in compliance with MIL-STD-45662A, ISO-10012-1, ANSI/NCSL Z-540-1 and ISO/IEC 17025.



Temperature Calibration of a thermometer



Electrical Calibration

Calibration is performed in our environment-controlled laboratory to stabilize instruments after shipping for ensured accuracy. Our equipment has an extensive range of capabilities not available at many other companies:

- Torque Calibration from 0 to 2,000 ft. lbs.
- Pressure Calibration to 40,000 PSI.
- Length Standards up to 120 in.
- Gage Blocks up to 20 in.
- Surface Plates up to 14 ft. diagonal

# METROLOGY SERVICES

## FIELD CALIBRATION



Oven Survey in the field

### Calibration Services at Your Facility

Field calibration conveniently minimizes the time instruments must be out of service and eliminates the need to ship equipment that is large or fragile. The field technicians at Laboratory Testing will come to your facility to calibrate many items, including:

- Surface Plates
- Optical Comparators
- Ovens/Furnaces
- Temperature Controllers
- Rockwell Hardness Testers
- Compression Testing Machines
- Microscopes
- Hand Tools
- Force Gages
- Balances/Scales

Oven/Furnace Uniformity Surveys, System Accuracy Tests, and Controller calibrations meet Nadcap requirements.

## REPAIRS, NEW INSTRUMENTS & PARTS

### One Lab for Calibration, Repairs & New Instruments

LTI technicians can make adjustments and repairs to many types of measuring instruments in our lab or the field. If the requirements are beyond our capabilities, we can arrange for service with a specialized vendor.

If you need new measuring instruments, replacement parts, items missing from sets, or replacements for out-of-tolerance instruments, Laboratory Testing Inc. can quote and purchase your items. We are a distributor for many manufacturers and sell items at their list prices:

- Boston Centerless
- Swanson Tool Manufacturing
- Glastonbury Southern Gage
- Mitutoyo
- Starrett
- Vermont Gage



Micrometer repair

Please e-mail, call or visit our website for more information, accreditation certificates or pricing. To schedule field calibration service, contact our Field Supervisor at [mhiller@labtesting.com](mailto:mhiller@labtesting.com) or 215-716-7150.



**800-219-9095**

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# CALIBRATION

## PARTIAL LIST OF ITEMS CALIBRATED

### DIMENSIONAL

Amplifier  
Angle Plate/Angle Iron  
Balls  
Blocks  
Bore Gage  
Calipers  
Center Gage  
Chamfer/Countersink Gage  
Depth Gage  
Feeler Gage  
Footage Counter  
Gage Blocks  
Gauss Meter/Magnetometer  
Height Gages  
Indicators  
Levels

Micrometers  
Micrometer Standards  
Microscope  
Optical Flats  
Optical Overlay  
Optical Parallel  
Optical Stage Micrometer  
Parallels  
Penetrators  
Pin Gages  
Pitch Micrometer Standards  
Planeness Gage Set  
Plug Gages  
Profilometer  
Profilometer Standards  
Protractors  
Radius Gages

Ring Gages  
Rules  
Screw Pitch Gage  
Seive  
Sine Bar  
Sine Plate  
Sine Vise  
Snap Gage  
Squares  
Stop Watch  
Straight Edge  
Surveillance Masters  
Tape Measure  
Telescoping Gage  
Thickness Gages  
Wires

### PRESSURE & FLOW

Anemometer  
Barometer  
Compound Pressure/Vacuum Gage  
Dead Weight Testers  
Density Meters

Differential Pressure Gages  
Flow (Gas, Liquid, Mass)  
Hydrometer  
Manometer  
Pressure Calibrator  
Pressure Gages

Pressure Recorder  
Pressure Transducers  
Rotometer/Flowmeter  
Vacuum Gages  
Vacuum Transducer

### TORQUE & FORCE

Cable Tensiometers  
Detroit Pull Tester  
Dynamometers  
Force Gages

Load Cells  
Torque Calibrators  
Torque Drivers  
Torque Multipliers

Torque Screwdrivers  
Torque Transducers  
Torque Watches  
Torque Wrenches

### ELECTRICAL

Calibrators  
Clamp-on Ammeter  
Contour Probe  
Decade Box  
Frequency Counter

High Resistance Meter  
Hy-Pot  
Light Meter  
Megohmmeter  
Multimeter  
Stroboscope/Tachometer

Oscilloscope  
Power Supply  
RCL Meter  
Shunt  
Standard Resistor  
Tong Meter

### MASS

Balances

Durometer  
Durometer Test Standard

Weights

### TEMPERATURE & HUMIDITY

Digital Thermometer  
Hygrometer  
Psychrometer

Pyrometer  
Recorder  
RTD Probe

Thermocouple  
Thermocouple Module  
Thermometers

### FIELD CALIBRATION

Balances  
Controllers  
Hand Tools/Instruments

Microscope  
Optical Comparator  
Ovens  
Rockwell Hardness Testers

Pyrometry  
Surface Plates  
Testing Machines  
System Accuracy Tests