



TOMAS CUERDA INC CALIBRATION & METROLOGY

SERVICES

Calibration & Metrology
On-Site Services
Validations
HACH Service and Repair



ABOUT TOMAS CUERDA INC

Tomás Cuerda Inc. was established by Mr. Tomás Cuerda P.E., and his wife, Ursulina Reyes in 1959. They settled down at University Ave. corner of Muñoz Rivera Ave. in Río Piedras, Puerto Rico. Their commercial approach was to supply equipment and accessories to the government agencies and the construction industry.

Two years later, Mr. Luis José Cuerda P.E., current president, and his wife Sara Pérez joined the company. When the pharmaceutical industries started operations in Puerto Rico, the company focused towards servicing that industry in the instrumentation and process areas. Since then, Tomás Cuerda, Inc. has been servicing the pharmaceuticals and holds exclusive service contracts with some of them. In response to many customers requests, Tomás Cuerda, Inc. added a calibration and validation department in 1995. At present the company is one of the main suppliers for the pharmaceutical industry.

Our facilities are located at Villa Nevárez Commercial Center, Building #4, Río Piedras, Puerto

Rico. Here, you find the Service and Sales departments, a laboratory and the Administration offices plus a 6,400 square feet warehouse. After forty years in the market, our company keeps serving the community with the same family and personal approach of its beginnings. Tomás Cuerda, Inc. is one of the most reputable and reliable firms in Puerto Rico and the Caribbean

BUSINESS UNIT

CALIBRATION & METROLOGY

TECHNICAL SERVICE MANAGER

Eng. Eladio O. Infante, P.E.
oscari@tomascuerda.com

QUALITY MANAGER

Victor Ferrer
vferrer@tomascuerda.com

SENIOR TECHNICIAN

Angel Oquendo
aoquendo@tomascuerda.com

TECHNICIAN & SPECIAL PROJECTS

Glorimarie Rodriguez
grodriguez@tomascuerda.com

ADMINISTRATIVE ASISTANCE

Mildred Báez
mildred.baez@tomascuerda.com

SALES & SERVICE REPRESENTATIVE

Eng. Eladio O. Infante, P.E.
oscari@tomascuerda.com

CALIBRATION & METROLOGY

During calibration, TCI Metrology's highly experienced technicians compare the performance output of a measuring tool or instrument with a measurement standard. Calibration services confirm that the item will produce results which meet or exceed that standard's criteria and can be performed on masters and all types of measuring instruments including:

- 1. Water Analysis**
- 2. Dimensional**
- 3. Mass**
- 4. Electronics**
- 5. Temperature**
- 6. Torque**
- 7. Pressure**
- 8. On-Site Service**



WATER QUALITY



We know how important instrument calibration and certification is in maintaining regulatory compliance. We have technicians trained and certified by HACH. We provide services in our laboratories and at the customer's facility.



CALIBRATION / CERTIFICATION

As part of every service we provide, we verify that the instrument is performing to HACH factory specifications and provide the documentation you need to minimize compliance risk.

ROUTINE MAINTENANCE

Every analytical instrument requires some level of routine maintenance to assure accuracy and minimize downtime. With a TCI Service Plan, we ease the burden by helping you manage your maintenance schedule according to the specific needs of each instrument.

REPAIR

We understand the impact to your process and your operations when your equipment goes down. You

need a service partner who has the resources necessary to get you back up and running fast. We perform most repairs locally in Puerto Rico in our laboratory.

TYPES OF EQUIPMENT:

- **Turbidimeter**
- **Pocket Colorimeter**
- **Spectrophometer**
- **TOC Analyzer**
- **Conductivity Meter**
- **Don't see your instrument on this list? Contact Us!**



DIMENSIONAL LABORATORY

The calibration provided by our dimensional lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).



DIMENSIONAL CALIBRATION PROCESS

Dimensional calibration is performed by comparing the performance output of a hand tool, gage or another measuring instrument with a measurement standard to confirm that the item produces results which meet or exceed that standard's criteria.

Dimensional calibration and certification for the following types of equipments:

- Micrometers
- Calipers
- Height Gage
- Digimatic Indicator



The dimensional calibration service includes measurement uncertainty calculations.

Don't see your instrument on this list? Contact Us!

BALANCE SCALES



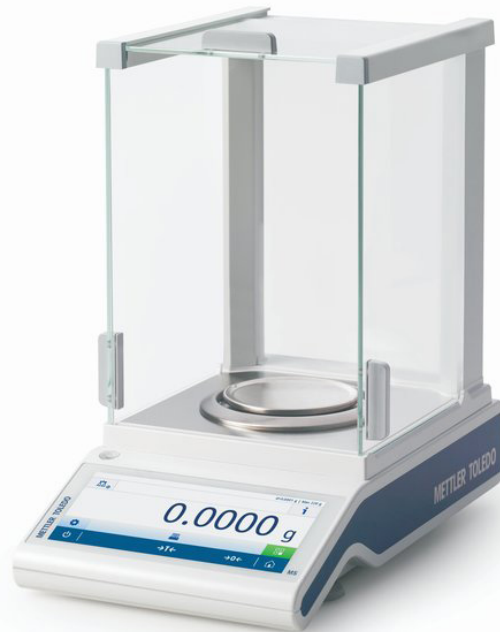
COST SAVING, COMPLIANCE AND QUALITY

Calibration determines the performance of the measuring equipment. With regular calibration and adjustment of the balance, you can safely measure, ensure compliance, and avoid the costs of inaccurate measurements and audit audits

Our calibration services are in compliance with local and global regulations and standards, such as:

ISO 17025: 2017
USP, GLP and GMP
NIST 44 and OIML Manual

The balance calibration service includes measurement uncertainty calculations.



ON-SITE SERVICES

We provide calibration services for the following brands and types of scales:

- **Analytical Balance**
- **Top Loading Balance**
- **Platform Scales**
- **Bench Scales**
- **Don't see your instrument on this list? Contact Us!**

TRACEABILITY

The standard used are traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).

MASS CALIBRATION

Tomas Cuerda Inc provides full Mass Calibration services that are in compliance with ISO/IEC 17025:2017. The standard used are traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).



COST SAVING, COMPLIANCE AND QUALITY

The calibration provided by our electronics lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).

The mass calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.



NEED A WEIGHT SET?



CONTACT US!

oscari@tomascuerda.com

(787) 758-7830

WEIGHTS SERVICED

- PRECISION WEIGHTS
- TEST WEIGHTS
- EDUCATION WEIGHTS

ELECTRONICS CALIBRATIONS

The calibration provided by our electronics lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).

The electronics calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.

Electronic calibration and certification for the following types of equipments:

- AC/DC Ammeter
- AC/DC Power Supply
- Auto Loop Calibrators
- Capacitor Analyzer
- Clamp on Volt-Amp
- Ohmmeter Digital
- Clamp On Volt-Amp
- Ohmmeter Mechanical
- DC Voltage Standards
- Digital Tachometer
- Digital Multimeter
- Multicalibrator

The electronics calibration service includes measurement uncertainty calculations.

Don't see your instrument on this list? Contact Us!





TEMPERATURE LABORATORY

The calibration provided by our temperature lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).

The electronics calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.

The temperature calibration service includes measurement uncertainty calculations.

Temperature calibration and certification for the following types of equipments:

- Liquid Glass Thermometer
- Bi-Metalic Thermometers
- COD Reactor
- Dial Thermometer
- Glass Tube Thermometer
- Temperature Calibrator
- Muffle Furnace
- Thermocouple Readouts
- Don't see your instrument on this list? Contact Us!

TORQUE LABORATORY



What is torque?

Torque (also known as moment, or moment of force) is the tendency of a force to cause or change the rotational motion of a body. It is a twist or turning force on an object. Torque is calculated by multiplying force and distance. It is a vector quantity, meaning it has both a direction and a magnitude. Either the angular velocity for the moment of inertia of an object is changing, or both.



Torque Calibrations

The torque calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.

The calibration provided by our temperature lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).



Units of Torque

The International System of Measurement units (SI units) used for torque is newton-meters or N*m. Even though newton-meters are equal to Joules, since torque isn't work or energy so all measurements should be expressed in newton-meters.



Torque Calibrations

Torque Wrench
Torque Meter
Torque Analyzer
Digital Torque



The torque calibration service includes measurement uncertainty calculations.

Don't see your instrument on this list?
Contact Us!



PRESSURE LABORATORY

Pressure calibration is the comparison of the output of a device used to measure pressure with that of another pressure measurement device, or pressure measurement standard.

The calibration provided by our pressure lab uses test equipment traceable to SI Units through the National Institute of Standard and Technology (NIST) or a National Measurement Institute (NMI).

The Pressure calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.

TCI Pressure metrology services includes calibration of Pressure Calibrators, Test Gauge (pressure and vacuum), Pressure Gauges, Pressure Transducers, Pressure Calibrators, Process Calibrators, Vacuum Transducers, Digital Manometers.

The pressure calibration service includes measurement uncertainty calculations.

ON-SITE CALIBRATIONS

On-site Calibration or field calibration is often performed on equipment that is too large or fragile to be shipped to us, or that cannot be taken out of service for a few days at a time.

ON-SITE CALIBRATION

- Reduce shipping costs.
- Schedule annually or more frequently.
- Minimize disruption to your processes.
- Eliminate equipment downtime.

ON-SITE CAPABILITIES

- Pressure Gauges
- Vacuum Gauges
- Ovens

- Temperature Bath
- Balances: Precision, Analytical, Top Loading, Platform
- Calipers
- Micrometers
- Digimatic Indicators
- Chart Recorders
- pH Meters
- Conductivity Meters
- Turbidimeter
- Transmitters: Pressure, Temperature
- Stopwatch
- Humidity
- Centrifuges

Don't see your instrument on this list? Contact Us!

The calibration provided On-Site uses test equipment traceable to SI Units through the National Institute of Standards and Technology (NIST) or a National Measurement Institute (NMI).

On-Site calibrations are in compliance with the standard ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994.