



25th
5
METROLOGY
anniversary



***Look for the capacities of each laboratory at www.soprote-metrology.com*

We are a service company that provides inside and outside the plant, the technical support and advice that users of Dimensional Measurement Instruments.

— Dimensional Inspection

CMM, Articulated Arm,
Laser Tracker, Scanners

— Calibration

CMM, Articulated Arm & CNC

— Training program

GD&T | Measuring Software | Workshop

— Spare Parts

Sale and/or replacement

— Sale and Rent

of Equipment





Accredited by

A2LA

based on the standard

ISO/IEC 17025

"General requirements for the competence of testing and calibration laboratories":

+20 years

of experience serving throughout Mexico, Canada, the United States and Central America.

+20

specialist employees

CMMs brands
ACCURATE, Brown & Sharpe, Hexagon, DEA, Zeiss, Leitz, Poli, IMS, Starrett, Mitutoyo, Coord3, Trimek, Nikon & LK, and more.

Coordinate Measuring Machine Services

Sale and Rent

Lease Purchase options

24/7

Emergency services

Financial Plans

short, medium and long term

Reverse engineering

Advice for the purchase of new machines based on specific manufacturing **needs and standards**

Project development

Accredited Dimensional Inspection

Training in different levels

Electrical and mechanical repairs, as well as preventive/corrective maintenance

Installations and **set-up**

We offer the **relocation** of your machine, as well as the local, national and international transfer

Range of brands in **spare parts** for CMM

UPGRADE

1 Kit of scales, encoders and cables

2 UPGRADE or change of controller

3 Software and workstation update

4 Maintenance or change of motors, belts and transmissions

5 Change of hoses and replacement of bearings

6 Probing system

7 Preventive Maintenance



CMM Calibration

Standard: **ASME B89.4.10360-2**
Laser Interferometer and/or Gage Blocks
to test the indication errors of a calibrated test length



Probing test ISO 10360-5:2010 / ISO 10390-5:2020

E0, E150 and the CMM Repeatability error



Articulated Arm Calibration

We have Articulated Arm laboratories conditioned for calibration under the standards:



ASME B89.4.22

"Method for evaluating the performance of Articulated Arm Coordinate Measuring Machines"

ISO 10360-12

"Reverification tests for coordinate measuring systems Part 12: Articulated Arm Coordinate Measurement Machines".

Tests: Euni, Pform, Psize, LDIA

ISO 10360-8 Annex D

"Articulated Arm CMM Scanning Probing System. Articulated Location Value (LDia)".



We collect your AACMM and return it calibrated.

Calibration Instrument:
Ball Bar

Articulated Arm sale and rent lease purchase options



Accredited Dimensional Inspection with Articulated Arm CMM

Reverse engineering

Project development

Scanning and probing

Spare parts

Training

QUANTUM S

FARO

Our equipment is traceable to primary standards

Holding & Checking Fixtures

Fixture Certification
(Checking & Holding).

Control
Device
Designs

2D and 3D
Mechanical
Manufacturing

Tuning via Dimensional
Inspection (CMM)

Logistics, Collection and
Delivery in Plant

Engineering
changes

Component
Addition

Modification
of SPC's



Issuance of the Inspection
Certificate (ASME Y 14.5)

Dimensional Inspection



Tooling repeatability
study.



Contact or scan sizing.



Certification of tooling
for production lines.



Measurement of molds
and CNC assembled
parts in their machining
position.



Testing of strict
tolerances in the
industry.











**Dimensional
Inspection
with Laser
Tracker**



Laser Tracker Services

-  Station geometry check.
-  Alignment and layout of Conveyors up to 1km with metrological tolerances.
-  Construction of antennas in the aerospace industry.
-  Assembly assisted by metrology.
-  Alignment of pieces.
-  Adjustments and inspection of control devices.



**Rent of equipment and
leasing purchase plan**

CNC Calibration

The tests carried out to the CNC comply with the standard:



ISO/IEC 17025

"General requirements for the competence of testing and calibration laboratories":

ISO 230-2 for linear axes

ISO 230-6 for diagonals

Equipment:
Interferometer
Laser Renishaw
XL80

Ballbar test in conjunction with Renishaw

- Ensure accurate CNC parts on the first try
- Reduce machine downtime and scrap and inspection costs.
- Demonstrate compliance with machine performance and quality management standards.
- Implement predictive maintenance based on facts.

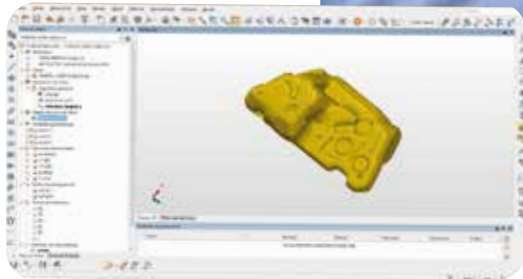
Alignment and leveling using laser equipment

- CNC leveling during installation or periodically, using laser interferometer and laser tracker.

"The periodic calibration of the CNC is key to maintain equipment accuracy and repeatability..."

Training

Optimization and technical support in Dimensional Metrology software



Advice & Training

Workshop on Site
GD&T Geometric Tolerances
ASME Y 14.5 Standard Measurement of Geometric Tolerances with CMM, AACMM and Laser Tracker.

Personalized courses in
Dimensional Metrology Software
on site and/or at our facilities

Uncertainty Course
in Dimensional Metrology.

Personalized
advisory
workshops for
your piece





SOPORTE METROLOGY

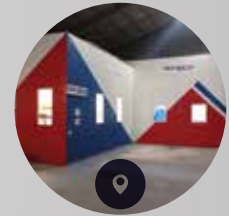
Dimensional Metrology





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