



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

THE QC GROUP, INC.
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MECHANICAL

Valid To: October 31, 2012

Certificate Number: 1172.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following dimensional tests:

I. Dimensional Testing¹

Parameter	Range	CMC ^{2,3} (±)	Technique	Standards
Workpiece Measurement ⁴ –				
1D	(0 to 8) in (0 to 12) in (0 to 1) in (0 to 6) in (0 to 1) in (0 to 4) in (0 to 1) in	0.00041 in 0.0013 in 0.00016 in 0.00015 in 0.00015 in 0.0002 in 0.0006 in	Optical comparator Calipers Micrometer Depth micrometer Pressure micrometer Toolmaker's microscope Gage pins	Internal; based on ANSI Y14.5 and customer specification
2D	(18 x 18) in	(250 + 7.1L) µin	OGP - optical CMM	Internal; based on ANSI Y14.5 and customer specification
Flatness ⁴	(0 to 0.008) in	0.00025 in	Dial indicator	Internal; based on ANSI Y14.5 and customer specification

Parameter	Range	CMC ^{2,3} (\pm)	Technique	Standards
Volume ⁴	8 ft sphere (28 x 40 x 28) in (40 x 64 x 28) in	(1100 + 11L) μ in (400 + 3.2L) μ in (40 + 18L) μ in	Faro Arm CMM (Platinum) CMM (UHA) CMM (Scanning)	Internal; based on ANSI Y14.5 and customer specification

¹ This laboratory offers commercial dimensional testing services only.

² Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

³ In the statement of CMC, L represents the nominal length of the device measured in inches.

⁴ This test is not equivalent to that of a calibration.



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

THE QC GROUP, INC.

Minnetonka, MN

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 29th day of December 2010.





Peter Abney

President & CEO
For the Accreditation Council
Certificate Number 1172.01
Valid to October 31, 2012
Revised on May 12, 2011

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.