



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Crescent Gage & Tool Sales
3809 Melcer Dr.
Rowlett, TX 75088
(and satellite as listed on the scope)

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

In the fields of

CALIBRATION and DIMENSIONAL MEASUREMENT

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 16 December 2024

Certificate Number: L2439



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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 April 2017).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
AND
ANSI/NCSL Z540-1-1994 (R2002)**

Crescent Gage & Tool Sales

3809 Melcer Dr.
Rowlett, TX 75088
Marshall Carey
972-472-4265

CALIBRATION & DIMENSIONAL MEASUREMENT

Valid to: **December 16, 2024**

Certificate Number: **L2439**

CALIBRATION

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Length Dimensional Measurement of fixtures, gauges, first article, etc.	X= Up to 1 200 mm Y= Up to 1 800 mm Z= Up to 1 000 mm	(1.7 + 0.003 6L) μm	Zeiss Accura Coordinate Measuring Machine Active Scanning Head
	X= Up to 1 200 mm Y= Up to 1 800 mm Z= Up to 1 000 mm	(2.1 + 0.003 6L) μm	Zeiss Accura Coordinate Measuring Machine Passive Scanning Head
	X= Up to 1 200 mm Y= Up to 3 000 mm Z= Up to 1 000 mm	(1.8 + 0.003 7L) μm	Zeiss Accura Coordinate Measuring Machine Active Scanning Head
	X= Up to 1 200 mm Y= Up to 3 000 mm Z= Up to 1 000 mm	(2.1 + 0.003 7L) μm	Zeiss Accura Coordinate Measuring Machine Passive Scanning Head
	X = Up to 900 mm Y = Up to 1 200 mm Z = Up to 800 mm	(1.5 + 0.003 6L) μm	Zeiss Contura Coordinate Measuring Machine Active Scanning Head
	X = Up to 900 mm Y = Up to 1 200 mm Z = Up to 800 mm	(1.7 + 0.003 5L) μm	Zeiss Contura Coordinate Measuring Machine Passive Scanning Head

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Length Dimensional Measurement of fixtures, gauges, first article, etc.	X = Up to 500 mm Y = Up to 500 mm Z = Up to 500 mm	(2.3 + 0.003 6L) μm	Zeiss DuraMax Coordinate Measuring Machine
	X = Up to 500 mm Y = Up to 400 mm Z = Up to 300 mm	(1.8 + 0.004 2L) μm	Zeiss O-Inspect Coordinate Measuring Machine
Video Measuring Systems ¹	X & Y up to 450 mm	(2.8 + 0.01L) μm	Comparison to glass scale
	Z up to 100 mm	(4.1 + 0.01L) μm	Step Gage or gage blocks

DIMENSIONAL MEASUREMENT

3 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Dimensional Measurement 3D	X= Up to 1 200 mm Y= Up to 1 800 mm Z= Up to 1 000 mm	(1.7 + 0.003 6L) μm	Zeiss Accura Coordinate Measuring Machine Active Scanning Head
	X= Up to 1 200 mm Y= Up to 1 800 mm Z= Up to 1 000 mm	(2.1 + 0.003 6L) μm	Zeiss Accura Coordinate Measuring Machine Passive Scanning Head
	X= Up to 1 200 mm Y= Up to 3 000 mm Z= Up to 1 000 mm	(1.8 + 0.003 7L) μm	Zeiss Accura Coordinate Measuring Machine Active Scanning Head
	X= Up to 1 200 mm Y= Up to 3 000 mm Z= Up to 1 000 mm	(2.1 + 0.003 7L) μm	Zeiss Accura Coordinate Measuring Machine Passive Scanning Head
	X = Up to 900 mm Y = Up to 1 200 mm Z = Up to 800 mm	(1.5 + 0.003 6L) μm	Zeiss Contura Coordinate Measuring Machine Active Scanning Head
	X = Up to 900 mm Y = Up to 1 200 mm Z = Up to 800 mm	(1.7 + 0.003 5L) μm	Zeiss Contura Coordinate Measuring Machine Passive Scanning Head
	X = Up to 500 mm Y = Up to 500 mm Z = Up to 500 mm	(2.3 + 0.003 6L) μm	Zeiss DuraMax Coordinate Measuring Machine
	X = Up to 500 mm Y = Up to 400 mm Z = Up to 300 mm	(1.8 + 0.004 2L) μm	Zeiss O-Inspect Coordinate Measuring Machine
	X = Up to 4 000 mm Y = Up to 4 000 mm Z = Up to 4 000 mm	(47 + 0.081L) μm	Zeiss T-Scan Hawk
	X = Up to 4 000 mm Y = Up to 4 000 mm Z = Up to 4 000 mm	(47 + 0.035L) μm	Zeiss T-Scan Hawk 2

Services performed at satellite location

5040 SH 123
 Bldg. 200, Suite 1
 San Marcos, TX 78666

CALIBRATION

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Video Measuring Systems ¹	X & Y up to 450 mm	(2.8 + 0.01L) μm	Comparison to glass grids
	Z up to 100 mm	(4.1 + 0.01L) μm	Comparison to Z height standards

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. L = Length in millimeters
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L2439.



Jason Stine, Vice President