



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 read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

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
Dimensional Measurement	Up to 1 800 mm	$(1.7 + 0.0035 5L) \mu\text{m}$	Zeiss Accura Coordinate Measuring Machine
	X = Up to 1 200 mm Y = Up to 1 800 mm	$(1.7 + 0.0035 5L) \mu\text{m}$	Zeiss Accura Coordinate Measuring Machine
	X= Up to 1 200 mm Y= Up to 1 800 mm Z= Up to 1 000 mm	$(1.7 + 0.0035 5L) \mu\text{m}$	Zeiss Accura Coordinate Measuring Machine
Video Measuring Systems ¹	X & Y up to 450 mm	$(2.8 + 0.01L) \mu\text{m}$	Comparison to glass scale
	Z up to 100 mm	$(4.1 + 0.01L) \mu\text{m}$	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 + 0.0035 5L) μm	Zeiss Accura Coordinate Measuring Machine
	X = Up to 900 mm Y = Up to 1 200 mm Z = Up to 800 mm	(1.5 + 0.0034 4L) μm	Zeiss Contura XTR Coordinate Measuring Machine
	X = Up to 700 mm Y = Up to 1 000 mm Z = Up to 600 mm	(1.8 + 0.0041 3L) μm	Zeiss Spectrum RDS Coordinate Measuring Machine
	X = Up to 500 mm Y = Up to 500 mm Z = Up to 500 mm	(2.2 + 0.0035 5L) μm	Zeiss DuraMax Coordinate Measuring Machine
	X = Up to 500 mm Y = Up to 400 mm Z = Up to 300 mm	(1.8 + 0.0043 1L) μm	Zeiss O-Inspect Coordinate Measuring Machine



ANSI National Accreditation Board

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
Dimensional Measurement	Up to 1 000 mm	$(1.5 + 0.003\ 4L)\ \mu\text{m}$	Zeiss Contura XTR Coordinate Measuring Machine
	X = Up to 1 000 mm Y = Up to 1 200 mm	$(1.5 + 0.003\ 4L)\ \mu\text{m}$	Zeiss Contura XTR Coordinate Measuring Machine
	X= Up to 1 000 mm Y= Up to 1 200 mm Z= Up to 600 mm	$(1.5 + 0.003\ 4L)\ \mu\text{m}$	Zeiss Contura XTR Coordinate Measuring Machine
Video Measuring Systems ¹	X & Y up to 450 mm	$(2.8 + 0.01L)\ \mu\text{m}$	Comparison to glass grids
	Z up to 100 mm	$(4.1 + 0.01L)\ \mu\text{m}$	Comparison to Z height standards

DIMENSIONAL MEASUREMENT

3 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Dimensional Measurement 3D	X = Up to 1 000 mm Y = Up to 1 200 mm Z = Up to 600 mm	(1.5 + 0.003 4L) μm	Zeiss Contura XTR Coordinate Measuring Machine

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.



R. Douglas Leonard Jr., VP, PILR SBU