



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**A.G. Davis Gage & Engineering Co. Inc.**  
**6533 Sims Drive**  
**Sterling Heights, MI 48313**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**CALIBRATION**

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](http://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: 02 October 2023  
Certificate Number: AC-1568



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**

**A.G. Davis Gage & Engineering Co. Inc.**

6533 Sims Drive  
Sterling Heights, MI 48313  
Brenda Rowe  
586-977-9000

**CALIBRATION**

Valid to: **October 2, 2023**

Certificate Number: **AC-1568**

**Length – Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) <sup>2</sup>	Reference Standard, Method, and/or Equipment
Angle	0° to 360°	0.049 arc second	HP Agilent Laser Measuring System w/ D.A.A.A.M. System
Angle <sup>1</sup>	0° to 360°	0.15 arc second	Comparison to Master Index Table
X-Y Axis	(0 to 60) in	0.000 3 in	HP Agilent Laser Measuring System w/ SIP Hydroptic-7A
Inside Diameter	(0.05 to 1) in (1.27 to 25.4) mm (1 to 12) in (25.4 to 304.8) mm	24 μin 0.61 μm (17 + 4.8L) μin (0.43 + 0.004 8L) μm	Comparison made with Federal Products Horizontal Master Comparator and Gage Blocks

**Length – Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) <sup>2</sup>	Reference Standard, Method, and/or Equipment
Outside Diameter / Length	(0.05 to 1) in	24 μin	Comparison made with Federal Products Horizontal Master Comparator and Gage Blocks
	(1.27 to 25.4) mm	0.61 μm	
	(1 to 12) in	(17 + 4.8L) μin	
	(25.4 to 304.8) mm	(0.43 + 0.004 8L) μm	
Outside Diameter / Height / Length	(0.05 to 1) in	28 μin	Comparison made with Mikrokator, Surface Plate, and Gage Blocks
	(1.27 to 25.4) mm	0.71 μm	
	(1 to 12) in	(23 + 4.5L) μin	
	(25.4 to 304.8) mm	(0.59 + 0.004 5L) μm	

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 inches and millimeters respective to unit shown in range.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1568.



R. Douglas Leonard Jr., VP, PILR SBU