CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Triology Inc.
22841 Dequindre Rd.
Hazel Park, MI 48030

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 29 June 2021
Certificate Number: AC-1278

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)

Triology Inc.
22841 Dequindre Rd.
Hazel Park, MI 48030
Kern Smith
248-650-9933

CALIBRATION

Valid to: **June 29, 2021** Certificate Number: **AC-1278**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
CMM: Linear Displacement Accuracy[1]	X, Y, Z: Up to 15 m	(1.2 + 1.0*L*) µm	ASME B89.4.1-1997/2001: Linear Displacement Accuracy per Sec 5.4.3, Volumetric Performance per Sec 5.5, Repeatability per Sec 5.3.3; Using Renishaw XL-80 Laser and XC-80 Environmental Compensation Unit, Bal-Tec Ball Bar Kit and Master Sphere
CMM: Volumetric Length Measurement Error[1]	Length Nominal: (300, 400, 550, 750, 900) mm	(6.5 + 2.1*L*) µm	ASME B89.4.1- 1997/2001 Sec 5.5.1 using Certified Ball Bars
Optical/Vision/Video Measuring Systems: X, Y Bidirectional Length Measurement Error[1]	X, Y: Up to 300 mm	5.1 µm	WI-003 Procedure using Glass Master

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. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1278.

R. Douglas Leonard Jr., VP, PILR SBU