

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

Core Services, LLC
1271 Shine Avenue
Myrtle Beach, SC 29577
Joe Lacy 843-232-0404

CALIBRATION

Valid to: **November 26, 2023**

Certificate Number: **AC-1147**


Length – Dimensional Metrology

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|--|-----------------|--|---|
| CMM ^{1,2} Repeatability Linear Displacement | (25 to 650) mm | (1.3 + 3.4L) μm | ASME B89.4.1b Sections 5.3.3 and 5.4.2 RBCM 650, Webber Bar |
| CMM ^{1,2} Linear Displacement (Laser) | Up to 10 m | 1.6 μm | ASME B89.4.1b Sections 5.4.3 and 5.5.4 |
| CMM ^{1,2} Volumetric Length Measurement Error | (200 to 900) mm | (3.2 + 1.6L) μm | ASME B89.4.1b Sections 5.5.2 and 5.5.4, Ball Bar |

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 meters.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1147.



R. Douglas Leonard Jr., VP, PILR SBU