



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **TECHNICAL ASSOCIATED SERVICES, LLC**

7832 FRANKLIN DRIVE  
HUNTINGTON BEACH, CALIFORNIA 92648, U.S.A.

### **Calibration Laboratory CL-153**

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 27, 2021

Expiration Date February 1, 2022



A handwritten signature in black ink that reads "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## TECHNICAL ASSOCIATED SERVICES, LLC

[www.tascalibration.com](http://www.tascalibration.com)

**Contact Name** Terry A. Summers

**Contact Phone** + 1- 714-841-0475

*Accredited to ISO/IEC 17025:2017*

*Effective Date March 27, 2021*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
<b>Dimensional</b>			
Dial Indicators	Up to 4 in	0.0012 in	Gage Blocks ANSI B89.1 Lab Procedure HBCP 13.00
Dial Calipers	Up to 6 in 6 in to 12 in	0.0014 in 0.0018 in	Gage Blocks Lab Procedure HBCP 13.003
Digital Calipers	Up to 6 in 6 in to 12 in	700 µin 900 µin	Gage Blocks Lab Procedure HBCP 13.003
Digital Micrometers	Up to 12 in	140 µin	Gage Blocks Manufacture Manual Lab Procedure HBCP 13.007
Extensometer	Up to 1 in	0.04 %	Linear calibrator ASTM E 83-16 Lab Procedure HBCP 13.020
<b>Mechanical</b>			
Force- Compression and Tension	22 lbf to 5,000 lbf 100 lbf to 5,000 lbf 960 lbf to 20,000 lbf 2,500 lbf to 100,000 lbf 14,000 lbf to 500,000 lbf 32,000 lbf to 1,000,000 lbf	0.09 % 0.09 % 0.12 % 0.12 % 0.12 % 0.11 %	Load Cell ASTM E4-20 Lab Procedure HBCP 13.005
Balances and Scales	0 g to 211 g 0 kg to 60 kg 0 lb to 1,000 lb	0.68 mg 6.5 g 0.35 lb	Linear calibrator ASTM E898-20 Lab Procedure HBCP 13.028
Torque Wrench	Up to 2,000 lbf-ft	0.5 %	Torque Transducer ASME B107.301 Lab Procedure HBCP 13.027

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> ( $\pm$ )	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
<i>Thermal</i>			
Oven	Up to 1200 °C	0.9 °C	Digital Thermometer, Thermocouple Manufacture Manual Lab Procedure HBCP 13.024

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.