



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

KING TESTER CORPORATION
308 Schell Lane
Phoenixville, PA 19460
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CALIBRATION

Valid To: May 31, 2020

Certificate Number: 4877.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Direct Verification of Brinell Hardness Testers –			Direct verification per ASTM E10, ISO 6506
Verification of the Test Force	187.5 kgf 500 kgf 750 kgf 1000 kgf 1500 kgf 3000 kgf	1.5 kgf 1.1 kgf 1.0 kgf 1.4 kgf 1.2 kgf 1.7 kgf	Brinell proving ring
Verification of the Device for Measuring Indentation Diameters	0.6 mm	0.001 mm	Stage micrometer

Parameter/Equipment	Range	CMC ² (±)	Comments
Indirect Verification of Brinell Harness Testers at Test Condition(s) –			
HBW 10/3000	(95 to 224) HBW (225 to 650) HBW	0.48 HBW 2.6 HBW	Indirect verification method per ASTM E10, ISO 6506
HBW 10/1500	(47.7 to 113) HBW (114 to 327) HBW	0.8 HBW 4.1 HBW	
HBW 10/1000	(31.8 to 75) HBW (75.2 to 218) HBW	0.6 HBW 2.8 HBW	
HBW 5/750	(95 to 224) HBW (225 to 650) HBW	2.4 HBW 2.7 HBW	
HBW 10/500	(15.9 to 37.5) HBW (37.5 to 109) HBW	1.2 HBW 0.9 HBW	
HBW 2.5/187.5	(95 to 224) HBW (225 to 650) HBW	2.3 HBW 4.7 HBW	
Verification of Brinell Measurement Device –			
Type A Device Type B Device	(1 to 7) mm (1 to 7) mm	0.001 mm 0.1 mm	Verification method per ASTM E10, ISO 6506
Calibration of Standardized Brinell Hardness Test Blocks – Mean Hardness Value	≤ 225 HBW >225 HBW	1.0 HBW 2.4 HBW	Standardization method per ASTM E10, ISO 6506

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.



Accredited Laboratory

A2LA has accredited

KING TESTER CORPORATION

Phoenixville, PA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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)*.



Presented this 24th day of April 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4877.01
Valid to May 31, 2020

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.