



National Association of Testing Authorities, Australia
SCOPE OF ACCREDITATION

Australian Calibrating Services (A'sia) Pty Ltd - ACS
BRISBANE LABORATORY

| Accreditation Number: 1239 | Site Number: 1628 |

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AUSTRALIA

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2005)
Calibration

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Dimensional metrology - Engineering equipment and precision instruments	Electronic calipers; Vernier calipers;	Length measurements	Comparison with a reference standard	including compliance to AS 1984, BS 887, and JIS 7507	Up to 500 mm

CAPABILITY

with Calibration and Measurement Capability of -
 $(10 + 0.025L)$ μm for indication errors up to 500 mm where L is the scale value in mm

	Dial gauges	Length measurements	Comparison with a reference standard	including compliance to AS 2103	Up to 100 mm
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CAPABILITY

with Calibration and Measurement Capability of -
 $(1 + 0.025L)$ μm for indication errors up to 100 mm where L is the scale value in mm

	Steel rulers and measuring tapes	Length measurements	Comparison with a reference standard		<u>Steel rules</u> up to 2 m
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CAPABILITY

with Calibration and Measurement Capability of -

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Retractable steel pocket rules

(0.15 + 0.13L) mm where L is the scale value in m

Steel rules

25 µm up to 2 m in length

Force metrology - Force measuring and testing equipment	Load cells; Load measuring rings;	Force in compression; Force in tension;	Comparison measurement with reference load cell	Calibration of devices such as load measuring rings for soil testing machines in tension and compression to class AA and to class A requirements of AS 2193 Electronic load cells and hydrostatic weighing units including those in batching plants and aircraft weighing kits	In tension and compression at forces up to 500 kN to class AA and up to 3.3 MN to class A requirements of AS 2193
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CAPABILITY

With Calibration and Measurement Capability of -
Tension

0.17% of reading from 0.01 N to 1000 kN

0.25% of reading above 1000 kN to 3.3 MN

Class A up to 3.3 MN

Class AA up to 500 kN

Compression

0.17% of reading from 0.01 N to 500 kN

0.25% of reading above 500 kN to 10 MN

Class AA up to 500 kN

Class A up to 4.5 MN

Class B up to 10 MN

Force metrology - Force measuring and testing equipment	Compression and universal machines in compression; Hydraulic rams and jacks; Tension and universal machines in tension;	Force in compression; Force in tension;	Comparison measurement with reference load cell	<u>Tension and universal machines in tension</u> AS 2193 and including testing to ISO 7500-1 and ASTM E4 <u>Compression and universal machines in compression</u> AS 2193 and including testing to ISO 7500-1 and ASTM E4 Verification of compression testing machines for concrete including self-alignment and restraint on tilt tests	Tension up to 3.3 MN Compression up to 10 MN
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				for compliance with BS 1881 Part 115 <u>Hydraulic rams and jacks</u> Including devices used in pre and post-stressing jacks and jacking systems used for stressing tendons in concrete to Class A requirements of AS 2193	
including on site calibrations					
<p>CAPABILITY Including on site calibrations with Calibration and Measurement Capability of -</p> <p><u>Tension</u> 0.17% of reading from 0.01 N to 1000 kN 0.25% of reading above 1000 kN to 3.3 MN Class A up to 3.3 MN Class AA up to 500 kN</p> <p><u>Compression</u> 0.17% of reading from 0.01 N to 500 kN 0.25% of reading above 500 kN to 10 MN Class AA up to 500 kN Class A up to 4.5 MN Class B up to 10 MN</p>					
Force metrology - Hardness standards and equipment	Rockwell hardness machines	Rockwell hardness	Comparison with a reference standard	Partial and complete calibration except indenter dimensions clause (2.4.1.2b) including compliance to AS 1815.2	
including on site calibrations					
Force metrology - Hardness standards and equipment	Brinell hardness machines	Brinell hardness	Comparison with a reference standard	Partial and complete calibration including compliance to AS 1816.2	
including on site calibrations					



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Force metrology - Hardness standards and equipment	Vickers micro-hardness machines	Vickers hardness	Comparison with a reference standard	(less than HV 0.2) Direct verification except indenter dimensions including compliance to ISO 146-2	
including on site calibrations					
Force metrology - Hardness standards and equipment	Vickers low-load hardness machines	Vickers hardness	Comparison with a reference standard	(HV 0.2 to HV 5) Direct verification and indirect verification except indenter dimensions including compliance to ISO 146	9.8 N to 49 N
including on site calibrations					
Force metrology - Hardness standards and equipment	Rockwell superficial hardness machines	Rockwell hardness	Comparison with a reference standard	Partial and complete calibration including compliance to AS 2025	
including on site calibrations					
	Indenters; Portable Brinell measuring microscopes;	Brinell hardness	Comparison with a reference standard	Visual examination for Indenters only Brinell Measuring microscopes are calibrated	
Force metrology - Hardness standards and equipment	Vickers hardness machines	Vickers hardness	Comparison with a reference standard	Partial and complete calibration except indenter dimensions clause (2.4.2.2) including compliance to AS 1817.2	9.8 N to 1176 N
including on site calibrations					
Mass - Determination of mass and calibration of weighing devices	Industrial weighing devices; Laboratory weighing devices;	Mass	Gravimetric measurement against reference mass		



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	Precision laboratory balances;				
including on site calibrations					
<p>CAPABILITY Including on site calibrations with Calibration and Measurement Capability of - Precision laboratory balances 2 in 10⁶ or 20 µg (whichever is greater) up to 200 g Industrial balances 1 in 10⁵ or 1 mg (whichever is greater) up to 30 kg Industrial weighing appliances 5 in 10⁵ or 100 mg (whichever is greater) up to 400 kg</p>					
	Industrial mass standards	Mass	Gravimetric measurement against reference mass		From 1 g up to 20 kg
<p>CAPABILITY with Calibration and Measurement Capability of - 0.9 mg from 1 g up to 100 g; 20 mg from 100 g to 2 kg; 130 mg from 2 kg to 20 kg</p>					
Pressure metrology - Pressure and vacuum measuring equipment	Digital pressure gauges; Mechanical pressure gauges; Pressure control devices; Pressure gauges; Pressure recorders; Pressure transducers; Vacuum gauges;	Gauge pressure	By pressure calibrator	AS 1349	-100 kPa to 70 MPa
including on site calibrations					
<p>CAPABILITY With Calibration and Measurement Capability of- 0.05% of reading from 100 kPa to 70 MPa 0.23% of reading from -100 kPa to -20 kPa and 20 kPa to 100 kPa 0.46% of reading or 80 Pa (whichever is greater) from -20 kPa to 20 kPa</p> <p>For on site calibrations</p>					



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Calibration of industrial gauges
 With Calibration and Measurement Capability of-
 0.23% of reading from -100 kPa to -20 kPa and 20 kPa to 70 MPa
 0.46% or 80 Pa (whichever is greater) from -20 kPa to 20 kPa

Torque - Torque measuring and testing equipment	Torque wrenches	Torque	Comparison with a reference standard	including compliance to AS 4115	from 0.1 N.m to 1350 N.m
including on site calibrations					

CAPABILITY

Including on site calibrations
 with Calibration and Measurement Capability of-
 1.5% of reading from 0.1 N.m to 1.2 N.m
 0.4% of reading from 1.2 N.m to 1350 N.m

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