

Scope of Accreditation

PCS Precision (Aust)

Site

PCS Precision (Aust)

Accreditation No.	Site No.	Date of Accreditation
1710	1703	14 Jan 1983

Address	Contact	Availability
Unit 11,, 21-23 Daniel Street Wetherill Park, NSW 2164 Australia pcsweighing.com.au	Mr Kip Stavrou P: +61(02) 97561944 pcsweighing@bigpond.com	Services available to external clients

PCS Precision (Aust)

ISO/IEC 17025 (2017)

Calibration

- The uncertainty of measurement is reported as an expanded uncertainty having a level of confidence of 95% unless stated otherwise

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATIONS
Dimensional metrology - Engineering equipment and precision instruments	Dial gauges; Extensometers; External micrometers; Feeler gauges; LVDTs; Vernier calipers	Length measurements	Comparison with a reference standard; Direct measurement against a reference standard	External micrometers for compliance with AS 2102-1989 and BS EN ISO 3611; Dial gauges and test indicators for compliance with AS 2103-1978; Including Electronic indicators and LVDT's (electronic) to PCS test method ZHC167 Dial Gauges (indicators) to PCS test method ZHC125	

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATIONS
				Electronic and vernier calipers for compliance with JIS B 7507; Feeler gauges for compliance with JIS B 7524; Extensometers to AS 1545	

Capability

with Calibration and Measurement Capability of -

External micrometers

- 1.3 µm for linear measurements from 0 mm to 25 mm
- 2.3 µm for linear measurements above 25 mm up to 100 mm
- 3.2 µm for linear measurements above 100 mm up to 200 mm
- 5.0 µm for linear measurements above 200 mm up to 300 mm
- 0.3 µm for parallelism from 0 mm to 50 mm
- 0.5 µm for parallelism above 50 up to 100 mm
- 2.5 µm for parallelism above 100 mm

Dial gauges, electronic and test indicators, LVDTs

Self-indicating devices with up to 100 mm displacement and 1 µm (or greater) resolution

- 1.3 µm for linear measurements from 1 µm to 10 mm
 - 1.6 µm for linear measurements above 10 mm to 25 mm
 - 3.0 µm for linear measurements above 25 mm to 50 mm
 - 10.0 µm for linear measurements above 50 mm to 100 mm
- including onsite calibrations

With Calibration and Measurement Capability of -

- 3.0 µm for linear measurements from 1 µm to 10 mm
- 3.0 µm for linear measurements above 10 mm to 25 mm
- 4.0 µm for linear measurements above 25 mm to 50 mm
- 10.0 µm for linear measurements above 50 mm to 100 mm

Electronic and vernier calipers

- 13 µm for linear measurements from 0 mm to 150 mm
- 18 µm for linear measurements from 150 mm to 300 mm
- 23 µm for linear measurements from 300 mm to 600 mm
- 32 µm for linear measurements from 600 to 1000 mm
- 2.5 µm for form and geometry measurements

Feeler gauges

- 2 µm from 0.01 mm to 2 mm

Extensometers

- 1.3 µm from 0 to 25 mm

Force metrology - Force measuring and testing equipment	Compression and universal machines in compression; Load cells; Load measuring rings; Tension and universal machines in tension	Force in compression; Force in tension	Comparison measurement with reference load cell; Gravimetric measurement with reference mass	AS 2193
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Capability

Including onsite calibrations

with Calibration and Measurement Capability of-

Tension

0.2% of reading from 5 N to 500 kN to Class AA requirements of AS 2193

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATIONS
Compression 0.2% of reading from 5 N to 1.5 MN to Class AA requirements of AS 2193 0.35% of reading from 1.5 MN to 2 MN to Class A requirements of AS 2193					
	Hydraulic rams and jacks	Force in compression; Force in tension	Comparison measurement with reference load cell	AS 2193	
Capability Including onsite calibrations with Calibration and Measurement Capability of - 0.4% of reading from 1 kN to 212 kN to class A requirements of AS 2193					
Mass - Determination of mass and calibration of weighing devices	Hopper weighing systems; Industrial weighing devices; Laboratory weighing devices; Precision laboratory balances	Mass	Gravimetric measurement against reference mass	PCS Procedure ZHN021 The Calibration of Weights and Balances Monograph 4 PCS Work Instruction ZHN000 and to the Guidelines of the National Measurement Institute NITP 6.1 to 6.4 Sections 5.1, 5.2 and 5.4	
Capability with Calibration and Measurement Capability of - Precision laboratory balances 1 in 10^6 or 6 μg (whichever is greater) from 1 mg up to 6000 g; 1 in 10^6 or 10 mg above 6000 g up to and including 10000 g Industrial balances 1 in 10^5 or 1 mg (whichever is greater) from 1 g up to 60 kg Industrial and Hopper Weighing Systems 5 in 10^5 or 100 mg (whichever is greater) from 1 kg up to 2 t; 1 in 10^4 from 2 to 5 t; 2 kg from 5 to 10 t; 5 kg from 10 to 14 t					
	Industrial mass standards; Mass standards	Mass	Gravimetric measurement against reference mass	PCS Procedure ZHC147 The Calibration of Weights and Balances Monograph 4	
Capability with Calibration and Measurement Capability of - Mass standards 10 μg from 1 mg to 1 g; 20 μg at 2 g and 5 g;					

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATIONS
30 µg at 10 g and 20 g; 45 µg at 50 g; 60 µg at 100 g; 0.11 mg at 200 g; 1.5 mg at 500 g; 1.5 mg at 1 kg; 15 mg at 2 kg, 5 kg and 10 kg; Industrial mass standards 120 mg at 20 kg; 1 g at 50 kg; 1.5 g at 100 kg; 3 g at 200 kg; 7.5 g at 250 kg; 8 g at 500 kg; 15 g from 1 t up to 1.1 t;					
Pressure metrology - Pressure and vacuum measuring equipment	Digital pressure gauges; Mechanical pressure gauges; Pressure recorders; Pressure transducers; Vacuum gauges	Gauge pressure	By pressure calibrator; Comparison with dead weight tester	AS 1349 and MSA Test Method 2 (Pressure and Vacuum gauges) MSA Test Method 1 (Self indicating and electrical transducers with dc voltage or dc current output)	
Capability with Calibration and Measurement Capability of- 0.05% of reading or 40 Pa (whichever is greater) from -95 kPa to -2.5 kPa 5 Pa from -2.5 kPa to 0.005 kPa 0.05% of reading or 0.6 Pa from 0.005 kPa to 2.5 kPa 0.05% of reading or 40 Pa (whichever is greater) from 2.5 kPa to 200 kPa 0.05% of reading from 200 kPa to 4000 kPa 0.05% of reading or 4000 Pa (whichever is greater) from 4000 kPa to 14000 kPa 0.05% of reading from 14000 kPa to 35000 kPa 0.05% of reading or 40000 Pa (whichever is greater) from 35000 kPa to 100000 kPa For on site calibrations 0.05% of reading or 40 Pa (whichever is greater) from -95 kPa to -2.5 kPa 5 Pa from -2.5 kPa to 2.5 kPa 0.05% of reading or 40 Pa (whichever is greater) from 2.5 kPa to 200 kPa 0.05% of reading from 200 kPa to 4000 kPa 0.05% of reading or 4000 Pa (whichever is greater) from 4000 kPa to 14000 kPa 0.05% of reading from 14000 kPa to 35000 kPa 0.05% of reading or 40000 Pa (whichever is greater) from 35000 kPa to 100000 kPa					
Temperature metrology - Temperature measuring equipment	Digital temperature measuring systems	Temperature	Measurement against reference standard	PCS Procedure ZHC401	

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATIONS
Capability with Calibration and Measurement Capability of - 0.05 °C from -80 °C to 0 °C 0.02 °C at 0 °C 0.05 °C from 0 °C to 200 °C					
Torque - Torque measuring and testing equipment	Torque transducers; Torque wrenches	Torque	Comparison with a reference standard	Calibration of torque wrenches to ASME B107.300 Calibration of torque transducers to PCS Test Method ZHC173	
Capability with Calibration and Measurement Capability of - <u>Torque wrenches</u> 2% of reading from 0.5 Nm to 3 Nm 1% of reading above 3 Nm to 15 Nm 0.5% of reading above 15 Nm to 1500 Nm <u>Torque transducers</u> 0.2% of reading from 1 Nm to 2000 Nm					
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.					

Accreditation No.	Site No.	Print date
1710	1703	04 Nov 2025

END OF SCOPE