

ACCREDITATION NO: 1710

Precision Calibration Services Pty Ltd

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FACILITIES: Public testing service

This laboratory complies with the requirements of ISO/IEC 17025 (2005)

Their least uncertainties of measurement are expressed as expanded uncertainties (\pm)

1.03 Engineering metrology equipment

.22 External micrometers

Up to 300 mm for compliance with AS 2102
with least uncertainties of measurement of -

1.3 μm for linear measurements up 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 up to 50 mm;

0.5 μm for parallelism above 50 up to 100 mm;

2.5 μm for parallelism above 100 mm

.25 Electronic indicators, dial gauges and test indicators

For compliance with AS 2103

with least uncertainties of measurement of -

1.3 μm for linear measurements from 1 to 10 mm;

1.6 μm for linear measurements from 10 to 25 mm

.27 Electronic and vernier callipers

Up to 1000 mm for compliance with AS 1984 and JIS B 7507

with least uncertainties of measurement of -

13 μm for linear measurements up 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

.29 Feeler gauges

For compliance with AS 1655

with least uncertainties of measurement of -

2 μm

.30 Extensometers

Calibration to AS 1545 with a least uncertainty of measurement of indicated extension of 1.3 μm

1.11 Masses

.01 Mass standards

with least uncertainties of measurement of -

with least uncertainties of measurement of -

10 μg up to 1 g;

20 μg at 2 and 5 g;

30 μg at 10 and 20 g;

45 μg at 50 g;

- 60 µg at 100 g;
- 0.11 mg at 200 g;
- 0.8 mg at 500 g;
- 1 mg at 1 kg;
- 10 mg at 2, 5 and 10 kg;

.02 Industrial mass standards

- with least uncertainties of measurement of -
- 85 mg at 20 kg;
- 1 g at 50 kg;
- 1.3 g at 100 kg;
- 4.4 g at 250 kg;
- 6.5 g at 500 kg;
- 13 g at 1 up to 1.3 t;
- 24 g at 2 t;
- 0.16 kg at 5 t

1.12 Weighing devices

.01 Precision laboratory balances

- with least uncertainties of measurement of -
- 2 in 10^6 or 20 µg (whichever is greater) up to 200 g;
- 2 in 10^6 or 0.5 mg above 200 g up to and including 300 g

.02 Industrial balances

- with least uncertainties of measurement of -
- 1 in 10^5 or 1 mg (whichever is greater) up to 60 kg

.03 Industrial weighing appliances

- with least uncertainties of measurement of -
- 5 in 10^5 or 100 mg (whichever is greater) 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

1.20 Pressure and vacuum measuring devices

.01 Pressure gauges

- Calibration in the range 300 kPa to 120 MPa including test gauges as defined in AS 1349
- with least uncertainties of measurement of -
- 0.06% or 0.6 kPa (whichever is greater)

On Site Calibration

- Calibration of industrial gauges as defined in AS 1349 in the range -95 kPa to 120 MPa
- with least uncertainties of measurement of 0.3%

.11 Pressure transducers

- Calibration of self-indicating transducers in the range 300 kPa to 120 MPa
- with least uncertainties of measurement of -
- 0.06% of full scale reading

On Site Calibration

- Calibration of self-indicating transducers in the range -95 kPa to 120 MPa
- with least uncertainties of measurement of 0.3%

1.23 Force measuring devices

.02 Elastic force measuring devices

- Calibration of devices such as load measuring rings for soils testing machines, jacking systems and load cells based on 1.26.01 and 1.26.02

1.25 Torque measuring devices

.01 Torque wrenches

- Calibration of torque wrenches from 5 to 2000 Nm to AS 4115
- With least uncertainties of measurement of:-
- 0.3%

.02 Torque transducers

- Calibration of torque transducers from 5 to 2000 Nm
- With least uncertainties of measurement of:-
- 0.1%

1.26 Testing machines

.01 Tension and universal machines in tension

- Calibration to the following classes of AS 2193 -
 - Class AA up to 1 kN; 1.8 to 100 kN;
 - Class A up to 100 kN
- .02 Compression and universal machines in compression
 - Calibration to the following classes of AS 2193 -
 - Class AA up to 1 kN; 1.8 to 5 kN; 7.8 to 100 kN; 123 kN to 2 MN;
 - Class A up to 2 MN
- .11 Vickers hardness machines
 - Partial and complete calibration except indenter dimensions to AS 1817 from 24.5 N to 980 N
- .12 Rockwell hardness machines
 - Partial and complete calibration except indenter dimensions and measuring apparatus to AS 1815
- .13 Brinell hardness machines
 - Partial and complete calibration to AS 1816 from 39.2 N to 29.4 kN
- .21 Izod impact machines
 - Partial and complete calibration to AS 1544.4 and similar standards
- .22 Charpy impact machines
 - Partial and complete calibration to AS 1544.4 and similar standards

1.27 Ancillary mechanical testing equipment

- .01 Portable Brinell measuring microscopes
- .02 Indenters for hardness machines
 - Visual examination

1.28 Ancillary testing equipment for construction materials

- .25 Dial gauges and other displacement measuring devices
 - Calibration of self-indicating devices with up to 100 mm displacement and 10 µm (or greater) resolution to the NATA Construction Materials Testing supplementary requirements

1.99 Approved Signatories

- K Stavrou
 - 1.03.22, 1.03.25, 1.03.27, 1.03.29, 1.11, 1.12, 1.20, 1.25.01, 1.25.02
- D Bolenski
 - 1.03.30, 1.11, 1.12, 1.23, 1.26, 1.27, 1.28
- R Botfield
 - 1.11, 1.20, 1.03.29, 1.25.01, 1.25.02
- J Tran
 - 1.12
- L Schroder
 - 1.12.01, 1.12.02, 1.12.03, 1.12.04
- M Smith
 - 1.12.01, 1.12.02, 1.12.03, 1.12.04
- M Tugcu
 - 1.11, 1.12
- F Pace
 - 1.25.02

Accreditation No: 1710
(Scope Last Changed 05/12/11)
