

# Schedule

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Certificate No. : LA-2022-0800-C  
Issue No. : 5  
Date : 20 January 2026  
Expiry of Certificate : 19 January 2030  
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FIELD OF TESTING: Calibration and Measurement

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES/ FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY
<b><u>A. Dimensional</u></b>		
1. External / Micrometer (Lab) (Analog, Digital, Digimatic) UTCPD01-00 BS 870 : 2008 JIS B 7502 : 2016	Resolution: 0.0001 mm (0 – 25) mm  Resolution: 0.0001 mm (0 – 300) mm (300 – 400) mm (400 – 800) mm (800 – 1000) mm  Flatness Parallelism	0.2 µm  1.0 µm 2.0 µm 6.0 µm 7.0 µm  0.3 µm 0.5 µm
2. Plain Plug Gauge / Pin Gauge (Lab) UTCPD02-00 BS 969 : 2008	(0 – 22) mm	0.5 µm
3. Thread Plug Gauge (Lab) UTCPD03-00 ISO 1502 : 1996 ISO 965-1 : 2013 ISO 228-2 : 1987 BS 4377 : 1991 BS 919-1 to 4 : 2007 ASME/ANSI B1.2 - 2017	- Pitch Diameter - Major Diameter (0 – 20) mm - Pitch - Angle	2.0 µm 1.0 µm 0.17°
4. Feeler Gauge (Lab) UTCPD04-00 BS 957 : 2008	Up to 1 mm	0.40 µm

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5. Dial Gauge Calibrator/Calibration Tester (Lab) UTCPD05-02	Resolution: 0.00001 mm (0 – 100) mm	0.56 µm
	Resolution: 0.0002 mm (0 – 5) mm	0.20 µm
	Resolution: 0.001 mm (0 – 25) mm	0.60 µm
6. Linear type Indicating Gauge (Lab) - Dial Gauge - Linear Gauge UTCPD06-01 ISO 463 : 2006 JIS B 7503:2017	Resolution: 0.0005 mm (0 – 0.05) mm	0.30 µm
	Resolution: 0.002 mm (0 – 1) mm	0.60 µm
	Resolution: 0.001 mm (0 – 12.7) mm	0.70 µm
	(0 – 50) mm (0 – 100) mm	0.90 µm 1.1 µm
7. Lever type Indicating Gauge/Device (Lab) UTCPD07-00 JIS B 7533 : 2015  Mu Checker/Millitron	Resolution: 0.0001 mm (0 – 1.8) mm	0.30 µm
	Dial Test Indicator (Dial, Digimatic)	
	Resolution: 0.001 mm (0 – 0.14) mm Resolution: 0.002 mm (0 – 0.2) mm Resolution: 0.01 mm (0 – 0.8) mm	0.30 µm 0.60 µm 2.80 µm
8. End Standards (Lab) - Setting Rods - Setting Masters  UTCPD08-00 BS 870 : 2008	25 mm	0.40 µm
	50 mm	0.60 µm
	75 mm	0.80 µm
	100 mm	0.90 µm
	(>100 – 200) mm	1.4 µm
	(>200 – 300) mm	2.0 µm
	(>300 – 400) mm	2.7 µm
	(>400 – 500) mm	3.6 µm
	(>500 – 600) mm	4.5 µm
	(>600 – 800) mm	5.5 µm
(>800 – 900) mm (>900 – 1000) mm	6.1 µm 6.9 µm	

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9. Caliper Checker (Lab) UTCPD09-00	(0 – 20) mm (0 – 50) mm (0 – 100) mm (0 – 150) mm (0 – 200) mm (0 – 300) mm (0 – 350) mm (0 – 400) mm (0 – 450) mm (0 – 550) mm (0 – 600) mm (0 – 550) mm (0 – 600) mm	0.50 µm 0.60 µm 0.80 µm 1.2 µm 1.5 µm 1.9 µm 2.2 µm 2.6 µm 2.9 µm 3.3 µm 3.6 µm 4.0 µm 4.3 µm
10. Optical Measuring Instruments (Lab/Site) - Optical Comparator - Toolmaker Microscope - Video Measuring System UTCPD10-00 JIS B 7184 : 1999	Linear Accuracy: (0 – 10) mm (0 – 50) mm (0 – 70) mm (0 – 100) mm (0 – 150) mm (0 – 200) mm (0 – 250) mm (0 – 300) mm Magnification: Angular Accuracy: Perpendicularity:	0.50 µm 0.60 µm 0.70 µm 0.80 µm 1.0 µm 1.3 µm 1.7 µm 1.9 µm 0.04% 0.15° 0.50 µm
11. Line Standard (Lab) UTCPD11-01 - Glass Scale  - Steel Rule	(0 – 50) mm (0 – 70) mm (0 – 100) mm (0 – 150) mm (0 – 200) mm (0 – 250) mm (0 – 300) mm  (0 – 150) mm (0 – 300) mm	0.60 0.80 1.0 1.4 1.8 2.2 2.6  2.0 µm 3.3 µm
12. Geometrical Measurement (Lab) UTCPD12-00	Linear (0 – 300) mm Angular Flatness Parallelism	0.60 µm 0.17° 0.30 µm 0.50 µm

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13. Caliper (Lab) (Dial, Vernier, Digimatic) UTCPD13-02 JIS B 7507 : 2016 BS 887 : 2008 ISO 13385-1:2019	(0 – 150) mm (0 – 1000) mm	4.0 µm 10 µm
14. Depth Gauge (Lab) (Dial, Vernier, Digimatic) UTCPD14-00 JIS B 7518 : 2018	Resolution: 0.0005 mm (0 – 12) mm Resolution: 0.01 mm (0 – 600) mm	0.50 µm 10 µm
15. Height Gauge (Lab/Site) UTCPD15-00 JIS B 7517 : 2018 BS 1643 : 2008 (Dial, Vernier)  (Digimatic)	Resolution: 0.01 mm (0 – 150) mm (0 – 600) mm Resolution: 0.001 mm (0 – 100) mm (0 – 200) mm (0 – 300) mm (0 – 400) mm (0 – 500) mm (0 – 600) mm	20 µm 20 µm 2.0 µm 3.0 µm 4.0 µm 6.0 µm 7.0 µm 8.0 µm
16. Thickness Gauge (Lab) (Dial, Digimatic) UTCPD16-00	Resolution: 0.001 mm (0 – 12) mm	1.0 µm
17. Bore Gauge (Lab) (Dial, Digimatic) UTCPD17-00 JIS B 7515:1982	Resolution: 0.001 mm (0 – 60) mm (50 – 290) mm	1.0 µm 2.0 µm
18. Roughness Measuring Instrument (Lab) - Roughness Tester - Roughness Specimen UTCPD19-00	(0.4 – 3.2) µm (0.4 – 3.2) µm	0.065 µm 0.065 µm

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19. Caliper Gauge (Lab) UTCPD21-01	(0 – 70) mm	5.0 µm
20. Coating/Ultrasonic Thickness Gauge (Lab) UTCPD22-00	(0 – 0.05) mm (0 – 1) mm (1 – 2) mm	0.5 µm 1.0 µm 9.0 µm
21. Comparator Stand (Lab) UTCPD23-00	(0 – 300) mm	3.0 µm
22. Straightedge (Lab) UTCPD24-00 BS 5204-2:2017	(0 – 1000) mm	3.0 µm
23. Inside Micrometer (Lab) (2-leg/Holtest) UTCPD26-00	(5 – 50) mm (50 – 100) mm (100 – 125) mm	1.0 µm 2.0 µm 3.0 µm
24. Internal Micrometer (Lab) UTCPD27-00 JIS B 7502:2016 - Micrometer-Head  - Extension Rod	(0 – 125) mm  (0 – 200) mm (200 – 400) mm	4.0 µm  2.0 µm 3.0 µm
25. Depth Micrometer (Lab) UTUPD27-00 JIS B 7544:1994	Resolution: 0.001 mm (0 – 150) mm	3.0 µm
<b><u>B. Mechanical</u></b>		
1. Weighing Balance (Lab/Site) (Analog, Digital) UTCPM01-04	(0 – 80) g (0 – 220) g (0 – 420) g (0 – 2000) g (0 – 3100) g (0 – 20000) g (0 – 61) kg (0 – 150) kg (0 – 250) kg	0.00013 g 0.0004 g 0.002 g 0.003 g 0.12 g 0.40 g 0.007 kg 0.02 kg 0.04 kg

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2. Pressure / Vacuum Gauge (Lab/Site) UTCPM02-01	(0 – 1000) Pa (0 – 10) bar (0 – 40) bar (0 – 700) bar (0 – -1) bar	1.0 Pa 0.004 bar 0.30 bar 0.083 bar 0.005 bar
3. Force Measuring Device (Lab) - Compression/Tension Gauge - Loadcell UTCPM03-01	(0 – 50) N (0 – 1000) N	0.01 N 2.0 N
4. Hand Torque Tools (Lab) UTCPM04-00 ASME B107.300-2021 - Torque Wrench	(0.4 – 1) Nm (1.25 – 6) Nm (6 – 30) Nm (20 – 100) Nm (50 – 250) Nm (300 – 1500) Nm	0.81 % of full scale 0.02 % of full scale 0.06 % of full scale 0.75 % of full scale 0.59 % of full scale 0.34 % of full scale
- Torque Driver	(0.1 – 0.6) Nm (0.5 – 1) Nm (1.25 – 3.0) Nm (2.8 – 14.1) Nm	0.53 % of full scale 0.36 % of full scale 0.19 % of full scale 0.28 % of full scale
ISO 6789-1/2:2017 - Torque Wrench	(4 – 20) Nm (50 – 250) Nm (300 – 1500) Nm	1.6 % of full scale 1.2 % of full scale 0.98 % of full scale
5. Flow Meter (Site) UTCPM05-00	(0 – 50) scfh	1.5 scfh
6. Hardness Tester (Lab/Site) UTCPM06-00 Rockwell	(35 – 100) HRB (20 – 70) HRC	0.70 HRB 0.50 HRC
7. Durometer (Lab) UTCPM07 ISO 868:2003	(0 – 100) Deg	0.20 Deg

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8. Torque Meter / Gauge UTCMP09-00	(0 – 10) kgf.cm	0.01 kgf.cm
9. Standard Weight UTCMP10-01 OIML R111-2004	1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1000 g 2000 g 5000 g 10000 g 20000 g	0.00012 g 0.00012 g 0.00012 g 0.00012 g 0.00012 g 0.00013 g 0.0004 g 0.0006 g 0.004 g 0.004 g 0.004 g 0.50 g 0.50 g 0.50 g
<b><u>C. Temperature</u></b>		
1. Thermocouple Indicator (Lab/Site) Source / Measure UTCPT01-00	Type K (-200 – 0) °C (0 – 1370) °C  Type J (-200 – 1200) °C (0 – 1200) °C  Type T (-200 – 0) °C (0 – 400) °C	1.5 °C 1.0 °C  1.4 °C 0.90 °C  1.6 °C 0.9 °C
2. RTD Indicator (Lab/Site) Source / Measure UTCPT02-00	Source (-200 – 800) °C  Measure, 3-wire (-200 – 800) °C  Measure, 4-wire (-200 – 800) °C	0.39 °C  0.58 °C  0.39 °C

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3. Enclosure (Lab/Site) UTCPT03-00	(0 – 300) °C (0 – 600) °C	2.9 °C 4.0 °C
4. Surface Probe (Lab) UTCPT04-00	25 °C (>25 – 75) °C (>75 – 150) °C (>150 – 300) °C	1.0 °C 1.1 °C 1.4 °C 1.9 °C
<b><u>D. Time/Frequency</u></b>		
1. Timer / Stopwatch (Lab/Site) UTCPM08-01	(1 – 60) s (60 – 1800) s (1800 – 3600) s	0.15 s 0.25 s 0.36 s

## Approved signatory

Mr Ashley Chin - for all scopes

## Note :

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibration results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.