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LABORATORY LOCATION/ CENTRAL OFFICE: 	Microrep Calibration Laboratory, Microrep Precision (M) Sdn Bhd No. 18, Jalan PJS 5/28A Pusat Dagangan P.J. Selatan (PJCC) 46150 Petaling Jaya, Selangor , 46150, SELANGOR MALAYSIA
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF CALIBRATION:	DIMENSIONAL FORCE & TORQUE HARDNESS MASS PRESSURE TEMPERATURE

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment 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 test results and calibrations. 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 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION	Microrep Calibration Laboratory, Microrep Precision (M) Sdn Bhd No. 18, Jalan PJS 5/28A Pusat Dagangan P.J. Selatan (PJCC) 46150 Petaling Jaya, Selangor , 46150, Selangor
FIELD(S) OF CALIBRATION :	DIMENSIONAL, FORCE, HARDNESS, MASS, PRESSURE, HEAT & TEMPERATURE

SCOPE OF CALIBRATION : DIMENSIONAL

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
(i) 0.01 Mm/0.005 Mm Graduation (ii) 0.001 Mm/0.002 Mm Graduation	up to 50mm up to 5mm	2.4 μ m 0.8 μ m	B 7503: 2011 Dial Gauge by using Dial Indicator Tester / Universal Horizontal
	up to 50mm up to 5mm	None	Metroscope / Universal Dial Gauge Checker
(i) External Dimension/ Diameter Measurement	Width/thickness: up to 100 mm Sphere/ball diameter: up to 60mm Cylindrical diameter: up to 120mm	(0.4+0.014L) μ m Where L= nominal Diameter in mm	
(ii) Internal Diameter Measurement	Internal diameter: 1 to 90mm	(0.6+0.017L) μ m Where L= nominal diameter in mm	
	Internal diameter: 1 to 90mm		
(ii) Step Dimension	0 to 30 mm (or inches equivalent)	2.3 μ m	
3-point Internal Micrometer (i) Deviation Of Reading (ii) Repeatability	From 3.5 to 6 mm Over 6 to 20 mm Over 20 to 40 mm Over 40 to 63 mm Over 63 to 88 mm Over 88 to 100 mm (or inches equivalent)	1.5 μ m 1.5 μ m 2.2 μ m 3.0 μ m 3.1 μ m 3.2 μ m	With reference to DIN 863-4: 1999 Micrometers Part 4: Internal Micrometers by using Ring Gauges
Bevel Protractor	Angle Measurement:	None	With reference to
	0 to 360°	5 min	VDI/WDE/DGQ 2618
	Straightness & Parallelism of Blade: up to 300 mm	None	Part 7.2 by using Angle Blocks and surface plate
	0° to 360°	5)	Calibrated using
Caliper Checker	up to 600mm	(0.6+0.004L) μ m Where = nominal length in mm	With reference to Microrep Test Method for Caliper Checker by using Gauge Block
	Up to 300 mm	External measurement =	Calibrated by
	Up to 300 mm	μ m	using Gauge
	Up to 300 mm	Internal measurement =	Block with
	Up to 300 mm	(2.8+0.003L) μ m	references to
	Up to 300 mm	Where = nominal length	HLB Test
	Up to 300 mm	inmm	Method HLBTM-
	Up to 300 mm	None	10: 2011 for
	Up to 300 mm	None	Caliper Checker

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	0 mm to 600 mm	(0.9+0.8L) μ m	Calibration by laser
	0 mm to 600 mm	Lis in unit meter	measurement system
Coating Thickness Measuring Instrument - Deviation Of Reading - Repeatability	up to 100 μ m Over 100 to 500 μ m Over 500 to 2000 μ m	1.4 μ m 1.5 μ m 2.1 μ m	With reference to AS 3894.3 — 2002 by using Film Thickness Standard
Cylinder Gauge/ Bore Gage	up to 160mm (or inches equivalent)	1.5 μ m	With reference to JIS B7515: 1982 Cylinder Gauges by using Dial Indicator Tester/
	up to 160mm (or inches equivalent)	None	Universal Horizontal
	up to 160mm (or inches equivalent)	None	Metroscope
Depth Caliper/ Depth Gauge	up to 600mm (or inches equivalent)	(8.3+0.011L) μ m Where = nominal length in mm	With reference to JIS B 7518: 1993 Depth Gauge by using Gauge Blocks
Depth Micrometer	up to 150mm (or inches equivalent)	(0.92+0.01L) μ m Where = nominal length inmm	With reference to JIS B 7544: 1994 Depth Micrometer by using Gauge Blocks
	extension rod up to 150 mm	None	Calibrated using Gauge Block according to
	1 inch traverse with extension rod up to 6 inch	0.0001 inch	BS 6468:2008
Dial Indicator	up to 700mm (or inches equivalent)	None	With reference to JIS
	0mm to 10 mm	0.004 mm	Calibrated by
	Up to 25 mm	0.004 mm	Calibrated by
	Up to 25 mm	None	using Calibration
	Up to 25 mm	None	Tester with
	Up to 25 mm	None	reference to
	Up to 25 mm	None	JMAS 2001:
	Up to 25 mm	None	1998 (except
	Up to 25 mm	None	No.5) Miniature
	Up to 25 mm	None	and Long Stroke
	Up to 25 mm	None	Dial Gauge
Dial Indicator (long Stroke)	up to 20mm 20 to 30mm 30 to 50mm	1.3 μ m 1.3 μ m 1.6 μ m	With reference to Miniature and Long Stroke Dial Indicators, JMAS 2001: 1998 by using Universal Horizontal

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	up to 20mm 20 to 30mm 30 to 50mm	None	Metroscope/ Universal Dial Gauge Checker
Dial Indicator/ Dial Test Indicator (for Linear Measurements)	up to 50.8 mm (or inches size equivalent)	(0.7+0.02L) μ m Where = nominal length in mm	With reference to ASME B89.1.10M:2001 Dial Indicator by using Universal Horizontal
	up to 50.8 mm (or inches size equivalent)	None	Metroscope/ Universal Dial Gauge Checker
Dial Test Indicator	up to 1.6 mm	None	With reference to JIS B 7533: 2015 Dial Test
	Graduation: 0.01 mm/0.005 mm	2.5 μ m	Indicator by using Dial Indicator Tester/
	Graduation: 0.01 mm/0.005 mm	None	Universal Horizontal
	Graduation: 0.001 mm/0.002 mm	1.1 μ m	Metroscope/ Universal Dial Gauge Checker
	Up to 0.28 mm 0.28 mm to 0.6 mm 0.6 mm to 1.5 mm	1.5 μ m 1.8 μ m 5.0 μ m	Calibrated by using gauge block and dial gauge tester with reference to JIS B 7533:2015
	0mm to 1.5 mm	0.004 mm	Calibrated by
	0mm	None	Calibrated using gauge tester as standard with
	0mm	None	reference to JIS
	0mm	None	B7533:1990
	Up to 3 mm	(0.3 + 0.06 L) μ m	Calibration by laser
	Up to 3 mm	None	measurement system
	Up to 3 mm	is measurement length	with reference to
	Up to 3 mm	in unit meter	JIS B 7533
	0mm to 1.6mm	0.7 μ m	Calibrated using i-
	0mm to 1.6mm	None	Checker with
	0mm to 1.6mm	None	reference to JIS B
	0mm to 1.6mm	None	7533:2015
	0mm to 0.28 mm 0.28 mm to 1.0 mm	10 μ m	Calibrate using Calibration Tester. with reference to JIS B 7533: 2015

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	Up to 1mm	0.7 μ m	Calibrated by using i-checker as standards based on JIS B 7533:2015
	Up to 0.3 mm 0.3 mm to 0.6 mm 0.6 mm to 2.0 mm	1.4 μ m 1.5 μ m	Calibrate by using micrometer head as standards according to JIS B7533:2015
	Up to 0.3 mm 0.3 mm to 0.6 mm 0.6 mm to 2.0 mm	None	Calibrate by using
Dial/digital Thickness Gauge	up to 25mm Graduation:0.01 mm Graduation:0.001 mm (or inches equivalent)	6.0 μ m 1.3 μ m	With reference to Microrep Test Method for Dial Thickness Gauge by using Gauge Block
Digital Indicator	0 to 25 mm 25 to 50 mm 50 to 100 mm (or inches equivalent)	1.0 μ m 1.2 μ m 1.8 μ m	With reference to Microrep Test Method for Electronic (Digital) Indicator by using Horizontal
	0 to 25 mm 25 to 50 mm 50 to 100 mm (or inches equivalent)	None	Metroscope/ Universal Dial Gauge Checker
	Up to 50 mm	2.0 μ m	Calibrated by using gauge block with reference to
	Up to 50 mm	None	JIS B 7503:2011
	0mm to 25 mm	1.0 μ m	Calibrated using
	0mm to 50mm	0.7 μ m	Calibrated using i-
	0mm to 50mm	None	Checker and gauge
	0mm to 50mm	None	block with reference to
	0mm to 50mm	None	ASME B 89.1.10M-2001
	Up to 50 mm	None	gauge block
	Up to 50 mm	None	JIS B7536:1982
	0 mm to 50 mm 0 inch to 2 inch	2.3 μ m 0.0002 inch	Calibrated using Gauge Block according to in house calibration procedure LCP 01440
Durometer/rubber	None	None	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Electronic Comparator - Plunge Type - Lever Type	up to + 5mm	(0.31+0.001L) μ m Where = nominal length in mm	With reference to JIS B 7536: 1982 Electronic Comparator by using Universal Dial Gauge Checker
External Micrometer	up to 50 mm travel with frame up to 300 mm	(0.81+0.012L) μ m	With reference to BS EN ISO 3611: 2010 by using Gauge Blocks
	Over 300 to up to 600 mm	(0.47+0.013L) μ m Where = nominal	
	(or inches equivalent)	length in mm	
	25 mm traverse	(0.81+0.012L) μ m	Calibrated by
	25 mm travel range	0.001 mm	Calibrate using
	25 mm travel range	None	gauge blocks as
	Frame size	None	standards based on
	Up to 100 mm	0.002 mm	JIS B 7502:2016
	100 mm to 150 mm	0.003 mm	Full surface e
	150 mm to 200 mm	0.004 mm	contact error
	200 mm to 250 mm	0.005 mm	Flatness e
	250 mm to 300 mm	0.006 mm	Parallelism e
	325 mm to 350 mm	0.007 mm	
	350 mm to 400 mm	0.008 mm	
	400 mm to 500 mm	0.010 mm	Note: Standard rod
	400 mm to 500 mm	None	to be provided if the
	400 mm to 500 mm	None	measurement range
	400 mm to 500 mm	None	is > 25 mm
	25 mm 25 mm spindle travel for 50 mm to 100 mm 100 mm to 175 mm frame	1.0 μ m 1.5 μ m 2.0 μ m	Measurement of instrument error, and parallelism and flatness of measuring faces reference to JIS B7502:2016. Setting rod must be provided by customer.
	Up to 100 mm 100 mm to 275 mm	None	Calibrated by using gauge block as standards based on JIS B 7502:2016
	0~ 25mm	0.002 mm	Gauge Block reference to ISO
	100 mm to 150 mm frame (25 mm traverse)	None	Calibrated using Gauge Block according to
	100 mm to 150 mm frame (25 mm traverse)	None	ISO 3611:2010

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
	Up to 1 inch	0.0003 inch	
	1 inch to 6 inch frame (1 inch traverse)	0.0003 inch	
	Up to 50 mm	0.003 mm	
	50 mm to 150 mm	0.004 mm	Calibrated using Gauge
Feeler Gauge (thickness Gauge)	0 to 3mm (or inches equivalent)	0.9 μ m	With reference to JIS B 7524: 2008 Feeler Gauge by using Electronic Length Measuring and Gauge Blocks
Film Thickness Standard (thickness Foils)	up to 5mm (or inches equivalent)	(0.4+0.2L) μ m Where = nominal length in mm	With reference to Microrep Test Method for Film Thickness Standard (Thickness Foil) by using Universal Horizontal
	up to 5mm (or inches equivalent)	None	Metroscope
Force Gauges (push-pull Gauge, Rod Type Gauge And Dial Tension Gauge)	Up to 500 N	0.5 % of full scale	With references to JIS B 7721: 2002 by using dead/standard weight (Calibration in tension mode only)
Gauge Block (metric)	0.5 to 10 mm 10 to 25mm 25 to 50 mm 50 to 75 mm 75 to 100 mm	0.10 μ m 0.12 μ m 0.14 μ m 0.17 μ m 0.21 μ m	With reference to VDI/VDE/DGQ 2618 — Part 1: 2004 Test instruction for gauge blocks by using Gauge Block Comparator & Reference Gauge Blocks
Hand Torque Tools	up to 10 N.m above 10 to 20 N.m above 20 to 50 N.m above 50 to 100 N.m	0.03 N.m 0.05 N.m 0.15 N.m 0.35 N.m	With reference to ISO 6789-1 & 2: 2017 by using torque meter
	above 100 to 140 N.m	0.8 N.m	
	above 140 to 200 N.m	1.5N.m	
	0.06 N.m to	1.6% of Reading	
	0.3 N.m	1.5% of Reading	Calibration using
	6 N.m to	0.9% of Reading	reference torque
	20 N.m to	0.4% of Reading	testers with
	100 N.m to	0.4% of Reading	reference to ISO
	500 N.m to	0.9% of Reading	6789-2:2017

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	1000 N.m to to 2100 N.m	0.7% of Reading	
	2N.m to	1.9 % of rdg. 1.1 % of rdg 0.8 % of rdg 0.4 % of rdg 0.3 % of rdg	Calibrated by using torque calibrator based on ISO 6789-2:2017
	0.3 N.m	3.0% of reading	Calibration using torque transducers
	2.N.m to 1500 N.m	1.0%	
	2.N.m to 1500 N.m	None	2. The CMC quoted is the relative expanded
	2.N.m to 1500 N.m	None	uncertainty at each
	2.N.m to 1500 N.m	None	calibration point
Hardness Tester (up To 8.500 Mn Spring Force)	0-100	0.5	With reference to JIS K 6253: 2006 (clause 6.3.7) by using balance
Hex Plug Gauge	up to 25.4mm (or inches equivalent)	0.9 um	With reference to Microrep Test Method for Hex Gage by using Universal Horizontal
	up to 25.4mm (or inches equivalent)	None	Metroscope
Hydraulic	0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 15000 psi	0.7 psi 3 psi 6 psi 10 psi	
	0 psi to 1000 psi 1000 psi to 10000 psi 10000 psi to 15000 psi	0.3 psi 3.3 psi 3.9 psi	
	0 psi to 1000 psi 1000 psi to 10000 psi 10000 psi to 15000 psi	0.3 psi 3.3 psi 3.9 psi	
	0 bar to 350 bar 350 bar to 700 bar	0.09 bar 0.16 bar	
	0 bar to 350 bar 350 bar to 700 bar	0.09 bar 0.16 bar	
	0 psi to 14500 psi	4 psi	
	14500 psi to 36000 psi	14 psi	
	0 to 10000 psi	2.3 psi	based on
	0 to 10000 psi	None	BS EN 837-1:1998,
	0 to 10000 psi	None	BS EN 837-2:1998 &

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	0 to 10000 psi	None	BS EN 837-3:1998
	20 bar to 100 bar	0.4 bar	Pressure Meter
	0 bar to 700 bar 0 bar to 1000 bar	0.14 bar 0.016 % of reading	Calibrated using deadweight tester or by comparison method according to MSA Test Method 1 and 2 - 2022
	0 bar to 700 bar 0 bar to 1000 bar	None	
	0 bar to 700 bar	0.59 bar	
	300 bar to 700 bar	0.1 bar	
	700 bar to 2500 bar	0.5 bar	
	300 bar to 700 bar	0.1 bar	
	700 bar to 2500 bar	0.46 bar	
Indicator Calibration Tester	up to 50 mm	(0.6+0.004L) μ m Where = nominal length in mm	With reference to Microrep Test Method for indicator Calibration Tester by using Electronic Length Measuring Machine and Gauge Blocks
Inside Micrometer- (caliper/tubular/solid Rod Type)	25 mm travel with frame/Single Rod (or Extension Rod) size: up to 500 mm (or inches equivalent)	(0.6+0.013L) μ m Where = nominal length in mm	With reference to JIS B 7502: 1994 Micrometer Caliper by using Gauge Blocks
Lever Gauge (quickest) For External	Up to 200 mm	None	With reference to VDI/VDE/DEQ 2618
Lever Gauge (quickest) For Internal	5 to 150 mm	None	With reference to VDI/VDE/DEQ 2618
Master Setting Disc/ Master Plug (i) Diameter Only	0 to 30 mm 30 to 60 mm 60 to 100 mm (or inches equivalent)	0.8 μ m 1.3 μ m 1.8 μ m	With reference to ASME B89.1.5:1998 Measurement of Plain External Diameters for use as Master Discs of
	0 to 30 mm 30 to 60 mm 60 to 100 mm (or inches equivalent)	None	Cylindrical Plug Gages by using Universal Horizontal Microscope
Measurement (external Caliper Gauge)	Up to 200 mm	None	Part 12.1-2005 by using Gauge Blocks
	5 to 150 mm	None	Part 13.1-2005 by using Gauge Blocks

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Metal/steel Ruler	up to 1000mm (or inches equivalent)	0.13 mm	With reference to JIS B 7516: 2005 Metal Ruler by using Measuring Tape Calibrator
Microindicator/ Mechanical Comparator	Up to 0.05 mm Over 0.05 to 0.1 mm Over 0.1 to 0.26 mm Over 0.26 to 0.5 mm Over 0.5 to 5.0 mm	0.3 μ m 0.4 μ m 0.5 μ m 1.6 μ m 6.0 μ m	With reference to DIN 879-1 (1999) Dial Indicator by using Universal Dial Gauge Checker
Parts/pieces With Plane Parallel, Spherical And Cylindrical Measuring Surface	up to 25.4mm (or inches equivalent)	None	By using Universal Horizontal Metroscope
Plain Plug Gauge/pin Gauge (*) (i) Diameter Only	up to 50mm (or inches equivalent)	(0.8+0.012L) μ m Where = nominal length in mm	With reference to AS 1997: 1977 Plain Limit Gauge by using Electronic Length Measuring Machine and Gauge Block
	up to 120mm (or inches equivalent)	(0.4+0.014L) μ m Where = nominal diameter in mm	With reference to AS 1997: 1977 Plain Limit Gauge by using Universal Horizontal Metroscope
Plain Ring Gauge (i) Diameter Only	1mm to 90mm (or inches equivalent)	(0.6+0.017L) μ m Where = nominal diameter in mm	With reference to JIS B 7420: 1997 Plain Limit Gauge by using Universal Horizontal
	1mm to 90mm (or inches equivalent)	None	Metroscope
Plain Taper Plug Gauge (i) Cone Diameter	0 to 30 mm 30 to 50 mm 50 to 100 mm (or inches equivalent)	1.6 μ m 2.0 μ m 3.1 μ m	With reference to JIS B 3301: 1989 by using Universal Horizontal Metroscope and Gauge Blocks
Pneumatic Hydraulic	0 psi to 30 psi 30 psi to 300 psi 0 psi to 1000 psi 1000 to 5000 psi 5000 psi to 10000 psi 10000 psi to 15000 psi	0.03 psi 0.2 psi 0.7 psi 3 psi 6 psi 10 psi	MCL Procedure: CMP- P-002 Based on: ASME B40.1 Gauges: Pressure Indicating Dial Type (as per clause 6.2.4.1, 6.2.4.2 and 6.2.4.3)

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Precision Linear Height Gauge	up to 700mm (or inches equivalent)	(1.5+0.001L) μ m Where = nominal length in mm	With reference to JIS B 7517: 1983 Vernier, Dial and Digital Height Gauge by using Gauge Blocks
	up to 700mm	(1.5+0.001L) μ m Where = nominal length in mm	With reference to JIS B 7517: 1983 Vernier, Dial and Digital Height Gauge by using Gauge Blocks
Precision Surface Plate (flatness Of Local Area Only)	up to 2600 x 1600mm (length x width)	2.2 μ m	With reference to JIS B 7513: 1992 by using Repeat Reading Gauge
Pressure Gaug	None	None	
	None	None	MCL Procedure: CMP-
Pressure Measuring Devices	None	None	MCL Procedure: CMP- P-001 Based on:
	None	None	
	None	None	
Pressure Recorder	-13 psi to 0 psi 0 psi to 30 psi 30 psi to 300 psi 0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 15000 psi	None	
Profile Projector - Individual Linear Axis Only	up to 200mm Over 200 to 300 mm	4.5 μ m 7.0 μ m	With reference to JIS B 7184: 1999 Profile Projector by using Standard Glass Scale
Pt 50, Pt 100, Pt 200, Pt 400, Pt 1000	From -25 to 150°C above 150 to 400°C above 400 to 660°C	0.25°C 0.30°C 0.76°C	
	From -25 to 150°C above 150 to 400°C above 400 to 660°C	0.25°C 0.30°C 0.76°C	
	From -25 to 150°C above 150 to 400°C above 400 to 660°C	0.25°C 0.30°C 0.76°C	
Radius Gage (radius Only)	0.1 to 200 mm	(7.5+0.038L) μ m	With reference to MTI test method CLTM-2

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	0.1 to 200 mm	None	(1994) by using Profile Projector/Vision Measuring Machine
Resistance Temperature Detecto (rtd)	2000°C to 2315°C	None	Thermometer (PRT) and Temperature Block Calibrator
	None	None	Thermometer (PRT) and Temperature Block Calibrator
Resistance Temperature Detecto (rtd) Pt 50, Pt 100, Pt 200, Pt 400, Pt 1000	From -25 to 150°C above 150 to 400°C above 400 to 660°C	0.25°C 0.30°C 0.76°C	Thermometer (PRT) and Temperature Block Calibrator
Resistance Temperature Detecto Rtd)	None	None	Thermometer (PRT) and Temperature Block Calibrator
Screw/thread Caliper Gauge -" Parallel (i) Pitch Diameter	Metric: M3 to M100 (or inches equivalent)	(3.2+0.002L) μ m Where = nominal length in mm	With reference to AS 2710: 1984 Screw Gauges — Verification by using Gauge Blocks/ Screw Check
	Metric: M3 to M100 (or inches equivalent)	None	Plugs
Screw/thread Plug Gauge (*) - Parallel (i) Major Diameter (ii) Pitch Diameter	up to 50mm (or inches equivalent)	1.9 μ m	With reference to AS 2710: 1984 Screw Gauge — Verification by using Floating Carriage Diameter Measuring Machine
	up to 30 mm 30 to 60 mm 60 to 100 mm (or inches equivalent)	1.7 μ m 2.0 μ m 2.3 μ m	With reference to JIS B 0261: 2004 Parallel screw thread gauges — Measuring method by using Universal Horizontal Metroscope
Screw/thread Plug Gauge -taper (i) Major Diameter (ii) Pitch Diameter (iii) Step Limits	up to 50mm (or inches equivalent)	2.9 μ m	With reference to AS 2710: 1984 Screw Gauge — Verification by using Floating Carriage Diameter Measuring Machine
	0 to 30 mm 30 to 60 mm 60 to 100 mm (or inches equivalent)	2.8 μ m 3.0 μ m 3.2 μ m	With reference to JIS B 0261: 2004 Parallel screw thread gauges — Measuring method by using Universal Horizontal Metroscope

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Screw/thread Ring Gauge - Parallel (i) Minor Diameter (ii) Pitch Diameter	Metric: M3 to M40 (or inches equivalent)	(1.9+0.01L) μ m Where = nominal length inmm	With reference to AS 2710: 1984 Screw Gauges — Verification by using Universal Horizontal Metroscope
	up to 64mm (or 2 inches)	(3.7+0.02L) μ m Where = nominal diameter in mm	With reference to JIS B 0261: 2004 Parallel screw thread gauges — Measuring method by using Screw Check Plugs
Snap Gauge /width Gauge/gap Gauge	3 to 100mm (or inches equivalent)	(1.1+0.013L) μ m Where = nominal length in mm	With reference to VDI/VDE/DGQ 2618 Part 4.7:2005 by using Universal Horizontal
	3 to 100mm (or inches equivalent)	None	Metroscope/ Gauge Blocks
Standard Bar / Setting Rod	up to 600mm (or inches equivalent)	(0.36+0.013L) μ m Where = nominal length inmm	With reference to Microrep Test Method for Standard Bar/
	up to 600mm (or inches equivalent)	None	Setting Rod by using Mu-checker and
	up to 600mm (or inches equivalent)	None	Gauge Blocks
Standard Weight/dead Weight	10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1g 29 59 10g 20g 50g 100g 200 g 500 g 1kg 2kg 5kg 10 kg 20 kg	0.1 mg 0.1 mg 0.1 mg 0.1 mg 0.1 mg 0.1 mg 0.1 mg 0.1 mg 0.2 mg 0.2 mg 0.2 mg 0.2 mg 0.3 mg 0.5 mg 2mg 20 mg 40 mg 200 mg 200 mg	MCL Procedure: CMP- M-002 Based on: OIML R 111- 1: 2004 (E) Part 1; Annex C
Steel Tape Measures/ Measuring Tapes	up to6m Over 6 to 15m Over 15 to 26m Over 26 to 43 m Over 43 to 65 m	(0.10+0.038L) mm (0.21+0.020L) mm (0.29+0.014L) mm (0.37+0.011L) mm (0.45+0.009L) mm Where in m	With reference to JIS B 7512: 2005 by using Measuring Tape Calibrator

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature Indicator/recorder/ Calibrator Or Simulator - Electrical Simulation Resistance Temperatur Detector (rtd) Pt 50, Pt 100, Pt 200, Pt 400, Pt 500 & Pt 1000	-200 °C to 200 ° 200°C to 600°C 600°C to 850°C	0.2°C 0.3°C 0.4°C	MCL Procedure: CMP- T-001 Base on: EURAMET/c-11/v.01: July 2007 — Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement
	-200 °C to 200 °C 200°C to 600°C 600°C to 850°C	0.2°C 0.3°C 0.4°C	MCL Procedure: CMP- T-001 Base on: EURAMET/c-11/v.01: July 2007 — Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement
Temperature Sensor With Indicator	2000°C to 2315°C	None	By comparison method using Platinum Resistance
	2000°C to 2315°C	None	By comparison method using Platinum Resistance
	-80 °C to 50 °C 50 °C to 250 °C	0.07 °C 0.17 °C	Comparison with Standard
	250 °C to 400 °C	0.29 °C	Resistance
	250 °C to 400 °C	None	Thermometer in
	250 °C to 400 °C	None	calibration bath
	250 °C to 400 °C	None	and heat block, humidity chamber
	400 °C to 700 °C 700 °C to 1100 °C	2.0°C	Comparison with Standard
	400 °C to 700 °C 700 °C to 1100 °C	None	Thermocouple in calibration heat
	400 °C to 700 °C 700 °C to 1100 °C	None	block
	-30 °C to 50 °C 50 °C to 250 °C	0.07 °C 0.19 °C	Comparison with Standard
	250 °C to 400 °C	0.30 °C	Resistance
	250 °C to 400 °C	None	Thermometer in
	250 °C to 400 °C	None	calibration bath

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
	250 °C to 400 °C	None	and heat block
	400 °C to 700 °C 700 °C to 1100 °C	2.1°C 2:7°C	Comparison with Standard
	400 °C to 700 °C 700 °C to 1100 °C	None	Thermocouple in calibration heat
	400 °C to 700 °C 700 °C to 1100 °C	None	block
	-35 °C to 165 °C	0.1°C	Comparison with Pt100 in Temperature block calibrator
	-30 °C to 20°C 30 °C to 100 °C 100 °C to 300 °C 300 °C to 400 °C	0.91°C 0.48 °C 0.76 °C 1.6°C	Comparison with PRT sensor in Liquid bath and Dry Block
	-40 °C to 0°C 0 °C to 50°C 50 °C to 70 °C	1.0°C 0.49 °C 1.0°C	
	30 °C to 100 °C 100 °C to 300 °C 300 °C to 400 °C	0.48 °C 0.76 °C 1.6°C	Comparison with Pt 100 and thermocouple in temperature block calibrator
	-20 °C to 150 °C 150 °C to 600 °C 600 °C to 800 °C	1.0°C 3.1°C 4.6°C	Calibration using RTD Pt-100 probe and Thermocouple Type R
	800 °C to 1100 °C	None	
	-30 °C to 300 °C 300 °C to 640 °C	1.8°C	Comparison with Pt100 in liquid bath and Dry
	-30 °C to 30 °C 30 °C to 650 °C	0.1 °C 0.3 °C	Comparison with standard resistance
	651 °C to 1200 °C	2.7 °C	thermometer /
	651 °C to 1200 °C	None	thermocouple in block temperature bath
	200 °C to 400 °C	None	
	200 °C to 400 °C	None	
	200 ?C to 400 ?C	None	
	200 ?C to 400 ?C	None	
	-30 °C to 0 °C 0 °C to 200 °C 200 °C to 400 °C 400 °C to 600 °C	0.09 °C 0.083 °C 0.33 °C 0.75 °C	temperature block calibrator
	600 °C to 1200 °C	2.7 °C	
	30 °C to 200 °C 200 °C to 400 °C	0.2 °C 0.41 °C	Comparison with reference Pt100 in temperature block calibrator

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature Sensor Without Indicator	None	None	By comparison method using Platinum Resistance
	None	None	By comparison method using Platinum Resistance
Thermocouple	From -25 to 150°C above 150 to 400°C above 400 to 660°C	None	
	From -25 to 150°C above 150 to 400°C above 400 to 660°C	None	
	From -25 to 150°C above 150 to 400°C above 400 to 660°C	None	
	None	None	
	-200°C to -100°C	0.29°C	
	0°C 30 °C to 200 °C 200 °C to 400 °C	0.2°C 0.6 °C 0.7°C	Comparison with Pt100 reference in liquid bath and temperature block calibrator
	0°C 30 °C to 200 °C 200 °C to 400 °C	0.2°C 0.6 °C 0.7°C	Comparison with Pt100 reference in liquid bath and temperature block calibrator
	0°C 30 °C to 200 °C 200 °C to 400 °C	0.2°C 0.6 °C 0.7°C	Comparison with Pt100 reference in liquid bath and temperature block calibrator
	0°C 30 °C to 200 °C 200 °C to 400 °C	0.2°C 0.6 °C 0.7°C	Comparison with Pt100 reference in liquid bath and temperature block calibrator
	0°C 30 °C to 200 °C 200 °C to 400 °C	0.2°C 0.6 °C 0.7°C	Comparison with Pt100 reference in liquid bath and temperature block calibrator
Thermocouple (cont.)	None	None	MCL Procedure: CMP-
	None	None	MCL Procedure: CMP-T-001 Base on

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Thermocouple Type B Type R Type S Type E Type J Type K Type N Type T	200°C to 400°C 400° to 1820°C -50°C to 0°C 0°C to 100°C 100°C to 1768°C 50°C to 0°C 0°C to 1768°C - 270°C to 200°C 200°C to 1000°C -210°C to 1200°C -270°C to -200°C -200°C to 1000°C 1000°C to 1372°C -270°C to -200°C -200°C to 1300°C -270°C to -200°C -200°C to 100°C 100°C to 400°C	2.1°C 1.1°C 1.1°C 0.9°C 0.7°C 1.1°C 0.8°C 0.4°C 0.4°C 0.4°C 0.4°C 0.4°C 0.5°C 0.4°C 0.5°C 0.4°C 0.4°C 0.4°C	MCL Procedure: CMP- T-001 Base on: EURAMET/c-11/v.01: July 2007 — Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Thermocouple Type B Type R Type S Type E Type J Type K Type N Type T Type U Type Type C	200°C to 400°C 400° to 1820°C -50°C to 0°C 0°C to 100°C 100°C to 1768°C 50°C to 0°C 0°C to 1768°C - 270°C to 200°C 200°C to 1000°C -210°C to 1200°C -270°C to -200°C -200°C to 1000°C 1000°C to 1372°C -270°C to -200°C -200°C to 1300°C -270°C to -200°C -200°C to 100°C 100°C to 400°C -200°C to -100°C -100°C to 600°C -200°C to 900°C 0°C to 1000°C 1000°C to 2000°C 2000°C to 2315°C 2.1°C 0.9°C 0.7°C 0.8°C 0.4°C 0.4°C 0.4°C 0.4°C 0.5°C 0.4°C 0.4°C 0.4°C 0.5°C 0.9°C 1.3°C		MCL Procedure: CMP- T-001 Base on: EURAMET/c-11/v.01: July 2007 — Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement
Thermocouple Type J,	From -25 to 0°C	1.3°C 1.4°C	
	above 0 to 300°C		
	above 300 to 400°C	1.5°C	
	above 400 to 500°C	1.8°C	
	above 500 to 660°C	2.2°C	
Thread Measuring Wires (i) Diameter Only	up to 6.5mm (or inches equivalent)	0.5 μ m	With reference to ASME B89.1.17:2001 Measurement of Thread Measuring Wires by using Universal Horizontal
	up to 6.5mm (or inches equivalent)	None	Metroscope
Type D	0°C to 1000°C 1000°C to 2000°C	0.5°C 0.9°C	July 2007 — Guidelines on the Calibration of

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
	2000°C to 2315°C	1.3°C	Temperature Indicators and
	2000°C to 2315°C	None	Simulators by
	2000°C to 2315°C	None	Electrical Simulation
	0°C to 1000°C	0.5°C 0.9°C	and Measurement
	1000°C to 2000°C		
Type G	2000°C to 2315°C	1.3°C	
	100°C to 2315°C	None	T-001 Base on: EURAMET/c-11/v.01:
Type J, K,n,e	100°C to 2315°C	1.1°C	
	From -25 to 0°C	1.3°C	
	above 0 to 300°C	1.4°C	
	above 300 to 400°C	1.5°C	
	above 400 to 500°C	1.8°C	
	above 500 to 660°C	2.2°C	
	From -25 to 0°C	1.3°C	
	above 0 to 300°C	1.4°C	
	above 300 to 400°C	1.5°C	
	above 400 to 500°C	1.8°C	
	above 500 to 660°C	2.2°C	
	From -25 to 0°C	1.3°C 1.4°C	
	above 0 to 300°C		
	above 300 to 400°C	1.5°C	
	above 400 to 500°C	1.8°C	
	above 500 to 660°C	2.2°C	
Type R, S	From -25 to 660°C	1.3°C	
	From -25 to 660°C	1.3°C	
	From -25 to 660°C	1.3°C	
	From -25 to 660°C	1.3°C	
Type T	From -25 to 0°C	0.6°C	
	above 0 to 100°C	0.9°C	
	above 100 to 200°C	1.1°C	
	above 200 to 300°C	1.3°C	
	above 300 to 400°C	1.5°C	
	From -25 to 0°C	0.6°C	
	above 0 to 100°C	0.9°C	
	above 100 to 200°C	1.1°C	
	above 200 to 300°C	1.3°C	
	above 300 to 400°C	1.5°C	
	From -25 to 0°C	0.6°C 0.9°C	
	above 0 to 100°C		
	above 100 to 200°C	1.1°C	
	above 200 to 300°C	1.3°C	
	above 300 to 400°C	1.5°C	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
	From -25 to 0°C	0.6°C 0.9°C	
	above 0 to 100°C		
	above 100 to 200°C	1.1°C	
	above 200 to 300°C	1.3°C	
	above 300 to 400°C	1.5°C	
	-250 °C to 400 °C	0.40 °C	
	-250 °C to 400 °C	0.40 °C	
	-100 °C to 390 °C	1.0°C	electrical simulation using temperature
	-100 °C to 390 °C	1.0°C	electrical simulation using temperature
	-250 °C to 400 °C	0.7 °C	
	-250 °C to 400 °C	None	
	-250 °C to 400 °C	1.2°C	
	-250 °C to 400 °C	2.0°C	
	-200 °C to -100 °C -100 °C to 400 °C	0.2 °C 0.1 °C	By electrical measurement using multimeter
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-250 °C to 400 °C	1.1°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	-250 °C to 400 °C	2.0 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-250 °C to 400 °C	1.3°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Type Type C	-200°C to 900°C 0°C to 1000°C 1000°C to 2000°C 2000°C to 2315°C	0.4°C 0.5°C 0.9°C 1.3°C	Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement
	-200°C to 900°C 0°C to 1000°C 1000°C to 2000°C 2000°C to 2315°C	None	
Type U	-200°C to -100°C -100°C to 600°C	0.4°C 0.4°C	EURAMET/c-11/v.01 July 2007 — Guidelines on the
Universal Horizontal Metroscope	up to 60mm	0.2 μ m	By using Gauge Block
V-anvil Micrometer	up to 100mm	(0.96+0.018L) μ m Where = nominal length in mm	With reference to Microrep Test Method for V-Anvil Micrometer by using Master Disc/Setting Master
Vacuum Pneumatic	-13.5 psi to 0 psi 0 psi to 30 psi 30 psi to 300 psi	0.03 psi 0.03 psi 0.2 psi	ASME B40.1 Gauges: Pressure Indicating Dial Type (as per clause 6.2.4.1 & 6.2.4.2 and 6.2.4.3)
	Up to bar 0 mbar to 70 mbar 70 mbar to 700 mbar 0 bar (abs) to 7 bar (abs) 0.7 bar to 6 bar 6 bar to 30 bar	0.002 bar 0.016 mbar 0.14 mbar 0.0011 bar (abs) 0.004 bar 0.008 bar	Calibrated using test gauge as standard according to AS 1349 (1986) and DKD-R-6-1 (edition 01/2003)
	Up to -0.95 bar 0 mbar to 70 mbar 70 mbar to 700 mbar 0 bar (abs) to 7 bar (abs) 0.7 bar to 6 bar 6 bar to 30 bar	0.002 bar 0.016 mbar 0.14 mbar 0.0011 bar (abs) 0.004 bar 0.008 bar	Calibrated using test gauge as standard according to AS 1349 (1986) and DKD-R-6-1 (edition 01/2003)
Vacuum Pneumatic Hydraulic	-13 psi to 0 psi 0 psi to 30 psi 30 psi to 300 psi 0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 15000 psi	0.03 psi 0.03 psi 0.2 psi 0.7 psi 3 psi 6 psi 10 psi	P-001 Based on: ASME B40.1 Gauges: Pressure Indicating Dial Type (as per clause 6.2.4.1, 6.2.4.2 and 6.2.4.3)

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Vernier/dial/digital Caliper	up to 300 mm 300 to 450 mm 450 to 600 mm 600 to 1000 mm (or inches equivalent)	11 um 13 um 15 um 22 um	With reference to BS EN ISO 13385: 2011 by using Caliper Checker or Gauge Blocks
Vernier/dial/digital Height Gauge	up to 300 mm 300 to 600 mm (or inches equivalent)	11 um 15 um	With reference to JIS B 7517: 1993 with Vernier, Dial and Digital Height Gauges by using Caliper Checker or Gauges Blocks
Weighing Machines/ Balances	From 0g to 220g Over 220g to 420g Over 420g to 820g Over 820g to 1220g	0.001 g 0.002 g 0.003 g 0.005 g	MCL Procedure: CMP- M-001 Based on UKAS LAB14: 2006 Calibration of Weighing Machines (Clause 4.3.3(a), 4.3.3(c) & 4.3.3 (d))
	Over 1220g to 2000g	0.03 g	
	Over 2000g to 5000g	0.19	
	Over 5000g to 20000g	0.2g	
	Over 20000g to 30000g	0.59	
	Over 30000g to 50000g	5g	
	Over 50000g to 100000g	5g	
	Over 100000g to 200000g	10g	

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SCOPE OF CALIBRATION : FORCE & TORQUE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
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SCOPE OF CALIBRATION : HARDNESS

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
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SCOPE OF CALIBRATION : MASS

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
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SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
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SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
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