Schedule of Accreditation

Issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

0228

Accredited to ISO/IEC 17025:2017

MP Calibration Services Ltd

Issue No: 033 **Issue date:** 25 April 2025

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Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address 43 Haviland Road Ferndown Industrial Estate Wimborne Dorset BH21 7RY	**Local contact** Mr M J Yeoman	Dimensional	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
At customers premises	Mr M J Yeoman	Dimensional	B

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH			Note 1 The uncertainty quoted is for the departure from either flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	
Plain plug gauges (parallel)	0.3 to 50 diameter 50 to 100 diameter 100 to 165 diameter	1.0 2.0 on diameter 2.5	Calibrated by comparison to length standards using a single axis length machine	A
Plain ring gauges (parallel)	2 to 12 diameter 12 to 50 diameter 50 to 100 diameter 100 to 300 diameter	1.5 1.2 on diameter 1.5 3.0	Calibrated by comparison to length standards using a single axis length machine	A
Length gauges, flat and spherical ended (excluding length bars)	0 to 600	1.0 + (8.0 x length in m)	Calibrated by comparison to length standards	A
Parallels	5 to 50 x 100 x 400	1.5 to 5.0 see note 1	BS 906:Parts 1&2:1972	A
Vee blocks	20 to 150 designating size	2.5 to 5.0 see note 1	BS 3731:1987	A
Plain gap gauges	0.5 to 100 100 to 200 200 to 300	3.0 5.0 8.0	Calibrated by comparison to length standards using a single axis length machine	A
Screw plug gauges (parallel) including check and setting plugs (See Note 2)	1 to 100 diameter	3.0 on pitch diameter	Note 2 Single start, symmetrical threads only. Calibrated by comparison to cylindrical setting standards using thread measuring wires.	A
Screw pitch	0.2 to 8	1.5	Calibrated using a single axis length machine	A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH (continued)				
Screw flank angle	0° to 52°	5.0 minutes of arc	Calibrated using a optical projection methods	A
Screw ring gauges (parallel)	1 to 20	See note 3	Note 3 1 mm to 20mm diameter range relates to functional test of size using check plugs.	A
Screw caliper gauges	1 to 30	See note 4	Note 4 Functional test of size using setting plugs calibrated with a CMC of 3.0 µm	A
ANGLE				
Squares				
Blade type	50 to 300 300 to 600	4.0 On squareness 6.0 See note 1	BS 939:2007	A
Cylindrical type	75 to 300 300 to 600	2.0 On squareness 3.0 See note 1	BS 939:2007	A
Sine Bars and Tables	0 to 250	Linear dimension 1.0 + (10 x length in m) Overall performance 5.0 seconds of arc	BS 3064:1978	A
Right angle and Box Plates	50 to 600	Squareness: 3.0 + (1.0 per 100 mm) Parallelism: 1.0 + (1.0 per 100 mm)	BS 5535:1978	A
FORM				
Surface plate Granite and Cast iron	160 x 100 to 1600 x 1000	1.5 + (0.80 x diagonal in m) See note 1	BS 817:2008	A, B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES				
Micrometers				
External	0 to 600	Heads: 2.0 between any two points	BS 870:2008	A
Internal	0 to 300		BS 959:2008	A
Depth	0 to 300	Setting and extension rods 1.0 + (8.0 x length in m)	BS 6468:2008	A
3 point bore	0 to 100 100 to 200	3.0 4.0	Calibrated using master setting ring gauges and a calibration fixture	A
Height setting micrometer	0 to 300	Heads: 1.0 between any two points Overall performance 3.0	Calibrated by comparison to length standards	A
Riser blocks for above	150 300	2.5 3.0	Calibrated by comparison to length standards	A
Vernier gauges				
Caliper	0 to 1500	Overall performance: 10 + (30 x length in m)	BS 887:2008	A
Height	0 to 1500	Overall performance: 10 + (30 x length in m)	BS 1643:2008	A
Height (simple)	0 to 1500	Overall performance: 10 + (30 x length in m)	BS EN ISO 13225:2012	A
Depth	0 to 600	Overall performance: 10 + (30 x length in m)	BS 6365: 2008	A
Dial gauges and dial test indicators	0 to 50 Discrimination	1.0 2.0	BS 907:2008 and BS 2795:1981	A
Feeler gauges	0.025 to 1	3.0	BS 957:2008	A

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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES (continued)				
Bevel protractors	0° to 360°	6.0 minutes of arc	BS 1685:2008	A
Spirit levels	5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity: 10% of nominal Minimum 0.50 seconds of arc	BS 958:1968 and BS 3509:1962	A
Radius gauges	0 to 15	10 on profile	Calibrated using a optical projection methods	A
Graduated rules	0 to 300	5.0 + (10 x length in m)	Calibrated using a optical projection methods	A
ANCILLARY MEASUREMENTS				
	Flatness	2.0	Comparison against reference standards	
	Parallelsim	2.0	Comparison against reference standards	
	Straightness	2.0	Comparison against reference standards	
	Squareness	3.5	Comparison against reference standards	
END				

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.
Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$