


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS CALIBRATION 0026 Accredited to ISO/IEC 17025:2017	Taylor Hobson Ltd	
	Issue No: 041 Issue date: 12 January 2026	
	Calibration Laboratory 2 New Star Road Leicester LE4 9JD	Contact: Jon Leeman Tel: +44(0)116- 2763771 E-Mail: taylor-hobson.calibration@ametec.com Website: www.taylor-hobson.com

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 Calibration Laboratory 2 New Star Road Leicester LE4 9JD	Local contact Jon Leeman	Dimensional A

Site activities performed away from the locations listed above:

Location Details	Activity	Location code
Address At customer's premises	Local contact Jon Leeman	Dimensional B



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks / Method / Equipment used	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH				
Balls (Steel Ceramic and Tungsten carbide)	1 to 50 diameter	0.50 on diameter (0.40 on derived radius)	Single axis length measuring instrument	A
Plain plug gauges (parallel)	1 to 50 diameter 50 to 100 diameter 100 to 200 diameter 200 to 400 diameter 400 to 600 diameter	0.50 0.60 on diameter 1.0 2.5 3.0	Single axis length measuring instrument	A
Plain ring gauges (parallel)	10 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter	1.0 1.5 on diameter 2.0 3.0	Single axis length measuring instrument	A
Roundness	In support of ball, plug and ring calibrations for the ranges shown	0.025 on form	Multi-axis roundness measuring machine	
ANGLE				
Angle gauges	0° to 360°	1.0 seconds of arc. 0.050 flatness of faces (see note 1)	Indexing table and autocollimator	A
Polygons	4 to 36 sides	1.0 seconds of arc. 0.050 flatness of faces (see note 1)	Indexing table and autocollimator	
Constant deviation prisms Optical squares (specific value)	90°	0.70 seconds of arc	Indexing table and autocollimator	A
Rotary tables and Angular Encoders	0° to 360° Capacity 0 to 1000	1.5 second of arc	Indexing table and autocollimator	A, B
Indexing tables	0° to 360°	0.30 seconds of arc	Indexing table and autocollimator (error separation)	A
FORM				
Roundness reference standards	12 to 50 diameter	0.0050 radial	Multi-axis roundness measuring machine (error separation)	A
Cylindrical roundness magnification standards	Radial displacement 1 µm to 500 µm	0.10	Surface texture measuring device	A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
Surface texture measurement standards (see note 9)	BS EN ISO 5436-1:2001			
	Depth measurement standards (Type A) 0.025 μm	0.0040		A
	BS EN ISO 5436-1:2001			A
	Depth measurement standards (Type A1) 0.025 μm to 2.5 μm	0.015		
	Depth measurement standards (Type A1) 2.5 μm to 50 μm	0.060		
	Spacing measurement standards (Type C1-C2)(see note 6) Ra 0.010 μm to 6.4 μm Rsm 25 μm to 250 μm	2% + 4.0 nm 0.60 μm		A
	Roughness measurement standards (Type D1) 0.3 μm to 1.5 μm Ra	(3.0 % + 4.0 nm) Ra of the stated value over the calibration area Rt (see CMC for Type A depth measurement standard)		A
Profile coordinate measurement standard (Type E1-E2) (see note 7) Radius/form type: 49, 80 & 110 Prism type: 0° to 30°	2.0 radius 0.11 form 1.0 second of arc		A	
Harmonic Standards Nominal dia. 44 mm (1500 to 15) upr (undulations per revolution)	Rq 0.037 μm (Rsm 0.092 mm) Rq 0.095 μm (Rsm 0.276 mm) Rq 0.38 μm (Rsm 0.92 mm) Rq 0.38 μm (Rsm 2.76 mm)	0.063 0.066 0.12 0.12	Surface texture measuring device	A
See note 8				
Optical flats	10 to 100 diameter	0.050	Documented interferometric techniques	A
Optical wedge	0 to 1 minute of arc 1 to 30 minutes of arc	1 seconds of arc 2 seconds of arc	Reference collimator and optical accessories	A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
Optical straightedges	1 to 500	0.10	Multi-axis roundness measuring machine (reversal)	A
Cylindrical straightedges	1 to 1200	0.10	Multi-axis roundness measuring machine (reversal)	A
Surface Plates	BS 817: 2008 160 x 100 to 2500 x 1600	1.5 + (0.80 x diagonal in m) See Note 1		A, B
MEASURING INSTRUMENTS				
Small step height (recording type)	0.0005 μm to 10 μm	see CMC for Type A depth measurement standard)	Comparison with reference length artefacts	A
Optical alignment telescopes also targets and collimators	1.2 displacement	Alignment at ∞ 2.0 seconds of arc Targets 4.0 Line of site 10.0	Reference collimators and optical accessories	A
Auotcollimators Optical Photo-electric Digital Digital (High Accuracy)	60 minutes of arc 10 minutes of arc 15 minutes of arc 14.5 minutes of arc	0.50 seconds of arc 0.50 seconds of arc 0.50 seconds of arc 0.20 seconds of arc (See Note 5)	Small angle generator and autocollimator	A
Spirit levels	BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity: 10% of nominal Minimum 0.50 seconds or arc		A
Electronic indicating levels	0 minutes of arc to 60 minutes of arc	1.0 second of arc	Small angle generator	A
Clinometers	0° to 360°	Mechanical instruments: 10 seconds of arc Optical instruments: 1.0 second of arc	Rotary table	A
Roundness measuring machines	Internal 1 to 350 diameter External 0.05 to 350 diameter Straightness 0 to 1000	0.050 0.050 0.10	Reference roundness artefacts	B



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MEASURING INSTRUMENTS (cont.)				
Surface texture measuring machines	BS EN ISO 12179:2001 See Note 4	0.020		B
Talyrond precision cylinder	Parallelism 0 to 100	0.30	Multi-axis roundness measuring machine	A
	NOTES: 1. The uncertainty quoted is for the distance separating the two parallel plane lines which just enclose the profile under consideration. 2. All linear calibrations may be given in inch units. 3. Machine tools calibrated to the manufacturer's specification. 4. Measurement ranges as specified below for surface texture measurement standards. 5. The uncertainty quoted applies to high accuracy Auto collimators manufactured by Taylor Hobson. 6. Type C1 –C2 Spacing standards includes square waveform standards not listed within ISO 5436:2001. 7. Type E1-E2 Profile coordinate measurement standards includes the category Balls (Steel, Ceramic and Tungsten carbide) listed separately on the schedule. 8. Harmonic amplitude can be derived from $Rq \times \sqrt{2}$ 9. Analysis is carried out according to the requirements of ISO 4287:2000, ISO 4288:1998 and ISO 21920:2022 series of standards.			
END				



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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: $Q[a, b] = [a^2 + b^2]^{1/2}$