


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>28153</b> Accredited to ISO/IEC 17025:2017	<b>Carl Zeiss Limited</b>	
	<b>Issue No:</b> 001 <b>Issue date:</b> 04 April 2025	
	<b>Zeiss House</b> 1030 Cambourne Business Park Cambourne CB23 6DW	<b>Contact:</b> Greg Evans <b>Tel:</b> +44 (0) 1223 401500 <b>E-Mail:</b> support.metrology.uk@zeiss.com <b>Website:</b> www.zeiss.co.uk
Calibration performed by the Organisation at the locations specified		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
Carl Zeiss Ltd Unit 3 Mulberry Enterprise Park Coventry Road Lutterworth LE17 4WZ  <b>Local contact</b> Tim Collier	Administration only	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<b>Address</b> At customer's premises  The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.	Dimensional	B



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
Cartesian co-ordinate measuring machines (CMM)	<p>Length Measurement tests: <math>E_L</math> Over a 0 mm to 2333 mm measurement line, using end standards.</p> <p>Single stylus probing test: <math>P_{Form.Sph.1 \times 25:SS:Tact}</math> <math>P_{Size.Sph.1 \times 25:SS:Tact}</math> Using a 10 mm to 51 mm diameter test sphere.</p> <p>Scanning mode test: <math>P_{Form.Sph.Scan:k:Tact}</math> <math>P_{Size.Sph.Scan:k:Tact}</math> <math>T_{Sph.Scan:k:Tact}</math> Using a 24.9 mm to 25.5 mm diameter test sphere.</p>	<p>0.080 + (0.25 x length in m) <math>\mu m</math></p> <p>0.050 <math>\mu m</math> 0.085 <math>\mu m</math></p> <p>0.050 <math>\mu m</math> 0.085 <math>\mu m</math> 0.82 seconds</p>	<p>ISO 10360-2:2009 Test value uncertainties based on ISO/TS 23165:2006.</p> <p>ISO 10360-5:2020. Test value uncertainties as ISO/TS 17865:2016.</p> <p>ISO 10360-5:2020. <math>P_{Form}</math> and <math>P_{Size}</math> Test value uncertainties as ISO/TS 17865:2016.</p>	B
Cartesian co-ordinate measuring machines with the axis of a rotary table as the fourth axis	<p>Rotary axis test: <math>FR</math> <math>FT</math> <math>FA</math> Radius 50 mm to 206 mm. Using 10 mm to 30 mm diameter test spheres.</p>	<p>0.14 <math>\mu m</math> 0.14 <math>\mu m</math> 0.15 <math>\mu m</math></p>	<p>ISO 10360-3:2001. Test value uncertainties based on ISO/TS 17865:2016.</p>	B

Notes: The accreditation only covers Cartesian co-ordinate measuring machines with activated temperature compensation.

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