

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|   |   |   |
|---|---|---|
| <br><b>23364</b><br>Accredited to<br><b>ISO/IEC 17025:2017</b> | <b>Werth Metrology Limited</b>              |   |
|   | Issue No: 002    Issue date: 22 August 2023 |   |
|   | 35 Brunel Parkway<br>Derby<br>DE24 8HR      | Contact: Carl Harrison<br>Tel: +44 (0) 1332 289664<br>E-Mail: <a href="mailto:service@werth-metrology.com">service@werth-metrology.com</a><br>Website: <a href="http://www.werth-metrology.com">www.werth-metrology.com</a> |
| Calibration performed by the Organisation at the locations specified below  |   |   |

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

#### Laboratory locations:

| Location details   | Activity                       | Location code |
|--|--------------------------------|---------------|
| <b>Address</b><br>35 Brunel Parkway<br>Derby<br>DE24 8HR | Administrative activities only | A             |

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

| Location details   | Activity    | Location code |
|--|-------------|---------------|
| The location 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<br>Instrument or Gauge   | Range  | Expanded Measurement<br>Uncertainty ( $k=2$ )                                   | Remarks   | Location<br>Code |
|--|--|---|---|------------------|
| MEASURING INSTRUMENTS<br>AND MACHINES<br><br>Cartesian co-ordinate measuring<br>machines (CMM's) | Length measurement:<br>$E_L$<br>0 to 635 mm<br>(Longest diagonal)<br><br>Single stylus probing test:<br>$P_{Form.Sph.1 \times 25:SS:Tact}$<br>$P_{Size.Sph.1 \times 25:SS:Tact}$ | 0.32 + (0.49 x length in metres)<br>$\mu m$<br><br>0.30 $\mu m$<br>0.41 $\mu m$ | ISO 10360-2:2009<br>using end<br>standards<br><br>ISO 10360-5:2020<br>Using a 10 mm to<br>51 mm diameter<br>test sphere. Test<br>value uncertainties<br>calculated in line<br>with ISO/TS<br>17865:2016.<br><br>Accreditation is<br>limited to CMM's<br>manufactured by<br>Werth. | B                |
| 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:  $Q[a, b] = [a^2 + b^2]^{1/2}$