


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p style="text-align: center;">UKAS CALIBRATION</p> <p style="text-align: center;">0155</p> <p style="text-align: center;">Accredited to ISO/IEC 17025:2005</p>	<h3 style="margin: 0;">Alan Browne Gauges Limited</h3> <p style="margin: 0;">Issue No: 017 Issue date: 26 September 2008</p>	
	<p>Blackdown Mill Kenilworth Road Leamington Spa Warwickshire CV32 6QT</p>	<p>Contact: Mr J Maclellan Tel: +44 (0)1926-424278 Fax: +44 (0)1926-451865 E-Mail: jmaclellan@alanbrowne.co.uk Website:</p>
<p>Calibration performed at the above address only</p>		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks																																
<p>RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED</p>																																			
<p>LENGTH</p> <p>Gauge blocks</p> <p>Inch (steel and tungsten carbide)</p> <p>Millimetre (steel and tungsten carbide)</p> <p>Optical flats</p>	<p>As BS 4311:Parts 1 and 3:1993</p> <p>Up to 0.4 in Above 0.4 in up to 1 in Size 2 in Size 3 in Size 4 in</p> <p>As BS EN ISO 3650:1999</p> <p>Up to 10 Above 10 up to 25 Sizes 30, 40, 50, 60, 70, 80, 80, 90, 100</p> <p>Up to 50 diameter Above 50 up to 75 diameter</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> <td style="text-align: center;">E</td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">6</td> <td rowspan="5" style="vertical-align: middle; padding-left: 10px;">} μ in.</td> </tr> <tr> <td style="text-align: center;">1.5</td> <td style="text-align: center;">2.5</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">2.5</td> <td style="text-align: center;">3.5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">7</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4.5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">8</td> <td style="text-align: center;">12</td> </tr> <tr> <td style="text-align: center;">3.5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">7</td> <td style="text-align: center;">10</td> <td style="text-align: center;">14</td> </tr> </table> <p>0.03 0.05 0.08 0.10 0.15 0.04 0.06 0.1 0.13 0.20 0.06 0.09 0.12 0.17 0.25 0.07 0.11 0.15 0.21 0.30 0.09 0.13 0.18 0.25 0.35</p> <p>0.05 0.08</p>	A	B	C	D	E		1	2	3	4	6	} μ in.	1.5	2.5	4	5	8	2.5	3.5	5	7	10	3	4.5	6	8	12	3.5	5	7	10	14	<p>NOTES</p> <p>1 All calibrations must be carried out in accordance with procedures agreed by UKAS.</p> <p>Interferometry</p> <p>Class A uncertainties apply to the measurement of length by interferometry of grade K gauge blocks to BS EN ISO 3650:1999 and BS 4311:Part 1:1993, when they are measured twice, wrung to a platen by each of the two measuring faces in turn, and the mean of these two measurements stated on the certificate.</p> <p>Comparison</p> <p>Class B uncertainties apply to the measurement of length of gauge blocks, by comparison with grade K standards of length of a similar material, of grade 0 to BS EN ISO 3650:1999 and BS 4311:Part 1:1993 and BS 4311:Part 3:1993.</p> <p>Class C uncertainties apply to the measurement of length of gauge blocks, by comparison with grade K standards of length of a similar material, of grades 0, 1 and 2 to BS EN ISO 3650:1999 and BS 4311:Part 1:1993 and BS 4311:Part 3:1993.</p>
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<p align="center">RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED</p> <p align="right">NOTES (cont'd)</p> <p>Class D and E uncertainties are the maximum applicable to the measurement of length of grade 3 and 4 gauge blocks respectively to BS 4311:Part 3 1993, by comparison with grade K standards of length of a similar material.</p> <p>Class C, D and E uncertainties also apply to the measurement of length of tungsten carbide gauge blocks up to a length of 25 mm/1 inch, by comparison with grade K steel standards.</p>			
<p align="center">END</p>			