


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS CALIBRATION 0224 Accredited to ISO/IEC 17025:2005	Aspland Gauge Co Ltd Issue No: 023 Issue date: 14 July 2011	
	Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF	Contact: Dr J Freear Tel: +44 (0)161 368 3432 Fax: +44 (0)161 367 8426 E-Mail: aspland@btinternet.com Website: www.aspland.co.uk
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				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address</td> <td style="width: 50%;">Local contact</td> </tr> <tr> <td>Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF</td> <td>Dr J Freear</td> </tr> </table>	Address	Local contact	Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF	Dr J Freear	Dimensional	A
Address	Local contact					
Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF	Dr J Freear					

Site activities performed away from the locations listed above:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">At customers premises</td> <td style="width: 50%;">Dr J Freear</td> </tr> </table>	At customers premises	Dr J Freear	Dimensional	B
At customers premises	Dr J Freear			



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH			NOTES	
Gauge blocks Inch (Steel)	BS 4311-1:2007 0.01 in to 0.4 in 0.4 in to 1 in 2 in 3 in 4 in	<u>C</u> <u>D</u> 3.0 4.0 4.0 5.0 μ in 5.0 7.0 6.0 8.0 7.0 10	Class C uncertainties apply to the measurement of length of gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and BS 4311-1:2007. Class D uncertainties are the maximum applicable to the measurement of length of tungsten carbide gauges by comparison with grade K standards of length of a dissimilar material. 1. The uncertainty quoted is for the departure from flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	A
Millimetre (Steel)	BS EN ISO 3650:1999 0.5 to 10 10 to 25 30, 40, 50 60, 70, 75 80, 90, 100	<u>C</u> <u>D</u> 0.080 0.10 0.10 0.13 0.12 0.17 0.15 0.21 0.18 0.25		A
Plain plug gauges (parallel) cylindrical setting standards and rollers	1 to 50 diameter 50 to 100 100 to 150 150 to 200	0.80 1.0 on diameter 1.5 2.0		A
Plain ring gauges (parallel) and setting standards	2 to 10 diameter 10 to 50 50 to 100 100 to 200	1.5 1.0 on diameter 1.6 2.5		A
Vee blocks	BS 3731:1987 20 to 150	2.5 to 5.0		A
Length gauge, flat and spherical ended (excluding length bars)	0 to 1000	1.0 + (8.0 x length in m)		A
Thread measuring cylinders	BS 5590:1978 and specials 0.1 to 5	0.50		A
Plain gap gauges (parallel)	BS 969:2008 2 to 100 100 to 200 200 to 300	3.0 5.0 8.0		A
Feeler Gauges	BS 957:2008 0.025 to 1	3.0		A
Parallels	BS 906:1972 5 to 50 x 100 x 400	1.5 to 5.0		A



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LENGTH (cont'd)				
Receiver, position and profile gauges	0 to 600 x 600 x 300	Length and diameter 3.0 + (20 x length in m) Angle 1.0 minute of arc Roundness 3.0 on radius		A
Rule – steel	BS 4372:1968 0 to 1000 to 1000 up to 2000	5.0 + (50 x length in m) 10 + (50 x length in m)		A
ANGLE				
Squares				A
Blade type	BS 939:2007 50 to 300 300 to 600 600 to 1000	3.0 5.0 9.0		
Cylindrical	75 to 300 300 to 600	2.0 On squareness 4.0 See Note 1		
Block	50 to 300 300 to 600	3.0 5.0		
Sine bars and tables	BS 3064:1978 0 to 500	Linear dimensions 1.0 + (10 x length in m) Overall performance 3.0 seconds of arc		A
Sine centres	0 to 500 length or between centres	Linear dimensions 1.0 + (10 x length in m) Overall performance 5.0 seconds of arc		A
Compound sine tables	With tables or equivalent up to 500 length	5.0 seconds of arc		A
Right angle and box angle plates	BS 5535:1978 50 to 600	Squareness: 3.0 + (1.0 per 100 mm) Parallelism 1.0 + (1.0 per 100 mm) [See Note 1]		A
Clinometers	0 to 45 degrees	10 seconds of arc		A



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FORM				
Surface plates Granite Cast iron	BS 817:2008 160 x 100 to 2500 x 1600	1.5 + (0.80 x diagonal in m) See Note 1		A, B
Straightedges Cast iron Steel Granite	BS 5204:Part 1:1975 BS 5204:Part 2:1977 0 to 2000	1.0 + (2.0 x length in m) See Note 3		A, B
MEASURING INSTRUMENTS AND MACHINES				
Micrometers External	BS 870:2008 0 to 600	Heads 2.0 between any two points		A
Internal	BS 959:2008 0 to 900	Setting and extension rods		
Depth	BS 6468:2008 0 to 300	1.0 + (8.0 x length in m)		
Micrometers Height Setting	0 to 300	3.0		A
Riser blocks for above item	150 300	2.5 5.0		A
Bench micrometer	NPL MOY/SCMI 22 0 to 100	Overall performance 2.0		A
Vernier caliper, height and depth gauges	BS 887:2008 0 to 1000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		A
Comparators (external)	BS 1054:1975 250 to 10 000 magnifications	1.0 % of range Minimum 0.20		A
Electronic height gauges	0 to 1000	1.0 + (5.0 x length in m)		A, B
Bore micrometer (three point)	0 to 150 diameter	5.0		A
Bevel protractors	BS 1685:2008 0° to 360°	6.0 minutes of arc		A
Spirit levels	BS 3509:1962 and BS 958:1968	Mean sensitivity 10 % of nominal		A
Electronic levels	5 seconds of arc to 60 minutes of arc nominal sensitivity	Minimum 0.50 seconds of arc		A



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MEASURING INSTRUMENTS AND MACHINES Micrometer heads	BS 1734:1951 0 to 100	1.0		A
END				