


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0269 Accredited to ISO/IEC 17025:2005	G B Quality Assurance	
	Issue No: 022 Issue date: 05 March 2011	
Unit 9 Chancel Way Moor Lane Industrial Estate Birmingham B6 7AU	Contact: Tony Facey Tel: +44 (0)121-356 7430 Fax: +44 (0)121-344 3837 E-Mail: tony.facey@gbqualityassurance.co.uk Website: gbqualityassurance.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
Address Unit 9 Chancel Way Moor Lane Industrial Estate Birmingham B6 7AU Contact: Tony Facey Tel: +44 (0)121-356 7430 Fax: +44 (0)121-344 3837 E-Mail: tony.facey@gbqualityassurance.co.uk	Dimensional	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
At customers premises Contact: Tony Facey	Dimensional	B



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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 block accessories	As BS 4311:Part 2: 2009 0.1 to 12.5	0.50		A
Thread measuring cylinders	As BS 5590:1978 and specials 0.1 to 5	0.50	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
Plain plug gauges (parallel), cylindrical setting standards and rollers	1 to 50 diameter 50 to 100 100 to 150	0.80 1.0 1.5		A
Plain plug gauges (taper)			2. Single start symmetrical and asymmetrical thread forms only.	A
Taper up to 1 in 8 on diameter	3 to 50 diameter 50 to 100 100 to 150	3.0 4.0 5.0] on diameter	A
Taper above 1 in 8 and up to 1 in 3 on diameter	3 to 50 diameter 50 to 100 100 to 150	5.0 6.0 7.0		
Plain ring gauges (parallel) and setting standards	1 to 50 diameter 50 to 100 100 to 150	1.8 2.0 2.5	3. Single start, symmetrical thread forms only.	A
Plain ring gauges (taper)			4. Includes use of check plugs for screw rings from 1 mm to 6mm diameter.	A
Taper up to 1 in 8 on diameter	3 to 50 diameter 50 to 100 100 to 150	4.0 5.0 6.0] on diameter	A
Taper above 1 in 8 and up to 1 in 3 on diameter	3 to 50 diameter 50 to 100 100 to 150	6.0 7.0 8.0		
Length gauges, flat and spherical ended	1 to 1000	1.0 + (8.0 x length in m)	5. Functional test of size using setting plugs calibrated with a CMC of 3.0 µm	A
Plain gap gauges (parallel)	0.5 to 100 100 to 200 200 to 300	3.0 5.0 8.0		A
Parallels	As BS 906: 1972 5 to 50 x 100 x 400	1.5 up to 5.0		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH (cont'd)				
Vee blocks	As BS 3731:1987 20 to 150	2.5 to 5.0		A
Screw plug gauges (parallel) including check and settings plugs See Note 2	1 to 100 diameter 100 to 150	3.0 4.0 on pitch diameter		A
Screw Plug Gauges (taper) See Note 3	2 to 100 diameter 100 to 150	4.0 8.0		
Screw ring gauges (parallel) See Notes 2	1 to 100 diameter 100 to 150 See Note 4	5.0 on pitch 6.0 diameter		
Screw Ring Gauges (Taper) See Note 3	6 to 150 diameter	7.0		
Screw pitch Screw flank angle	0.2 to 8 0° to 52°	1.5 5.0 minutes of arc		
Screw thread adjustable calliper gauges (parallel) See Note 3	1 to 150 diameter	See Note 5		A
ANGLE				
Squares Blade type	As BS 939:2007 50 to 300 300 to 450	3.0 5.0	On Squareness See note 1	A
Cylindrical	As BS 939:2007 75 to 300 300 to 600 600 to 900 900 to 1200	2.0 4.0 6.0 8.0		
Block	As BS 939:2007 50 to 300 300 to 600 600 to 900 900 to 1200	3.0 5.0 8.0 10.0		
Angle plates and box angle plates	As 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



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ANGLE (cont'd)				
Sine centres	0 to 300 length or between centres	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds of arc		A
FORM				
Surface plates Granite Cast iron	As BS 817:2008 160 x 100 to 2500 x 1600	1.5 + (0.80 diagonal in m) See note 1		A, B
Straightedges Cast iron	As BS 5204:Part 1:1975 300 to 5000 As BS 5204:Part 2:1977 300 to 2000	1.0 + (2.0x length in m) See note 1		A, B
Steel Granite				
Surface texture (excluding measurement standards and roughness comparison specimens)	As BS 1134:Part 1:1988 Ra 0.02 μ m to 80 μ m	10% of measured value		A
MEASURING INSTRUMENTS AND MACHINES				
Micrometres External	As BS 870:2008 0 to 600	Heads: 2.0 between any two points		A
Internal	As BS 959:2008 0 to 900			
Depth	As BS 6468:2008 0 to 300	Setting and extension rods: 1.0 + (5.0 x length in m)		
Micrometer heads	As BS 1734:1951 0 to 100	1.0		A
Bench micrometer	As NPL MOY/SCMI 22 0 to 100	Overall performance 2.0		A
Vernier caliper, height and depth gauges	As BS 887:2008 0 to 2000 As BS 1643:2008 0 to 1000 As BS 6365: 2008 0 to 600	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0		A
Height setting micrometer	0 to 300	Heads 1.0 Overall performance 3.0		A



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MEASURING INSTRUMENTS AND MACHINES (cont'd)				
Riser blocks for above	150 300	2.5 5.0		A
Bench centres	0 to 1000 between centres	Linear dimensions 1.0 + (10 x length in m)		A
Thread diameter measuring	As NPL MOY/SCMI/ 9 0 to 300	Overall performance 1.5		A
Measuring machines Vertical Horizontal	0 to 1500	1.0+(5.0 x length in m)		A, B
Profile projectors	10 to 100 magnification 0 to 300 0° to 360°	125 at the screen 5.0 4.0 minutes of arc		A, B
Toolmakers microscopes	As NPL MOY/SCMI/2 0 to 300 0° to 360°	125 at the screen 5.0 4.0 minutes of arc		A, B
Bevel protractors	As BS 1685:2008 0° to 360°	5.0 6.0 minutes of arc		A
Comparators (external)	As BS 1054:1975 250 to 10 000 magnifications	1.0 % of range Minimum 0.20		A
Steel rules	As BS 4372:1968 0 to 4000	25 + (5.0 x length in m)		A
Spirit levels	As BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity	Means sensitivity 10% of nominal Minimum 0.50 seconds of arc		
Electronic indicating levels	0 minutes of arc to 60 minutes of arc	1.0 % of range Minimum 0.50 seconds of arc		A
Height gauges, electronic	0 to 1000	1.0 + (5.0 x length in m)		A, B
Clinometers	0° to 360°	10 seconds of arc		A



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MEASURING INSTRUMENTS AND MACHINES (cont'd)				
Fineness of grind gauges (Hegman type)	As BS EN ISO 1524:2002, BS 3900-C6:2000 0 to 100 μ m	1.0		A
END				