

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0373</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<h3>Metrology and Quality Services Ltd</h3> <p>Issue No: 026    Issue date: 21 December 2011</p>	
	<p>Unit 2 Executive Park Hat field Rd St Albans Hertfordshire AL1 4TA</p>	<p>Contact: Mr G J Wilson Tel: +44 (0)1727-847292 Fax: +44 (0)1727-847661 E-Mail: enquiries@mqs.co.uk Website: www.mqs.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Unit 2 Executive Park Hatfield Road St Albans Hertfordshire AL1 4TA</p> <p><b>Local contact</b> Mr G J Wilson</p>	Dimensional & Torque	A
<p><b>Address</b> 37 Western Parkway Business Centre Lower Ballymount Road Dublin 12 IRELAND</p> <p><b>Local contact</b> Mr P Roche Tel No: +353 [ 0 ] 1 4502 666</p>	Dimensional	B

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

Location details	Activity	Location code
<p>At customers premises</p> <p><b>Local contact</b> Mr G J Wilson</p>	Dimensional	C





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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 (cont'd)				
Plain ring gauges (taper)				
Taper up to 1 in 8 on diameter	5 to 50 diameter 50 to 100 100 to 200	4.0 on diameter 5.0 6.0		A
Tapers above 1 in 8 on diameter	5 to 50 diameter 50 to 100 100 to 200	6.0 on diameter 7.0 8.0		A
Length gauges, flat and spherical ended	25 to 1000	1.0 + (8.0 x length in m)		A & B
Plain gap gauges (parallel)	0.5 to 100 100 to 200 200 to 300	3.0 5.0 8.0		A & B
Parallels	As BS 906:1972 0 to 50 x 100 x 400	1.5 to 5.0		A & B
Vee blocks	As BS 3731:1987 20 to 150 diameter, vee capacity	1.5 to 5.0		A & B
Screw plug gauges (parallel) including check and setting plugs See Note 2	0 to 100	2.5 on pitch diameter 1.5 on pitch 5.0 minutes of arc on flank angle		A & B
Screw ring gauges (parallel) See Note 2	1 to 12 10 to 100 100 to 150	See note 3 5.0 on pitch diameter 6.0 on pitch diameter 1.5 on pitch 5.0 minutes of arc on flank angle		A
	1 to 12	See note 3		B
Receiver, position and profile gauges, jigs and fixtures	0 to 450 x 300 x 300	3.0 + (10 x length in m) See note 7		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
ANGLE				
Squares Blade type	As BS 939:2007 0 to 300 300 to 450	3.0 On 4.0 squareness See Note 1		A & B A
Cylindrical	As BS 939:2007 0 to 300 300 to 600	2.0 On 4.0 squareness See Note 1		A
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 & B
Bevel protractors	As BS 1685:2008 0° to 360°	6.0 minutes of arc		A & B
Sine bars	As BS 3064:1978 100 to 300	1.0 + (10 x length in m) 3.0 Seconds of arc		A
Sine tables	As BS 3064:1978 100 to 500	1.0 + (10 x length in m) 3.0 Seconds of arc		A
FORM				
Surface plates Granite Cast iron	As BS 817:2008 and above 160 x 100 to 4000 x 4000	1.5 + (0.80 x diagonal in m) See Note 1		A, B & C
Straightedges Cast iron	As BS 5204:Part 1:1975 300 to 8000	] 1.0 + (2.0 x length in m) See Note 1		A
Steel Granite	As BS 5204:Part 2:1977 300 to 2000			
Roundness External Internal	As BS 3730 1 to 350 diameter 3 to 350	0.050 on radius		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES				
Micrometers External	As BS 870:2008 0 to 600	Heads 2.0 between any two points. Setting and extension rods 1.0 + (8.0 x length in m)		A
	0 to 150			B
Internal	As BS 959:2008 0 to 900			A & B
	As BS 6468:2008 0 to 300			A & B
Depth				A & B
Indicating micrometers	0 to 100	Indicators 0.50 Overall performance 1.5		A & B
Bore micrometers (three-point)	6 to 100	3.0		A
Combination sets	0° to 360° (Protractor) 0 to 500 (Rule)	30 minutes of arc 5.0 + (10 x length in m)		A
Vernier gauges				A & B
Caliper	As BS 887:2008 0 to 1000	Overall performance 10 + (30 x length in m)		
Height	As BS 1643:2008 0 to 1000			
Depth	As BS 6365:2008 0 to 600			
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0		A & B
Comparators (external)	As BS 1054:1975 250 to 20 000 magnifications	1.0 % of range Minimum 0.10		A
Displacement transducers	0 to 100	0.30 + (4.0 x length in m)		A & B
Air gauging units (See Note 5)	0 to 5000 magnifications	0.50 % of range		A
Feeler Gauges	As BS 957:2008 0.03 to 1.00	3.0		A & B
Internal and External Caliper Gauges	0 to 150	1.0		A & B
Clinometers	0 to 360 degrees	10 seconds of arc		A



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MEASURING INSTRUMENTS AND MACHINES (cont'd)				
Electronic indicating levels	0 to 20 minutes of arc	1.0 % of range Minimum 0.50 seconds of arc		A & B
Spirit levels	As BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity: 10 % of nominal Minimum 0.50 seconds of arc		A & B
Micrometer heads	As BS 1734:1951 0 to 100	1.0		A & B
Height setting micrometer	300	Heads 1.20 Stepped column 2.0 Overall performance 2.5		A
Riser blocks for above	150 300	2.0 4.0		A
Precision scales (linear)	0 to 300	1.5 + (3.0 x length in m)		A
Steel rules	As BS 4372:1968 0 to 500 500 to 1000	5.0 + (10 x length in m) 10 + (10 x length in m)		A
Dividing heads	100 to 450 capacity	Overall angular performance		A & C
Rotary tables	100 to 450			A & C
Inclinable rotary tables	100 to 450	3.0 seconds of arc		A & C
Profile projectors	10 to 100 magnifications	125 at the screen 2.5 linear scales 1.5 minutes of arc		A, B & C
Electronic microprocessor controlled height gauges	0 to 1 m	1.0 + (5.0 x length in m)		A, B & C
Horizontal & vertical measuring machines	0 to 1 m	0.20 + (1.0 x length in m)		A & C
Evaluation of electrical contact unit for internal measurement		Overall performance 1.0 on diameter.		A & C
Hand Torque Tools	As BS EN ISO 6789:2003 1 to 1000 Nm	1.6 % of maximum reading (see note 4)		A
END				