


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION 0475</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Excel Calibration & Test Ltd</h3> <p>Issue No: 016 Issue date: 16 August 2011</p>	
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<p>Calibration performed at the above address only</p>		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability Expressed (CMC) as an Expanded Uncertainty ($k=2$)	Remarks
<p>RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED</p>			
LENGTH			NOTES
Thread measuring cylinders	As BS 3777, BS 5590 and specials 0.1 to 5	0.50	.
Plain plug gauges (parallel) and cylindrical setting standards	1 to 50 diameter 50 to 100 100to 150 150to 200	0.80 1.0 1.5 2.0	1 Single and multi-start symmetrical and asymmetrical thread forms.
Plain ring gauges (parallel) and setting rings	2.5 to 5 diameter 5 to 50 50 to 100 100 to 150 150 to 200 200 to 300	2.0 1.0 1.5 2.0 2.5 3.0	2 The uncertainty quoted is for the departure from flatness, straightness or squareness, ie, the distance separating the two parallel planes which just enclose the surface under consideration.
Screw plug gauges (parallel) including check and setting plugs See Note 1	1 to 100 diameter 100 to 300	3.0 on pitch 5.0 diameter	3. Functional test of size using setting plugs calibrated with a CMC of 3.0 μ m
Screw ring gauges (parallel) See Note 1	3 to 100 diameter 100 to 150 150 to 300	4.0 on pitch 6.0 diameter 8.0	
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 1	1 to 100 diameter	See Note 3	
Steel balls	1 to 30 diameter	0.80	
Tungsten carbide balls	1 to 30 diameter	0.80	



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability Expressed (CMC) as an Expanded Uncertainty ($k=2$)	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
LENGTH (cont'd)			
Length gauges, flat and spherical ended	1 to 1200	1.0 + (8.0 x length in m)	
Plain gap gauges	5 to 100	3.0	
Parallels	As BS 906:1972 5 to 50 x 100 x 400	Dependant on size and grade 1.5 to 5.0	
Vee Blocks	As BS 3731:1987 20 to 150		Dependant on size and grade 2.5 to 5.0
ANGLE			
Sine bars and tables	As BS 3604:1978 0 to 500 length	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 5.0 seconds of arc	
Squares Blade type	As BS 939:2007 50 to 300	3.0 on squareness See Note 2	
Angle plates and box angle plates	As BS 5535:1978 50 to 600	Squareness 3.0 + (1.0 per 100 mm) See Note 2 Parallelism 1.0 + (1.0 per 100 mm)	
MEASURING INSTRUMENTS AND MACHINES			
Micrometers External Internal Depth	As BS 870:2008 0 to 600 As BS 959:2008 0 to 900 As BS 6468:2008 0 to 300	Heads: 2.0 between any two points Setting and extension rods 1.0 + (8.0 x length in m)	
Vernier caliper, height and depth gauges	As BS 887:2008 0 to 1000 As BS 1643:2008 0 to 1000 As BS 6365: 2008 0 to 600		Overall performance 10 + (30 x length in m)
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0	
Feeler gauges	As BS 957:2008 0.025 to 1	3.0	
END			