


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>0610</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>James H Heal &amp; Co Ltd</b>	
	Issue No: 035    Issue date: 20 August 2021	
	<b>Richmond Works</b> <b>Lake View</b> <b>Halifax</b> <b>West Yorkshire</b> <b>HX3 6EP</b>	<b>Contact: Mr Paul Lyons</b> <b>Tel: +44 (0)1422 366355</b> <b>Fax: +44 (0)1422 352440</b> <b>E-Mail: paul.lyons@james-heal.co.uk</b> <b>Website: www.james-heal.co.uk</b>
<b>Calibration performed by the Organisations at the locations specified below</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Richmond Works Lake View Halifax West Yorkshire HX3 6EP  <b>Local contact</b> Mr Paul Lyons	Force Textile	P

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

Location details	Activity	Location code
Customers' sites or premises    Mr Peter Brown  The customer's sites or premises must be suitable for the nature of the particular calibrations undertaken and will be subject of contract review arrangements between the laboratory and the customer	Force Textile	S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k=2$ )	Remarks	Location Code
TEXTILE TESTING MACHINES			Unless otherwise indicated. Physical measurement of mass, time, temperature, pressure and linear dimensions in accordance with multiple industry standards, manufacturers specifications and customer requirements.	P & S
Martindale abrasion machines				
Mass	100 g to 3000 g	0.28 g		
Linear	0.5 mm to 150 mm	0.20 mm		
Speed	20 rpm to 99 rpm	0.10 rpm		
Tumble Dryers				
Temperature	10 °C to 80 °C	0.90 °C		
Timer	1 s to 600 s	0.50 s		
Linear	550 mm to 1000 mm	2.0 mm		
Speed	40 rpm to 100 rpm	0.10 rpm		
Reference Washing Machines (including Wascator)				
Temperature	25 °C to 90 °C	0.90 °C		
Linear	50 mm to 200 mm	1.0 mm		
Timer	1 s to 120 s	0.50 s		
Mass	1 kg to 20 kg	0.12 kg		
Speed	At 52 rpm and 500 rpm	0.10 rpm		
Gyrowash and Washwheels				
Linear	50 mm to 220 mm	0.50 mm		
Temperature	10 °C to 95 °C	0.90 °C		
Timer (specific value)	1 to 300 s	0.50 s		
Speed (specific value)	38 rpm to 42 rpm	0.25 rpm		
Capacity	500 ml to 600 ml 1100 ml to 1300 ml	8.0 ml 16 ml		
Pilling Testers (random)				
Linear	5 mm to 160 mm	0.20 mm		
Speed (specific value)	1200 rpm	0.50 rpm		
Time	1 s to 300 s	0.50 s		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k=2$ )	Remarks	Location Code
TEXTILE TESTING MACHINES (cont'd)				P & S
Pilling Testers (Box & Drum)				
Linear	5 mm to 320 mm	0.85 mm		
Speed	30 rpm to 60 rpm	0.10 rpm		
Sample cutters				
Diameter of cut sample	20 mm to 150 mm	0.30 mm		
Burst Strength Testers				
Linear	0 mm to 120 mm	0.050 mm		
Time	1 s to 60 s	0.50 s		
Pressure	0 kPa to 1500 kPa	2.0 kPa		
Vertical Frame Textile Flammability Testers				
Linear	1 mm to 700 mm	0.18 mm		
Angle	0° to 90°	0.60 °		
Time	1 s to 90 s	0.50 s		
Crockmeters				
Force	1 N to 11 N	0.033 N		
Linear	5 mm to 110 mm (stroke) 5 mm to 20 mm (peg diameter)	0.20 mm 0.050 mm		
Speed	10 cpm to 60 cpm	0.17 cpm		
Perspirometer				
Mass	100 g to 5100 g	0.35 g		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k=2$ )	Remarks	Location Code
UNIVERSAL TESTING MACHINES				P & S
Verification and calibration of the force measuring system by force proving instruments in Tension and compression using masses	1 N to 600 N for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2015	0.079 %		
Verification and calibration of the force measuring system by force proving instruments in Tension and compression using force proving instruments	600 N to 10 kN for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2015	0.32 %		
Tautex crimp testing machines				
Mass (check weight supplied with machine)	5 g to 250 g	0.28 g		
Linear	5 mm to 1500 mm	0.50 mm		
Load (indication in mass)	5 g to 250 g	0.70 g		
END				



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**Appendix - Calibration and Measurement Capabilities**

**Introduction**

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

**Calibration and Measurement Capabilities (CMCs)**

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of  $k = 2$ . An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

**Expression of CMCs - symbols and units**

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.

Thus, for example, a measurement uncertainty of 1.5 % means  $1.5 \times 0.01 \times q$ , where  $q$  is the quantity value.

The notation  $Q[a, b]$  stands for the root-sum-square of the terms between brackets:  $Q[a, b] = [a^2 + b^2]^{1/2}$