

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0231</b>  Accredited to ISO/IEC 17025:2017	<b>Foundrax Engineering Products Ltd</b>	
	Issue No: 047    Issue date: 23 February 2026	
	<b>Wessex Park</b> <b>Somerton</b> <b>Somerset</b> <b>TA11 6SB</b>	<b>Contact: Alex Austin</b> <b>Tel: +44 (0)1458 274888</b> <b>E-Mail: <a href="mailto:quality@foundrax.co.uk">quality@foundrax.co.uk</a></b> <b>Website: <a href="http://www.foundrax.co.uk">www.foundrax.co.uk</a></b>
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
<b>Address</b> Wessex Park Somerton Somerset TA11 6SB	<b>Local contact</b> Alex Austin	Calibration of Brinell Reference blocks  Calibration of Rockwell Reference blocks  Direct and Indirect Verification of Brinell Machines including portable machines and Indentation Measuring Equipment  Direct & Indirect verification of Rockwell Hardness Calibration machines  Verification of ball Indenters	P

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

Location details		Activity	Location code
At Customers Premises		Direct and Indirect Verification of Brinell Machines including portable machines and Indentation Measuring Equipment	S





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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>HARDNESS (cont'd)</b>				
Calibration of Reference Hardness Blocks: Brinell scales (cont.)	Ratio (F/D <sup>2</sup> ) = 10 10/1000 140 HBW to 169HBW 10/1000 110 HBW to 140HBW 10/1000 90 HBW to 110HBW 10/1000 55 HBW to 90HBW  5/250 140 HBW to 169HBW 5/250 110 HBW to 140HBW 5/250 90 HBW to 110HBW 5/250 55 HBW to 90HBW	See Note 1 0.93 HBW 0.75 HBW 0.60 HBW 0.44 HBW  1.2 HBW 1.0 HBW 0.80 HBW 0.58 HBW		P
Brinell reference indentation reading blocks	Ratio (F/D <sup>2</sup> ) = 5 10/500 90 HBW to 100 HBW 10/500 55 HBW to 90 HBW  0.6 mm up to 6 mm diameter	See Note 1 0.57 HBW 0.44 HBW  1.8 µm on indentation diameter	Using a high resolution measuring system	P
Direct verification of indentation measuring equipment for Brinell hardness	0.6 mm to 6.0 mm	See Note 2 1.4 µm	Note 2 The calibration shall be in accordance with the requirements of BS EN ISO 6506-2:2018 and /or BS EN ISO 6506-3:2014 and/or ASTM E10-23.	P & S
Verification of Brinell ball indenters	1 mm to 10 mm	See note 3	Note 3 The verification shall be in accordance with the requirements of BS EN ISO 6506-2:2018 and/or ASTM E10-23.	P
Direct & Indirect verification of Brinell Hardness Calibration Machines, Hardness Testing Machines including portable machines, and Indentation Measuring devices	Brinell scales: HBW 10/3000 to HBW 2.5/187.5  Force 30 kN to 1 kN  Time 2 s to 30 s  Scale 10/3000 653 HBW to 96 HBW  Scale 10/1500 299 HBW to 55 HBW  Scale 10/1000 169 HBW to 55 HBW  Scale 5/750 653 HBW to 96 HBW	See Note 4  0.2 %  0.1 s  See Note 4 8.0 HBW to 2.2 HBW  4.1 HBW to 1.2 HBW  2.3 HBW to 1.2 HBW  9.8 HBW to 2.4 HBW	Note 4 The calibration shall be in accordance with the requirements of BS EN ISO 6506-2:2018 or BS EN ISO 6506- 3:2014 and/or ASTM E10-23 and ASTM E110-14 (2023).	P & S       S



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>HARDNESS (cont'd)</b>				
Direct & Indirect verification of Brinell Hardness Calibration Machines, Hardness Testing Machines including portable machines, and Indentation Measuring devices	Scale 5/250 169 HBW to 55 HBW	2.7 HBW to 1.3 HBW		
	Scale 2.5/187.5 653 HBW to 96 HBW	16 HBW to 2.9 HBW		
	Scale 2.5/62.5 135.8 HBW	3.0 HBW		
Direct verification of Rockwell Hardness Calibration machines	Rockwell scale: A, B, C, D, E, F, G, H, K, L, M, P, R, S and V	See Note 5	Note 5 The calibration shall be in accordance with the requirements of BS EN ISO 6508-3:2023 and/or ASTM E18-22.	P
	Force 9.806 N to 1471 N	0.06 %		
	Depth 10 $\mu$ m to 250 $\mu$ m	0.09 $\mu$ m		
	Time 1 s to 25 s	0.1 s		
Verification of Rockwell ball indenters	1.5875 mm to 12.7 mm	See Note 6	Note 6 The verification shall be in accordance with the requirements of BS EN ISO 6508-2:2023 and/or BS EN ISO 6508-3:2023 and/or ASTM E18-22.	P
Calibration of Rockwell Standardised Hardness Blocks	HRA Steel Scale 80 to 86.5 70 to 78 20 to 65	See Note 7 0.28 HRA 0.26 HRA 0.28 HRA	Note 7 The calibration shall be in accordance with the requirements of BS EN ISO 6508-3:2023 and/or ASTM E18-22.	P
	HRBW Scale 80 to 120 51 to 79 10 to 50	0.42 HRBW 0.87 HRBW 1.36 HRBW		
	HRC Scale 60 to 70 40 to 59 20 to 39	0.31 HRC 0.32 HRC 0.37 HRC		
	HRD Scale 70 to 80 50 to 69 40 to 49	0.25 HRD 0.25 HRD 0.27 HRD		
	HREW Scale 75 to 89 65 to 74	0.54 HREW 0.54 HREW		



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<b>HARDNESS</b> (cont'd) Calibration of Rockwell Standardised Hardness Blocks (cont'd)	HRFW Scale 87 70 to 86 40 to 69	0.40 HRFW 0.40 HRFW 0.54 HRFW		
	HRGW Scale 80 40 to 79 10 to 39	0.30 HRGW 0.30 HRGW 0.76 HRGW		
	HRHW Scale 90 80 to 89 60 to 79	0.40 HRHW 0.40 HRHW 0.68 HRHW		
	HRKW Scale 70 30 to 69 10 to 29	0.40 HRKW 0.40 HRKW 0.64 HRKW		
	HRL Scale 115 90 to 114	0.35 HRL 0.35 HRL		
	HRM Scale 100 70 to 99	0.56 HRM 0.56 HRM		
	HRP Scale 85 40 to 84	0.65 HRP 0.91 HRP		
	HRR Scale 120 100 to 119	0.23 HRR 0.40 HRR		
	HRS Scale 112 110 to 111	0.19 HRS 0.91 HRS		
	HRV Scale 104 80 to 103	0.20 HRV 0.61 HRV		
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$